Product Guide
Fire Detection Systems

International 2020 / 21

LST

Trademarks
All brand names and product names used in this Product Guide are trade names, service marks, trademarks, or registered trademarks of their respective owners.

Introduction

Supported by the quality management system certified according to ISO9001, our products are developed, manufactured and accurately tested in accordance to national and international standards as well as to our own strict regulations.

The planning of systems as well as the installation, commissioning and maintenance of the products and of the systems combined thereof require specific expert knowledge and therefore may only be made by trained expert personnel. The product-specific training of the expert personnel must be made by LST or by persons explicitly authorized by LST. All valid country specific regulations and guidelines for the use of the products must be obeyed. This Product Guide is under no circumstances a substitute for the detailed documentation of the individual products or for the product-specific training of the expert personnel on proper and professional installation, connection, programming and operation of our products and of systems combined thereof.

This Product Guide contains general information on the use for each product. Descriptions, pictures and specifications correspond to the conditions and intentions at the time of printing of the Product Guide. We reserve the right for modifications of any type, especially when on account of technological progress and do not take on any liability for misprints and obvious mistakes. The values stated in the specifications generally represent nominal values; by means of sample variations, product modifications or site specific conditions, these values may differ from the actually measured values.

LST always tries to provide information as comprehensive and as accurate as possible. Nevertheless, all information on suitability and use of our products are non-binding and do not liberate the introducer in a market from doing own tests. The buyer is responsible for himself for obeying legal and official regulations in connection with the use.

With the publication of this Product Guide, all previous Product Guides and, if prices are contained in this Product Guide, all previous price lists of the corresponding subject and sales area lose their validity. The charge for the products is made on basis of the prices valid on the day of delivery. All delivery contracts are concluded on the basis of the "General Terms of Delivery issued by the Austrian Electrical and Electronics Association".

Special delivery times or export limitations may exist for some products listed in the Product Guide. Also country specific variants of products may be listed in the Product Guide which may not be used in all sales areas due to different technical requirements or specific approval limitations.

Please always refer to the article number of the products when making an inquiry or when placing an order.

Example of an article entry

1 **2** **3**

999999 **Name Type**

4 Description of the article with basic notes on function, design, application, detailed specifications, approval codes and other information.

5

Cross-references	Page	Art.No.	Name Type
	xx	999999	Name Type
	xx	888888	Name Type
	xx	777777	Name Type
	xx	666666	Name Type

1 . . . Article number; please always refer to this number on inqiries or orders to avoid mistakes.

2 . . . Product name

3 . . . Type; the type is a string of alpha-numerical characters and symbols without blank characters and is separated from the product name by one blank character.

4 . . . Product description, details on approvals and examinations, specifications

5 . . . Cross-references to other products of the Product Guide which are in direct connection with the chosen product. These cross-references present a list of possibilities which are of exemplary nature only; the products listed therein must not necessarily be working altogether.

In the table of contents and at the beginning of the description of an article, the following special terms and abbreviations are used:

NEW The product is included in the catalogue for the first time, and maybe it's availability is still limited, or it may only became available at a later time.

N. F. N. S. Not for new systems! The product is still fully available at the moment and it is intended for the expansion of existing systems. However, for new systems, a successor model should be used.

DISCON. The product is a discontinued item and it's availability is limited. Before placing an order, it should be checked whether the product is available.

Contents Part 1

1 Fire Detection Control Panels Series BC600

211999T Series BC600, Description 2
211200 Fire Detection Control Panel BC600-8L2S 5
211201 Fire Detection Control Panel BC600-8L4S 5
211213 Fire Detection Control Panel BC600-8L2N 5
211214 Fire Detection Control Panel BC600-8L4N 6
211215 Fire Detection Control Panel BC600-8L8N 6
211240 Fire Detection Control Panel BC600-16L2S 6
211241 Fire Detection Control Panel BC600-16L4S 7
211247 Fire Detection Control Panel BC600-16L8S 7
211255 Fire Detection Control Panel BC600-16L2N 7
211256 Fire Detection Control Panel BC600-16L4N 8
211257 Fire Detection Control Panel BC600-16L8N 8
211280 Fire Detection Control Panel BC600-CE8L2S 8
211281 Fire Detection Control Panel BC600-CE8L4S 9
211284 Fire Detection Control Panel BC600-CE8L2N 9
211285 Fire Detection Control Panel BC600-CE8L4N 9
211401 Fire Detection Control Panel BC600-1L 10
211407 Fire Detection Control Panel BC600-1L/LTF 10
211403 Fire Detection Control Panel BC600-1L/S1 11
211408 Fire Detection Control Panel BC600-1L/LTF/S1 11
211402 Fire Detection Control Panel BC600-1D 11
211404 Fire Detection Control Panel BC600-1D/S1 12
211419 Backplane BPL601-1 12
211997T Fire Detection Control Panel BCnet600, Description 12
211216 Fire Detection Control Panel BC600-8N2N 13
211217 Fire Detection Control Panel BC600-8N4N 14
211218 Fire Detection Control Panel BC600-8N8N 14
211258 Fire Detection Control Panel BC600-16N2N 14
211259 Fire Detection Control Panel BC600-16N4N 15
211260 Fire Detection Control Panel BC600-16N8N 15
211351 Remote Display and Operation Panel ABF600-1 16
211353 Remote Display and Operation Panel ABF600-CE1 16
211302 Country Kit LZB-BC600/INT1 16
211300 Country Kit LZB-BC600/A1 16
211301 Country Kit LZB-BC600/D1 17
211306 Country Kit LZB-BC600-1D/INT1 17
211304 Country Kit LZB-BC600-1D/A1 17
211305 Country Kit LZB-BC600-1D/D1 17
211100 Central Processing Board ZTB600-1 17
211101 Central Processing Board Redundant ZTBR600-1 18
211112 Conventional Detector Interface GIF608-1 18
211116 Conventional Detector Interface Redundant GIFR608-1 19
211110 Loop Interface LIF601-1 19
211111 Loop Interface Redundant LIFR601-1 20
211113 Fire Brigade Interface FWI600-1 20
211114 Fire Brigade Interface Redundant FWIR600-1 20
211141 Input/Output Interface MEA644-1 20
211142 Input/Output Interface Redundant MEAR644-1 21
211154 Analogue Interface AIF604-1 **NEW** 21
211155 Output Interface redundant OIFR664-1 **NEW** 22
211143 Relay Module RL608-1 22
211117 LED Display Field LAF648-1 23
211120 LED Display Field LAF648-2 23
211121 LED Display Field LAF648-3 23
211118 LED Button Field LTF616-1 23
211140 LED Button Field LTF616-2 24
211144 LED Button Field Redundant LTFR616-3 24
211147 Printer Field EDF600-1/INT1 24
229013 Spare Paper for EDF600-1 5 Rolls EDF600/EP-5R 25
211119 Serial Interface SIF601-1 25
211125 Serial Interface SIF601-2/ESPA 25

211126 Serial Interface SIF601-3/ZLT 26
211127 Serial Interface SIF601-4/ZLT-UNI 26
211156 Serial Interface SIF622-1 **NEW** 27
211122 Network Interface NIF600-1 27
211123 Network Interface Redundant NIFR600-1 27
211130 Power Supply NT602-1 28
211131 Power Supply NT604-1 28
211132 Power Supply NT608-1 29
223051 Voltage Coupler redundant SKR600-1 29
211151 Backplane BPL608-1 29
211152 Backplane BPL610-1 30
211160 Extension Housing GEHZ600-16 30
211206 Auxiliary Housing GEH600-8 31
211244 Auxiliary Housing GEH600-16 31
211370 Surface Mounting Frame AMR600-8 32
211371 Surface Mounting Frame AMR600-16 32
211372 Surface Mounting Frame AMR600-16Z 33
211373 Surface Mounting Frame AMR600-1 33
229650 Sealing Kit Wall IP54 BC600-WDS **NEW** 33
229651 Sealing Kit IP54 BC600-1x--DS 34
229652 Sealing Kit IP54 BC600-8-DS 34
229653 Sealing Kit IP54 BC600-16-DS 34
229654 Sealing Kit IP54 BC600-16Z-DS 34
211162 Module Carrier BGT600-1 34
211996T Fire Detection Control Panel BC600-E, Description 35
211330 Display and Operating Front Panel ABP600-1L 35
211150 Function Module Carrier FMT608-1 36
212040 Module Carrier 19"/6HU MPL600/6H 36
211331 Expansion Front Panel 19"/4HU EFP600-1 36
211161 Battery Bracket BK600-1 37
211164 Power Supply Carrier NTT600-1 37
250021 Key Switch Set Complete SCH70-1 37
211165 Door Contact Switch TKS600-1 37
211179 Termination Connector SBA600-1 37
211998T Included system bus cables and system supply cables 38
211170 System Bus Cable SBK600-0,25 38
211171 System Bus Cable SBK600-0,5 38
211172 System Bus Cable SBK600-0,75 38
211173 System Bus Cable SBK600-1,0 38
211174 System Bus Cable SBK600-1,5 38
211175 System Bus Cable SBK600-2,0 38
211180 System Supply Cable SVK600-0,25 39
211181 System Supply Cable SVK600-0,6 39
211182 System Supply Cable SVK600-0,8 39
211183 System Supply Cable SVK600-1,0 39
211184 System Supply Cable SVK600-1,35 39
211185 System Supply Cable SVK600-2,0 39
211186 System Supply Cable SVK600-4,0 39
219008 Key for BC600 SCH-BC600-1 39

2 Fire Detection Control Panels Series BC016

210102 Fire Detection Control Panel BC016-1/INT1 42
210100 Fire Detection Control Panel BC016-1/D1 43
210103 Fire Detection Control Panel BC016-1/S1 43
210122 Fire Detection and Evacuation Panel BC016-2/INT1 43
210120 Fire Detection and Evacuation Panel BC016-2/D1 43
210110 Detector Zone Extension BC016 MGE8-1 44
210111 Fire Brigade Interface FWI016-1 44
214025 Serial Interface Module SIM216-1 44
210112 Serial Interface Module SIM016-3 45

3 Fire Detection Control Panels Series BC06

210205 Fire Detection Control Panel BC06-1/INT1 48
210200 Fire Detection Control Panel BC06-1/D1 49
210211 Fire Detection Control Panel BC06-1/S1 49
210209 Fire Detection Control Panel BC06-2/INT1 49

210208 Fire Detection Control Panel BC06-2/D1 49
210210 Zone Extension Board BC06 ZEB2-1 49
210215 Serial Interface Module SIM06-1 50
210212 Front Foil Evacuation Circuit FFEV06-1 50
249096 Manual Call Point Coding Module MCM1-1 50

4 Extinguishing System Controls

218992T Extinguish. Control Function in Series BC600 Panels, Description 52
218027 Extinguishing-Control 1-Area-Licence LC600-1LB 53
218028 Extinguishing-Control 4-Area-Licence LC600-4LB 53
218029 Extinguishing-Control 8-Area-Licence LC600-8LB 53
218030 Extinguishing-Control 16-Area-Licence LC600-16LB 53
218031 Extinguishing-Control 32-Area-Licence LC600-32LB 53
218032 Extinguishing-Control 64-Area-Licence LC600-64LB 53
218033 Extinguishing-Control 128-Area-Licence LC600-128LB 53
226013 Fire/Extinguishing Control Panel BC600-1L/LTF/EXT 53
210223 Fire/Extinguishing Control Panel BC06-1EXT/INT1 54
210220 Fire/Extinguishing Control Panel BC06-1EXT/D1 55
210226 Fire/Extinguishing Control Panel BC06-1EXT/S1 55
210224 Fire/Extinguishing Control Panel BC06-2EXT/INT1 56
210221 Fire/Extinguishing Control Panel BC06-2EXT/D1 56
222011 Extinguishing System Interface LSS1000-1 56
249097 Line-Coupler Redundance Control LKR21-1 56
370601 Control Box for ZC with Module ASB70-1_D1 **NEW** 57
370603 Control Box for ZC ASB70-2_D1 **NEW** 57
240717 Manual Call Point/Blue/3LED/Test HME/5015/94/57/00 **NEW** 58

5 REmote ACcess Tool REACT

250999T Remote Access by Means of the REmote ACcess Tool, Description 60
223080 LAN Module/BC216/REACT LAN/BC216/REACT-1 60
223083 LTE Module/REACT LTE/REACT-2 61
223085 LTE Aerial Set 10 Meter LTE-ANT-SET-10M **NEW** 62
420070 Licence REACT Detail LIC-R-DET 62
420071 Licence REACT Operation and Push LIC-R-OPP 62
420072 Licence REACT Map View LIC-R-MAP 62
420075 SMS fee REACT SMS-REACT 62

6 Alarm Monitoring Systems

218041 Alarm-Monitoring-Software-Licence ALVIS/F 64
218048 Alarm-Monitoring-Interface-Licence ALVIS-BC600 64

7 Cabinets and Accessories

212046 Cabinet 19"/15HU GEH19/15/IP55/SIT 66
212023 Cabinet 19"/36HU with Transparent Door GEH19/36-SIT 66
212049 Cabinet 19"/36HU with Steel Door GEH19/36-E 67
212047 Cabinet 19"/40HU with Transparent Door GEH19/40-SIT 67
212048 Cabinet 19"/45HU with Transparent Door GEH19/45-SIT 67
212034 Module Carrier 19"/3HU MPL17/3 67
212030 Dummy Cover 19"/2HU AD8C-2H 68
212029 Dummy Cover 19"/3HU AD8C-3H 68
212053 Dummy Cover 19"/3HUplus AD8C-3H/PLUS **NEW** 68
212033 Dummy Cover 19"/6HU AD8C-6H 68
212052 Cabinet Light LED LED-GEH19/X 68
212044 Wiring Plan Pocket SZ-2514-000 69
212045 Kit for Battery Bracket VX-8617-020/TS-8612-080 69
212647 Fire Protection Housing/FDCP/E30 EHL31/04224-MEP **NEW** 69
212648 Fire Protection Housing/FDCP/E30 EHL31/06334-MEP **NEW** 70

8 Interfaces

219009 USB to Serial Converter US232R-100 72
219016 Programming Cable USB A-B 3 Meter PK-USB-A-B-3M 72
219010 Programming Cable BC216/RS232 PK216-1 72

223042 SMS Transmitter Module GSM-SCOUT 72
223043 SMS Transmitter/Receiver Module GSM-SCOUT/AKTIV 73
223045 Data Logger Event Memory DLOG-1 73
214027 Network Cable SU=100m NWK2-1 74
223079 Long-Distance Modem BCnet600 ADA-M140 74
223032 Gateway Multimode Fibre-BCnet LWL-MM-2 75
223033 Gateway Singlemode Fibre-BCnet LWL-SM-2 75
223034 Gateway 2xMultimode Fibre-BCnet LWL-2XMM-2 76
223036 Gateway 2xSinglemode Fibre-BCnet LWL-2XSM-2 76
223035 Gateway Red. Multimode Fibre-BCnet LWLR-MM-2 77
223072 SMS/E-Mail Transmitter Module SMS3-1/BC600 77
223073 SMS/E-Mail Transmitter Module SMS3-1/NT/BC600 78
223061 Gateway/IEC GW/IEC/BC600-1 78
223062 Gateway/Modbus GW/MODBUS/BC600-1 79
223066 Mini PC EBOX-1 79
223064 Software Licence OPC-BC600 80
223065 Software Licence BACNET-BC600 80
218060 ZLT Interface Licence BC600-ZLT **NEW** 80
211430 LAN-Module/GW-BC600-216 LAN/BC600-216-1 80
211431 Gateway BC600-BC216 Basic Licence GW-BC600-216-BAS/LIZ 81
211432 Gateway BC600-BC216 Member Licence GW-BC600-216-TLN/LIZ 81
214025 Serial Interface Module SIM216-1 81
218022 ZLT Interface Licence ZLT-SS 83

9 Additional Modules for Fire Detection Control Panels

223026 Siren Connection Module SZ58-3 85
222007 Terminal Adapter Module SUB58-2 85
222004 Relay Module RL58-1 86
222010 Relay Module RL58-2 86
211143 Relay Module RL608-1 86
222013 Detector Reset Module MQZ1000-1 87
223050 Voice Evacuation Interface SAA2-1 **NEW** 87
229012 Flat Cable 650mm/10-Pole FBK6-1 90
229008 Flat Cable 1700mm/10-Pole FBK17-1 90

10 Overvoltage Protection

343003 Surge Arrester for 24VDC 0,75A 920324 91
343002 Surge Arrester for Detector Loop 920325 91
343001 Surge Arrester for Network BCnet 920271 92
343008 Surge Arrester for MOD-1/receiver 920240 92
343009 Surge Arrester for MOD-1/transmitter 920364 93
343006 Surge Arrester for NNU5-1 920344 93
343005 Surge Arrester for RS232 920322 94
343004 Surge Arrester for 24VDC 1,8A 920336 94
343020 Base for Surge Arrester 920300 95
343007 Surge Arrester for 24VDC 25A 953201 96
343030 Surge Arrester for 230VAC 952110 96

11 Display and Operating Devices

250020 Remote Tableau SG70-1 97
250021 Key Switch Set Complete SCH70-1 98
251003 Remote Indicator PA58-3 98
251004 Remote Indicator PA58-3/IP65 98
252010 LED Display Tableau LAT288-1 98
252011 LED Display Tableau LAT288-1CE 99
214024 LED Display Field LAB48-1 99
214030 LED Display Field LAB48-2 100
214032 LED Display Field LAB48-3 100
214036 LED Display Field LAB48-4 100
252012 Remote Tableau Drive Unit PTU288-1 100
252013 LED Connection Module LAM48-1 101
259011 LED Assembled Green/10pcs. LED-GN/10 101
259010 LED Assembled Red/10pcs. LED-RT/10 104
259012 LED Assembled Yellow/10pcs. LED-GE/10 104
259013 Cord 2 Wire for LED Connection/10pcs. LED-LEITUNG/10 104

12 Fire Brigade Key Boxes and Accessories

265740 Fire Brigade Key Box FSK700-2/D1 ... 105
265751 Flush Mounting Frame for FSK700-2 EZ700-2/D1 ... 105
265818 Flush Mount. Frame/Drilling Protection EZBS700-2 ... 106
265766 Inner Door for FSK700-2/PHZ/30.5mm ITA-4/D1 **NEW** ... 106
265767 Inner Door for FSK700-2/PHZ/35.5mm ITA-5/D1 ... 106
265744 Auxiliary Cylinder PHZ700-2 ... 107
265780 Cable Seal 2,5x200 blue KP-FSK ... 107
249650 Protective Cover for FSK700-2/2SX WSD-FSK ... 107
237700 Power Supply for FSK Heating NT700-1 ... 107
265900 Control Unit for FSK AD900-1/D1 ... 108
265810 Key Depot Column SDS700-2 ... 108
265820 Key Depot Column /1650mm SDS700-2/MOD3 ... 109
265812 Reinforcement Iron Cage MEK700-2 ... 109
265811 Heavy Duty Anchor SLA700-2 ... 109
265817 Top Cover DA1/700-2 ... 110
265819 Top Cover for Flash DA2/700-2 ... 110
265813 Top Cover Contact DK700-2 ... 110
265809 Cover Plate ADP700-2 ... 110
265816 Distribution Box VT700-2 ... 110
265662 Unblocking Element for PHZ FSE/PHZ900-1 ... 111
265663 Mounting Kit for FSE/PHZ900-1 MOSET-FSE/PHZ900-1 ... 111
265664 Protective Cover for FSE/PHZ900-1 SABD900-1 ... 112
265814 Mounting Kit for FSE-PZ MOSET1/700-2 ... 112
356682 Strobe/WM/DC/white/amber/N SOLEX10A ... 112
355675 Base for Sounder/Strobe/IP65/white SW-IP65-SQ/RO ... 113
268009 Fire Brigade Key Box FASB-AP ... 114
268010 Fire Brigade Key Box FASB-UP ... 114
265021 Cylinder for Steel Sheet Mounting LST1003-2 ... 114
268011 MCS Key 882AML1003 ... 115

13 Fire Brigade Control and Display Devices

250025 Fire Brigade Control Unit FBF70-1/S1 ... 116
250026 Alarm Delay Control Unit IBF70-1/S1 ... 116
250028 Fire Brigade Control Unit FBF70-1E/INT1 ... 117
250029 Fire Brigade Control Unit FBF70-1E/S1 ... 118
250740 Fire Brigade Control Unit FBF900-1/D1 ... 118
250630 Fire Brigade Display Panel FAT950-1/D1 ... 119
250631 Fire Brigade Orientation Panel FOT950-1/D1 ... 120
250632 Redundant Connection Adapter FAR950-1/D1 ... 122
268008 Fire Brigade Map Box with desk FWP-3/A4 ... 122
265016 MCS Cylinder for Map Box ZB27-882AM-PK ... 123
268013 MCS Key for Fire Brigade Map Box 882AM-PK ... 123
250634 Fire Brigade Map Box FPKCLR950-1/D1 ... 123
250635 Fire Brigade Map Box FPKPHZR950-1/D1 ... 123

14 Fire Controls

217004 Smoke Switch RS70-1 ... 125
310022 Lithium Standby Battery 22,2V/2,2Ah ... 126
261003 Magnetic Clamp/500N UTKFM05F(1330) ... 126
261004 Magnetic Clamp/Reset/500N UTKFB05(1350) ... 126
261005 Magnetic Clamp/Reset/150mm/500N UTKFZ05C(1370/15) ... 126
261006 Magnetic Clamp/Reset/300mm/500N UTKFZ05L(1370/30) ... 128
261008 Magnetic Clamp/1000N UTKFM10F(1340) ... 128
261009 Magnetic Clamp/Reset/1000N UTKFM10(1360) ... 128
261010 Magnetic Clamp/Reset/150mm/1000N UTKFZ10C(1380/15) ... 129
261011 Magnetic Clamp/Reset/300mm/1000N UTKFZ10L(1380/30) ... 129
261019 Magnetic Lock Clamp/2750N UTKEM30S1(1388) ... 129
261030 Cover black for Magnetic Clamp with arm/UTKFZ UTKFZ-ABD-1 ... 129

15 Power Supply Devices

317100 Power Supply 24V/1A-Stabilized NG1-1S ... 131
317101 Power Supply 24V/2A-Stabilized NG2-1S ... 131
317102 Power Supply 24V/4A-Stabilized NG4-1S ... 132

317040 Power Supply NT602-2 132
317041 Power Supply NT604-2 133
317042 Power Supply NT608-2 133
317050 Power Supply Housing NTG624-1 134
317051 Power Supply Front Panel NTG624-1CE 134
317052 Power Supply Housing NTG624-2 135
317053 Power Supply Housing NTG624-3 136
211373 Surface Mounting Frame AMR600-1 136
317054 Surface Mounting Frame AMR624-2 137
317033 Battery Bracket BK24-1 137
317055 Conversion Kit NT24xx to NT6xx UBS-NT24xx-NT6xx **NEW** 137
229010 Voltage Stabilizer 24VDC STAB24-1 138
229014 Voltage Stabilizer 24VDC STAB24-3 138
223052 Power Distributor Board SVB5-1 138

16 Tools

219017 Loop Tester LTG30-1 139
249220 Detector Test Kit Smoke/Thermo 1001-101 139
249221 Detector Test Kit Smoke/Thermo/CO 2001-101 140
249222 Replacement Smoke Capsule TS3-001 140
249223 Replacement CO Capsule TC3-001 140
249059 Test Module/100/200 MOD400R 141
249143 Smoke Detector Test Set SOLO808 141
249360 Test Gas Can SOLOA5-001 141
249361 Test Gas Can SOLOA10-001 142
249140 Test Gas Can SOLOC3-001 142
249051 Smoke Detector Test Tool SOLO330 142
249067 Smoke Detector Test Tool large Detector SOLO332 142
249068 Heat Detector Test Tool Battery SOLO461-101 142
249228 Heat Detector Test Tool Mains SOLO424-101 143
249052 Detector Removal Tool SOLO200 143
249053 Telescopic Pole SOLO100 143
249227 Telescopic Pole 2.2m SOLO108-001 143
249054 Extension Pole SOLO101 144
249226 Carrying bag for test equipment SOLO610-001 144
249231 Battery for Detector Tester SOLO770-001 144
249230 Charger for Detector Test Tool SOLO727-101 144
249225 Silicone Membrane/Solo Detector Tester SPARE-1005-001 144
249144 Pen with 6 pcs. Smoke Sticks RE6-SET 144
249145 Smoke Sticks 6 pcs. RE6 145
249370 Test Unit/Point Detector SCORP1001-001 **NEW** 146
249371 Test Unit/Aspiration System SCORP2001-001 **NEW** 146
249372 Access Point/Test Unit SCORP25-001 **NEW** 146
249373 Portable Controller SCORP7000-001 **NEW** 148
249374 Control Panel SCORP8000-001 **NEW** 148
249375 Battery Connection Cable SCORP60-001 **NEW** 148

17 Labels

249041 Label BMZ BME/BMZ 150
249243 Label Loschsteuerzentrale BME/LSZ 150
249244 Label Arrow BME/PFEIL 150

18 Miscellaneous

229004 Alarm Resistor 100pcs. 1K/0,33W 151
229005 EOL Resistor 100pcs. 5,6K/0,33W 151
229006 Diode 100pcs. 1N4004/100Stk 151
219612 Log Book for Fire Detection Systems BMA-BUCH **NEW** 151
219610 Log Book for Fire Detection Systems VDS-BUCH **NEW** 151

Contents Part 2

1 Manual Call Points Series HME

240999T Manual Call Points Series HME, Overview 2

2 Conventional Detector Series FC650

241072 Optical Smoke Detector/650 FC650/O 6
242072 Thermal RoR Detector/650/A1R FC650/TDIFF/57 6
242073 Thermal Max Detector/650/BS FC650/TMAX/78 7
249066 Surcharge for special colouring FC650/FI700/SPECIAL 8

3 Analog Detectors and Manual Call Points Series FI750/FI700

241086 Optical Smoke Detector/750 FI750/O 10
241087 Optical-Thermal Detector/750 FI750/OT 10
242086 Thermal Detector/750 FI750/T 11
249066 Surcharge for special colouring FC650/FI700/SPECIAL 12
240502 Manual Call Point/Red/700 HME/3000/72/H1/02 12
240164 Manual Call Point/red/700/FEUER HME/3000/72/52/02/IP65 **NEW** 13
240522 Manual Call Point/Blue/700/HAUSALARM HME/5015/72/02/02 13
240165 Manual Call Point/blue/700/HAUSLARM HME/5015/72/02/02/IP65 **NEW** 14
240532 Manual Call Point/yellow/700/Handauslösung HME/1021/72/17/02 **NEW** 14
240542 Manual Call Point/blue/700/STOPP HME/5015/72/18/02 **NEW** 15
240799 Manual Call Point/green/700/STEUERUNGEN HME/6002/72/29/02 **NEW** 15
240795 Manual Call Point/white/700/NOTFALL HME/1013/72/40/00 **NEW** 16
245080 Manual Call Point/Red/700/Flexi FI700/MCP 17
245081 Manual Call Point IP67/Red/700 FI700/MCP67 17

4 Modules, Optical and Acoustic Devices Series FI750/FI700

249250 Monitor Module 1xIn/700 FI700/M1IN 20
249251 Control Module 1xOut/700 FI700/M1OUT 20
249252 Control Module 1xRel/700 FI700/M1REL 21
249253 Module 1xIn 1xOut/700 FI700/M1IN1OUT 21
249254 Module 1xIn 1xRel/700 FI700/M1IN1REL 22
249255 Conventional Zone Module/700 FI700/M1CZ 22
249256 Monitor Module Mini 1xIn/700 FI700/MM1IN 23
249257 Control Module Mini 1xOut/700 FI700/MM1OUT 23
249258 Control Module Mini 1xRel/700 FI700/MM1REL 23
249259 Module Mini 1xIN 1xOut/700 FI700/MM1IN1OUT 23
249260 Module Mini 1xIn 1xRel/700 FI700/MM1IN1REL 24
249289 Module 4xIn 4xRel/700 FI700/M4IN4REL 24
249290 Module 4xIn 2xOut 2xRel/700 FI700/M4IN2OUT2REL 24
249291 Module 6xIn 2xRel/700 FI700/M6IN2REL 25
251010 Remote Indicator/700 FI700/PA 25
249307 Module FI750-Sounder-Strobe FI750/M/SST 26
355208 Sounder/WM65/DC/red/100 CWS/SOUR 27
355210 Sounder/WM65/DC/white/100 CWS/SOUW 27
355212 Sounder/WB/750RI-Slave/white FI750/WBRIS/SOUW 28
355215 Sounder/WB/750RI-Bus/white FI750/WBRIB/SOUW 28
355201 Sounder/WB/750RI/white FI750/WBRI/MT/SOUW 28
355202 Sounder/WB/750I/white FI750/WB/MT/SOUW 29
355209 Sounder-Str/WM65/DC/re/cl/wh/100/W CWS/SOUR/STRC 30
355211 Sounder-Str/WM65/DC/wh/cl/wh/100/W CWS/SOUW/STRC 31
355213 Sounder-Str/WB/750RI-Slave/wh/cl/wh/C FI750/WBRIS/SSTWCW 31
355214 Sounder-Str/WB/750RI-Slave/wh/cl/re/C FI750/WBRIS/SSTWCR 31
355216 Sounder-Str/WB/750RI-Bus/wh/cl/wh/C FI750/WBRIB/SSTWCW 32
355217 Sounder-Str/WB/750RI-Bus/wh/cl/re/C FI750/WBRIB/SSTWCR 32
355203 Sounder-Str/WB/750RI/wh/cl/re/N FI750/WBRI/MT/SSTWC 33
355204 Sounder-Strobe/WB/750I/wh/cl/re/N FI750/WB/MT/SOUW/STRC 33

5 Accessories for Series FC650/FC600/FI750/FI700

246070 Detector Base/600 FC600/BR 36
246071 Detector Base/600/Diode FC600/BRD 36
246072 Detector Base/600/Relay FC600/BREL 36
246086 Detector Base/750 FI750/B 37
246087 Surface Mounting Kit FI750/FC650/SM **NEW** 37
246088 Wet Base Shroud FI750/FC650/WB **NEW** 37
249646 Wet Base Set/FI700/FC600 FI700/FC600/FZ 38
249273 Conduit Adapter for Detector Base FI700/FC600/CA 38
249276 Silicone Gasket FI700/FC600 FI700/FC600/SA 38
249293 Silicone Gasket FI750 FI750/SA 38
249274 Module Box 41mm/700/Knock-out FI700/MBD/KO 38
249270 Module Box 30mm/700 FI700/MB 39
249271 Module Box 52mm/700 FI700/MBD 39
249279 Detector Base/7500/Heater MH750-1 39
244080 Duct Detector Housing/750 FI750/DDH-2 39
244081 Duct Detector Pipe/750/-0.6m FI750/DDH-2/TV-0,6 40
244082 Duct Detector Pipe/750/-1.5m FI750/DDH-2/TV-1,5 40
244083 Duct Detector Pipe/750/-2.8m FI750/DDH-2/TV-2,8 40
244084 Duct Detector Bracket FI750/DDH-2/BRA 40
244055 Gasket for Duct Detector Pipe FI700/DDH204 41
359075 Lid for Sounder FI7x0/WB FI720/750/COVER/R 41
359074 Lid for Sounder FI7x0/WB FI720/750/COVER/W 41
249275 Programming Unit FI750 FI750/PU 41
249272 Programming Unit FI700 FI700/PU 42

6 Conventional Detectors Series 300/ECO1000

241040 Optical Smoke Detector/300 2351E 44
241041 Optical-Thermal Detector/300 2351TEM 44
242040 Thermal RoR Detector/300/A1R 5351E 45
242042 Thermal Max Detector/300/A2S 5351TE 46
242041 Thermal Max Detector/300/BS 4351E 47
241045 Optical Smoke Detector/1000 ECO1003 47
241046 Optical-Thermal Detector/1000 ECO1002 48
242047 Thermal Max Detector/1000/BS ECO1004T 49
242045 Thermal RoR Detector/1000/A1R ECO1005 49
242046 Thermal Max Detector/1000/A2S ECO1005T 50

7 Analog Detectors and Manual Call Points Series 200AP/500

241999T Detector Series 200AP, Overview 52
241110 Optical Smoke Detector/200AP/ISM ND22051EI 52
241111 Optical Smoke Detector/200AP ND22051E 53
241123 Optical Laser Smoke Detector/200AP 72051EI 53
241116 Optical-Thermal Detector/200AP/ISM DV22051TEI 54
241117 Optical-Thermal Detector/200AP DV22051TE 54
241118 Multicriteria Detector PTIR/200AP/ISM 22051TLEI 55
241119 Multicriteria Detector PTIR/200AP 22051TLE 56
241120 Multicriteria Detector COPTIR/200AP 2251CTLE-W 56
242110 Thermal RoR Detector/200AP/ISM/A1R 52051REI 57
242111 Thermal RoR Detector/200AP/A1R 52051RE 57
242112 Thermal Max Detector/200AP/ISM/A1S 52051EI 58
242113 Thermal Max Detector/200AP/A1S 52051E 58
242114 Thermal Max Detector/200AP/ISM/BS 52051HTEI 58
242115 Thermal Max Detector/200AP/BS 52051HTE 59
240402 Manual Call Point/Red/200AP HME/3000/25/H1/02 59
240118 Manual Call Point/red/200AP/FEUER HME/3000/25/52/02/IP65 **NEW** 60
240422 Manual Call Point/Blue/200AP/Hausalarm HME/5015/25/02/02 60
240162 Handmelder/blue/200AP/HAUSALARM HME/5015/25/02/02/IP65 **NEW** 61
240432 Manual Call Point/yellow/200AP/Handauslösung HME/1021/25/17/02 **NEW** 61
240119 Manual Call Point/yellow/200AP/Handauslösung HME/1021/25/17/02/IP65 **NEW** 61
240442 Manual Call Point/blue/200AP/STOPP HME/5015/25/18/02 **NEW** 62
240163 Manual Call Point/blue/200AP/STOPP HME/5015/25/18/02/IP65 **NEW** 62
240495 Manual Call Point/green/200AP/STEUERUNGEN HME/6002/25/29/02 **NEW** 63
240821 Manual Call Point/orange/200AP/Rauchabzug HME/2011/25/45/02 **NEW** 63
240793 Manual Call Point/white/200AP/NOTFALL HME/1013/25/40/00 **NEW** 64

245041 Manual Call Point/Red/200AP/ISM/Glass MCP5A-RP08FG 65
245040 Manual Call Point/Red/200AP/Glass MCP5A-RP07FG 65
245043 Manual Call Point/Red/200AP/ISM/Flexi MCP5A-RP08FF 65
245042 Manual Call Point/Red/200AP/Flexi MCP5A-RP07FF 66
245045 Man.Call Point/red/IP67/200AP/ISM/Glass WCP5A/RP08SG-L017-01 66
245044 Manual Call Point/Red/IP67/200AP/Glass WCP5A/RP07SG-L017-01 67

8 Modules, Optical and Acoustic Devices Series 200AP/500

249126 Monitor Module/200AP M501MEA 70
249100 Monitor Module 1xSurv.In/200AP M210E 70
249101 Monitor Module 2xSurv.In/200AP M220E 70
249102 Module 2xSurv.In 1xRel.Out/200AP M221E 71
249115 Monitor Module 10xSurv.In/200AP IM-10EA 71
249103 Control Module 1xSurv.Out/200AP M201E 72
249105 Control Module 1xRel.Out/200AP M201E-240 72
249106 Control Module 1xRel.Out-DIN/200AP M201E-240-DIN 73
249116 Control Module 6xRel.Out/200AP CR-6EA 73
249104 Conventional Zone Module/200AP M210E-CZ 74
249107 Conventional Zone Module/200AP M210E-CZR 74
249095 Module 4xSurv.In 4xSurv.Out/Panel MEA244-1/E 75
249092 Module 4xSurv.In 4xSurv.Out/Rail MEA244-1/TR 75
249127 Module 4xSurv.In 4xSurv.Out/Fail-safe/Panel MEA244-1/FS/E 76
249128 Module 4xSurv.In 4xSurv.Out/Fail-safe/Rail MEA244-1/FS/TR 76
249121 Position Switch/200AP/pressed Idle EDS200AP-1/GR 76
249122 Position Switch/200AP/pressed Alarm EDS200AP-1/GA 77
249123 Monitor Module/Box/200AP ÜMB200AP-1 77
249003 Isolator Module/500/200 ISM1-2 77
355251 Sounder/WM/200API/red/100 WSO-PR-I 77
355250 Sounder/WM/200AP/red/100 WSO-PR-N 78
355259 Sounder/WM/200API/white/100 WSO-PP-I 78
355258 Sounder/WM/200AP/white/100 WSO-PP-N 78
355253 Sounder-Str/WM/200API/wh/re/100/N WSS-PR-I 79
355252 Sounder-Str/WM/200AP/wh/re/100/N WSS-PR-N 79
355270 Sounder-Str/WM/200API/wh/cl/re/100/O WSS-PC-I 80
355269 Sounder-Str/WM/200AP/wh/cl/re/100/O WSS-PC-N 80
355271 Sounder-Str/WM/200API/wh/am/100/N WSS-PA-I 81
355263 Sounder/WB/200API/white BSO-PP-I 81
355262 Sounder/WB/200AP/white BSO-PP-N 82
355115 Sounder/FB/200RI/white 200/FBRI/SOUW 82
355265 Sounder-Strobe/WB/200API/wh/re/N BSS-PR-I 82
355264 Sounder-Strobe/WB/200AP/wh/re/N BSS-PR-N 83
355273 Sounder-Str/WB/200API/wh/cl/re/O DSS-PC-I 83
355272 Sounder-Str/WB/200AP/wh/cl/re/O DSS-PC-N 84
355266 Sounder-Strobe/WB/200API/wh/am/N BSS-PA-I 84
356156 Strobe/WM/200API/white/clear/red/O WST-PC-I 84
356155 Strobe/WM/200AP/white/clear/red/O WST-PC-N 85
356154 Strobe/WM/200API/white/amber/N WST-PA-I 85
356158 Strobe/WM/200API/wh/cl/wh/WC VAD-PC-I 85
356157 Strobe/WM/200AP/wh/cl/wh/WC VAD-PC-N 86

9 Accessories for Series 300/ECO1000/200AP/500

246008 Detector Base/400/300/100 B401RM1000 88
246019 Detector Base 400/300/100 B401DGR1000 88
246140 Detector Base/1000 ECO1000BR1000 88
246141 Detector Base/1000/Relay/Latching ECO1000BREL24L 89
246142 Detector Base/1000/Relay/Latching ECO1000BREL12L 89
246143 Detector Base/1000/Relay ECO1000BREL12NL 89
246039 Detector Base/500/200AP B501AP 89
246013 Isolator Detector Base/500/200 B524IEFT-1 90
246164 Detector Base/500/200/Heater B524HTR-W 90
246113 Zonal Display Unit/300 S300ZDU 91
246117 Programming and Test Unit/300 S300PTU **NEW** 91
246150 Remote Test Unit/300/1000 ECO1000RTU 91
249212 Battery For ECO1000RTU 6V-V11GA 92
246161 Surface Mounting Kit/200AP/AP SMK400EAP 92
246167 Recessed Mounting Kit/200AP RMK400AP 92

249120 Conduit Adapter for Detector Base BA1AP 92
246160 Wet Base Shroud/200AP WB-1AP 93
249108 Surface Mounting Box M200E-SMB 93
249111 Surface Mounting Box For M200 M200E-SMB-KO 93
249109 Base for Mounting Plate/M200 M200E-PMB 93
249110 Base for Carrier Rail/M200 M200E-DIN 94
249117 Surface Mounting Box/Multi Modules M200-SMB-MM 94
249118 Surface Mounting Box SMB6-V0 94
249119 Mounting Chassis/Multi Modules CH-6 95
249004 Surface Mounting Box SMB500 95
249027 Detector Base/500/200/Heater MH500-1 95
249020 Address Module Conventional NG58-1 NOT FOR NEW SYSTEMS 95
244061 Duct Detector Housing/300 D2E 96
244060 Duct Detector Housing/200 DNRE 97
244062 Duct Detector Pipe/0.3m DST1 97
244063 Duct Detector Pipe/0.45m DST1.5 98
244064 Duct Detector Pipe/1m DST3 98
244065 Duct Detector Pipe/1.5m DST5 98
244066 Duct Detector Pipe/3m DST10 98
359045 Lid for Sounder/200/10pcs. IBS-LIDPW-10X 98
359060 Lid for Sounder 200/FBRI 200/FB/COVER/W 98
359061 Lid for Sounder 200/FBRI 200/FB/COVER/R 99
359051 Base Sounder/Strobe/IP44/red BRR 99
359052 Base Sounder/Strobe/IP65/red WRR 99
359053 Base Sounder/Strobe/IP44/white BPW 99
359054 Base Sounder/Strobe/IP65/white WPW 100

10 Conventional Detectors Series ORBIS

241060 Optical Smoke Detector/Orbis OP-12001 NEW 102
241061 Optical-Thermal Detector/Orbis OH-13001 NEW 102
242030 Thermal RoR Detector/Orbis/A1R HT-11001 NEW 103
242031 Thermal Max Detector/Orbis/A2S HT-11002 NEW 103
242032 Thermal RoR Detector/Orbis/BR HT-11003 NEW 104
242033 Thermal Max Detector/Orbis/BS HT-11004 NEW 104
242034 Thermal RoR Detector/Orbis/CR HT-11005 NEW 105
242035 Thermal Max Detector/Orbis/CS HT-11006 NEW 105

11 Analog Detectors and Manual Call Points Series XP95/DISCOVERY/SOTERIA

241023 Optical Smoke Detector/XP95 55000-620 108
242023 Thermal Detector/XP95 55000-420 108
241027 Optical Smoke Detector/Disc 58000-600 109
241022 Optical-Thermal Detector/Disc 58000-700 109
242028 Thermal Detector/Discovery 58000-400 110
243100 Carbon Monoxide Detector/Discovery 58000-300 111
243101 CO thermal Detector/Discovery 58000-305 111
241200 Optical Smoke Detector/Core/ISM SA5100-600LST NEW 112
241170 Optical Smoke Detector/Core/ISM FL5100-600 NEW 112
241171 Optical Smoke Detector/Core/ISM FL6100-600 NEW 113
241201 Optical-Thermal Detector/Core/ISM SA5100-700LST NEW 113
242190 Thermal Detector/Core/ISM SA5100-400LST NEW 114
240602 Manual Call Point/Red/XP95 HME/3000/32/H1/02 115
240138 Manual Call Point/red/XP95/FEUER HME/3000/32/52/02/IP65 NEW 115
240622 Manual Call Point/Blue/XP95/HAUSALARM HME/5015/32/02/02 115
240166 Manual Call Point/blue/XP95/HAUSALARM HME/5015/32/02/02/IP65 NEW 116
240632 Manual Call Point/yellow/XP95/Handauslösung HME/1021/32/17/02 NEW 116
240139 Manual Call Point/yellow/XP95/HANDAUSLÖSUNG HME/1021/32/17/02/IP65 NEW 117
240642 Manual Call Point/blue/XP95/STOPP HME/5015/32/18/02 NEW 117
240167 Manual Call Point/blue/XP95/STOPP HME/5015/32/18/02/IP65 NEW 118
240690 Manual Call Point/green/XP95/STEUERUNGEN HME/6002/32/29/02 NEW 118
240794 Manual Call Point/white/XP95/NOTFALL HME/1013/32/40/00 NEW 119
245092 Manual Call Point/Red/Core/ISM SA5900-908LST NEW 119
245091 Manual Call Point/Red/Disc/ISM/IP65 58200-951 NEW 120

12 Modules, Optical and Acoustic Devices Series XP95/DISCOVERY/SOTERIA

249330 Input Module 1xIN/Core SA4700-100APO ... 122
249334 Input Module 2xIN/Core SA6700-100APO ... 122
249331 Module 1xIN 1xREL/Core SA4700-102APO ... 123
249332 Module 2xIN 1xREL/Core SA4700-103APO ... 123
249333 Module 2xIN 2xREL/Core SA4700-104APO ... 124
249079 Monitor Module/XP95/Mini 55000-760 ... 124
249073 Control Module/XP95 55000-852 ... 125
249075 Conventional Zone Module/XP95 55000-845 ... 125
249029 Isolator Module/XP95/Discovery ISM1-3 ... 125
355133 Sounder/WB/XP95I/white/Alert 45681-277 ... 126
355131 Sounder/WB/XP95I/white/SlowWhoop 45681-290 ... 126
355132 Sounder/WB/XP95I/white/DIN 45681-300 ... 127
355156 Sounder/WB/DiscI/MT 45681-702 **NEW** ... 127
355139 Sounder/WM/XP95I/red/100 55000-001 ... 128
355140 Sounder/WM/XP95I/white/100 55000-002 ... 128
355124 Sounder/WM/XP95/red/Alert/100 55000-278 ... 129
355125 Sounder/WM/XP95/red/Slw/100 55000-276 ... 129
355130 Sounder/WB/XP95RI/white/Alert 45681-276 ... 129
355134 Sounder-Str/WB/XP95I/wh/cl/re/Alt/N 45681-330 ... 130
355135 Sounder-Str/WB/XP95I/wh/cl/re/Slw/N 45681-332 ... 131
355136 Sounder-Str/WB/XP95I/wh/cl/re/DIN/N 45681-334 ... 131
355152 Sounder-Str/WB/XP95I/wh/cl/wh/Alt/O 45681-705 **NEW** ... 132
355153 Sounder-Str/WB/XP95I/wh/cl/wh/SW/O 45681-706 **NEW** ... 132
355154 Sounder-Str/WB/XP95I/wh/cl/wh/DIN/O 45681-707 **NEW** ... 133
355151 Sounder-Str/WB/DiscI/wh/cl/wh/MT/O 45681-700 **NEW** ... 133
355141 Sounder-Str./WM65/XP95I/red/100/N 55000-005 **NEW** ... 134
355142 Sounder-Str./WM65/XP95I/white/100/N 55000-006 **NEW** ... 135
355143 Sounder-Str./WM65/DiscI/red/MT/100/N 58000-005 **NEW** ... 135
355144 Sounder-Str./WM65/DiscI/white/MT/100/N 58000-007 **NEW** ... 136
355137 Sounder-Str/WM/XP95I/re/re/100/N 55000-293 ... 136
355145 Sounder-Str./WM/XP95I/white/100/N 55000-294 **NEW** ... 136
355138 Sounder-Str/WM66/XP95I/re/re/100/N 55000-298 ... 137
355146 Sounder-Str./WM66/XP95I/white/100/N 55000-299 **NEW** ... 137
355155 Strobe/WB/XP95I/wh/cl/wh/O 45681-709 **NEW** ... 137
356020 Strobe/XP95/white/red/N 55000-877 ... 138
356022 Strobe/XP95/white/clear/red/N 55000-878 ... 138
356023 Strobe/XP95/white/amber/N 55000-879 ... 139
356025 Strobe/Core/re/cl/ws/W 55000-741 **NEW** ... 139
356026 Strobe/Core/re/cl/ws/C 55000-742 **NEW** ... 140
356028 Strobe/Core/wh/cl/ws/W 55000-744 **NEW** ... 140
356029 Strobe/Core/wh/cl/ws/C 55000-745 **NEW** ... 141

13 Accessories for Series ORBIS/XP95/DISCOVERY/SOTERIA

246042 Detector Base/Orbis MB-00001 **NEW** ... 144
246041 Detector Base/Orbis/Relay RB-10004 **NEW** ... 144
246060 Detector Base/XP95/Disc/Core SA5000-200 ... 144
246170 Detector Base/FLx100 FL5000-200 **NEW** ... 145
246025 Detector Base/XP95/Disc 45681-210 ... 145
246036 Isolator Detector Base/XP95/Disc 45681-284 ... 145
246044 Detector Base/XP95/Disc 45681-219 ... 146
246029 Conduit Box/Apo 45681-204 ... 146
246030 Backplate/Apo 45681-233 ... 147
246046 Recessed Mounting Kit/APO-Detector 45681-309 ... 147
246047 Recessed Mounting Kit/APO-Sounder 45681-310 ... 147
246050 Duct Detector Housing/XP95 53546-022 ... 147
246051 Duct Detector Pipe/0.75m 53541-170 ... 148
246052 Duct Detector Pipe/1.5m 53541-171 ... 148
246053 Duct Detector Pipe/3.0m 53541-172 ... 148
246033 Detector Heater/XP95/Disc MH95-1 ... 148
249028 Address Module Conventional/60/65 NG60-1 **DISCONTINUED** ... 149
249338 Address Card/XP95/Core/Discovery 38532-064 ... 149
249039 Address Cards/100pcs./XP95/Discovery 38531-771 ... 149
359020 Lid for Detector Base Sounder/white 45681-292 ... 150
359021 Lid for Detector Base Sounder/red 45681-293 ... 150

359022 Mounting Plate for Sounder/WB/XP95 45681-311 150
359023 Housing IP67 for Strobe/XP95 29600-318 150

14 Accessories for Detectors - general

249044 Detector Mounting Bracket MMW1-1 152
249081 Detector Mounting Bracket MMW2-1 152
249635 Trapeze Bracket TBH800-1 152
246604 False Floor Mounting Bracket DBK-VAR 152
249711 Detector Mounting Bracket/Ceiling MMK-90 152
249712 Detector Mounting Bracket/Floor/Ceiling MMK-200/350 153
249713 Detector Mounting Bracket/Floor/Ceiling MMK-400/550 153
249277 Auxiliary Plate False Ceiling ZP-ZD-1 153
249648 Protective Cage BWS-3/D1 153
249647 Protective Cage/small/conical BWS-2/D1 154
249014 PSU For Detector Heater MH-TR1 154

15 Manual Call Points, conventional

240302 Manual Call Point/Red/Conventional HME/3000/11/H1/02 156
240108 Manual Call Point/red/Conventional/FEUER HME/3000/12/52/02/IP65 **NEW** 156
240322 Manual Call Point/Blue/Conventional/HAUSALARM HME/5015/11/02/02 157
240160 Manual Call Point/blue/Grenzwert/HAUSALARM HME/5015/12/02/02/IP65 **NEW** 157
240332 Manual Call Point/yellow/Conv/HANDAUSL HME/1021/11/17/02 **NEW** 158
240109 Manual Call Point/yellow/Conv/HANDAUSL HME/1021/12/17/02/IP65 **NEW** 158
240342 Manual Call Point/blue/Conventional/STOPP HME/5015/11/18/02 **NEW** 159
240161 Manual Call Point/blue/Grenzwert/STOPP HME/5015/12/18/02/IP65 **NEW** 159
240679 Manual Call Point/green/Conv/STEUERUNGEN HME/6002/12/29/00/N **NEW** 160
240800 Manual Call Point/white/S2/NOTFALL HME/1013/92/40/00 **NEW** 160
245047 Key Switch K20SWS-11 161

16 Accessories for Manual Call Points

249633 Protective Cover V2A for MCP/Red WG/ROT-E-1 164
249634 Protective Cover V2A for MCP/Blue WG/BLAU-E-1 164
249636 Protective Cover V2A for MCP/Yellow WG/GELB-E-1 164
249694 Protective Cover V2A for MCP/Green WG/GRÜN-E-1 **NEW** 164
249691 Protective Cover V2A for MCP/Orange WG/ORANGE-E-1 165
249670 Protection Kit IP54 for MCP HME-ZS-IP54 165
249674 Factory Upgrade IP65 for MCP HME-ZS-IP65 165
249071 Protection Cover HFM/HM 3150 165
249721 Protection Cover HME/HFM E-COVER/OAL/WS **NEW** 166
249152 Protection Cover MCP MCP-COVER-1 166
249681 Key for Manual Call Point SU=10 SCHL-HM/10 166
249680 Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10 166
249675 Special Designation HME/Sheet-10pcs. HME-BESCH-BOG 166
245083 Plexi Glass Cover for FI700/MCP CI700-1 167
245024 Hinged Cover for MCP/WCP PS200 167
245019 Surface Mount Box/MCP5A SR 167
245012 Surface Mount Box/MCP5A SR3T 167
249219 Reset Key For Manual Call Point-Pack of 10 pieces M210 167
249213 Glass Pane for MCP Series/10pcs. G21140 167
245018 Flexi Element for MCP/WCP PS210 167
245918 Replacement Glass for EX HM E-G/DC21 168
245919 Replacement Glass for EX HM SU=10 Pieces E-G/DC31/10 168

17 Optical and Acoustic Devices, conventional

355280 Sounder/WM/DC/red/107 CWSO-RR-S1 170
355281 Sounder/WM65/DC/red/107 CWSO-RR-W1 170
355282 Sounder/WM/DC/white/107 CWSO-WW-S1 170
355283 Sounder/WM65/DC/white/107 CWSO-WW-W1 171
355114 Sounder/FB/DC/white DBS1224B4W-D 171
355660 Sounder/FB/DC/red SQ/SV/08/R/S/C **NEW** 171
355661 Sounder/FB/DC/white SQ/SV/08/GW/S/C **NEW** 172
355700 Sounder/Flush/DC/white AC/SV/GW/S/8 172
355701 Sounder/Flush/DC/red AC/SV/R/S 173

355286 Sounder-Str/WM/DC/re/cl/re/107/WC CWSS-RR-S5 ... 173
355287 Sounder-Str/WM65/DC/re/cl/re/107/WC CWSS-RR-W5 ... 174
355284 Sounder-Str/WM/DC/re/cl/re/107/O CWSS-RR-S3 ... 174
355285 Sounder-Str/WM65/DC/re/cl/re/107/O CWSS-RR-W3 ... 175
355288 Sounder-Strobe/WM/DC/re/re/107/N CWSS-RB-S7 ... 175
355289 Sounder-Str/WM65/DC/re/re/107/N CWSS-RB-W7 ... 176
355290 Sounder-Strobe/WM/DC/re/am/107/N CWSS-RA-S7 ... 176
355291 Sounder-Str/WM65/DC/re/am/107/N CWSS-RA-W7 ... 177
355294 Sounder-Str/WM/DC/wh/cl/re/107/WC CWSS-WR-S5 ... 177
355295 Sounder-Str/WM65/DC/wh/cl/re/107/WC CWSS-WR-W5 ... 177
355292 Sounder-Str/WM/DC/wh/cl/re/107/O CWSS-WR-S3 ... 177
355293 Sounder-Str/WM65/DC/wh/cl/re/107/O CWSS-WR-W3 ... 178
355296 Sounder-Strobe/WM/DC/wh/re/107/N CWSS-WB-S7 ... 178
355297 Sounder-Str/WM65/DC/wh/re/107/N CWSS-WB-W7 ... 178
355298 Sounder-Strobe/WM/DC/wh/am/107/N CWSS-WA-S7 ... 178
355299 Sounder-Str/WM65/DC/wh/am/107/N CWSS-WA-W7 ... 179
355301 Sounder-Str/WM/DC/wh/cl/wh/107/WC CWSS-WW-S5 ... 179
356080 Strobe/WM/DC/red/clear/red/WC CWST-RR-S5 ... 180
356081 Strobe/WM65/DC/red/clear/red/WC CWST-RR-W5 ... 181
356082 Strobe/WM/DC/white/clear/red/WC CWST-WR-S5 ... 181
356083 Strobe/WM65/DC/white/clear/red/WC CWST-WR-W5 ... 181
356086 Strobe/WM/DC/red/clear/white/WC CWST-RW-S5 ... 182
356087 Strobe/WM65/DC/red/clear/white/WC CWST-RW-W5 ... 182
356084 Strobe/WM/DC/white/clear/white/WC CWST-WW-S5 ... 183
356085 Strobe/WM65/DC/white/cl/white/WC CWST-WW-W5 ... 183
356682 Strobe/WM/DC/white/amber/N SOLEX10A ... 183
359005 Lid for Detector Base Sounder/red DBSLIDR ... 184
359006 Lid for Detector Base Sounder/white DBSLIDW ... 184
355675 Base for Sounder/Strobe/IP65/white SW-IP65-SQ/RO ... 184

18 Devices for Hazardous Areas

241090 Optical Smoke Detector/Conventional IS SLR-E-IS ... 186
246090 Detector Base/Conv/Ex YBN-R/4IS ... 186
241062 Optical Smoke Detector/Orbis/IS OP-52027 ... 186
241063 Optical-Thermal Detector/Orbis/IS OH-53027 ... 187
242037 Thermal RoR Detector/Orbis/A1R/IS HT-51145 ... 188
242038 Thermal Max Detector/Orbis/A1S/IS HT-51157 ... 188
242061 Thermal Max Detector/Orbis/A2S/IS HT-51147 ... 189
242062 Thermal RoR Detector/Orbis/BR/IS HT-51149 ... 189
242063 Thermal Max Detector/Orbis/BS/IS HT-51151 ... 189
242064 Thermal RoR Detector/Orbis/CR/IS HT-51153 ... 190
242065 Thermal Max Detector/Orbis/CS/IS HT-51155 ... 190
246043 Detector Base/Orbis/IS MB-50018 ... 190
242150 Thermal Detector/IP67/Conv/MAX/A2S 6295 ... 190
242151 Thermal Detector/IP67/Conv/MAX/BS 6296 ... 191
228003 Safety Barrier ES58-2 ... 192
228008 Zener Barrier Z978 ... 192
241102 Optical Smoke Detector/200/IS 22051EISE ... 192
241101 Optical Smoke Detector/200/IS/Ivory 22051EISE-IV ... 193
228006 Safety Barrier/200 Y2 ... 193
228007 Protocol Interface/200 IST200 ... 194
241024 Optical Smoke Detector/XP95/Ex 55000-640 ... 194
242036 Thermal Detector/XP95/Ex 55000-440 ... 195
246027 Detector Base/XP95/Ex 45681-215 ... 195
228004 Safety Barrier/XP95 29600-098 ... 196
228005 Protocol Interface/XP95 55000-855 ... 196
228009 Enclosure for Safety Barrier 29600-239 ... 196
245683 Manual Call Point/Red/Conventional/IS DC31/55.130 ... 197
355662 Sounder/WM66/DCEx/red/105 IS-A105N ... 197
355663 Sounder/WM66/DCEx/red/105 IS-A105N/HÖCHST **NEW** ... 198
355696 Sounder/WM67/DCEx/red/105 DS5-3G/3D-24VDC **NEW** ... 198
355697 Sounder/WM67/DCEx/red/110 DS10-3G/3D-24VDC **NEW** ... 199
356698 Strobe/WM66/DCEx/grey/clear/white F12-3G/3D-24VDC-W **NEW** ... 199
356699 Strobe/WM66/DCEx/grey/red F12-3G/3D-24VDC-R **NEW** ... 199

19 RF Devices Serie FI720/FI700/RF

249308 RF Interface/720 FI720/RF/W2W 202
249309 RF Expander/720 FI720/RF/WE 202
249311 RF Expander Conventional/720 FI720/RF/CWE 203
241192 Detector/720/RF/complete FI720/RF/O 204
241193 Detector/720/RF/complete FI720/RF/OT 204
242087 Detector/720/RF/complete FI720/RF/T 205
249066 Surcharge for special colouring FC650/FI700/SPECIAL 206
245082 Manual Call Point/Red/700/RF/Flexi FI700/RF/MCP 206
245695 Manual Call Point/Red/700/RF HFM/3/73/00 207
245698 Manual Call Point/Blue/700/RF/Hausalarm HM/5/73/02/00 208
249267 Monitor Module 1xIN/700/RF FI700/RF/M1IN 209
249292 Control Module 1xRel/Batt/700/RF FI700/RF/M1REL/BATT 209
249310 Module/RF/720-Sounder-Strobe FI720/RF/M/SST 210
355208 Sounder/WM65/DC/red/100 CWS/SOUR 211
355210 Sounder/WM65/DC/white/100 CWS/SOUW 211
355209 Sounder-Str/WM65/DC/re/cl/wh/100/W CWS/SOUR/STRC 212
355211 Sounder-Str/WM65/DC/wh/cl/wh/100/W CWS/SOUW/STRC 213
355218 Sounder/WB/720RF/white FI720/RF/WB/SOUW 213
355219 Sounder-Str/WB/720RF/wh/cl/re/N FI720/RF/WB/SOUW/STRC 213
251021 Remote Indicator/700/RF FI700/RF/PA-2 214
249266 RF Measurement Kit FI720/RF/MK 215
359075 Lid for Sounder FI7x0/WB FI720/750/COVER/R 215
359074 Lid for Sounder FI7x0/WB FI720/750/COVER/W 215
249215 Lithium Battery 3V CR123 216
249218 Lithium Battery 3V CR2032 216

20 RF Devices Series 200AP-RF

249350 RF Interface/S200AP M200G-RF 218
249351 RF Repeater/S200AP M200F-RF 218
249352 Dongle/LITE/S200AP/RF M200WC-RF 219
249353 Dongle/PRO/S200AP/RF M200WC-RF-PRO **NEW** 219
241140 Optical Detector/200AP/RF 22051E-RF 220
241141 Multicriteria Detector PTIR/200AP/RF 22051TLE-RF 220
242140 Thermal Max Detector/200APA1S/RF 52051E-RF 221
242141 Thermal Diff Detector/200AP/A1R/RF 52051RE-RF 222
245140 Manual Call Point/Red/S200AP/RF R5A-RF 222
251030 Remote Indicator/200AP/RF M200I-RF 223
355274 Sounder/WM/200AP/RF/red WSO-RR-RF 223
355275 Sounder/WM/200AP/RF/white WSO-WW-RF 224
246116 Detector Base/RF/200AP B501RF-RR 224
246115 Detector Base/RF/200AP B501RF 225

21 Special Detectors

242150 Thermal Detector/IP67/Conv/MAX/A2S 6295 228
242151 Thermal Detector/IP67/Conv/MAX/BS 6296 228
242152 Thermal Detector/IP67/Conv/MAX/CS 6297 229
242153 Thermal Detector/IP67/Conv/MAX/ES 6298 229
242170 Thermal Detector/IP67/Conv/MAX/135C HT-27121-275 **NEW** 230
242180 Thermal Detector/IP67/Max/RoR WMX5000-FS 230
242181 Relay Module for Thermal Detector KMX5000-RK 231
246180 Detector Base/5000 MX5000 231
243010 Flame Detector/IR2 16581 231
243011 Flame Detector/IR3 16589 232
243012 Flame Detector/UVIR2 16591 232
249141 Mounting Bracket/Flame Detector 07127 233
243020 Flame Detector UV/Conventional 800/24-VST-K-N 233
249151 Mounting Bracket/Flame Detector MW-800/24 234
241150 Optical Battery Smoke Detector/9V FH20/O/9 234
241151 Optical Battery Smoke Detector/9/230V FH20/O/9/230 234
246169 Surface Mounting Box FH20/AP-1 235

22 Beam Smoke Detectors

244022 Beam Smoke Detector/Conventional 6500R 238

244023 Beam Smoke Detector+Test/Conventional 6500RS ... 238
244020 Beam Smoke Detector/200 6500 ... 239
244021 Beam Smoke Detector+Test/200 6500S ... 239
244024 Reflector For 6500/75-100m 6500-LRK ... 240
244025 Mounting Bracket/Swivel 6500-MMK ... 240
244026 Surface Mounting Box 6500-SMK ... 240
244027 Heater Kit for Beam unit BEAMHK ... 240
244028 Heater Kit for Reflector BEAMHKR ... 241
244070 Beam Smoke Detector/Conventional FR3000 ... 241
244071 Detector for Beam Smoke Detector/Conv FR3000-DETECTOR ... 242
244072 Mounting Bracket/Swivel FR3000-201 ... 242
244073 Flush Mounting Plate FR3000-202 ... 242
244074 Heater Kit for Beam unit 3000-204 ... 243
244660 Beam Smoke Detector/Conventional FR5000-50M ... 243
244661 Beam Smoke Detector/Conventional FR5000-100M ... 244
244075 Beam Smoke Detector/Core/ISM/50m SA7100-100 **NEW** ... 244
244662 Detector for Beam Smoke Detector/Conv FR5000-DET-50M ... 244
244663 Detector for Beam Smoke Detector/Conv FR5000-DET-100M ... 244
244703 Set of 3 Reflectors FR5000-004 ... 245
244667 Universal Bracket/Swivel FR5000-005 ... 245
244668 Mounting Plate for 100m Reflector FR5000-007 ... 245
244669 Mounting Plate for 50M Reflector FR5000-008 ... 245
244689 Mounting Bracket/Swivel FR5000-201 ... 245
244705 Heater Kit for Beam unit 5000-204 ... 246
244706 Heater Kit for Reflector 5000-205 ... 246
244664 Protection Grille for FR5000 Controller 1000-019 ... 246
244665 Protection Grille for FR5000 Detector 1000-018 ... 246

23 Linear Heat Detectors

244690 Linear Heat Detector Single Tube ADW535-1 **NEW** ... 248
244691 Linear Heat Detector Double Tube ADW535-2 **NEW** ... 248
244692 External Temperature Sensor for ADW535 ART535-10 **NEW** ... 249
244693 Relay Interface Module RIM36 **NEW** ... 249
244139 Sensor tube /Cu SU=5,5m TU-5/4-CU **NEW** ... 249
244144 Pipe Clamp Sensor Tube PC-5/6-PP **NEW** ... 249
244177 Pipe Clamp Sensor Tube PC-5/6-STG **NEW** ... 250
244178 Flexible Hose PA d=5/3 FH-5/3-PA **NEW** ... 250
244145 Sensing Coil CU SC-5/4-CU-5 **NEW** ... 250
244146 Screw Junction SJ-5/4-CuZn **NEW** ... 250
244147 T-Junction TJ-5/4-CuZn **NEW** ... 250
244148 End Plug EP-5/4-CuZn **NEW** ... 250
244149 Stiffener Sleeve SS-3-CuZn ... 251
244179 Sensor Tube Teflon de=6/4 Ring 50m TU-6/4-PTFE **NEW** ... 251
244194 Connector-Set Teflon Tube d=6/4 AD-ADW-TU6/4-PTFE **NEW** ... 251
244195 Screw Connection Teflon Tube d=6/4 SJ-6/4-PVDF **NEW** ... 251
244196 T-Junction Teflon Tube d=6/4 TJ-6/4-PVDF **NEW** ... 251
244197 End Spigot Teflon Tube d=6/4 EP-6/4-PVDF **NEW** ... 252
244694 Control Unit Alarmline II with LED LWM-2-PC ... 252
244704 Control Unit Alarmline II with LED and LCD LWM-2-LCD ... 253
244695 Sensor Cable/PVC/Red Alarmline II SK11800050 ... 253
244696 Sensor Cable/Nylon Alarmline II SK11800051 ... 253
244697 Sensor Cable/Polypropylene Alarmline II SK11800052 ... 254
244698 Sensor Cable/Nylon/Stainless Steel Alarmline II SK11800054 ... 254
244630 Mounting Clip 3040/LGK ... 254

24 Smoke Aspiration Systems Series FAAST

244403 Smoke Aspiration System FL0111E-HS ... 256
244405 Smoke Aspiration System FL0122E-HS ... 257
244371 Smoke Aspiration System FL2012EI ... 257
244372 Smoke Aspiration System FL2022EI ... 257
241124 Optical Laser Smoke Detector/Extra F-SEN-SSE **NEW** ... 257
244376 Replacement Filter intern. for FAAST LT FL-IF ... 258
244380 Smoke Aspiration System 8100E ... 258
244381 Replacement Filter internal for FAAST F-A3384-000 ... 259
244284 Air Filter for Smoke Aspir. System F-INF-25 **NEW** ... 259

244285 Replacement Filter F-INF-25-RF NEW 259
244388 Front Foils FAAST It-Fr-De-Da F-A-LC-A 260
244389 Front Foils FAAST It-Fr-Es-Pt F-A-LC-B 260
244390 Front Foils FAAST It-Ru-De-Hu F-A-LC-C 260
244391 Front Foils FAAST Fi-Sv-No-Ru F-A-LC-D 260
244385 Ceiling Lead-Through Set complete F-CF-25 260
244386 Condensate Separator Pipe complete F-WT-25 260

25 Accessories and Installation Material for Smoke Aspiration Systems

222053 Automatic Purging Unit/3500L/IP54 AFE70-2/IP54 262
222054 Automatic Purging Unit/5000L/DF/IP54 AFE70-3/IP54 262
244133 Sensing Pipe/PVC 1M-ROHR-PVC/5M 263
244248 Sensing Hose/PVC/25mm SCHL-PVC/25 263
244112 Pipe-Fitting-Bend/90 BOGEN-90 263
244113 Pipe-Fitting-Knee/90 WINKEL-90 263
244114 Pipe-Fitting-Knee/45 WINKEL-45 263
244115 Pipe-Fitting-T-Junction Joint/90 T-STÜCK-90 263
244116 Pipe-Fitting-T-Junction Joint/45 T-STÜCK-45 264
244118 Pipe-Fitting-Faucet MUFFE 264
244119 Pipe-Fitting-End KAPPE 264
244125 Pipe Clamp RKL25-2 264
244132 Pipe Clamp RKL25-1 264
244235 Non-Return Spring Valve RVFED-25 264
244240 Ceiling Lead-Through Set DDF-KOMPL 264
244201 Sensing Hose DN12X9 DN-12X9 264
244254 3 Way Ball Valve PVC 3PKH-DN20 265
244237 3 Way Ball Valve Metal 3MKH 265
244242 Screw Joint PVC-Brass ÜVS-25X3/4 265
244250 Screw Joint PVC-PVC ÜVS-PVC-PVC 265
244255 Dual Screw Joint 25mm DV-25-25 265
244256 Connect. Exhaust Equipment Aspir. Pipe ABSAUG-RED-25-40 266
244999T Aspiration Hole Reduction Foils, Overviews 266
244233 Sleeve for Reduction Foil BA-AREDF 266
244234 Plastic Clip for Reduction Foil/Low-temp KC-AREDF-TK 266
244387 Label Sampling Point 100 pcs. F-LP 266
244128 Adhesive/Tangit/0.12kg KLEB-RAS-01 267
244129 Adhesive/Tangit/0.25kg KLEB-RAS-02 267
244130 Adhesive/Tangit/0.5kg KLEB/RAS-05 267
244126 Adhesive/Tangit/1kg KLEB/RAS 267
244131 Cleaner/Tangit/0,12L REIN-RAS-01 267
244127 Cleaner/Tangit/1L REIN/RAS 267

26 Labels

249245 Detector Label//Sheet/22pcs. BME/ZWD-BOG/LST 270
249246 Detector Label Sheet/12pcs. BME/MB-BOG/LST 270
249247 Detector Label Sheet + Carrier/12pcs. BME/MB-KOMPL/LST 270

Part 1

1 Fire Detection Contol Panels Series BC600

211999T Series BC600, Description

The term "Series BC600" summarises fire detection control panels in various versions and expansion levels for fire detection systems of all sizes.

The Fire Detection Control Panels Series BC600 with their modular structure and the freely parameterisable functional units can be adapted to different requirements very easily, and therefore can be used in a wide range of applications. The control panels set new standards in operating comfort, functional variety, as well as security in the fire alarm technology, which benefit both the user and the installer of a fire detection system.

Depending on the level of expansion of the control panel, fire, fault and condition detectors as well as actuation elements and alarming devices can be connected to a maximum of 20 loops (ring-bus technology) or 432 detector lines in addressable conventional technology, or to a combination thereof. Thanks to the varied possibilities of defining combinations for actuations, alarming devices and transmitting devices, the control panel can be used to fulfil even extensive and complex alarming and actuation tasks within the scope of the fire alarm technology.

The control panels are available in two different wall-mount cabinet versions and in a 19" front-mount housing. In the basic version the control panel includes a power unit, a backplane with a central processing board as well as - depending on the control panel version - a display and operating field and a module carrier for auxiliary modules. Furthermore, a control panel can be constructed in a switch cabinet, using individual components.

For small fire detection systems, the compact control panels BC600-1L and BC600-1D, for which the features described here only apply to a certain extent, are available.

The optional display and operating field comprises a spacious 1/4 VGA display which indicates all events of the fire detection system in clear form, numerous status LEDs, as well as a keypad with 5 event-specific soft keys. The thoughtful menu structure allows quick and intuitive operation of the control panel.

In addition to the central processing board, up to 8 function modules (e.g., conventional detector interface, loop interface, fire brigade interface) can be connected to the backplane. The backplane powers the connected boards and establishes the data connection via the system bus. The componentries and additional devices in the door of the housing are connected via the UI bus of the control panel. If necessary, individual function modules as well as the central processing board can be provided with redundancy, and in this way a failure of the unit can almost be ruled out.

In the large wall-mount cabinet version, a second backplane can be installed which provides 8 additional mounting positions for function modules. As a result, the control panel can be equipped with a maximum of 16 function modules in one housing. Altogether a Fire Detection Control Panel Series BC600 can address up to 54 function modules.

By networking up to 127 sectional control panels Series BC600 via the high-security network net600, a Fire Detection Control Panel BCnet600 can be built which is decentrally distributed within the building. For details, see the description of the BCnet600.

By means of a PC and the Windows Parameter Setup Software PARSOFT, the configuration parameters of the control panel are quickly and reliably created and transmitted to the control panel. With the AUTO-setup function, the control panel detects all connected control panel components and loop elements. Using the AUTO-addressing, loop elements can be automatically addressed and their position on the loop can be determined by means of AUTO-mapping.

The control panel was tested, according to the Construction Products Regulation CPR, for compliance with the European Standards EN 54-2, EN 54-4 and EN 12094-1, and is VdS certified.

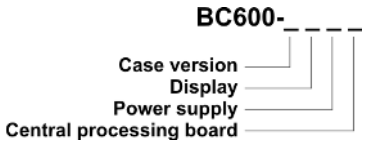
Most important features (depending on the level of expansion)

- Powerful microprocessor technology with diverse redundant processing logic
- "Hot plug & play/unplug" allows exchange of all control panel components during operation
- Easy cabling of the control panel by means of pluggable screw terminals on central processing board, function modules or power unit
- Up to 4000 detector zones for manual call points, automatic fire detectors with or without alarm verification, technical messages, fault detectors with or without self-resetting as well as for confirmations from external devices
- Up to 2000 output functions - actuations, alarming devices or transmitting devices
- Control panel inputs or loop elements can be united in zones or in actuations or alarming devices
- Info button for additional information on the current events or help function for the current menu
- Event memory with quick-search filter indicates the latest 10.000 events in chronological order
- Multilingual user interface, switchable through menu during operation
- Common LEDs and condition displays on the operating field, furthermore functional groups for actuations, transmitting and alarming device with status LEDs and direct operation by means of buttons
- Freely parameterisable buttons and LEDs

- 2 independently monitored outputs with an output current of 1A for connection of alarming devices
- 2 dry relay outputs for common alarm and common fault
- 1 freely parameterisable relay output
- 3 auxiliary inputs and 8 open-collector outputs, each freely parameterisable
- Combinations of detectors, detector zones or of control panel events in "AND/OR" logic for the activation of actuations, transmitting devices or alarming devices, combinations for preventing or resetting an activation or for disabling a system part
- Parameterisable "markers" for defining frequently used combinations only once or for cascading combinations
- Joint operation of defined system parts by means of up to 256 freely parameterisable sectors and evacuation circuits
- Hierarchised authorisation levels for operation and parameterisation, secured via numeric codes, definable user groups with individual rights management and user language
- Operation can be limited through freely definable sub-sections
- Programmable timers for enabling the alarm delay of the transmitting device, for activating actuations or for controlling sectors, separately definable for every day of the week
- Start and end date of Daylight Saving time automatic or freely parameterisable
- USB interface for connection of the parameter setup PC or a USB stick for transferring the configuration, the event memory contents or the clear texts
- Built-in IP interface for the integration of the control panel into an electronic data processing network; this allows remote access to the control panel - via an encrypted connection - by means of the REmote ACcess Tool REACT for the indication of events and for the operation.
- Integrated INFO bus or INFO bus EP with fast transmission, for connection of a fire brigade control unit and of intelligent remote tableaus
- Connection of a protocol printer, an operation control system, an ESPA4.4.4 gateway or an SMS gateway via Serial Interface SIF601-x
- The robust sheet steel housing has a high dimensional stability and excellent electromagnetic compatibility characteristics. The housing has a high-quality, UV-resistant powder paint coat.
- Depending on the housing version, up to 4 mounting spaces for optional expansions such as a LED button field, a front panel printer or a country-specific fire brigade control unit

Additional features and functions are listed in the description of the function modules (e.g., the Loop Interface LIF601-1) and of further auxiliary modules.

The key below provides you with an overview of the possible control panel versions Series BC600 as well as their most important features:



Case version

BC600-**8**xxx	Fire detection control panel in the standard wall-mount cabinet, prepared for installation of up to 8 function modules. In the door of the housing there are 3 mounting spaces for expansions.
BC600-**16**xxx	Fire detection control panel in the large wall-mount cabinet, prepared for installation of up to 8 function modules, extendable to up to 16 function modules. In the door of the housing there are 4 mounting spaces for expansions.
BC600-**CE8**xxx	Fire detection control panel in a 19" front-mount housing, prepared for installation of up to 8 function modules. In the front panel there are 2 mounting spaces for expansions.

Display:

BC600-x**L**xx	The housing of the fire detection control panel is equipped with a Display and Operating Board ABB600-1, which consists of a 1/4 VGA graphics display, the LED displays as well as the membrane keypad.
BC600-x**N**xx	The housing is not equipped with a display and operating board. However, the mounting spaces for expansions can be used.

Power supply:

BC600-xx**2**x	The fire detection control panel is equipped with a Power Supply NT602-1. As an option, additional power units can be accommodated in extension housings.
BC600-xx**4**x	The fire detection control panel is equipped with a Power Supply NT604-1. As an option, additional power units can be accommodated in extension housings.
BC600-xx**8**x	The fire detection control panel is equipped with a Power Supply NT608-1. As an option, additional power units can be accommodated in extension housings.

Central processing board:

BC600-xxx**S** The fire detection control panel is equipped with a Central Processing Board ZTB600-1 (standard version without redundancy processor).

BC600-xxx**R** The fire detection control panel is equipped with a central processing board with redundancy processor ZTBR600-1.

BC600-xxx**N** The fire detection control panel is delivered without central processing board. The desired version of the central processing board - with or without redundant processor - must be ordered separately.

Art.No.	Type	Display and operating field	Power supply	Central processing board
211200	BC600-8L2S	with	2.3A	ZTB600-1
211201	BC600-8L4S	with	4.3A	ZTB600-1
211213	BC600-8L2N	with	2.3A	without
211214	BC600-8L4N	with	4.3A	without
211215	BC600-8L8N	with	8.5A	without
211216	BC600-8N2N	without	2.3A	without
211217	BC600-8N4N	without	4.3A	without
211218	BC600-8N8N	without	8.5A	without
211240	BC600-16L2S	with	2.3A	ZTB600-1
211241	BC600-16L4S	with	4.3A	ZTB600-1
211247	BC600-16L8S	with	8.5A	ZTB600-1
211255	BC600-16L2N	with	2.3A	without
211256	BC600-16L4N	with	4.3A	without
211257	BC600-16L8N	with	8.5A	without
211258	BC600-16N2N	without	2.3A	without
211259	BC600-16N4N	without	4.3A	without
211260	BC600-16N8N	without	8.5A	without
211280	BC600-CE8L2S	with	2.3A	ZTB600-1
211281	BC600-CE8L4S	with	4.3A	ZTB600-1
211284	BC600-CE8L2N	with	2.3A	without
211285	BC600-CE8L4N	with	4.3A	without

211200 Fire Detection Control Panel BC600-8L2S

The modularly constructed Fire Detection Control Panel BC600-8L2S comprises a wall-mount cabinet with a display and operating field, a Power Supply NT602-1 with an output current of 2.3A, a Backplane BPL610-1 with a Central Processing Board ZTB600-1 and 8 free mounting positions as well as a Module Carrier BGT600-1. In addition, the unit offers the following specific features:

- The control panel housing can be equipped with up to 8 function modules (e.g., Conventional Detector Interface GIF608-1, Loop Interface LIF601-1, Fire Brigade Interface FWI600-1).
- The integrated display and operating field consists of a 1/4 VGA graphics display, the LED displays as well as a membrane keypad.
- The door of the housing is provided with 3 mounting spaces for optional expansions such as a LED button field, a front panel printer or a fire brigade control unit.
- At the bottom of the cabinet, there is space for stand-by batteries with 2 × 12V/max. 22Ah.

Further features and functions are listed in the description of the Fire Detection Control Panel Series BC600.

Specifications

Mains voltage	230VAC +10/-20%, 47...63Hz
Output voltage	typ. 27.6VDC
Output current of power unit	max. 2.3A
Output current of siren outputs	max. 1A per output
Ambient temperature	-20°C to +60°C
Protection class	IP30
Dimensions W × H × D	444 × 530 × 121 (mm)
Colour of housing	grey white, RAL 9002
Weight without battery	approx. 8kg
Approvals	VdS G212164 0786-CPR-21611

Cross-references	Page	Art.No.	Name Type
	18	211112	Conventional Detector Interface GIF608-1
	20	211113	Fire Brigade Interface FWI600-1
	19	211110	Loop Interface LIF601-1
	27	211122	Network Interface NIF600-1
	86	222004	Relay Module RL58-1
	86	222010	Relay Module RL58-2
	22	211143	Relay Module RL608-1
	25	211119	Serial Interface SIF601-1
	2	211999T	Series BC600, Description
	85	223026	Siren Connection Module SZ58-3
	32	211370	Surface Mounting Frame AMR600-8

211201 Fire Detection Control Panel BC600-8L4S

The structure of the modularly constructed Fire Detection Control Panel BC600-8L4S is basically the same as that of the Fire Detection Control Panel BC600-8L2S, but it contains a Power Supply NT604-1 with an output current of 4.3A.

Specifications (for further specifications, see BC600-8L2S)

Output current of power unit	max. 4.3A
Weight without battery	approx. 8.4kg

211213 Fire Detection Control Panel BC600-8L2N

The structure of the modularly constructed Fire Detection Control Panel BC600-8L2N is basically the same as that of the Fire Detection Control Panel BC600-8L2S, but it does not contain a central processing board. Therefore, the control panel can be equipped with a standard central processing board ZTB600-1 or a redundant central processing board ZTBR600-1, depending on the requirement.

Specifications (for further specifications, see BC600-8L2S)

Weight without battery	approx. 7.8kg

Cross-references	Page	Art.No.	Name Type
	18	211101	Central Processing Board Redundant ZTBR600-1
	17	211100	Central Processing Board ZTB600-1

211214 Fire Detection Control Panel BC600-8L4N

The structure of the modularly constructed Fire Detection Control Panel BC600-8L4N is basically the same as that of the Fire Detection Control Panel BC600-8L2S, however it contains a Power Supply NT604-1 with an output current of 4.3A, but no central processing board. Therefore, the control panel can be equipped with a standard central processing board ZTB600-1 or a redundant central processing board ZTBR600-1, depending on the requirement.

Specifications (for further specifications, see BC600-8L2S)

Output current of power unit	max. 4.3A
Weight without battery	approx. 8.2kg

Cross-references	Page	Art.No.	Name Type
	18	211101	Central Processing Board Redundant ZTBR600-1
	17	211100	Central Processing Board ZTB600-1

211215 Fire Detection Control Panel BC600-8L8N

The structure of the modularly constructed Fire Detection Control Panel BC600-8L8N is basically the same as that of the Fire Detection Control Panel BC600-8L2S, however it contains a Power Supply NT608-1 with an output current of 8.5A, but no central processing board. Therefore, the control panel can be equipped with a standard central processing board ZTB600-1 or a redundant central processing board ZTBR600-1, depending on the requirement.

Specifications (for further specifications, see BC600-8L2S)

Output current of power unit	max. 8.5A
Weight without battery	approx. 8.6kg

Cross-references	Page	Art.No.	Name Type
	18	211101	Central Processing Board Redundant ZTBR600-1
	17	211100	Central Processing Board ZTB600-1

211240 Fire Detection Control Panel BC600-16L2S

The modularly constructed Fire Detection Control Panel BC600-16L2S comprises a wall-mount cabinet with a display and operating field, a Power Supply NT602-1 with an output current of 2.3A, a Backplane BPL610-1 with a Central Processing Board ZTB600-1 and 8 free mounting positions as well as a Module Carrier BGT600-1. In addition, the unit offers the following specific features:

- If an optional Backplane BPL608-1 is installed, 8 additional mounting positions for function modules are available. As a result, the control panel housing can be equipped with a maximum of 16 function modules (e.g., Conventional Detector Interface GIF608-1, Loop Interface LIF601-1, Fire Brigade Interface FWI600-1).
- The integrated display and operating field consists of a 1/4 VGA graphics display, the LED displays as well as a membrane keypad.
- The door of the housing is provided with 4 mounting spaces for optional expansions such as a LED button field, a front panel printer or a fire brigade control unit.
- At the bottom of the cabinet, there is space for stand-by batteries with 2 × 12V/max. 45Ah.

Further features and functions are listed in the description of the Fire Detection Control Panel Series BC600.

Specifications

Mains voltage	230VAC +10/-20%, 47...63Hz
Output voltage	typ. 27.6VDC
Output current of power unit	max. 2.3A
Output current of siren outputs	max. 1A per output
Ambient temperature	-20°C to +60°C
Protection class	IP30
Dimensions W × H × D	480 × 670 × 201 (mm)
Colour of housing	grey white, RAL 9002
Weight without battery	approx. 11.3kg
Approvals	VdS G212164 0786-CPR-21611

Cross-references	Page	Art.No.	Name Type
	29	211151	Backplane BPL608-1
	18	211112	Conventional Detector Interface GIF608-1
	20	211113	Fire Brigade Interface FWI600-1
	19	211110	Loop Interface LIF601-1
	27	211122	Network Interface NIF600-1
	86	222004	Relay Module RL58-1
	86	222010	Relay Module RL58-2
	22	211143	Relay Module RL608-1
	25	211119	Serial Interface SIF601-1
	2	211999T	Series BC600, Description
	85	223026	Siren Connection Module SZ58-3
	32	211371	Surface Mounting Frame AMR600-16

211241 Fire Detection Control Panel BC600-16L4S

The structure of the modularly constructed Fire Detection Control Panel BC600-16L4S is basically the same as that of the Fire Detection Control Panel BC600-16L2S, but it contains a Power Supply NT604-1 with an output current of 4.3A.

Specifications (for further specifications, see BC600-16L2S)

Output current of power unit	max. 4.3A
Weight without battery	approx. 11.7kg

211247 Fire Detection Control Panel BC600-16L8S

The structure of the modularly constructed Fire Detection Control Panel BC600-16L8S is basically the same as that of the Fire Detection Control Panel BC600-16L2S, but it contains a Power Supply NT608-1 with an output current of 8.5A.

Specifications (for further specifications, see BC600-16L2S)

Output current of power unit	max. 8.5A
Weight without battery	approx. 12.1kg

211255 Fire Detection Control Panel BC600-16L2N

The structure of the modularly constructed Fire Detection Control BC600-16L2N is basically the same as that of the Fire Detection Control Panel BC600-16L2S, but it does not contain a central processing board. Therefore, the control panel can be equipped with a standard central processing board ZTB600-1 or a redundant central processing board ZTBR600-1, depending on the requirement.

Specifications (for further specifications, see BC600-16L2S)

Weight without battery	approx. 11.1kg

Cross-references	Page	Art.No.	Name Type
	18	211101	Central Processing Board Redundant ZTBR600-1
	17	211100	Central Processing Board ZTB600-1

211256 Fire Detection Control Panel BC600-16L4N

The structure of the modularly constructed Fire Detection Control Panel BC600-16L4N is basically the same as that of the Fire Detection Control Panel BC600-16L2S, however it contains a Power Supply NT604-1 with an output current of 4.3A, but no central processing board. Therefore, the control panel can be equipped with a standard central processing board ZTB600-1 or a redundant central processing board ZTBR600-1, depending on the requirement.

Specifications (for further specifications, see BC600-16L2S)

Output current of power unit	max. 4.3A
Weight without battery	approx. 11.5kg

Cross-references	Page	Art.No.	Name Type
	18	211101	Central Processing Board Redundant ZTBR600-1
	17	211100	Central Processing Board ZTB600-1

211257 Fire Detection Control Panel BC600-16L8N

The structure of the modularly constructed Fire Detection Control Panel BC600-16L8N is basically the same as that of the Fire Detection Control Panel BC600-16L2S, however it contains a Power Supply NT608-1 with an output current of 8.5A, but no central processing board. Therefore, the control panel can be equipped with a standard central processing board ZTB600-1 or a redundant central processing board ZTBR600-1, depending on the requirement.

Specifications (for further specifications, see BC600-16L2S)

Output current of power unit	max. 8.5A
Weight without battery	approx. 11.9kg

Cross-references	Page	Art.No.	Name Type
	18	211101	Central Processing Board Redundant ZTBR600-1
	17	211100	Central Processing Board ZTB600-1

211280 Fire Detection Control Panel BC600-CE8L2S

The modularly constructed Fire Detection Control Panel BC600-CE8L2S in the compact front-mount housing is intended for installation in 19" housings or 19" cabinets. The control panel consists of a sheet steel housing with 19" front panel and contains - in the basic version - a Power Supply NT602-1 with an output current of 2.3A, as well as a Backplane BPL610-1 with a Central Processing Board ZTB600-1 and 8 free mounting positions. In addition, the unit offers the following specific features:

- The control panel can be equipped with up to 8 function modules (e.g., Conventional Detector Interface GIF608-1, Loop Interface LIF601-1, Fire Brigade Interface FWI600-1).
- The display and operating field that is integrated into the front panel consists of a 1/4 VGA graphics display, the LED displays as well as a membrane keypad.
- The front panel has 2 mounting spaces for optional expansions such as a LED button field, a front panel printer or a fire brigade control unit.

Further features and functions are listed in the description of the Fire Detection Control Panel Series BC600.

Specifications

Mains voltage	230VAC +10/-20%, 47...63Hz
Output voltage	typ. 27.6VDC
Output current of power unit	max. 2.3A
Output current of siren outputs	max. 1A per output
Ambient temperature	-20°C to +60°C
Dimensions W × H × D	478 × 355 (8 rack units) × 115 (mm)
Colour of front panel	grey white, RAL 9002
Weight	approx. 7.1kg
Approvals	VdS G212164 0786-CPR-21611

Cross-references	Page	Art.No.	Name Type
	18	211112	Conventional Detector Interface GIF608-1
	20	211113	Fire Brigade Interface FWI600-1
	19	211110	Loop Interface LIF601-1
	27	211122	Network Interface NIF600-1
	22	211143	Relay Module RL608-1
	25	211119	Serial Interface SIF601-1
	2	211999T	Series BC600, Description

211281 Fire Detection Control Panel BC600-CE8L4S

The structure of the modularly constructed Fire Detection Control Panel BC600-CE8L4S is basically the same as that of the Fire Detection Control Panel BC600-CE8L2S, but it contains a Power Supply NT604-1 with an output current of 4.3A.

Specifications (for further specifications, see BC600-CE8L2S)

Output current of power unit	max. 4.3A
Weight	approx. 7.5kg

211284 Fire Detection Control Panel BC600-CE8L2N

The structure of the modularly constructed Fire Detection Control Panel BC600-CE8L2N is basically the same as that of the Fire Detection Control Panel BC600-CE8L2S, but it does not contain a central processing board. Therefore, the control panel can be equipped with a standard central processing board ZTB600-1 or a redundant central processing board ZTBR600-1, depending on the requirement.

Specifications (for further specifications, see BC600-CE8L2S)

Weight without battery	approx. 6.9kg

Cross-references	Page	Art.No.	Name Type
	18	211101	Central Processing Board Redundant ZTBR600-1
	17	211100	Central Processing Board ZTB600-1

211285 Fire Detection Control Panel BC600-CE8L4N

The structure of the modularly constructed Fire Detection Control Panel BC600-CE8L4N is basically the same as that of the Fire Detection Control Panel BC600-CE8L2S, however it contains a Power Supply NT604-1 with an output current of 4.3A, but no central processing board. Therefore, the control panel can be equipped with a standard central processing board ZTB600-1 or a redundant central processing board ZTBR600-1, depending on the requirement.

Specifications (for further specifications, see BC600-CE8L2S)

Output current of power unit	max. 4.3A
Weight without battery	approx. 7.3kg

Cross-references	Page	Art.No.	Name Type
	18	211101	Central Processing Board Redundant ZTBR600-1
	17	211100	Central Processing Board ZTB600-1

211401 Fire Detection Control Panel BC600-1L

The compact Fire Detection Control Panel BC600-1L is a completely integrated unit for the connection of one loop. On the Central Processing Board ZTB601-1 the power unit with an output current of 2.3A as well as the loop interface with selectable loop procol have already been integrated. In addition, the unit offers the following specific features:

- The display and operating field that is integrated into the front of the housing consists of a 1/4 VGA graphics display, the LED displays as well as a membrane keypad.
- The control panel offers a mounting position for an optional expansion module (e.g., Fire Brigade Interface FWI600-1, Conventional Detector Interface GIF608-1 or Serial Interface SIF601-x). In order to use it, the Backplane BPL601-1 must be installed in addition.
- Through appropriate parameterisation, detector zones for manual call points, automatic fire detectors with or without alarm verification, technical messages, fault detectors with or without self-resetting property as well as for confirmations of external devices can be created.
- Actuations, alarming devices or transmitting devices can be defined by determining output functions.
- 1 monitored output with an output current of 500mA allows the connection of an alarming device.
- 2 auxiliary inputs and 8 open-collector outputs - all of them freely parameterisable - are available for general control tasks.
- At the bottom of the housing, there is space for stand-by batteries with 2 × 12V/max. 22Ah.

Further features and functions are listed in the description of the Fire Detection Control Panel Series BC600 (with limitations) and of the Loop-Interface LIF601-1.

Specifications

Mains voltage	230VAC +10/-20%, 47...63Hz
Output voltage	typ. 27.6VDC
Output current of power supply	max. 2.3A
Output current siren output	max. 500mA
Ambient temperature	-20°C to +60°C
Protection class	IP30
Dimensions W × H × D	384 × 384 × 107 (mm)
Colour of housing	grey white, RAL 9002
Weight without batteries	approx. 5.4kg
Approvals	VdS G218062 0786-CPR-21612

Cross-references	Page	Art.No.	Name Type
	12	211419	Backplane BPL601-1
	18	211112	Conventional Detector Interface GIF608-1
	20	211113	Fire Brigade Interface FWI600-1
	25	211119	Serial Interface SIF601-1
	2	211999T	Series BC600, Description
	33	211373	Surface Mounting Frame AMR600-1

211407 Fire Detection Control Panel BC600-1L/LTF

The compact Fire Detection Control Panel BC600-1L/LTF is structured in the same way as the Fire Detection Control Panel BC600-1L, but it contains an additional, permanently integrated LED button field. Therefore the control panel is particularly suitable for the actuation of small extinguishing systems.

The LEDs can be used individually or in pairs, to indicate events of the detectors, detector zones, actuations, transmitting devices or alarming devices as well as of system functions. The buttons allow any operation on the control panel.

Features (for further features, see BC600-1L)

- 8 freely parameterisable LED pairs (which illuminate red or yellow)
- Indication of activation, disablement condition and fault condition for the parameterised event
- 8 freely parameterisable buttons for any operations, located next to the LED pairs
- Labelling strip permits individual lettering of each LED pair and each button

Specifications (for further specifications, see BC600-1L)

Weight without battery	approx. 5.5kg
Approvals	VdS G218062 0786-CPR-21612

Cross-references	Page	Art.No.	Name Type
	12	211419	Backplane BPL601-1
	18	211112	Conventional Detector Interface GIF608-1
	20	211113	Fire Brigade Interface FWI600-1
	25	211119	Serial Interface SIF601-1
	2	211999T	Series BC600, Description
	33	211373	Surface Mounting Frame AMR600-1

211403 Fire Detection Control Panel BC600-1L/S1

The functions, specifications and cross-references of the Fire Detection Control Panel BC600-1L/S1 for Sweden correspond to those of the Fire Detection Control Panel BC600-1L. In addition, a lock according to the standard SS 3654 is integrated in the operating field. By means of this lock, the fire brigade personnel can directly access authorization level 2.

211408 Fire Detection Control Panel BC600-1L/LTF/S1

The compact Fire Detection Control Panel BC600-1L/LTF/S1 for Sweden is structured in the same way as the Fire Detection Control Panel BC600-1L, but it contains an additional, permanently integrated LED button field. Therefore the control panel is particularly suitable for the actuation of small extinguishing systems. Furthermore, a lock according to the standard SS 3654 is integrated in the operating field. By means of this lock, the fire brigade personnel can directly access authorization level 2.

The LEDs can be used individually or in pairs, to indicate events of the detectors, detector zones, actuations, transmitting devices or alarming devices as well as of system functions. The buttons allow any operation on the control panel.

Features (for further features, see BC600-1L)
- 8 freely parameterisable LED pairs (which illuminate red or yellow)
- Indication of activation, disablement condition and fault condition for the parameterised event
- 8 freely parameterisable buttons for any operations, located next to the LED pairs
- Labelling strip permits individual lettering of each LED pair and each button

Specifications (for further specifications, see BC600-1L)

Weight without battery	approx. 5.5kg
Approvals	VdS G218062 0786-CPR-21612

211402 Fire Detection Control Panel BC600-1D

The compact Fire Detection Control Panel BC600-1D is a completely integrated unit for the connection of one loop. On the Central Processing Board ZTB601-1 the power unit with an output current of 2.3A as well as the loop interface with selectable loop procol have already been integrated. In addition, the unit offers the following specific features:
- The LED button field that is integrated into the front of the housing comprises 32 freely parameterisable keys for the direct operation of the zones, actuations or further system parts. For the indication of events, 2 light emitting diodes are located next to each key. Thanks to the optional preset of the keys and LEDs, the handling of the control panel is especially easy.
- The control panel offers a mounting position for an optional expansion module (e.g., Fire Brigade Interface FWI600-1, Conventional Detector Interface GIF608-1 or Serial Interface SIF601-x). In order to use it, the Backplane BPL601-1 must be installed in addition.
- Through appropriate parameterisation, detector zones for manual call points, automatic fire detectors with or without alarm verification, technical messages, fault detectors with or without self-resetting property as well as for confirmations of external devices can be created.
- Actuations, alarming devices or transmitting devices can be defined by determining output functions.
- 1 monitored output with an output current of 500mA allows the connection of an alarming device.
- 2 auxiliary inputs and 8 open-collector outputs - all of them freely parameterisable - are available for general control tasks.
- At the bottom of the housing, there is space for stand-by batteries with 2 × 12V/max. 22Ah.

Further features and functions are listed in the description of the Fire Detection Control Panel Series BC600 (with limitations) and of the Loop-Interface LIF601-1.

Specifications

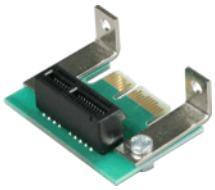
Mains voltage	230VAC +10/-20%, 47...63Hz
Output voltage	typ. 27.6VDC
Output current of power supply	max. 2.3A
Output current siren output	max. 500mA
Ambient temperature	-20°C to +60°C
Protection class	IP30
Dimensions W × H × D	384 × 384 × 107 (mm)
Colour of housing	grey white, RAL 9002
Weight without batteries	approx. 4.7kg
Approvals	VdS G218062 0786-CPR-21612

Cross-references	Page	Art.No.	Name Type
	12	211419	Backplane BPL601-1
	18	211112	Conventional Detector Interface GIF608-1
	20	211113	Fire Brigade Interface FWI600-1
	25	211119	Serial Interface SIF601-1
	2	211999T	Series BC600, Description
	33	211373	Surface Mounting Frame AMR600-1

211404 Fire Detection Control Panel BC600-1D/S1

The functions, specifications and cross-references of the Fire Detection Control Panel BC600-1D/S1 for Sweden correspond to those of the Fire Detection Control Panel BC600-1D. In addition, a lock according to the standard SS 3654 is integrated in the operating field. By means of this lock, the fire brigade personnel can directly access authorization level 2.

211419 Backplane BPL601-1



The Backplane BPL601-1 is used to expand a compact fire detection control panel BC600-1L or BC600-1D by an additional mounting position for a function module. Via the backplane, the function module is powered and the data connection to the central processing board is established.

The backplane comes with the mounting material that is needed for mounting on the Central Processing Board ZTB601-1.

Specifications

Dimensions W × H × D	43 × 33 × 16 (mm)
Weight	15g

211997T Fire Detection Control Panel BCnet600, Description

The Fire Detection Control Panel BCnet600 is a decentrally located control panel for medium-size to very large or far-flung fire detection systems and consists of individual sectional control panels. The sectional control panels are normally installed on the spot – adapted to the object and distributed across the building – they can, however, be concentrated at one or several locations.

All sectional control panels are connected to each other via the redundant high-security network net600, and together they form the networked Fire Detection Control Panel BCnet600. The decentralised structure not only reduces the cabling costs for the connection of the fire detectors, it, above all, significantly improves the operational safety of the entire system compared to conventionally designed fire detection control panels. The used network technology guarantees highest fault tolerance in the event of a fault on the network line and exceeds the redundancy requirements of the European Standard EN 54-2.

Thanks to its wide range of possible logic combinations for alarming and transmitting devices as well as for actuations, the control panel can realise even extensive and complex alarming and control tasks in the fire alarm technology. The control panel can easily be adapted to any required system size and provides literally unlimited possibilities also for future extensions. The control panel was tested, according to the Construction Products Regulation CPR, for compliance with the European Standards EN 54-2, EN 54-4 and EN 12094-1, including all options for the highest safety demands, and is VdS certified.

For the networking, every BCnet sectional control panel will be provided with a Network Interface NIF600-1, which will be connected to the backplane of the control panel as function module. In the control panel network net600, a total of 127 members can communicate, which together provide the possibility to connect:

- 2,540 loops for Labor Strauss, System SensorAP or Apollo protocol
- 20,000 detector zones (for automatic detectors, manual call points, etc.) in loop technology or addressable conventional technology
- 9,700 actuations (e.g., fire controls, extinguishing system controls) or alarming devices (e.g., acoustic or optical signalling devices)
- 99 transmitting devices (e.g., to the fire brigade)

The following control panel designs are used as sectional control panels of a networked Fire Detection Control Panel BCnet600:

- BCnet sectional control panels in the standard wall-mount cabinet BC600-8xxx or in the large wall-mount cabinet BC600-16xxx (with/without display and operating field),
- BCnet sectional control panels in the compact 19" front-mount housing BC600-CE8xxx (with display and operating field) and
- BCnet sectional control panels BC600-E, which have been assembled in a switch cabinet.

The indication of events and the operation of the networked fire detection control panel can be carried out on any sectional control panel with display and operating field. The system-specific parameter setup of the entire control panel network is transmitted to a sectional control panel in a convenient and clear way, by means of a PC and the Windows Parameter Setup Software PARSOFT-3, and from this control panel it is distributed to all sectional control panels.

The features of every BCnet sectional control panel are explained in the description of the Fire Detection Control Panel Series BC600. For specifications, see the individual description of the Fire Detection Control Panels Series BC600.

Cross-references	Page	Art.No.	Name Type
	27	211122	Network Interface NIF600-1
	2	211999T	Series BC600, Description

211216 Fire Detection Control Panel BC600-8N2N

The structure of the modularly constructed Fire Detection Control Panel BC600-8N2N is basically the same as that of the Fire Detection Control Panel BC600-8L2S, but it contains neither a display and operating field nor a central processing board. Therefore, the control panel can only be used as sectional control panel of a networked Fire Detection Control Panel BCnet600. Depending on the requirement, the control panel can be equipped with a standard central processing board ZTB600-1 or a redundant central processing board ZTBR600-1, as well as with a standard network interface NIF600-1 or a redundant network interface NIFR600-1.

Specifications (for further specifications, see BC600-8L2S)
Weight without battery approx. 7kg

Cross-references	Page	Art.No.	Name Type
	18	211101	Central Processing Board Redundant ZTBR600-1
	17	211100	Central Processing Board ZTB600-1
	12	211997T	Fire Detection Control Panel BCnet600, Description
	27	211122	Network Interface NIF600-1
	27	211123	Network Interface Redundant NIFR600-1

211217 Fire Detection Control Panel BC600-8N4N

The structure of the modularly constructed Fire Detection Control Panel BC600-8N4N is basically the same as that of the Fire Detection Control Panel BC600-8L2S, however it contains a Power Supply NT604-1 with an output current of 4.3A, but it contains neither a display and operating field nor a central processing board. Therefore, the control panel can only be used as sectional control panel of a networked Fire Detection Control Panel BCnet600. Depending on the requirement, the control panel can be equipped with a standard central processing board ZTB600-1 or a redundant central processing board ZTBR600-1, as well as with a standard network interface NIF600-1 or a redundant network interface NIFR600-1.

Specifications (for further specifications, see BC600-8L2S)

Output current of power unit	max. 4.3A
Weight without battery	approx. 7.4kg

Cross-references	Page	Art.No.	Name Type
	18	211101	Central Processing Board Redundant ZTBR600-1
	17	211100	Central Processing Board ZTB600-1
	12	211997T	Fire Detection Control Panel BCnet600, Description
	27	211122	Network Interface NIF600-1
	27	211123	Network Interface Redundant NIFR600-1

211218 Fire Detection Control Panel BC600-8N8N

The structure of the modularly constructed Fire Detection Control Panel BC600-8N8N is basically the same as that of the Fire Detection Control Panel BC600-8L2S, however it contains a Power Supply NT608-1 with an output current of 8.5A, but it contains neither a display and operating field nor a central processing board. Therefore, the control panel can only be used as sectional control panel of a networked Fire Detection Control Panel BCnet600. Depending on the requirement, the control panel can be equipped with a standard central processing board ZTB600-1 or a redundant central processing board ZTBR600-1, as well as with a standard network interface NIF600-1 or a redundant network interface NIFR600-1.

Specifications (for further specifications, see BC600-8L2S)

Output current of power unit	max. 8.5A
Weight without battery	approx. 7.8kg

Cross-references	Page	Art.No.	Name Type
	18	211101	Central Processing Board Redundant ZTBR600-1
	17	211100	Central Processing Board ZTB600-1
	12	211997T	Fire Detection Control Panel BCnet600, Description
	27	211122	Network Interface NIF600-1
	27	211123	Network Interface Redundant NIFR600-1

211258 Fire Detection Control Panel BC600-16N2N

The structure of the modularly constructed Fire Detection Control Panel BC600-16N2N is basically the same as that of the Fire Detection Control Panel BC600-16L2S, but it contains neither a display and operating field nor a central processing board. Therefore, the control panel can only be used as sectional control panel of a networked Fire Detection Control Panel BCnet600. Depending on the requirement, the control panel can be equipped with a standard central processing board ZTB600-1 or a redundant central processing board ZTBR600-1, as well as with a standard network interface NIF600-1 or a redundant network interface NIFR600-1.

Specifications (for further specifications, see BC600-16L2S)
Weight without battery approx. 10.3kg

Cross-references	Page	Art.No.	Name Type
	18	211101	Central Processing Board Redundant ZTBR600-1
	17	211100	Central Processing Board ZTB600-1
	12	211997T	Fire Detection Control Panel BCnet600, Description
	27	211122	Network Interface NIF600-1
	27	211123	Network Interface Redundant NIFR600-1

211259 Fire Detection Control Panel BC600-16N4N

The structure of the modularly constructed Fire Detection Control Panel BC600-16N4N is basically the same as that of the Fire Detection Control Panel BC600-16L2S, however it contains a Power Supply NT604-1 with an output current of 4.3A, but it contains neither a display and operating field nor a central processing board. Therefore, the control panel can only be used as sectional control panel of a networked Fire Detection Control Panel BCnet600. Depending on the requirement, the control panel can be equipped with a standard central processing board ZTB600-1 or a redundant central processing board ZTBR600-1, as well as with a standard network interface NIF600-1 or a redundant network interface NIFR600-1.

Specifications (for further specifications, see BC600-16L2S)
Output current of power unit max. 4.3A
Weight without battery approx. 10.7kg

Cross-references	Page	Art.No.	Name Type
	18	211101	Central Processing Board Redundant ZTBR600-1
	17	211100	Central Processing Board ZTB600-1
	12	211997T	Fire Detection Control Panel BCnet600, Description
	27	211122	Network Interface NIF600-1
	27	211123	Network Interface Redundant NIFR600-1

211260 Fire Detection Control Panel BC600-16N8N

The structure of the modularly constructed Fire Detection Control Panel BC600-16N8N is basically the same as that of the Fire Detection Control Panel BC600-16L2S, however it contains a Power Supply NT608-1 with an output current of 8.5A, but it contains neither a display and operating field nor a central processing board. Therefore, the control panel can only be used as sectional control panel of a networked Fire Detection Control Panel BCnet600. Depending on the requirement, the control panel can be equipped with a standard central processing board ZTB600-1 or a redundant central processing board ZTBR600-1, as well as with a standard network interface NIF600-1 or a redundant network interface NIFR600-1.

Specifications (for further specifications, see BC600-16L2S)
Output current of power unit max. 8.5A
Weight without battery approx. 11.1kg

Cross-references	Page	Art.No.	Name Type
	18	211101	Central Processing Board Redundant ZTBR600-1
	17	211100	Central Processing Board ZTB600-1
	12	211997T	Fire Detection Control Panel BCnet600, Description
	27	211122	Network Interface NIF600-1
	27	211123	Network Interface Redundant NIFR600-1

211351 Remote Display and Operation Panel ABF600-1

The Remote Display and Operation Panel ABF600-1 is used as remote indication unit of a networked Fire Detection Control Panel BCnet600. A display and operating field with 1/4 VGA graphics display, LED displays as well as a keypad are integrated into the powder coated sheet steel housing. As a result, the unit offers the same functionality as the display and operating field of a Control Panel Series BC600.

The ABF600-1 is linked to the networked Fire Detection Control Panel BCnet600 via the redundant high-security network net600. Power is supplied by a neighbouring control panel and, if necessary, the power supply implementation can also include redundancy and compliance with EN 54-13.

Features
- Operation and indication of all events of the fire detection control panel
- 1/4 VGA graphics display
- Menu-controlled user guidance
- Function keys for stress-free operation
- Permanent monitoring of the data communication within the network net600

Specifications

Supply voltage	16 - 30VDC
Current consumption at 24V	typ. 56mA (quiescent), 118mA (alarm)
Line length with Cat 5 cable	max. 1200m to adjacent net600 members
Ambient temperature	-20°C to +60°C
Protection class	IP30
Dimensions W × H × D	216 × 385 × 33 (mm)
Colour of housing	grey white, RAL 9002
Weight	2.2kg
Approval	VdS G218065

Cross-references	Page	Art.No.	Name Type
	12	211997T	Fire Detection Control Panel BCnet600, Description

211353 Remote Display and Operation Panel ABF600-CE1

The Remote Display and Operation Panel ABF600-CE1 in the compact front-mount housing is intended for installation in 19" housings or 19" cabinets. All functions and features are identical to those of the Remote Display and Operation Panel ABF600-1.

Specifications (for further specifications, see ABF600-1)

Dimensions W × H × D	478 × 355 (8 rack units) × 30 (mm)
Weight	2.4kg

Cross-references	Page	Art.No.	Name Type
	12	211997T	Fire Detection Control Panel BCnet600, Description

211302 Country Kit LZB-BC600/INT1

The international country kit contains all accessories that are needed for international markets and which are not included with the Fire Detection Control Panel Series BC600. These are the User Manuals Part A (Operating Instructions) and Part B (Installation - Connection - Commissioning) in English language.

211300 Country Kit LZB-BC600/A1

The country kit contains all accessories that are needed for Austria and which are not included with the Fire Detection Control Panel Series BC600. These are, for example, the German User Manual Part A (Operating Instructions) and the additional labelling elements according to TRVB and ÖNORM F 3070.

211301 Country Kit LZB-BC600/D1

The country kit contains all accessories that are needed for Germany and which are not included with the Fire Detection Control Panel Series BC600. These are, for example, the German User Manual Part A (Operating Instructions) and the additional labelling elements according to DIN 14675 or DIN VDE 0833-2.

211306 Country Kit LZB-BC600-1D/INT1

The international country kit contains all accessories that are needed for international markets and which are not included with the Fire Detection Control Panel BC600-1D. These are the User Manuals Part A (Operating Instructions) and Part B (Installation - Connection - Commissioning) in English.

211304 Country Kit LZB-BC600-1D/A1

The country kit contains all accessories that are needed for Austria and which are not included with the Fire Detection Control Panel BC600-1D. These are, for example, the German User Manual Part A (Operating Instructions) and the additional labelling elements according to TRVB or ÖNORM F 3070.

211305 Country Kit LZB-BC600-1D/D1

The country kit contains all accessories that are needed for Germany and which are not included with the Fire Detection Control Panel BC600-1D. These are, for example, the German User Manual Part A (Operating Instructions) and the additional labelling elements according to DIN 14675 or DIN VDE 0833-2.

211100 Central Processing Board ZTB600-1

The Central Processing Board ZTB600-1 is used for installation in a Fire Detection Control Panel BC600-xxxN (delivered without central processing board) and for the construction of a Fire Detection Control Panel BC600-E in a switch cabinet. The componentry is responsible for:

- the communication with all other componentries of the fire detection control panel which have a bus connection (display and operating board, componentries in the expansion fields of the door, function modules, power units, etc.), via two high performance bus systems,
- the handling and distribution of the events,
- the monitoring and activation of the own inputs and outputs,
- the communication via the external interfaces (USB interfaces as well as INFO bus interface).

Up to 4,000 zones can be managed by a Central Processing Board ZTB600-1 (i.e., a Fire Detection Control Panel BC600 or every BCnet600 sectional control panel). In a BCnet600 control panel, all sectional control panels together can manage up to 20,000 zones.

The componentry comes with two Termination Connectors SBA600-1.

Features

- powerful 32-bit processor system
- three freely parameterisable relay outputs (two of which have been preset as common alarm relay and common fault relay)
- two freely parameterisable monitored siren outputs
- 3 freely parameterisable monitored inputs
- 8 freely parameterisable OC outputs
- one INFO bus or INFO bus EP interface
- one USB interface prepared for the connection of the PARSOFT PC
- one USB interface for expansions
- all inputs and outputs accessible via pluggable screw terminals or flat cable connector

Specifications

Current consumption at 24V	26mA (inputs and outputs in normal condition)
Contact rating relay outputs	1A/60V/30W
Output current of siren outputs	max. 1A per output
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	173 × 131 × 25 (mm)
Weight	160g

Cross-references	Page	Art.No.	Name Type
	35	211996T	Fire Detection Control Panel BC600-E, Description
	2	211999T	Series BC600, Description

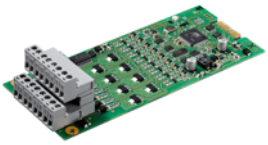
211101 Central Processing Board Redundant ZTBR600-1

The Central Processing Board ZTBR600-1 with integrated redundant processor has the same range of features as the Central Processing Board ZTB600-1. However, in the event of a failure of the main processor, the redundant processor takes on the entire data processing as well as the communication with the function modules and peripheral devices. Therefore, the redundant central processing board is ideally suited for systems with especially high demands on the failure safety - for example in extinguishing systems.

Specifications (for further specifications, see ZTB600-1)

Current consumption at 24V	42mA (inputs and outputs in normal condition)
Dimensions L × W × H	173 × 131 × 25 (mm)
Weight	175g

211112 Conventional Detector Interface GIF608-1



The Conventional Detector Interface GIF608-1 supports 8 detector lines in addressable conventional technology in Fire Detection Control Panels Series BC600. The detector lines can be parameterised individually as:

- Detector lines for fire alarm for the connection of manual call points as well as automatic detectors with or without alarm verification
- Detector lines for technical messages for the connection of monitoring and condition detectors
- Detector lines for fault messages for the connection of fault detectors
- System inputs for special purposes (e.g., to accept control commands)
- Confirmation inputs for monitoring of acuations and transmitting devices

Each detector line can be assigned either to a logic detector zone or to a zone element. In this way, it is also possible to unite several detector lines in one detector zone, hence allowing to operate them together. The end-of-line element - resistor or capacitor - can also be parameterised. If necessary, detector lines can also be configured as inputs without monitoring.

In addition, the Conventional Detector Interface GIF608-1 is equipped with 8 freely parameterisable open-collector outputs for general control tasks.

Features

- Independent microprocessor to ensure the alarming capability of every detector even at system failure of the control panel
- Individual detector identification for up to 64 addresses per detector line in conjunction with optional address modules
- Detector lines monitored for wire breakage, short circuit and earth fault
- All inputs and outputs accessible via pluggable screw terminals or flat cable connector

Specifications

Current consumption at 24V	typ. 7mA (without detectors and line termination)
	typ. 1.8mA per line (terminated by C_{EOL})
	typ. 4.9mA per line (terminated by R_{EOL})
Line voltage	typ. 20.0V
Line current	typ. 3.7mA (with 5.6kOhm EOL)
End-of-line resistance	5.6kOhm / 3.3kOhm / 47µF
Line resistance	max. 50 Ohm per core
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	160 × 65 × 35 (mm)
Weight	80g

Cross-references	Page	Art.No.	Name Type
	2	211999T	Series BC600, Description

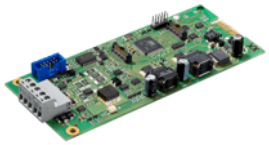
211116 Conventional Detector Interface Redundant GIFR608-1

The Conventional Detector Interface GIFR608-1 with integrated redundant processor has the same range of features as the Conventional Detector Interface GIF608-1. However, in the event of a failure of the main processor on the conventional detector interface the redundant processor takes on the handling of the 8 detector lines as well as the communication with the central processing board. Therefore, the redundant conventional detector interface is ideally suited for systems with especially high demands on the failure safety - for example in extinguishing systems.

Specifications (for further specifications, see GIF608-1)

Current consumption at 24V	typ. 17mA (without detectors and line termination)
Weight	90g

211110 Loop Interface LIF601-1



The Loop Interface LIF601-1 supports one loop with bi-directional communication in Fire Detection Control Panels Series BC600. The protocol for the loop communication is set through the parameterisation of the control panel and it determines the maximum number of detectors and modules that can be connected to the loop:

- 240 physical address points (detectors or modules) with Labor Strauss protocol
- 318 physical address points (159 detectors and 159 modules) with System Sensor protocol
- 126 physical address points (detectors or modules) with Apollo protocol

The loop allows connection of manual call points, automatic detectors, input and output modules, RF gateways and signalling devices in loop technology. Usually, the loop is wired as ring with unshielded 2-wire cables; if necessary, branch lines can also be connected to the ring without additional devices. Each loop can be divided into a maximum of 200 detector zones. Thanks to the high maximum output current of 500mA, a larger number of loop elements with higher current demand – such as sirens – can be used on the loop.

In addition, the Loop Interface LIF601-1 is equipped with 8 freely parameterisable open-collector outputs for general control tasks.

Extensive measuring functions for obtaining electrical characteristics, as well as analysis functions are integrated into the loop interface. On the LC display of the Fire Detection Control Panel Series BC600, the resistances of the positive and negative loop line, the present loop current, the loop voltage at all terminals and the relative frequency of faulty queries on the loop can be indicated. With that, the quality of the loop cabling and of the data transmission can be evaluated in the course of commissioning or maintenance. In this way, for example, lines that are too long or poor wiring can be detected easily.

Features

- Independent microprocessor to ensure the alarming capability of every detector even at system failure of the control panel
- Full function of all elements in the event of a single wire breakage on the ring-shaped loop line
- On the componentry, the start and the end of the loop are each provided with an isolator module
- In the event of a short circuit on the loop line, only the loop elements in the faulty line section, that is cut off from the loop by means of isolators, are affected in their function
- Alarm threshold tracing for every single smoke detector on the loop according to its individual contamination. The sensitivity of every smoke detector is thus held constant over a very long period of time and deceptive alarms are avoided.
- Maintenance prognosis by means of processor-aided interpolation of data concerning the trend of contamination for every single smoke detector on the loop. This way it is possible to predict the next maintenance date with a high degree of probability which in turn results in major cost savings in maintenance during the lifetime of the fire detection system.
- Alarming capability of every detector can be checked from the fire detection control panel
- All inputs and outputs accessible via pluggable screw terminals or flat cable connector

Specifications

Current consumption at 24V	27mA (without detectors, modules)
Total loop current	max. 500mA (at reduced line resistance)
Loop line resistance	max. 50 Ohm per core
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	160 × 65 × 20 (mm)
Weight	80g

Cross-references	Page	Art.No.	Name	Type
	2	211999T	Series BC600, Description	

211111 Loop Interface Redundant LIFR601-1

The Loop Interface LIFR601-1 with integrated redundant processor has the same range of functions as the Loop Interface LIF601-1. However, in the event of a failure of the main processor on the loop interface, the redundant processor takes on the handling of the loop as well as the communication with the central processing board. Therefore, the redundant loop interface is ideally suited for systems with especially high demands on failure safety - for example in extinguishing systems.

Specifications (for further specifications, see LIF601-1)

Current consumption at 24V	31mA (without detectors, modules)
Dimensions L × W × H	160 × 65 × 20 (mm)
Weight	90g

211113 Fire Brigade Interface FWI600-1

The Fire Brigade Interface FWI600-1 allows the connection of a transmitting device for the direct interconnection to a designated alarm respondent (e.g., the fire brigade) as well as the connection of a country-specific fire brigade control unit to Fire Detection Control Panels Series BC600.

Features
- One freely parameterisable relay output with dry changeover contact
- One monitored output with parameterisable monitoring current
- Eight inputs and eight OC outputs, freely parameterisable, for the connection of a country-specific fire brigade control unit and other devices
- All inputs and outputs are available on pluggable screw terminals or flat cable connector

Specifications

Current consumption at 24V	6mA (monitored output not connected)
	19mA (monitored output connected)
Output current OC output	max. 35mA
Monitoring current	4 / 8 / 12mA
Contact rating of relay output	60V/1A/30W
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	160 × 65 × 25 (mm)
Weight	80g

Cross-references	Page	Art.No.	Name	Type
	2	211999T	Series BC600, Description	

211114 Fire Brigade Interface Redundant FWIR600-1

The Fire Brigade Interface FWIR600-1 with integrated redundant processor has the same range of features as the Fire Brigade Interface FWI600-1. However, in the event of a failure of the main processor on the fire brigade interface the redundant processor takes on the handling of the inputs and outputs as well as the communication with the central processing board. Therefore, the redundant fire brigade interface is ideally suited for systems with especially high demands on the failure safety.

Specifications (for further specifications, see FWI600-1)

Current consumption at 24V	10mA (monitored output not connected)
	23mA (monitored output connected)
Dimensions L × W × H	160 × 65 × 25 (mm)
Weight	90g

211141 Input/Output Interface MEA644-1

The module unit MEA644-1 expands a Fire Detection Control Panel Series BC600 by 4 conventional detector lines and 4 monitored outputs. The module is attached to a free mounting position of the backplane through which it is connected to the system bus. The system bus interface is galvanically isolated, the module is powered by an external power supply.

The conventional lines allow the connection of contact detectors (e.g., manual call points, sprinkler system contacts, supervising contacts) and automatic detectors. The outputs serve for the connection of control devices (e.g., solenoid valves, relay coils) and provide a separate monitoring of line resistance and load resistance. The reference value of both resistances must be determined by means of an automatic calibration procedure during commissioning. If one of the two resistance values differs significantly from the reference value during operation, the output is indicated as faulty.

The patented method of multiple monitoring provides a reliable detection of line faults or load faults. An optional Line-Coupler LKR21-1 allows redundant connection of solenoid valves in accordance with EN 12094-1.

Features
- Conventional detector lines monitored for wire breakage and short circuit
- Internal resistance of the control devices and line resistance of the supply line monitored with a patented method
- Integrated self-calibration by measuring the line resistance and internal resistance, initiated by pressing a button
- Supply voltage monitored for undervoltage

Specifications

Operating voltage, external	20 to 30VDC
Current consumption at 24V	typ. 34mA (without detectors and line termination)
Load current per output	max. 1.5A
Ambient temperature	-20°C to +60°C
Ambient temperature control devices (to ensure the functioning of the fault detection)	+5°C to +50°C
Dimensions L × W × H	160 × 65 × 35 (mm)
Weight	90g
Patent number	AT 501 215 B1

Cross-references Page	Art.No.	Name Type
56	249097	Line-Coupler Redundance Control LKR21-1
2	211999T	Series BC600, Description
29	223051	Voltage Coupler redundant SKR600-1
138	229014	Voltage Stabilizer 24VDC STAB24-3

211142 Input/Output Interface Redundant MEAR644-1

The module unit MEAR644-1 with integrated redundant processor has the same range of features as the Input/Output Interface MEA644-1. However, in the event of a failure of the main processor, the handling of the inputs and outputs is maintained. Therefore, the redundant input/output interface is ideally suited for systems with especially high demands on the failure safety - for example in extinguishing systems.

Specifications (for further specifications, see MEA644-1)

Current consumption at 24V	typ. 40mA (without detectors and line termination)
Weight	100g

211154 NEW Analogue Interface AIF604-1

The module unit AIF604-1 expands a Fire Detection Control Panel Series BC600 by 4 analogue inputs with 4-20mA interface. The analogue inputs have been designed for the connection of any industrial sensors with a 4-20mA interface (e.g., gas detectors, flame detectors). The sensors can be powered by the analogue interface or by an external power supply. Depending on that, the sensors can be connected in 2-wire, 3-wire or 4-wire technology.

In addition, the Analogue Interface AIF604-1 is equipped with 8 freely parameterisable open-collector outputs for general control tasks.

Features
- Sensor connection line monitored for wire breakage and short circuit
- Parameterisable limitation of the supply voltage
- 8 events can be parameterised per analogue input: 4 logic inputs with 2 thresholds each - for alarm and pre-warning (technical message)
- Events activated when threshold is exceeded or value falls below threshold
- All inputs and outputs accessible via pluggable screw terminals or flat cable connector

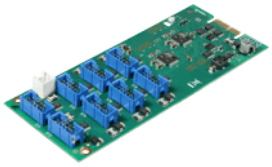
Specifications

Current consumption at 24V	typ. 9mA (no sensor connected)
Current consumption per sensor	max. 200mA (with internal supply)
External power supply	20 - 28VDC (without limiting the supply) 18.6 - 26.6VDC (with supply limitation)
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	160 × 65 × 35 (mm)
Weight	80g

Cross-references	Page	Art.No.	Name Type
	2	211999T	Series BC600, Description

211155 NEW

Output Interface redundant OIFR664-1



The module unit OIFR664-1 expands a Fire Detection Control Panel Series BC600 by 64 open-collector outputs. This function module allows you to implement very extensive control tasks in the fire detection system.

Thanks to the integrated redundant processor, the processing of the outputs is maintained in the event of a failure of the main processor. Therefore, the output interface is ideally suited for systems with especially high demands on failure safety - for example in extinguishing systems.

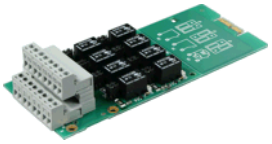
Specifications

Current consumption at 24V	typ. 8mA (from the backplane)
Current consumption, external	max. 180mA per 10-pole flat cable connector
Switching current per output	max. 35mA
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	160 × 65 × 14 (mm)
Weight	60g

Cross-references	Page	Art.No.	Name Type
	2	211999T	Series BC600, Description

211143

Relay Module RL608-1



The Relay Module RL608-1 is used for the switching of loads via eight dry contacts, which can be actuated independently of each other. The componentry is primarily intended for installation in Fire Detection Control Panels Series BC600. It is attached to the backplane of the control panel, but it is not connected to the system bus.

After breaking off the section of the printed circuit board that is not equipped with components, the relay module can also be used in Fire Detection Control Panels Series BC216, Series BC016 and Series BC06.

Features

- Eight independent relays with one dry contact each
- By means of jumpers, each contact can be individually set as normally open contact, as normally closed contact or as normally open contact with signalling resistors for the VdS extinguishing system interface
- Galvanically isolated switching contacts on separate terminals
- Separate LED display for each relay
- Connection of trigger inputs via flat cable

Specifications

Operating voltage	20 - 30VDC
Current consumption at 24V	typ. 22mA per activated circuit
Control current	typ. 0.5mA per input
Switching power per contact	1A/60V/30W
Signalling resistors	3.3kOhm / 680 Ohm
Contact life	unloaded: approx. 5 million switching cycles at 24VDC/1A: approx. 300,000 switching cycles
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	160 × 65 × 35 (mm)
after breaking off the printed circuit board	104 × 65 × 35 (mm)
Weight	105

Cross-references	Page	Art.No.	Name Type
	2	211999T	Series BC600, Description

211117 LED Display Field LAF648-1

The LED Display Field LAF648-1 has 48 freely parameterisable LED pairs (each consisting of one red and one yellow LED) for the individual indication of events of the detectors, detector zones, actuations, transmitting devices or alarming devices and of system functions at Fire Detection Control Panels Series BC600. The LED display field is actuated via the UI bus of the control panel.

Features
- 48 LED pairs (left: red LED, right: yellow LED), arranged in 3 rows of 16 pairs each
- Freely parameterisable to indicate the activation, the disablement or the fault condition of the parameterised event
- Designation labels allow individual marking of every LED pair

Specifications

Current consumption at 24V	5mA + 0.1mA per active LED
Ambient temperature	-20°C to +60°C
Dimensions W × H × D	218 × 155 × 30 (mm)
Weight	380g

Cross-references	Page	Art.No.	Name Type
	35	211330	Display and Operating Front Panel ABP600-1L
	36	211331	Expansion Front Panel 19"/4HU EFP600-1
	2	211999T	Series BC600, Description

211120 LED Display Field LAF648-2

The LED Display Field LAF648-2 is structured in the same way as the LED Display Field LAF648-1. However, the 48 freely parameterisable LED pairs consist of a LED with selectable colour (red or yellow) as well as a yellow LED.

Features
- 48 LED pairs (left: illuminates red or yellow, right: yellow LED), arranged in three rows of 16 pairs each

211121 LED Display Field LAF648-3

The LED Display Field LAF648-3 is structured in the same way as the LED Display Field LAF648-1. However, the 48 freely parameterisable LED pairs consist of a LED with selectable colour (red or green) as well as a yellow LED.

Features
- 48 LED pairs (left: illuminates red or green, right: yellow LED), arranged in three rows of 16 pairs each

211118 LED Button Field LTF616-1

The LED Button Field LTF616-1 contains 16 freely parameterisable LED pairs with selectable colour (red or yellow) as well as 16 buttons. The LEDs can be used individually or in pairs, to indicate events of the detectors, detector zones, actuations, transmitting devices or alarming devices as well as of system functions, on Fire Detection Control Panels Series BC600. The buttons allow any operation on the control panel. The LED button field can be installed in one of the expansion fields in the door of the fire detection control panel, in the Display And Operating Front Panel ABP600-1L or in the Expansion Front Panel EFP600-1, and is actuated via the UI bus of the control panel.

Features
- 16 freely parameterisable LED pairs (which illuminate red or yellow)
- Indication of activation, disablement condition and fault condition for the parameterised event
- 16 freely parameterisable buttons for any operations, located next to the LED pairs
- Labelling strips permit individual lettering of each LED pair and each button

Specifications

Current consumption at 24V	5mA + 0.1mA per active LED
Ambient temperature	-20°C to +60°C
Dimensions W × H × D	218 × 155 × 30 (mm)
Weight	350g

Cross-references	Page	Art.No.	Name Type
	35	211330	Display and Operating Front Panel ABP600-1L
	36	211331	Expansion Front Panel 19"/4HU EFP600-1
	2	211999T	Series BC600, Description

211140 LED Button Field LTF616-2

The LED Button Field LTF616-2 is structured in the same way as the LED Button Field LTF616-1. However, the 16 freely parameterisable LED pairs consist of a LED with red or green colour as well as a LED with red or yellow colour.

Features
- 16 LED pairs (top: illuminates red or green, bottom: illuminates red or yellow)

211144 LED Button Field Redundant LTFR616-3

The LED Button Field LTFR616-3 with integrated redundant processor has the same range of features as the LED Button Field LTF616-1. However, in the event of a failure of the main processor, the handling of the LED displays and buttons is maintained. Therefore, the redundant LED button field is ideally suited for systems with especially high demands on the failure safety - for example in extinguishing systems.

Furthermore, 8 of the 16 freely parameterisable LED pairs consist of a LED with red or green colour as well as a LED with red or yellow colour.

Features
- 8 LED pairs (upper LED: illuminating red or green, lower LED: red or yellow),
  8 LED pairs (upper and lower LED: illuminating red or yellow)

Specifications (for further specifications, see LTF616-1)

Current consumption at 24V	10mA + 0.1mA per active LED

211147 Printer Field EDF600-1/INT1

The Printer Field EDF600-1/INT1 is used for printing out the events of a Fire Detection Control Panel Series BC600. Depending on the parameterisation, the events can be printed immediately when they occur, or only after manually starting the print-out through the menu. The printer field can be installed in one of the expansion fields in the door of the fire detection control panel, in the Display And Operating Front Panel ABP600-1L or in the Expansion Front Panel EFP600-1. The unit is actuated via a Serial Interface SIF601-x.

The Printer Field EDF600-1/INT1 supports the special characters of the following languages: Hungarian, Czech, Slovak, Polish, Bosnian, Croatian, Slovene, Romanian, Serbian, Russian, Turkish.

Note: due to the high installation depth, the unit can not be installed in control panels in the 19" front-mount housing (BC600-CE8xxx).

The delivery scope includes a system supply cable as well as a data cable with a 9-pole D-SUB plug and a 9-pole D-SUB socket. **The Serial Interface SIF601-x is not included in the delivery.**

Features
- Print-out with 24 or 42 characters per line
- Print-out with or without detailed information and with or without empty lines
- Parameterisable filters for different types of events and for freely definable number ranges
- Easy replacement of the roll of thermal paper by opening the front panel
- Paper feed button

Specifications

Current consumption at 24V	typ. 25mA (idle) max. 650mA (while printing)
Ambient temperature	-20°C to +60°C
Paper width	57mm
Cable length	1.5m (supply cable, data cable)
Dimensions W × H × D	218 × 155 × 55 (mm)
Colour of front panel	grey white, RAL 9002
Weight	500g

Cross-references	Page	Art.No.	Name Type
	25	211119	Serial Interface SIF601-1
	25	229013	Spare Paper for EDF600-1 5 Rolls EDF600/EP-5R

229013 Spare Paper for EDF600-1 5 Rolls EDF600/EP-5R

The package unit contains 5 spare rolls of thermal paper for the Printer Field EDF600-1. Approx. 5000 lines can be printed per roll.

Cross-references	Page	Art.No.	Name Type
	24	211147	Printer Field EDF600-1/INT1

211119 Serial Interface SIF601-1

The Serial Interface SIF601-1 facilitates the extension of a Fire Detection Control Panel Series BC600 with a galvanically isolated RS232C interface or, alternatively, with an additional INFO bus or INFO bus EP interface. The usage of the interface as well as the baud rate can be parameterised.

The RS232C interface can be used to connect a protocol printer. The INFO bus or INFO bus EP can be used for connecting additional INFO bus devices if the INFO bus interface on the central processing board is not sufficient. By defining filters, the output of events can be limited.

Specifications

Current consumption at 24V	typ. 14mA
for the RS232 interface	typ. additional 4.5mA
for the INFO bus	typ. additional 22mA
Output current 24VDC	max. 180mA
Interface	RS232C, galvanically isolated, up to 57.6 kbaud
	INFO bus, up to 4800 baud
	INFO bus EP, up to 14400 baud
Signal lines	RxD, TxD, CTS/DTR
Connection type	
RS232	9-pole D-SUB plug or 10-pole flat cable connector
INFO bus	2-pole pluggable screw terminal
Auxiliary voltage 24VDC	2-pole pluggable screw terminal
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	160 × 65 × 20 (mm)
Weight	50g

Cross-references	Page	Art.No.	Name Type
	2	211999T	Series BC600, Description

211125 Serial Interface SIF601-2/ESPA

The Serial Interface SIF601-2/ESPA facilitates the extension of a Fire Detection Control Panel Series BC600 with a galvanically isolated RS232C interface or, alternatively, with an additional INFO bus or INFO bus EP interface. The usage of the interface as well as the baud rate can be parameterised.

The RS232C interface can be used either as ESPA interface or to connect a protocol printer. The ESPA interface is needed for the communication with pager systems, DECT systems, visual call systems, etc., which have an ESPA 4.4.4 interface for receiving clear text information. By means of PARSOFT, the parameters for the communication as well as filters for certain message types (alarms, technical messages, etc.) can be set for up to 5 pagers.

The INFO bus or INFO bus EP can be used for connecting additional INFO bus devices if the INFO bus interface on the central processing board is not sufficient. By defining filters, the output of events can be limited.

Specifications

Current consumption at 24V	typ. 14mA
for the RS232 interface	typ. additional 4.5mA
for the INFO bus	typ. additional 22mA
Output current 24VDC	max. 180mA
Interface	RS232C, galvanically isolated, up to 57.6 kbaud
	INFO bus, up to 4800 baud
	INFO bus EP, up to 14400 baud
Signal lines	RxD, TxD, CTS/DTR
Connection type	
RS232	9-pole D-SUB plug or 10-pole flat cable connector
INFO bus	2-pole pluggable screw terminal
Auxiliary voltage 24VDC	2-pole pluggable screw terminal
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	160 × 65 × 20 (mm)
Weight	50g

Cross-references	Page	Art.No.	Name Type
	2	211999T	Series BC600, Description

211126 Serial Interface SIF601-3/ZLT

The Serial Interface SIF601-3/ZLT facilitates the extension of a Fire Detection Control Panel Series BC600 with a galvanically isolated RS232C interface or, alternatively, with an additional INFO bus or INFO bus EP interface. The usage of the interface as well as the baud rate can be parameterised.

The RS232C interface can be used either as bi-directional ZLT interface or to connect a protocol printer. The ZLT interface is needed for the communication with higher operation control systems. By means of bi-directional communication, the higher operation control system also allows, in addition to the indication of all conditions, the operation of the zones, actuations, etc.

The INFO bus or INFO bus EP can be used for connecting additional INFO bus devices if the INFO bus interface on the central processing board is not sufficient. By defining filters, the output of events can be limited.

Specifications

Current consumption at 24V	typ. 14mA
for the RS232 interface	typ. additional 4.5mA
for the INFO bus	typ. additional 22mA
Output current 24VDC	max. 180mA
Interface	RS232C, galvanically isolated, up to 57.6 kbaud
	INFO bus, up to 4800 baud
	INFO bus EP, up to 14400 baud
Signal lines	RxD, TxD, CTS/DTR
Connection type	
RS232	9-pole D-SUB plug or 10-pole flat cable connector
INFO bus	2-pole pluggable screw terminal
Auxiliary voltage 24VDC	2-pole pluggable screw terminal
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	160 × 65 × 20 (mm)
Weight	50g

Cross-references	Page	Art.No.	Name Type
	2	211999T	Series BC600, Description

211127 Serial Interface SIF601-4/ZLT-UNI

The Serial Interface SIF601-4/ZLT-UNI is structured in the same way as the Serial Interface SIF601-3/ZLT, the SIF601-4/ZLT-UNI has however a unidirectional ZLT interface for transmitting the events and system conditions to higher operation control systems which indicate the conditions of the fire detection control panel. On the other hand, operation of the zones, actuations, etc. is not possible.

Cross-references	Page	Art.No.	Name Type
	2	211999T	Series BC600, Description

211156 NEW

Serial Interface SIF622-1

The Serial Interface SIF622-1 facilitates the extension of a Fire Detection Control Panel Series BC600 with two separate, galvanically isolated "Signal bus" interfaces according to the RS485 standard. The baud rates of the interfaces can be parameterised individually.

Each of the two RS485 interfaces can be used to connect up to 16 compatible signal bus devices to the Fire Detection Control Panel Series BC600. These include, for example, the Fire Brigade Control Unit FBF58-4, the Remote Tableau SG70-2 as well as future fire brigade display devices or remote tableaus. By setting filters, the output of events can be limited.

Specifications

Current consumption at 24V	typ. 31mA
Interface	RS485, galvanically isolated
Baud rate	19,200, 38,400, 57,600, 115,000 baud
Interface line	2-wire, shielded, min. CAT5
Total line length	max. 1200m
Connection type	2 × 3-pole pluggable screw terminal
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	160 × 65 × 20 (mm)
Weight	55g

Cross-references	Page	Art.No.	Name Type
	2	211999T	Series BC600, Description

211122

Network Interface NIF600-1

The network interface is used for networking the sectional control panels of a Fire Detection Control Panel BCnet600 or other net600 members via the control panel network net600. The componentry is needed for upgrading a Fire Detection Control Panel Series BC600 to a BCnet sectional control panel.

Features

- Independent microprocessor to maintain the network communication even at system fault of the control panel
- Full function of the networked control panel in the event of a single wire breakage on the ring-shaped network line
- Status LEDs indicate the network communication
- Network connections are available on pluggable screw terminals

Specifications

Current consumption at 24V	typ. 31mA
Interface	RS485, galvanically isolated, up to 115 kBaud
Cable length between 2 NIF600-1s	max. 1200m
Connection type	pluggable screw terminals
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	160 × 65 × 20 (mm)
Weight	55g

Cross-references	Page	Art.No.	Name Type
	12	211997T	Fire Detection Control Panel BCnet600, Description
	74	214027	Network Cable SU=100m NWK2-1
	2	211999T	Series BC600, Description

211123

Network Interface Redundant NIFR600-1

The Network Interface NIFR600-1 with integrated redundant processor has the same range of features as the Network Interface NIF600-1. However, in the event of a failure of the main processor on the network interface the redundant processor takes on the handling of the communication via the network net600. Therefore, the redundant network interface is ideally suited for systems with especially high demands on the failure safety.

Specifications (for further specifications, see NIF600-1)

Current consumption at 24V	47mA
Dimensions L × W × H	160 × 65 × 20 (mm)
Weight	70g

211130

Power Supply NT602-1

The power unit NT602-1 is used as power supply of a Fire Detection Control Panel Series BC600 and the connected additional devices as well as for charging the stand-by batteries. The power unit is implemented in the form of a primary switched-mode power supply with high efficiency, which results in low self-heating and a long life span.

The power unit NT602-1 can be installed as extension in a Control Panel BC600-16xxx in the large wall-mount cabinet or in an Extension Housing GEHZ600-16 as well as in a Control Panel BC600-E, which has been assembled in a switch cabinet. The output voltage is available at two connectors that are intended for connection of the system supply cables. The data connection to the central processing board is established via the system bus.

The power unit monitors all important characteristic values of the power supply (e.g., mains voltage, battery voltage, internal resistance of the stand-by battery, earth fault, supply voltage of the external devices). A malfunction is transmitted to the central processing board as fault. The stand-by batteries are charged with current limiting and temperature optimisation.

Specifications

Mains voltage	230VAC +10/-20%, 47...63Hz
Output voltage	typ. 27.6VDC
Output current	max. 2.3A
Ambient temperature	-20°C to +60°C
Dimensions W × H × D	158 × 131 × 70 (mm)
Weight	450g

Cross-references	Page	Art.No.	Name Type
	30	211160	Extension Housing GEHZ600-16
	35	211996T	Fire Detection Control Panel BC600-E, Description
	2	211999T	Series BC600, Description
	29	223051	Voltage Coupler redundant SKR600-1

211131

Power Supply NT604-1

The power unit NT604-1 is used as power supply of a Fire Detection Control Panel Series BC600 and the connected additional devices as well as for charging the stand-by batteries. The power unit is implemented in the form of a primary switched-mode power supply with high efficiency, which results in low self-heating and a long life span.

The power unit NT604-1 can be installed as extension in a Control Panel BC600-16xxx in the large wall-mount cabinet or in an Extension Housing GEHZ600-16 as well as in a Control Panel BC600-E, which has been assembled in a switch cabinet. Up to 4 Power Supplies NT604-1 or NT608-1 can be managed per control panel. The output voltage is available at four connectors that are intended for connection of the system supply cables. The data connection to the central processing board is established via the system bus.

The power unit monitors all important characteristic values of the power supply (e.g., mains voltage, battery voltage, internal resistance of the stand-by battery, earth fault, supply voltage of the external devices). A malfunction is transmitted to the central processing board as fault. The stand-by batteries are charged with current limiting and temperature optimisation.

Specifications

Mains voltage	230VAC +10/-20%, 47...63Hz
Output voltage	typ. 27.6VDC
Output current	max. 4.3A
Ambient temperature	-20°C to +60°C
Dimensions W × H × D	158 × 197 × 70 (mm)
Weight	900g

Cross-references	Page	Art.No.	Name Type
	30	211160	Extension Housing GEHZ600-16
	35	211996T	Fire Detection Control Panel BC600-E, Description
	2	211999T	Series BC600, Description
	29	223051	Voltage Coupler redundant SKR600-1

211132 Power Supply NT608-1

The power unit NT608-1 is used as power supply of a Fire Detection Control Panel Series BC600 and the connected additional devices as well as for charging the stand-by batteries. The power unit is implemented in the form of a primary switched-mode power supply with high efficiency, which results in low self-heating and a long life span.

The power unit NT608-1 can be installed as extension in a Control Panel BC600-16xxx in the large wall-mount cabinet or in an Extension Housing GEHZ600-16 as well as in a Control Panel BC600-E, which has been assembled in a switch cabinet. Up to 4 Power Supplies NT604-1 or NT608-1 can be managed per control panel. The output voltage is available at six connectors that are intended for connection of the system supply cables. The data connection to the central processing board is established via the system bus.

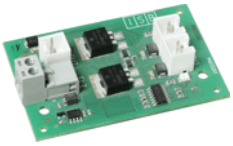
The power unit monitors all important characteristic values of the power supply (e.g., mains voltage, battery voltage, internal resistance of the stand-by battery, earth fault, supply voltage of the external devices). A malfunction is transmitted to the central processing board as fault. The stand-by batteries are charged with current limiting and temperature optimisation.

Specifications

Mains voltage	230VAC +10/-20%, 47...63Hz
Output voltage	typ. 27.6VDC
Output current	max. 8.5A
Ambient temperature	-20°C to +60°C
Dimensions W × H × D	158 × 197 × 80 (mm)
Weight	1.3kg

Cross-references	Page	Art.No.	Name Type
	30	211160	Extension Housing GEHZ600-16
	35	211996T	Fire Detection Control Panel BC600-E, Description
	2	211999T	Series BC600, Description
	29	223051	Voltage Coupler redundant SKR600-1

223051 Voltage Coupler redundant SKR600-1



The Voltage Coupler SKR600-1 allows you to couple two independent power supplies in order to power the componentries of a Fire Detection Control Panel Series BC600 in a redundant way. The voltage coupler monitors the supply voltages of both power units and always switches the higher voltage through to the output.

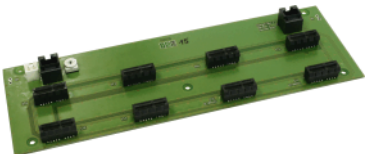
Coupling two power units ensures very high failure safety of the power supply for special applications (for example, large extinguishing systems).

The condition of the two power supplies is indicated by one light emitting diode each. The failure of one or both supply voltages can be forwarded via the fault output.

Specifications

Supply voltage	21 - 30VDC
Current consumption at 24V	8mA
Switching current, voltage output	max. 8A
Switching current, fault output	max. 35mA
Ambient temperature	-20°C to +60°C
Dimensions W × H × D	48 × 74 × 18 (mm)
Weight	25g

211151 Backplane BPL608-1



The Backplane BPL608-1 is used to expand a Fire Detection Control Panel Series BC600 by 8 additional mounting positions for function modules. The Backplane BPL608-1 can be used in Control Panels BC600-16xxx in the large wall-mount cabinet as well as in control panels BC600-E, assembled in a 19-inch switch cabinet. Via the backplane, the function modules are powered and the data connection to the central processing board is established.

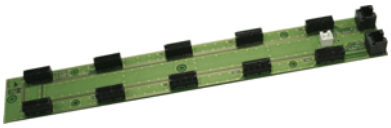
The backplane is provided with a connector for the connection of the supply voltage and with two connectors for the connection of the system bus. By means of an address switch, the address of the backplane can be set in the range 1 ... 8.

Specifications

Dimensions W × H × D	265 × 88 × 18 (mm)
Weight	110g

Cross-references	Page	Art.No.	Name Type
	35	211996T	Fire Detection Control Panel BC600-E, Description
	2	211999T	Series BC600, Description

211152 Backplane BPL610-1



The Backplane BPL610-1 provides 10 mounting positions for componentries of a Fire Detection Control Panel Series BC600. Two mounting positions are reserved for the central processing board, the remaining mounting positions can be used for expanding the control panel by 8 function modules. Via the backplane, the function modules are powered and the data connection to the central processing board is established. The backplane is already included in the basic version of the Control Panels BC600-8xxx, BC600-CE8xxx and BC600-16xxx.

In order to expand a Control Panel Series BC600, the Backplane BPL610-1 can be installed in an empty housing GEH600-8 or GEH600-16 and can accommodate up to 8 function modules. The mounting positions that are reserved for the ZTB600 can not be used in this case.

The backplane is provided with a connector for the connection of the supply voltage and with two connectors for the connection of the system bus. By means of a solder bridge, the preset address 1 of the backplane can be changed to the address 2.

Specifications

Dimensions W × H × D	348 × 50 × 18 (mm)
Weight	100g

Cross-references	Page	Art.No.	Name Type
	31	211244	Auxiliary Housing GEH600-16
	31	211206	Auxiliary Housing GEH600-8

211160 Extension Housing GEHZ600-16

The wall-mount cabinet made of coated sheet steel is used for the housing of stand-by batteries, auxiliary modules and/or a power unit as supplement to Fire Detection Control Panels Series BC600 in the large wall-mount cabinet.

The cabinet is prepared for the installation of

- two stand-by batteries 12V/max. 45Ah (at the cabinet bottom) and 2 Module Carriers BGT600-1 for auxiliary modules, or
- two stand-by batteries 12V/max. 45Ah (at the cabinet bottom), 1 Module Carrier BGT600-1 for auxiliary modules and one Power Supply NT60x-1, or
- four stand-by batteries 12V/max. 45Ah (two batteries at the cabinet bottom, two batteries on an optional Battery Bracket BK600-1), or
- two stand-by batteries 12V/max. 65Ah (one battery at the cabinet bottom, one battery on an optional Battery Bracket BK600-1)

Specifications

Protection class	IP30
Dimensions W × H × D	480 × 390 × 201 (mm)
Colour	grey white, RAL 9002
Net weight	5.9kg

Cross-references	Page	Art.No.	Name Type
	37	211161	Battery Bracket BK600-1
	34	211162	Module Carrier BGT600-1
	28	211130	Power Supply NT602-1
	28	211131	Power Supply NT604-1
	29	211132	Power Supply NT608-1
	33	211372	Surface Mounting Frame AMR600-16Z

211206 Auxiliary Housing GEH600-8

The wall-mount cabinet made of coated sheet steel is used for the housing of stand-by batteries, auxiliary modules and/or a power unit as supplement to Fire Detection Control Panels Series BC600 in the standard wall-mount cabinet.

The cabinet is prepared for the installation of

- two stand-by batteries 12V/max. 22Ah (at the cabinet bottom) and 4 Module Carriers BGT600-1 for auxiliary modules, or
- two stand-by batteries 12V/max. 22Ah (at the cabinet bottom), 3 Module Carriers BGT600-1 for auxiliary modules and one Power Supply NT60x-1.

Specifications

Protection class	IP30
Dimensions W × H × D	444 × 530 × 121 (mm)
Colour	grey white, RAL 9002
Net weight	6.3kg

Cross-references	Page	Art.No.	Name Type
	30	211152	Backplane BPL610-1
	34	211162	Module Carrier BGT600-1
	28	211130	Power Supply NT602-1
	28	211131	Power Supply NT604-1
	29	211132	Power Supply NT608-1
	32	211370	Surface Mounting Frame AMR600-8

211244 Auxiliary Housing GEH600-16

The wall-mount cabinet made of coated sheet steel is used for the housing of stand-by batteries, auxiliary modules and/or a power unit as supplement to Fire Detection Control Panels Series BC600 in the large wall-mount cabinet.

The cabinet is prepared for the installation of

- two stand-by batteries 12V/max. 45Ah (at the cabinet bottom) and 6 Module Carriers BGT600-1 for auxiliary modules, or
- two stand-by batteries 12V/max. 45Ah (at the cabinet bottom), 5 Module Carriers BGT600-1 for auxiliary modules and one Power Supply NT60x-1.

Specifications

Protection class	IP30
Dimensions W × H × D	480 × 670 × 201 (mm)
Colour	grey white, RAL 9002
Net weight	approx. 9.5kg

Cross-references	Page	Art.No.	Name Type
	30	211152	Backplane BPL610-1
	34	211162	Module Carrier BGT600-1
	28	211130	Power Supply NT602-1
	28	211131	Power Supply NT604-1
	29	211132	Power Supply NT608-1
	32	211371	Surface Mounting Frame AMR600-16

211370 Surface Mounting Frame AMR600-8

The mounting frame is made of powder coated sheet steel and, in case of surface mounted cabling, allows a Fire Detection Control Panel BC600-8xxx to be mounted at a distance from the wall. Rubber seals on both sides ensure sealing to the wall and to the control panel, thereby protecting the control panel against ingress of moisture from the backside. The cables can be entered through knock-out openings from the top side or bottom side. Thanks to the concealed cable entry, the fire detection control panel can be installed in an optically pleasing way.

Specifications

Dimensions W × H × D	444 × 530 × 43 (mm)
Material	powder coated sheet steel 1mm
Colour	grey white, RAL 9002
Weight	1.65kg

Cross-references	Page	Art.No.	Name Type
	2	211999T	Series BC600, Description

211371 Surface Mounting Frame AMR600-16

The mounting frame is made of powder coated sheet steel and, in case of surface mounted cabling, allows a Fire Detection Control Panel BC600-16xxx to be mounted at a distance from the wall. Rubber seals on both sides ensure sealing to the wall and to the control panel, thereby protecting the control panel against ingress of moisture from the backside. The cables can be entered through knock-out openings from the top side and bottom side. Thanks to the concealed cable entry, the fire detection control panel can be installed in an optically pleasing way.

Specifications

Dimensions W × H × D	480 × 670 × 43 (mm)
Material	powder coated sheet steel 1mm
Colour	grey white, RAL 9002
Weight	1.85kg

Cross-references	Page	Art.No.	Name Type
	2	211999T	Series BC600, Description

211372 Surface Mounting Frame AMR600-16Z

The mounting frame is made of powder coated sheet steel and, in case of surface mounted cabling, allows the Extension Housing GEHZ600-16 to be mounted at a distance from the wall. Rubber seals on both sides ensure sealing to the wall and to the extension housing, thereby protecting the housing against ingress of moisture from the backside. The cables can be entered through knock-out openings from the top side and bottom side. Thanks to the concealed cable entry, the extension housing can be installed in an optically pleasing way.

Specifications

Dimensions W × H × D	480 × 390 × 43 (mm)
Material	powder coated sheet steel 1mm
Colour	grey white, RAL 9002
Weight	1.45kg

Cross-references	Page	Art.No.	Name Type
	30	211160	Extension Housing GEHZ600-16

211373 Surface Mounting Frame AMR600-1

The mounting frame is made of powder coated sheet steel and, in case of surface mounted cabling, allows a Fire Detection Control Panel BC600-1x to be mounted at a distance from the wall. Rubber seals on both sides ensure sealing to the wall and to the control panel, thereby protecting the control panel against ingress of moisture from the backside. The cables can be entered through knock-out openings from the top side and bottom side. Thanks to the concealed cable entry, the fire detection control panel can be installed in an optically pleasing way.

The surface mounting frame can also be used for mounting a Power Supply Housing NTG624-1 at a distance from the wall.

Specifications

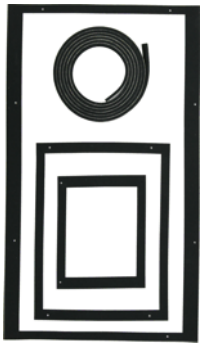
Dimensions W × H × D	384 × 384 × 43 (mm)
Material	powder coated sheet steel 1mm
Colour	grey white, RAL 9002
Weight	1.25kg

229650 NEW Sealing Kit Wall IP54 BC600-WDS

The wall sealing kit is used to increase the protection class of the Control Panels Series BC600 by sealing them from the wall if no surface mounting frame is used. Basically, the delivery scope includes a 2300x15x6 self-adhesive flat cellular rubber strip that comes as a roll which, depending on the type of control panel housing, has to be cut to the appropriate length and stuck to the rear panel of the housing in such a way that it is tightly sealed at the corners.

229651

Sealing Kit IP54 BC600-1x--DS



The Sealing Kit BC600-1x-DS is used to increase the protection class of the compact control panels Series BC600-1x or a Power Supply Housing NTG624-1 by sealing the door of the housing from the wall part, and by sealing the expansion fields in the door of the housing.

The delivery scope includes a three-part sealing kit made of cellular rubber, which is used for sealing the expansion fields in the door of the housing, a 1550x10x3 self-adhesive flat cellular rubber strip that comes as a roll and which is used for sealing the door of the housing from the wall part, and instructions on how to install the seals.

229652

Sealing Kit IP54 BC600-8-DS

The Sealing Kit BC600-8-DS is used to increase the protection class of the fire/extinguishing control panels in the housing version BC600-8 by sealing the door of the housing from the wall part, and by sealing the expansion fields in the door of the housing.

The delivery scope includes a two-part sealing kit made of cellular rubber which is used for sealing the expansion fields in the door of the housing, a 1650x18x5.5 self-adhesive rubber profile that comes as a roll as well as a flat cellular rubber strip that has been cut to size - both of which are used for sealing the door of the housing from the wall part. Instructions on how to install the seals are also included.

229653

Sealing Kit IP54 BC600-16-DS

The Sealing Kit BC600-16-DS is used to increase the protection class of the fire/extinguishing control panels in the housing version BC600-16 by sealing the door of the housing from the wall part, and by sealing the expansion fields in the door of the housing.

The delivery scope includes a two-part sealing kit made of cellular rubber which is used for sealing the expansion fields in the door of the housing, a 1650x18x5.5 self-adhesive rubber profile that comes as a roll as well as a flat cellular rubber strip that has been cut to size - both of which are used for sealing the door of the housing from the wall part. Instructions on how to install the seals are also included.

229654

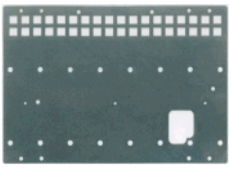
Sealing Kit IP54 BC600-16Z-DS

The Sealing Kit BC600-16Z-DS is used to increase the protection class of the Extension Housing GEHZ600-16 by sealing the door of the housing from the wall part.

The delivery scope includes a 1650x18x5.5 self-adhesive rubber profile that comes as a roll and a flat cellular rubber strip that has been cut to size - both of which are used for sealing the door of the housing from the wall part. Instructions on how to install the seals are also included.

211162

Module Carrier BGT600-1



The Module Carrier BGT600-1 is made of zinc coated sheet steel and is provided with mounting holes in the LST standard grid. It allows easy installation of auxiliary modules. It can be used, for example, for quick and easy mounting of two Relay Modules RL58-1 or RL58-2, two Siren Connection Modules SZ58-3, 8 isolator modules or further componentries.

The module carrier is included in the basic version of the Control Panels BC600-8x and BC600-16x and can also be installed in the Extension Housing GEHZ600-16.

Specifications

Dimensions W × H	187 × 131 (mm)
Material	zinc coated sheet steel, 1mm
Net weight	160g

Cross-references	Page	Art.No.	Name Type
	31	211244	Auxiliary Housing GEH600-16
	31	211206	Auxiliary Housing GEH600-8
	30	211160	Extension Housing GEHZ600-16
	86	222004	Relay Module RL58-1
	86	222010	Relay Module RL58-2
	22	211143	Relay Module RL608-1
	85	223026	Siren Connection Module SZ58-3

211996T Fire Detection Control Panel BC600-E, Description

The Fire Detection Control Panel BC600-E is assembled in a standard switch cabinet, using individual Series BC600 components. In this way, very large, centrally arranged fire detection control panels or sectional control panels can be realised according to system-specific requirements. However, for mounting the components in the switch cabinet, mechanical device parts which have been specially prepared for this purpose must be used:

- With the Function Module Carrier FMT608-1, function modules can be mounted in a switch cabinet. The function module carrier is equipped with a Backplane BPL608-1 and therefore can accommodate 8 function modules.
- By means of the Power Supply Carrier NTT600-1, a power unit Series BC600 can be mounted in a switch cabinet.
- The Module Carrier MPL600/6H with a height of 6 rack units can be mounted, for example, in a 19" pivoting frame. On the module carrier, 2 function module carriers or power supply carriers can be mounted.
- The Expansion Front Panel EFP600-1 has 2 mounting spaces for expansion fields and can be installed in the door or in the pivoting frame of the switch cabinet.

For the indication of events and for the operation, a Display And Operating Front Panel ABP600-1L can be installed in the door of the switch cabinet. The ABP600-1L also has 2 mounting spaces for expansion fields.

For the features and specifications, see the individual description of the components of the Fire Detection Control Panels Series BC600.

Cross-references	Page	Art.No.	Name Type
	35	211330	Display and Operating Front Panel ABP600-1L
	36	211331	Expansion Front Panel 19"/4HU EFP600-1
	36	211150	Function Module Carrier FMT608-1
	36	212040	Module Carrier 19"/6HU MPL600/6H
	37	211164	Power Supply Carrier NTT600-1
	2	211999T	Series BC600, Description

211330 Display and Operating Front Panel ABP600-1L

The Display And Operating Front Panel ABP600-1L is designed as 19" front panel with 8 rack units and is used as display and operating unit of a Fire Detection Control Panel Series BC600, which is assembled in a switch cabinet. It contains a display and operating field with 1/4 VGA graphics display, LED displays as well as a membrane keypad. In addition, the display and operating front panel has two mounting spaces for optional expansions such as LED Display Fields LAF648-x.

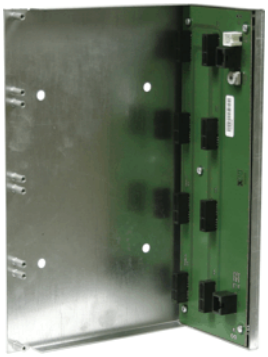
The Display And Operating Front Panel ABP600-1L is actuated via a System Bus Cable SBK600-2,0, which is connected to the bus system of the fire detection control panel. Power is supplied through a System Supply Cable SVK600-4,0 which is connected to a power unit of the fire detection control panel. Both cables are included in the delivery.

Specifications

Current consumption at 24V	
LEDs inactive	typ. 87mA (with backlight)
Ambient temperature	-20°C to +60°C
Dimensions W × H × D	478 × 355 (8 rack units) × 30 (mm)
Weight	2.9kg
Approvals	VdS G212164 0786-CPR-21611

Cross-references	Page	Art.No.	Name Type
	35	211996T	Fire Detection Control Panel BC600-E, Description
	23	211117	LED Display Field LAF648-1

211150 Function Module Carrier FMT608-1



The Function Module Carrier FMT608-1 is made of zinc coated sheet steel and is used for the mounting of componentries of a Fire Detection Control Panel Series BC600 in a switch cabinet. The unit is delivered with installed Backplane BPL608-1 for the accommodation of the control panel components (central processing board, function modules, etc.).

The function module carrier can be mounted on the Module Carrier MPL600/6H or directly on the mounting plate of a switch cabinet.

Specifications

Dimensions W × H × D	172 × 266 × 101 (mm)
Material	zinc coated sheet steel, 1mm
Weight	770g (incl. BPL608-1)

Cross-references	Page	Art.No.	Name Type
	35	211996T	Fire Detection Control Panel BC600-E, Description
	36	212040	Module Carrier 19"/6HU MPL600/6H

212040 Module Carrier 19"/6HU MPL600/6H

The 19" module carrier with a height of 6 rack units is used for constructing Fire Detection Control Panels BC600-E in the switch cabinet. On the module carrier, 2 Function Module Carriers FMT608-1 or Power Supply Carriers NTT600-1 can be mounted.

The module carrier can be mounted, for example, on the back of a Dummy Cover AD8C-6H in a pivoting frame.

Specifications

Dimensions W × H × D	437 × 266 (6 rack units) × 26 (mm)
Material	zinc coated sheet steel, 1mm
Weight	approx. 1kg

Cross-references	Page	Art.No.	Name Type
	68	212033	Dummy Cover 19"/6HU AD8C-6H
	35	211996T	Fire Detection Control Panel BC600-E, Description
	36	211150	Function Module Carrier FMT608-1
	37	211164	Power Supply Carrier NTT600-1

211331 Expansion Front Panel 19"/4HU EFP600-1

The Expansion Front Panel EFP600-1 is intended for the installation of two expansion fields in the door or in the pivoting frame of Fire Detection Control Panels BC600-E in 19" cabinets. The front panel can also be used to cover a height of 4 rack units.

Specifications

Dimensions W × H × D	478 × 177 (4 rack units) × 20 (mm)
Colour	grey white, RAL 9002
Weight	approx. 1kg

Cross-references	Page	Art.No.	Name Type
	35	211996T	Fire Detection Control Panel BC600-E, Description

211161 Battery Bracket BK600-1

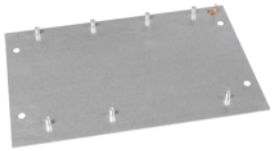
The Battery Bracket BK600-1 is designed for the installation of 2 stand-by batteries 12V/max. 45Ah or one stand-by battery 12V/max. 65Ah in the Extension Housing GEHZ600-16.

Specifications

Dimensions W × D × H	476 × 140 × 10 (mm)
Material	zinc coated sheet steel, 1mm
Weight	900g

Cross-references	Page	Art.No.	Name Type
	30	211160	Extension Housing GEHZ600-16

211164 Power Supply Carrier NTT600-1



The Power Supply Carrier NTT600-1 is made of zinc coated sheet steel and is used to easily mount a power unit in a Fire Detection Control Panel BC600-E. The power supply carrier is provided with all required mounting bolts for the mounting of the power unit, the protective conductor connection point of the power unit as well as the mounting holes of the carrier itself.

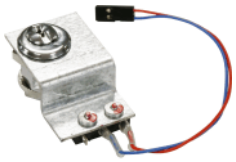
The power supply carrier can be mounted on the Module Carrier MPL600/6H or directly on the mounting plate of a switch cabinet.

Specifications

Dimensions W × H × D	172 × 266 × 10 (mm)
Material	zinc coated sheet steel, 1mm
Weight	350g

Cross-references	Page	Art.No.	Name Type
	35	211996T	Fire Detection Control Panel BC600-E, Description
	36	212040	Module Carrier 19"/6HU MPL600/6H

250021 Key Switch Set Complete SCH70-1



The Key Switch Set SCH70-1 can optionally be installed in a Fire Detection Control Panel BC600-8xxx, BC600-16xxx or BC600-1D, in a Display and Operation Panel ABF600-1 or in the Remote Tableau SG70-1 if the authorization for the operation is to be enabled by means of a key.

The key switch can also be installed later on.

211165 Door Contact Switch TKS600-1

The Door Contact Switch TKS600-1 is used to monitor whether or not the door of a Fire Detection Control Panel BC600-8xxx or BC600-16xxx is open. The contact is installed in the door of the control panel and is connected to the display and operating board.

211179 Termination Connector SBA600-1

The termination connector is needed for the defined termination of the internal bus system of a Fire Detection Control Panel Series BC600. Two of these connectors are needed per fire detection control panel and are already included in the basic version of the control panel.

Specifications

Dimensions W × H × D	20 × 10 × 10 (mm)
Connection type	RJ45 connector

211998T Included system bus cables and system supply cables

The following table gives an overview of the system bus cables and system supply cables that come with the product. Cables that are needed in addition must be ordered separately.

Art.No.	Componentry	System bus cable	System supply cable
211330	Display and Operating Front Panel ABP600-1L	1 × SBK600-2,0	1 × SVK600-4,0
211151	Backplane BPL608-1	1 × SBK600-0,25	1 × SVK600-0,25
211150	Function Module Carrier FMT608-1	1 × SBK600-0,5	----------
211117	LED Display Field LAF648-1	1 × SBK600-0,5	1 × SVK600-0,6
211120	LED Display Field LAF648-2	1 × SBK600-0,5	1 × SVK600-0,6
211121	LED Display Field LAF648-3	1 × SBK600-0,5	1 × SVK600-0,6
211118	LED Button Field LTF616-1	1 × SBK600-0,5	1 × SVK600-0,6
211140	LED Button Field LTF616-2	1 × SBK600-0,5	1 × SVK600-0,6
211144	LED Button Field redundant LTFR616-3	1 × SBK600-0,5	1 × SVK600-0,6
211130	Power Supply NT602-1	1 × SBK600-2,0	1 × SVK600-2,0
211131	Power Supply NT604-1	1 × SBK600-2,0	2 × SVK600-2,0
211132	Power Supply NT608-1	1 × SBK600-2,0	2 × SVK600-2,0
211141	Input-Output-Interface MEA644-1	----------	1 × SVK600-0,25 1 × SVK600-0,8
211142	Inp.-Outp.-Interface redund. MEAR644-1	----------	

211170 System Bus Cable SBK600-0,25

The system bus cable is needed for the connection of optional componentries to the internal bus system of a Fire Detection Control Panel Series BC600. The cable has to be ordered in addition to an optional componentry if the length of the cable that is included with the componentry does not fit the respective application.

Specifications

Length	0.25m
Connection type	on both sides RJ45 connector, shielded

211171 System Bus Cable SBK600-0,5

The cable corresponds to the System Bus Cable SBK600-0,25, but the length is 0.5m.

211172 System Bus Cable SBK600-0,75

The cable corresponds to the System Bus Cable SBK600-0,25, but the length is 0.75m.

211173 System Bus Cable SBK600-1,0

The cable corresponds to the System Bus Cable SBK600-0,25, but the length is 1m.

211174 System Bus Cable SBK600-1,5

The cable corresponds to the System Bus Cable SBK600-0,25, but the length is 1.5m.

211175 System Bus Cable SBK600-2,0

The cable corresponds to the System Bus Cable SBK600-0,25, but the length is 2m.

211180 System Supply Cable SVK600-0,25

The flexible 2-wire cable is needed to supply power to optional componentries of a Fire Detection Control Panel Series BC600. The cable has to be ordered in addition to an optional componentry if the length of the cable that is included with the componentry does not fit the respective application.

Specifications

Length	0.25m
Connection type	female connector on both sides
Wire cross-section	0.75mm²

211181 System Supply Cable SVK600-0,6

The cable corresponds to the System Supply Cable SVK600-0,25, but the length is 0.6m.

211182 System Supply Cable SVK600-0,8

The cable corresponds to the System Supply Cable SVK600-0,25, but the length is 0.8m.

211183 System Supply Cable SVK600-1,0

The cable corresponds to the System Supply Cable SVK600-0,25, but the length is 1m.

211184 System Supply Cable SVK600-1,35

The cable corresponds to the System Supply Cable SVK600-0,25, but the length is 1.35m.

211185 System Supply Cable SVK600-2,0

The cable corresponds to the System Supply Cable SVK600-0,25, but the length is 2m.

211186 System Supply Cable SVK600-4,0

The cable corresponds to the System Supply Cable SVK600-0,25, but the length is 4m.

219008 Key for BC600 SCH-BC600-1

The spare key is used for opening a wall-mount cabinet or extension housing of a Fire Detection Control Panel Series BC600.

2 Fire Detection Contol Panels Series BC016

210102 Fire Detection Control Panel BC016-1/INT1

The Fire Detection Control Panel BC016-1/INT1 is a compact control panel for small and medium-size fire detection systems in conventional technology. Depending on the boards inserted you can connect fire detectors, fault detectors and condition detectors to a maximum of 16 detector lines in addressable conventional technology. Furthermore, up to 16 actuations, 9 alarming devices and 3 transmitting devices can be connected. Thanks to its wide range of possible logic combinations for alarming and transmitting devices as well as for actuations, the control panel can realise even extensive and complex alarming and control tasks in the fire alarm technology. It was tested, according to the Construction Products Directive CPD, for compliance with the European Standards EN 54-2 and EN 54-4, including all options for the highest safety demands, and is VdS certified.

The control panel is installed in a powder coated sheet steel wall-mount case. The basic version of the control panel includes 8 detector zones in addressable conventional technology, 2 freely parameterisable inputs and 3 relay outputs. The Fire Detection Control Panel Series BC016 can be extended to 16 detector zones by installing a Detector Zone Extension MGE8-1 and can be provided with a Fire Brigade Interface FWI016-1. The wall-mount case furthermore provides for the possible installation of up to 3 optional componentries (Relay Module RL58-1 or RL58-2, Siren Connection Module SZ58-3, etc.), as well as of stand-by batteries with 2 × 12V/max. 22Ah. The labels of display and operating elements as well as the displayed and printer texts are in English language. Enclosed with the control panel is a documentation in English language.

The parameters of the control panel can be set up and transmitted to the control panel quickly and reliably by means of a PC and the Windows Parameter Setup Software PARSOFT-1. Additionally, the parameter setup can be accomplished without any further tools by using the keypad of the integrated display and operating field of the control panel. The fire detection control panel comes with a default setup, which allows for a particularly easy commissioning.

Most important features

- Administration of up to 16 detector zones for manual call points, automatic fire detectors with or without alarm verification, technical messages and fault detectors with or without self-resetting property
- Administration of 3 transmitting devices, 9 alarming devices and 16 actuations
- INFO field with a 2 line by 16 character text display providing information about all current events
- Info button for additional information on the current events
- 16 double LEDs (left hand side: red, right hand side: yellow), automatically assigned to the parameterised zones and displaying the activation as well as the disablement or fault condition of the zones
- Designation labels allow for individual marking of every double LED
- The event memory stores the latest 200 events in chronological order
- Display of activation, fault, disablement, alarm delay, call fire brigade and confirmation of the transmitting device to the fire brigade
- Monitored output for the connection of external signalling devices with display of activation, fault or disablement
- 3 dry, freely parameterisable contact outputs; default setup includes two outputs preset for EN 54 requirements (summary alarm and summary fault)
- 16 open-collector outputs which can be freely parameterised as transmitting devices, alarming devices, actuations or other output functions
- „and/or“-combinations for actuations, transmitting devices or alarming devices
- Collective reset of all current alarms via “Panel reset” button
- Hierarchized authorisation levels for operation and parameterisation, secured via numeric codes
- Alarm delay with dead-man’s handle controlled by internal timer which can be set separately for each day of the week
- Start and end date of Daylight Saving Time according to EU directive or freely parameterisable
- Non-resettable electronic event counter
- 1 mounting position for serial interface SIM216-1 (RS232C interface for the connection of a PC with Windows Parameter Setup Software PARSOFT-1 or a serial protocol printer) or SIM016-3 (INFO bus interface for the connection of fire brigade control units and intelligent remote tableaus)
- Stand-by batteries 2 × 12V/max. 22Ah can be installed in the control panel's wall-mount case

Specifications

Mains voltage	230VAC +10/-20%, 47...63Hz
Connection power	75VA
Output voltage	typ. 27.6VDC
Output current of power supply	max. 2.3A
Current consumption at 24V	typ. 70mA (without optional componentries)
Line voltage	typ. 20.0V
Line current	typ. 3.8mA
End-of-line resistance	5.6kOhm/3.3kOhm
Line resistance	max. 50 Ohm per core
Ambient temperature	-5°C to +50°C
Protection class	IP30

Dimensions W × H × D	380 × 480 × 83 (mm)
Colour	grey white, RAL 9002
Weight without batteries	approx. 5kg
Approvals	VdS G205023 0786-CPD-20849

Cross-references	Page	Art.No.	Name Type
	44	210110	Detector Zone Extension BC016 MGE8-1
	44	210111	Fire Brigade Interface FWI016-1
	86	222004	Relay Module RL58-1
	86	222010	Relay Module RL58-2
	45	210112	Serial Interface Module SIM016-3
	44	214025	Serial Interface Module SIM216-1
	85	223026	Siren Connection Module SZ58-3

210100 Fire Detection Control Panel BC016-1/D1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC016-1/INT1. The labels of display and operating elements, the displayed and printer texts as well as the documentation are in German language.

210103 Fire Detection Control Panel BC016-1/S1

The functions, specifications and cross-references of the Swedish version of the Fire Detection Control Panel BC016-1 correspond to those of the Fire Detection Control Panel BC016-1/INT1. In addition, a lock according to the standard SS 3654 is integrated in the operating field. By means of this lock, the fire brigade personnel can directly access authorization level 2.

The labels of the display and operating elements as well as the displayed and printer texts are in Swedish language. Enclosed with the control panel is a documentation in Swedish language.

210122 Fire Detection and Evacuation Panel BC016-2/INT1

The design of the Fire Detection and Evacuation Panel BC016-2/INT1 is identical with the Fire Detection Control Panel BC016-1/INT1, but includes additional 10 buttons in the display and operating field for the direct control (i.e., activation and deactivation) of a maximum of 8 evacuation circuits. With that, different country-specific requirements (e.g., NEN 2575) can be fulfilled.

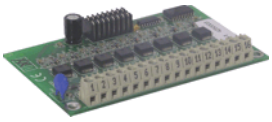
The labels of the display and operating elements as well as the displayed and printer texts are in English language. Enclosed with the control panel is a documentation in English language.

210120 Fire Detection and Evacuation Panel BC016-2/D1

The design of the Fire Detection and Evacuation Panel BC016-2/D1 is identical with the Fire Detection Control Panel BC016-1/D1, but includes additional 10 buttons in the display and operating field for the direct control (i.e., activation and deactivation) of a maximum of 8 evacuation circuits. With that, different country-specific requirements (e.g., NEN 2575) can be fulfilled.

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC016-2/INT1. The labels of display and operating elements, the displayed and printer texts as well as the documentation are in German language.

210110 Detector Zone Extension BC016 MGE8-1



The Detector Zone Extension MGE8-1 is used to extend a Fire Detection Control Panel Series BC016 by 8 detector zones in addressable conventional technology.

Features

- 8 detector lines in addressable conventional technology, that can be individually configured as detector zone for manual call points, automatic fire detectors with or without alarm verification, technical messages and fault detectors with or without self-resetting property
- Individual detector identification for up to 64 addresses per detector line in conjunction with optional address modules
- Detector lines monitored for wire breakage, short circuit and earth fault
- Freely parameterisable allocation of the detector lines for activating transmitting devices, actuations and alarming devices

Specifications

Current consumption at 24V	typ. 32mA (8 zones terminated, without detectors)
Line voltage	typ. 20.0V
Line current	typ. 3.8mA
End-of-line resistance	5.6kOhm/3.3kOhm
Line resistance	max. 50 Ohm per core
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	100 × 65 × 15 (mm)
Weight	80g

210111 Fire Brigade Interface FWI016-1

The Fire Brigade Interface FWI016-1 allows for the connection of two independent transmitting devices for direct interconnection to a designated alarm respondent (e.g., the fire brigade) as well as the connection of a country-specific fire brigade control unit to Fire Detection Control Panels Series BC016.

Features

- 1 relay output with dry changeover contact
- 1 line-monitored output with selectable monitoring current
- 8 inputs and 7 outputs, freely parameterisable, for the connection of a country-specific fire brigade control unit and other devices
- All inputs and outputs are available on screw terminals or flat cable connector

Specifications

Current consumption at 24V	typ. 4mA
Switching power per contact	60V/1A/30W
Contact life	3×10^5
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	130 × 65 × 15 (mm)
Weight	70g

214025 Serial Interface Module SIM216-1

The Serial Interface Module SIM216-1 allows for the extension of a Fire Detection Control Panel Series BC216 or Series BC016 with a galvanically isolated RS232 interface for the connection of devices with serial data transfer (e.g., a protocol printer, a parameter setup PC).

Specifications

Current consumption at 24V	typ. 10mA
Interface	RS232C, galvanically isolated, up to 57.6 kbaud
Signal lines	RxD, TxD, CTS/DTR
Connection type	D-SUB plug, 9-pole
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	70 × 45 × 20 (mm)
Weight	50g

Cross-references	Page	Art.No.	Name Type
	72	219009	USB to Serial Converter US232R-100

210112

Serial Interface Module SIM016-3

The Serial Interface Module SIM016-3 is used to extend a Fire Detection Control Panel Series BC016 with an INFO bus interface for the connection of fire brigade control units and intelligent remote indication units with serial data transmission.

Specifications

Current consumption at 24V	typ. 22mA
Interface	20mA current loop
Connection type	Screw terminals
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	70 × 45 × 20 (mm)
Weight	50g

3 Fire Detection Contol Panels Series BC06

210205

Fire Detection Control Panel BC06-1/INT1

The Fire Detection Control Panel BC06-1/INT1 is a compact control panel for small conventional fire detection systems. Depending on the level of expansion, fire detectors, fault detectors and condition detectors can be connected to a maximum of 6 conventional detector lines. Outputs for two alarming devices are provided as well. The control panel was tested by VdS, according to the construction Products Directive CPD, for compliance according to the European Standards EN 54-2 and EN 54-4.

The control panel is integrated in a wall-mount cabinet. The cabinet consists of a powder coated steel sheet base and a removable plastic cabinet cover. In the basic version, the control panel contains 4 conventional detector zones, 2 parameterisable inputs, 2 independently monitored siren outputs and 2 relay outputs. The Fire Detection Control Panel Series BC06 can be extended to 6 detector zones by the installation of the Zone Extension Board ZEB2-1. In addition, the wall-mount cabinet can accommodate an optional componentry (Relay Module RL58-1 or RL58-2, Siren Connection Module SZ58-3, etc.) as well as stand-by batteries 2 × 12V/max. 7Ah. Enclosed with the control panel is a documentation in English language.

The initial commissioning of the control panel is significantly facilitated by the practical factory settings. The system-specific parameterisation of the control panel can be directly accomplished via the keypad of the integrated display and operating field without the requirement of any additional support.

Essential features

- Administration of up to 6 detector zones for manual call points, automatic fire detectors with or without alarm verification and fault detectors with or without self-resetting property
- With the help of the optional MCP Coding Module MCM1-1, alarms from automatic detectors and manual call points, which are both connected to the same detector line, can be distinguished by the Fire Detection Control Panel Series BC06
- The type of line terminator (end-of-line resistor or end-of-line capacitor) can be selected via parameterisation
- Two monitored outputs for the connection of external alarming devices with the possibility of individual activation via 'and/or' combinations
- Independent indication of activation, fault and disablement of the alarming devices as well as independent operation via one button per alarming device
- Summary LED indicators for information about all current events
- 8 LED pairs are automatically assigned to parameterised zones and alarming devices and display the activation, disablement and fault condition
- Displays can be labelled individually with labelling strips, which are inserted into the front foil
- Event memory for the last 50 events in chronological order, to be output via the serial interface
- 2 dry contact outputs. These outputs are pre-set in the factory settings according to EN 54 standards (summary alarm and summary fault)
- 8 open-collector outputs, that automatically signal the activated condition of each zone and one summary output each for fault condition and disabled condition of the zones
- Button 'Panel reset' for common reset of all current events
- 3 authorisation levels for operation and parameterisation, secured by numeric codes
- A mounting position for a Serial Interface Module SIM06-1, for connection of a serial protocol printer
- Control panel case provides space for accommodating stand-by batteries 2 × 12V/max. 7Ah.

Specifications

Mains voltage	230VAC +10/-20%, 47...63Hz
Connection power	75VA
Output voltage	typ. 27.6VDC
Output current of power supply	max. 2.3A
Output current siren outputs	
Output 1	max. 1A
Output 2	max. 0.5A
(the sum of the output currents of the two siren outputs must not exceed 1A)	
Current consumption at 24V	
(without optional modules)	typ. 70mA (end-of-line resistor 5.6kOhm)
	typ. 55mA (end-of-line capacitor 47µF)
Line voltage	typ. 20V (end-of-line resistor 5.6kOhm)
	typ. 23V (end-of-line capacitor 47µF)
Line current	typ. 3.7mA (end-of-line resistor 5.6kOhm)
	typ. 0.35mA (end-of-line capacitor 47µF)
Line termination	5.6kOhm or 47µF
Line resistance	max. 50 Ohm per core
Ambient temperature	-5°C to +50°C
Protection class	IP30
Dimensions W × H × D	330 × 330 × 90 (mm)
Colour	grey white, RAL 9002
Weight without batteries	approx. 3kg
Approval	0786-CPD-20807

Cross-references	Page	Art.No.	Name Type
	50	210212	Front Foil Evacuation Circuit FFEV06-1
	50	249096	Manual Call Point Coding Module MCM1-1
	86	222004	Relay Module RL58-1
	86	222010	Relay Module RL58-2
	50	210215	Serial Interface Module SIM06-1
	85	223026	Siren Connection Module SZ58-3
	49	210210	Zone Extension Board BC06 ZEB2-1

210200 Fire Detection Control Panel BC06-1/D1

Functions, specifications and cross-references are equal to the Fire Detection Control Panel BC06-1/INT1 but the manual comes in German language.

210211 Fire Detection Control Panel BC06-1/S1

The functions, specifications and cross-references of the Swedish version of the Fire Detection Control Panel BC06-1 correspond to those of the Fire Detection Control Panel BC06-1/INT1. In addition, a lock according to the standard SS 3654 is integrated in the operating field. By means of this lock, the fire brigade personnel can directly access authorization level 2.

Enclosed with the control panel is a documentation in Swedish language.

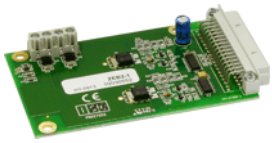
210209 Fire Detection Control Panel BC06-2/INT1

Same design as Fire Detection Control Panel BC06-1, but includes a 4-digit, non-resettable alarm counter in the display and operating field, according to EN 54-2. Enclosed with the control panel is a documentation in English language.

210208 Fire Detection Control Panel BC06-2/D1

Functions, specifications and cross-references are equal to the Fire Detection Control Panel BC06-2/INT1 but the manual comes in German language.

210210 Zone Extension Board BC06 ZEB2-1



The Zone Extension Board ZEB2-1 extends the Fire Detection Control Panel Series BC06 by 2 detector zones in conventional technology.

Features

- 2 detector lines in conventional technology, that can be individually configured as detector zone for manual call points, automatic fire detectors with or without alarm verification and fault detectors with or without self-resetting property
- By means of the optional MCP Coding Module MCM1-1, alarms from automatic detectors and manual call points, which are both connected to the same detector line, can be distinguished
- The type of line terminator (end-of-line resistor or end-of-line capacitor) can be selected separately for both zones of the Zone Extension Board ZEB2-1 via parameterisation at the control panel
- Monitoring of detector lines for wire breakage, short circuit and earth fault

Specifications

Current consumption at 24V	typ. 14mA (end-of-line resistor 5.6kOhm)
	typ. 7mA (end-of-line capacitor 47µF)
Line voltage	typ. 20V (end-of-line resistor 5.6kOhm)
	typ. 23V (end-of-line capacitor 47µF)
Line current	typ. 3.7mA (end-of-line resistor 5.6kOhm)
	typ. 0mA (end-of-line capacitor 47µF)
Line termination	5.6kOhm or 47µF
Line resistance	max. 50 Ohm per core
Ambient Temperature	-5°C to +50°C
Dimensions L × W × H	103 × 58 × 15 (mm)
Weight	34g

Cross-references	Page	Art.No.	Name Type
	50	249096	Manual Call Point Coding Module MCM1-1

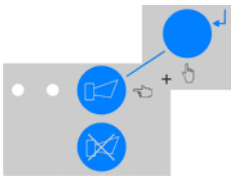
210215 Serial Interface Module SIM06-1

The Serial Interface Module SIM06-1 extends the Fire Detection Control Panel Series BC06 by one galvanically isolated RS232C interface for the connection of a serial protocol printer.

Specifications

Current consumption at 24V	typ. 15mA
Interface	RS232C, galvanically isolated
Data transfer lines	RxD, TxD
Baudrate	1200, 2400, 4800 baud
Type of connection	D-SUB connector, 9-pin
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	88 × 35 × 17 (mm)
Weight	32g

210212 Front Foil Evacuation Circuit FFEV06-1



The self-adhesive plastic foil serves for the labelling of three additional function keys in the display and operating field of the Fire Detection Control Panel Series BC06. These keys are used for the function 'Alarming device configured as Evacuation Circuit / NEN 2575'.

249096 Manual Call Point Coding Module MCM1-1

The MCP Coding Module MCM1-1 enables the combined connection of automatic detectors and manual call points to one detector line of a Fire Detection Control Panel Series BC06. The control panel can distinguish the activation of an automatic detector from the activation of a manual call point with the help of the coding module and can react accordingly. The coding module is optionally installed in every manual call point on the respective zone.

Specifications

Current consumption at 24V	typ. 20mA (detector activated)
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	30 × 18 × 4 (mm) without leads
Weight	6g

4 Extinguishing System Controls

218992T Extinguish. Control Function in Series BC600 Panels, Description

The Fire Detection Control Panels Series BC600 provide all functions for the construction of an electrical control device for extinguishing systems. Thanks to its flexibility, the extinguishing control can be used in extinguishing systems with many different exinguishing agents. Among other things, the control panels have been tested and certified for the actuation of gas extinguishing systems according to EN 12094-1.

Depending on the requirements, one of the following versions can be implemented an parameterised:

- Extinguishing Control Panel **LC600-x**: The control panel can be actuated through control contacts by a fire detection control panel of any brand.
- combined Fire/Extinguishing Control Panel **BC600-x**: In addition to the components of the extinguishing technology, automatic fire detectors may also be connected directly to this control panel.

For the construction of an Extinguishing Control Panel Series LC600 or a combined Fire/Extinguishing Control Panel Series BC600, all Series BC600 control panel types can be used:

- The compact control panels BC600-1L/LTF and BC600-1D can actuate an extinguishing system with one flooding zone according to EN 12094-1.
- The Fire Detection Control Panels BC600-8x and BC600-CE8x can be expanded to up to 32 flooding zones, the BC600-16x can be expanded to up to 64 and the BC600-E (assembled in a switch cabinet) can be expanded to up to 128 flooding zones. The flooding zones of a control panel can be combined into any number of extinguishing systems.
- In the networked Control Panel BCnet600, up to 2048 flooding zones, which are distributed among up to 127 control panels, can be represented and operated.

The Control Panel Series BC600/LC600 fulfils all mandatory requirements and **all options of EN 12094-1** as well as the EN 54-2 and EN 54-4. If necessary, a hardware redundant version of the extinguishing system control can also be implemented easily for highest safety demands. It is prescribed by the standard if more than one flooding zone of a gas extinguishing system is actuated by a control panel or a function module. In this case, the componentries in question must be provided with a redundant processor node. In the event of a failure of the main processor, the redundant processor that is integrated on the hardware redundant componentries automatically takes over the function of the main processor.

The extinguishing control function is unblocked in the control panel or in the sectional control panel after installation of an appropriately parameterised options circuit. This circuit is part of the extinguishing control panel license which is available for 1, 4, 8, 16, 32 or 128 flooding zones, depending on the requirements.

The Control Panels Series BC600/LC600 are parameterised by means of a PC and the Windows Parameter Setup Software PARSOFT. The clear user interface allows an almost self-explanatory definition of the system configuration and thereby minimises the requirement for training. The entered parameters can be loaded into the control panel after an automatic check for formal correctness.

Specifications

see description of the BC600 control panels and function modules

Approvals (except BC600-1x)	VdS G218063 (as extinguishing control panel only) 0786-CPR-21609 VdS G212164 (as combined fire detection and extinguishing control panel) 0786-CPR-21611
Approvals (BC600-1x)	VdS G218066 (as extinguishing control panel only) 0786-CPR-21610 VdS G218062 (as combined fire detection and extinguishing control panel) 0786-CPR-21612

Cross-references	Page	Art.No.	Name Type
	53	218027	Extinguishing-Control 1-Area-Licence LC600-1LB
	53	218033	Extinguishing-Control 128-Area-Licence LC600-128LB
	53	218030	Extinguishing-Control 16-Area-Licence LC600-16LB
	53	218031	Extinguishing-Control 32-Area-Licence LC600-32LB
	53	218028	Extinguishing-Control 4-Area-Licence LC600-4LB
	53	218032	Extinguishing-Control 64-Area-Licence LC600-64LB
	53	218029	Extinguishing-Control 8-Area-Licence LC600-8LB
	12	211997T	Fire Detection Control Panel BCnet600, Description
	2	211999T	Series BC600, Description

218027 Extinguishing-Control 1-Area-Licence LC600-1LB

The extinguishing control panel license is needed for the administration of 1 flooding zone in an Extinguishing Control Panel Series LC600 or in a combined Fire/Extinguishing Control Panel Series BC600. The required parameters are set by means of PARSOFT. The functions of the extinguishing control are specifically adapted to the requirements of EN 12094-1. However, due to its high flexibility, the control panel can be used for the actuation of extinguishing systems with many different extinguishing agents.

In the network, the license is required in each sectional control panel that is used for the extinguishing control.

Cross-references	Page	Art.No.	Name Type
	52	218992T	Extinguish. Control Function in Series BC600 Panels, Description

218028 Extinguishing-Control 4-Area-Licence LC600-4LB

The extinguishing control panel license LC600-4LB corresponds to the license LC600-1LB, but it is suitable for the administration of up to 4 flooding zones.

218029 Extinguishing-Control 8-Area-Licence LC600-8LB

The extinguishing control panel license LC600-8LB corresponds to the license LC600-1LB, but it is suitable for the administration of up to 8 flooding zones.

218030 Extinguishing-Control 16-Area-Licence LC600-16LB

The extinguishing control panel license LC600-16LB corresponds to the license LC600-1LB, but it is suitable for the administration of up to 16 flooding zones.

218031 Extinguishing-Control 32-Area-Licence LC600-32LB

The extinguishing control panel license LC600-32LB corresponds to the license LC600-1LB, but it is suitable for the administration of up to 32 flooding zones.

218032 Extinguishing-Control 64-Area-Licence LC600-64LB

The extinguishing control panel license LC600-64LB corresponds to the license LC600-1LB, but it is suitable for the administration of up to 64 flooding zones.

218033 Extinguishing-Control 128-Area-Licence LC600-128LB

The extinguishing control panel license LC600-128LB corresponds to the license LC600-1LB, but it is suitable for the administration of up to 128 flooding zones.

226013 Fire/Extinguishing Control Panel BC600-1L/LTF/EXT

The combined Fire/Extinguishing Control Panel BC600-1L/LTF/EXT allows you to actuate one flooding zone of a gas extinguishing system according to EN 12094-1, or up to 32 flooding zones without considering EN 12094-1.

The combined control panel consists of the basic unit BC600-1L/LTF and the following components that have been installed into it.

- Relay Module RL608-1
- Input/Output Interface MEA644-1,
- Options circuit with the license LC600-1LB for the actuation and monitoring of one flooding zone.

The features and functions are listed in the descriptions of the Fire Detection Control Panel BC600-1L/LTF, the Relay Module RL608-1 and the Input/Output Interface MEA644-1.

Cross-references	Page	Art.No.	Name Type
	53	218027	Extinguishing-Control 1-Area-Licence LC600-1LB
	10	211407	Fire Detection Control Panel BC600-1L/LTF
	20	211141	Input/Output Interface MEA644-1
	22	211143	Relay Module RL608-1
	2	211999T	Series BC600, Description
	33	211373	Surface Mounting Frame AMR600-1

210223 Fire/Extinguishing Control Panel BC06-1EXT/INT1

The combined Fire/Extinguishing Control Panel BC06-1EXT is a compact control panel for small fire detection and extinguishing systems with one flooding zone. The control panel fulfils all mandatory functions and the most important options of EN 12094-1. It was tested, according to the Construction Products Directive CPD, for compliance with the European Standards EN 54-2, EN 54-4 and EN 12094-1 and is certified.

The control panel is integrated in a wall-mount cabinet. The cabinet consists of a powder coated steel sheet base and a removable plastic cabinet cover. In the basic version, the control panel contains 4 conventional detector zones for the connection of fire, fault and condition detectors, 2 freely parameterisable inputs, two independently monitored siren outputs as well as 2 relay outputs.

Furthermore, the wall-mount cabinet can accommodate an optional componentry (Relay Module RL58-1 or RL58-2, Siren Connection Module SZ58-3, etc.) as well as stand-by batteries 2 × 12V/max. 7Ah. Enclosed with the control panel is a documentation in English language.

The integrated extinguishing module provides inputs and outputs for the actuation and monitoring of the devices of an extinguishing system:

- Inputs for activation devices (for manual activation of the extinguishing system), for emergency hold devices (for delaying the flooding process) or for emergency abort devices (for aborting the flooding process)
- Input for fault detectors (e.g., monitoring the pressure of the extinguishing agent)
- Inputs for a disable device (for displaying the mechanical blocking of the extinguishing agent's pipe network), for a flooding switch (for displaying the flow of the exinguishing agent) and for switching into the manual only mode
- Outputs for signalling devices (e.g., sirens, warning signs) to display the activated condition and the released condition
- Extinguishing output for the line-monitored connection of the activation device for the extinguishing agent (e.g., solenoid valve)
- 8 open-collector outputs which output the conditions of the extinguishing module for further control tasks that may be required

The system-specific parameterisation of the control panel can be directly accomplished via the keypad of the integrated display and operating field without the requirement of any additional support. During commissioning of the extinguishing control, the functions of the extinguishing system, the combinations of the detector zone(s) for activation of the extinguishing output and the delay times for the sequence of the flooding process are parameterised depending on the used exinguishing agent (gas, water, etc.) as well as according to the country-specific regulations. The practical factory settings allow easy and time-saving commissioning of the fire/extinguishing control panel.

Essential features

- Parameterisable detector zones for manual call points, automatic fire detectors with or without alarm verification, fault detectors with or without self-resetting
- With the help of the optional MCP Coding Module MCM1-1, alarms from automatic detectors and from manual call points, which are both connected to the same detector line, can be distinguished by the Fire Detection Control Panel Series BC06
- The type of line terminator (end-of-line resistor or end-of-line capacitor) can be selected via parameterisation
- Independent indication of activation, fault and disablement of the alarming devices and joint operation by means of one button
- Summary LED indicators for information about all current events
- 4 LED pairs are automatically assigned to parameterised zones and display the activation, disablement and fault condition of the zones
- 12 light emitting diodes indicate the status messages of the extinguishing module
- All light emitting diodes can be labelled individually with labelling strips, which are inserted behind the front foil
- Event memory for the last 50 events in chronological order, to be output via the serial interface
- 2 dry contact outputs. These outputs are pre-set in the factory settings according to EN 54 standards (summary alarm and summary fault)

- 16 open-collector outputs which automatically signal the conditions of the zones, the common fault message, the common disablement condition of the zones as well as the conditions of the extinguishing module
- 'Panel reset' button for common reset of all current alarms
- 3 authorisation levels for operation and parameterisation, secured by numeric codes
- One mounting position for a Serial Interface Module SIM06-1, for connection of a serial protocol printer
- Control panel case provides space for accommodating stand-by batteries 2 × 12V/ max. 7Ah

Specifications

Mains voltage	230VAC +10/-20%, 47...63Hz
Connection power	75VA
Output voltage	27.6VDC
Output current of power supply	max. 2.3A
Output current siren outputs	
Output 1	max. 1A
Output 2	max. 0.5A
(the sum of the output currents of the two siren outputs must not exceed 1A)	
Output current exting. output	max. 1A
Output current activated condition output/signal output	max. 0.5A per output
Current consumption at 24V (without optional modules)	typ. 80mA (end-of-line resistor 5.6kOhm) typ. 65mA (end-of-line capacitor 47µF)
Line voltage	typ. 20V (end-of-line resistor 5.6kOhm) typ. 23V (end-of-line capacitor 47µF)
Line current	typ. 3.7mA (end-of-line resistor 5.6kOhm) typ. 0mA (end-of-line capacitor 47µF)
Line termination	5.6kOhm or 47µF
Line resistance	max. 50 Ohm per core
Ambient temperature	-5°C to +50°C
Relative humidity	max. 95% (no condensation)
Protection class	IP30
Dimensions W × H × D	330 × 330 × 90 (mm)
Colour	grey white, RAL 9002
Weight without batteries	approx. 3kg
Approvals	0786-CPD-20808

Cross-references	Page	Art.No.	Name Type
	50	249096	Manual Call Point Coding Module MCM1-1
	86	222004	Relay Module RL58-1
	86	222010	Relay Module RL58-2
	50	210215	Serial Interface Module SIM06-1
	85	223026	Siren Connection Module SZ58-3

210220 Fire/Extinguishing Control Panel BC06-1EXT/D1

Functions, specifications and cross-references are equal to the Fire/Extinguishing Control Panel BC06-1EXT/INT1 but the manual comes in German language.

210226 Fire/Extinguishing Control Panel BC06-1EXT/S1

The functions, specifications and cross-references of the Swedish version of the Fire/Extinguishing Control Panel BC06-1EXT correspond to those of the Fire/Extinguishing Control Panel BC06-1EXT/INT1. In addition, a lock according to the standard SS 3654 is integrated in the operating field. By means of this lock, the fire brigade personnel can directly access authorization level 2.

Enclosed with the control panel is a documentation in Swedish language.

210224 Fire/Extinguishing Control Panel BC06-2EXT/INT1

Same design as Fire/Extinguishing Control Panel BC06-1EXT, but the display and operating field is equipped with an additional 4-digit, non-resettable alarm counter according to EN 54-2. Enclosed with the control panel is a documentation in English language.

210221 Fire/Extinguishing Control Panel BC06-2EXT/D1

Functions, specifications and cross-references are equal to the Fire/Extinguishing Control Panel BC06-2EXT/INT1 but the manual comes in German language.

222011 Extinguishing System Interface LSS1000-1

The componentry is used for the reactionless connection of an extinguishing system to a fire detection control panel. The componentry can be installed in Fire Detection Control Panels Series BC600, Series BC216, Series BC016 and BC06.

Features
- Extinguishing system control according to VdS specifications
- System-neutral design for all extinguishing systems
- Processing logic for the actuation and confirmation of the extinguishing system

Specifications

Operating voltage	20 to 31VDC
Current consumption at 24VDC	0mA (quiescent) 20mA (active)
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	70 × 45 × 20 (mm)
Weight	50g

249097 Line-Coupler Redundance Control LKR21-1

The line coupler LKR21-1 is used to interconnect two actuation outputs with negative monitoring to an actuation device (e.g., solenoid valve). As a result of this coupling, a redundant activation of the actuation equipment in accordance with EN 12094-1 is ensured. Alternatively, the line coupler can couple two independent power supplies for the redundant supply of an electrical load.

The condition of the two actuation inputs of the line coupler, which are connected with the redundant actuation outputs or power supplies, is indicated by one light emitting diode per input.

The line coupler is accommodated in a grey plastic housing and is designed for indoor surface mounting.

Specifications

Input voltage	20 - 30VDC
Current consumption (when used for coupling two outputs)	
	0mA (both inputs in normal condition)
	55mA (both inputs active)
Current consumption (when used for coupling two power supplies)	
	55mA (both inputs supplied with 24V)
Contact rating of the relay	6A/24VDC
Ambient temperature	-5°C to +60°C
Protection class	IP55
Dimensions W × H × D	150 × 100 × 55 (mm)
Colour	light grey, RAL 7035
Weight	approx. 180g
Approvals	VdS G218022 0786-CPR-21573

370601 NEW

Control Box for ZC with Module ASB70-1_D1

A flow detector (according to EN 12259-5 / CEA 4001) responds to the physical characteristic „flow of water“. By means of the control box ASB70-1/D1, a pump is actuated through an appropriately parameterised fire detection and/or extinguishing control panel, in order to test the flow of water via a bypass to the flow detector, thereby checking the functioning of the flow detector.

The signals representing the switching of the flow detector and the status of the mains voltage supply of the water pump are connected to the control box, and therefore can be displayed on and processed by the fire detection and/or extinguishing control panel.

Features
- Prepared for locally feeding the pump with mains power
- Terminals for water pump
- Terminals for loop and flow detector
- Integrated input/output module M221E, already wired to terminals
- Includes monitoring of mains voltage supply

Specifications

Operating voltage	
Mains voltage range	85…305VAC, 47…63Hz
Low voltage signal range	24VDC +/- 2.5%
Cable entries	variable on all sides
	M25/32 × 1.5, 1 piece
	M20/25 × 1.5, 3 pieces
	M16/20 × 1.5, 2 pieces
	M12/16 × 1.5, 8 pieces
Ambient temperature	-20° to +60°C (continuous operation, no icing)
Relative humidity	5 – 90% (no condensation)
Protection class of housing	max. IP66 (depending on threaded cable gland)
Dimensions W × H × D	180 × 130 × 85 (mm)
Weight	700g

370603 NEW

Control Box for ZC ASB70-2_D1

A flow detector (according to EN 12259-5 / CEA 4001) responds to the physical characteristic „flow of water“. By means of the control box ASB70-2/D1, a pump is manually actuated through a special test device in order to test the flow of water via a bypass to the flow detector, thereby checking the functioning of the flow detector. The switching of the flow detector and the status of the pump activation are displayed on the user interface of the test device.

Features
- Prepared for locally feeding the pump with mains power
- Terminals for water pump
- Terminals for test device and flow detector

Specifications

Operating voltage	
Mains voltage range	85…305VAC, 47…63Hz
Low voltage signal range	24VDC +/- 2.5%
Cable entries	variable on all sides
	M25/32 × 1.5, 1 piece
	M20/25 × 1.5, 3 pieces
	M16/20 × 1.5, 2 pieces
	M12/16 × 1.5, 8 pieces
Ambient temperature	-20° to +60°C (continuous operation, no icing)
Relative humidity	5 – 90% (no condensation)
Protection class of housing	max. IP66 (depending on threaded cable gland)
Dimensions W × H × D	180 × 130 × 85 (mm)
Weight	570g

Cross-references	Page	Art.No.	Name Type
	58	240717	Manual Call Point/Blue/3LED/Test HME/5015/94/57/00

240717 NEW

Manual Call Point/Blue/3LED/Test HME/5015/94/57/00

The manual call point in the blue aluminium die-cast design housing is provided with a dry change-over contact. In contrast to manual call points that are similar on the outside and have a breakable element, this special test device is equipped with a stainless steel front panel with a quick use guide printed on the inside.

The test device is activated by pressing the button after opening the door with a key.

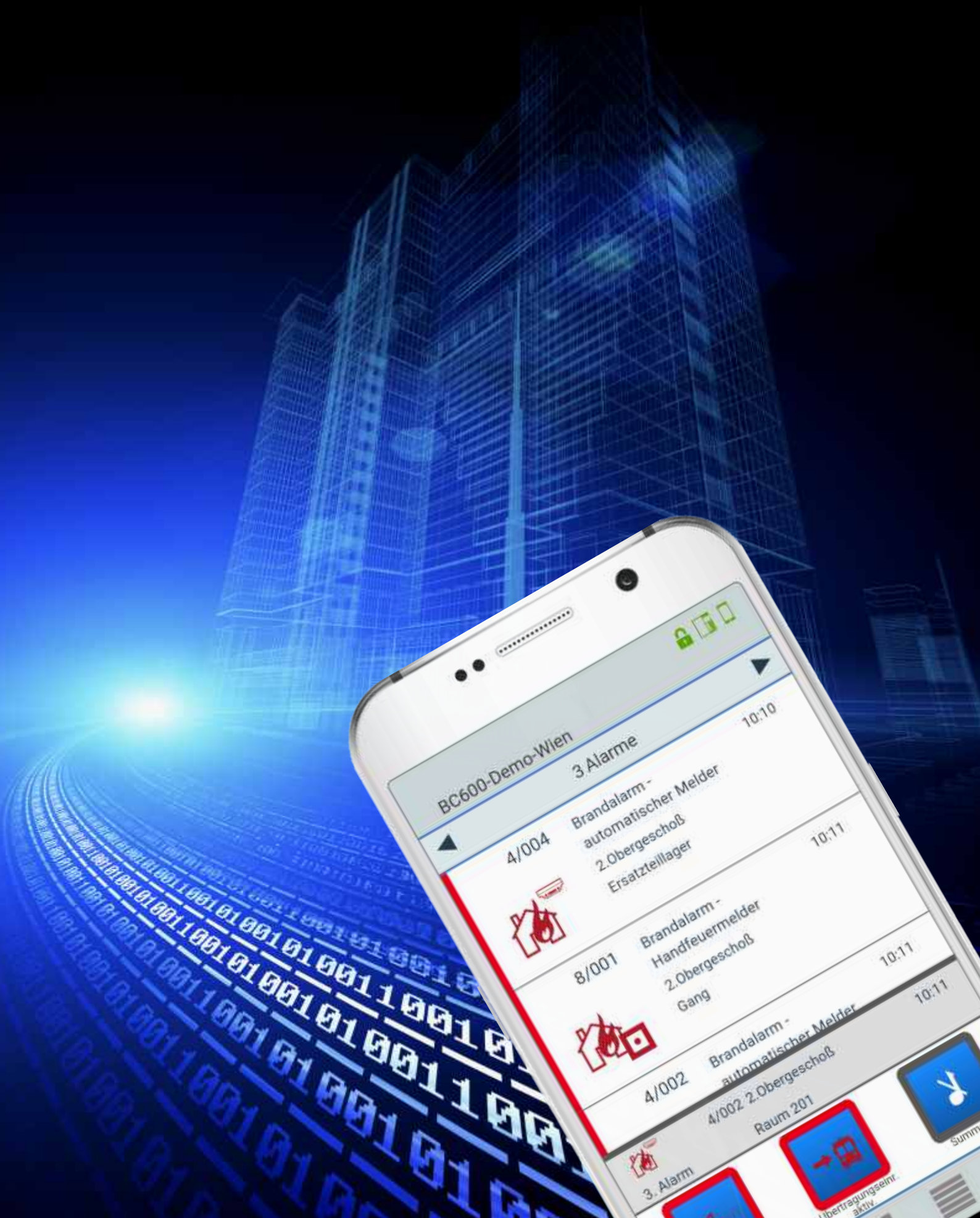
Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols
- Door label "PRÜFMELDER“, replaceable
- Red LED for the optical indication of the activated flow detector
- Yellow LED for the optical indication of the actuated pump
- Green LED for the optical indication of the operating condition
- Latching (default) or non-latching push button
- Stainless steel front panel with operating instructions on the back
- Detector housing can be opened with key SCHL-HFM/HM (included)
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54, or to IP65 through a factory upgrade
- Optional protective cover can provide additional mechanical protection

Specifications

LED actuation voltage	max. 25VAC or 30VDC
Contact rating	max. 2A/25VAC or 2A/60VDC
Ambient temperature	-20°C to +60°C (continuous operation, no icing) -25°C to +70°C (max. 12 hours)
Protection class	IP43 (without upgrade)
Dimensions W × H × D	126 × 126 × 35 (mm)
Colour	blue, similar to RAL 5015
Weight	approx. 420g

5 REmote ACcess Tool REACT



5

250999T Remote Access by Means of the REmote ACcess Tool, Description

By means of the „**RE**mote **AC**cess **T**ool REACT“, die Fire Detection Control Panels Series BC600 and Series BC216 can be operated remotely and all operating conditions can be displayed. Access is possible through a PC or mobile devices such as smartphone or tablet. The connection to the control panel is always handled via the REACT server that has been configured for this application and which decouples the communication. In this way, a direct data connection between the mobile device with the REACT application and the fire detection control panel is avoided for safety reasons.

The fire detection control panel must be connected to the local computer network or to the Internet via the IP interface. As an option, a mobile phone connection by means of an LTE module can also be used for this purpose. The encrypted data connection between the control panel and the REACT server is always established by the fire detection control panel.

A registered user can log into the REACT server using a user name and a password. If the user has access rights for several fire detection systems, they will be shown in the form of a list box. The remote access tool REACT is offered in four different license versions:

- **Basic version**: The simplest product version only offers a common indication of important system events - such as the number of alarms, faults or activated outputs.
- **Detailed view**: Like the Basic version; in addition, all events can be shown in detailed form - with time of the occurrence and the parameterised additional texts. The events are sorted and listed according to the type of event - alarms, faults, disablements, etc. That means the Detailed view shows the same information as the control panel.
- **Operation and „Push“**: Like the Detailed view; in addition, this product version allows operation of the fire detection control panel. Furthermore, system events that occur can be sent to the mobile device by means of „Push“ messages. In this way, the user is actively informed about important events. This license also enables the sending of SMS or e-mail messages.
- **Plan view**: Like Operation and "Push"; in addition, the system conditions of the detectors, actuations, etc., can be shown on a ground plan or on a fire brigade route map. That means the user has the greatest possible overview of the current situation. The system can also be operated.

For highest demands on the protection against unauthorized access, the remote access can be even further restricted by assigning individual additional options. For example, the operation of the system can be made dependent on a time window that has been defined before, the occurrence of certain events, the geographical proximity to the fire detection control panel based on the evaluation of the GPS data or the connection to the customer's WLAN. In this way, the requirement of ÖNORM F 3000 as well as F 3003 that stipulates that the authorization for operation may only be gained in a local area - usually the monitored object - that has been defined before, is also fulfilled.

In order to be able to reconstruct every access to the fire detection system and attribute it to the user, all activities on the REACT server are logged. For example, all successful and incorrect logins, all queries and all operations are saved on the server with time and detailed information. With this information, it is always possible to reconstruct which users have carried out queries or operations.

Cross-references	Page	Art.No.	Name Type
	62	420070	Licence REACT Detail LIC-R-DET
	62	420072	Licence REACT Map View LIC-R-MAP
	62	420071	Licence REACT Operation and Push LIC-R-OPP

223080 LAN Module/BC216/REACT LAN/BC216/REACT-1

By means of the LAN module, a Fire Detection Control Panel Series BC216's data that is transmitted via the Serial Interface Module SIM216-1 is converted into an IP protocol. In this way, a remote access to the fire detection control panel by means of the "REmote ACcess Tool" REACT can be realised. The remote access allows the indication of the system conditions, automatic notification when events occur, as well as remote operation of the fire detection control panel.

The system administrator integrates the LAN module into the customer's LAN. The module establishes a connection to the REACT server on its own. The SSL protocol is used for encryption, and the REACT server is authenticated with a trustworthy server certificate. If the connection is interrupted, the module automatically attempts to establish it again. For reasons of safety, the remote access to the fire detection control panel from a PC or a mobile device is only possible via the REACT server.

Features
- Prepared for DHCP
- Status LED
- Incl. prefabricated data cable to the SIM216-1, length 1.8m
- Incl. plug-in power adapter, cable length 1.8m

Specifications

Power supply	via plug-in power adapter or control panel
Supply voltage	9 - 30VDC (when supplied via control panel)
Current consumption at 24V	68mA
Ambient temperature	-40°C to +85°C
Relative humidity	max. 95% (no condensation)
Dimensions L × W × H	90 × 64 × 23 (mm, without mounting straps)
Protection class	IP30
Weight	200g

Cross-references	Page	Art.No.	Name Type
	60	250999T	Remote Access by Means of the REmote ACcess Tool, Description
	44	214025	Serial Interface Module SIM216-1

223083 LTE Module/REACT LTE/REACT-2

By means of the LTE module, the REACT interface of a Fire Detection Control Panel Series BC600 or BC216 is linked to a mobile radio network. In this way, a remote access to the fire detection control panel by means of the "REmote ACcess Tool" REACT can be realised. This remote access is secured by state-of-the-art encryption methods. The LTE module is needed if no LAN connection is available. For the connection to Fire Detection Control Panels Series BC600, the LAN socket of the module is connected to the LAN interface of the ZTB600, using a patch cable. For the connection to Fire Detection Control Panels Series BC216, an LAN Module LAN/BC216/REACT is needed in addition.

The end user has to obtain the SIM card for the mobile data connection from the local mobile phone provider. The SIM card must have a data volume of at least 1GB (gigabyte) per month. After inserting the SIM card, the LTE module must be configured. If the mobile phone connection is interrupted, the module automatically attempts to establish it again. If no LTE network is available, communication according to the UMTS or GSM standard is also possible.

Features
- Download rate up to 150MBit/s
- Upload rate up to 50MBit/s
- Status LEDs for power, WLAN and LTE signal strength
- Incl. base for setting the LTE module up, and wall holder for mounting on an even surface
- Incl. plug-in power adaptor and prefabricated cable for powering the LTE module through the fire detection control panel

Specifications

Supply voltage	11 - 30VDC
Power consumption	typ. 5W
Current consumption at 27V	typ. 100mA
Mobile phone bands LTE (4G)	800MHz, 900MHz, 1800MHz, 1900MHz, 2100MHz, 2600MHz
Mobile phone bands UMTS (3G)	850MHz, 900MHz, 2100MHz
Mobile phone bands GSM (2G)	850MHz, 900MHz, 1800MHz, 1900MHz
Ambient temperature	-40°C to +60°C
Dimensions W × H × D	85 × 185 × 30 (mm, without base)
Weight	260g

Cross-references	Page	Art.No.	Name Type
	60	223080	LAN Module/BC216/REACT LAN/BC216/REACT-1
	61	223083	LTE Module/REACT LTE/REACT-2
	60	250999T	Remote Access by Means of the REmote ACcess Tool, Description

5

223085 NEW

LTE Aerial Set 10 Meter LTE-ANT-SET-10M

The LTE aerial set improves the reception quality of an LTE Module LTE/REACT-2 if the module has been installed in a place with poor mobile radio reception. The aerial can be mounted up to 10 meters away from the module.

The aerial set consists of the LTE aerial, 2 aerial cables with a length of 10 meters and the required adapter cables.

Specifications (aerial)

Protection class	IP30
Dimensions W × H × D	128 × 128 × 30 (mm)
Weight	170g

420070

Licence REACT Detail LIC-R-DET

With the license "Detail" of the remote access system REACT, all events of a Fire Detection Control Panel Series BC600 or BC216 can be indicated on a mobile phone, tablet or PC. Every event is shown with the time of the occurrence, the parameterised additional texts, the logic number and a graphic symbol.

420071

Licence REACT Operation and Push LIC-R-OPP

The license "Operation and push" of the remote access system REACT offers the following functions:

- All events of a Fire Detection Control Panel Series BC600 or BC216 can be indicated on a mobile phone, tablet or PC. Every event is shown with the time of the occurrence, the parameterised additional texts, the logic number and a graphic symbol.
- The zones, elements, actuations and other system parts can be operated through a mobile device or PC if this has been enabled for the respective user.
- If system events occur, a push notification can optionally be sent to the mobile device. In this way, the user is informed about important events, even if the REACT APP is not running at the moment.

420072

Licence REACT Map View LIC-R-MAP

The license "Plan view" of the remote access system REACT offers the same functions as the license "Operation and push". In addition, the detectors and actuations can be graphically indicated on a ground plan or on a fire brigade route map.

If an event occurs, the detector or actuation is graphically highlighted. As a result, the user can quickly locate the system part concerned. In the plan view, direct operation is possible too - by tapping the detector or system part, provided that this has been enabled for the respective user.

420075

SMS fee REACT SMS-REACT

The SMS fee covers the cost incurred as a result of sending SMS messages to the users of the remote access system REACT. The SMS fee can only be paid in the webshop, either by topping up a credit, or by settling a monthly invoice by credit card.

6 Alarm Monitoring Systems

218041 Alarm-Monitoring-Software-Licence ALVIS/F

The alarm monitoring software license is required for using an operation control system for alarm reporting systems. The software allows for a concise depiction of the ground plans as well as detailed views of the facility.

The alarm monitoring software is a modular system with a modern user interface and can be configured according to your individual needs. The system allows for a comfortable uniform operation and control of the alarm reporting system. Depending on the configuration of the user interface, overview screens and photos of the facility can be displayed at any time, thus providing an optimal and quick overview in any situation.

Detail screens inform about all important events and report them chronologically as well as by type. Each event triggered by a detector can be located with the respective detector on the corresponding ground plan by a simple mouse click. Depending on the authorisation level, operations regarding the fire detection system (disablement of detectors, operating units, actuations, etc.) can be carried out for every data point. Any status change in the system implicates also that the colour of the respective symbol changes. Additional functions such as display of users logged on, the event-dependent display of screen windows, event-driven time programs, catalogue of measures, etc., can be defined if required.

By using sample symbols, the parameters for similar functions can be set easily and quickly during a new installation as well as in the course of enhancements or modifications.

Specifications

Operating system	at least Windows 2000 Professional
Minimum requirements PC	Pentium, 512MB RAM, RS232 interface for the connection of the fire detection control panel, mouse, keyboard, USB interface for Dongle, 1GB HDD, graphics card for 2 monitors

218048 Alarm-Monitoring-Interface-Licence ALVIS-BC600

The alarm monitoring interface license allows operation of the DDE server, which controls the event-driven communication between the operation control system and the Fire Detection Control Panel Series BC600. The DDE server runs as independent task in parallel to the visualisation user interface of the alarm monitoring system.

7 Cabinets and Accessories

212046

Cabinet 19"/15HU GEH19/15/IP55/SIT

The 19" wall-mount cabinet in robust sheet steel design consists of wall part, designer glazed door and swivel part with a height of 15 rack units. The wall-mount cabinet serves for housing equipment in 19" design, e.g., a Fire Detection Control Panel BC600-E as well as Series BC216 in slide-in technology.

Note: To allow for unhindered opening of the swivel part, an empty space of at least 60cm is needed on the left of the cabinet.

Features
- Wall part with 2 cable gland plates
- Swivel part with mounting profiles
- Designer glazed door with comfort handle and two-step latching including a 3524 E lock

Specifications

Material	
Wall part and swivel part	1.5mm sheet steel
Mounting plate	2.5mm galvanised sheet steel
Viewing window	safety glass ESG, 3mm
Protection class	IP55
Dimensions W × H × D	600 × 746 × 473 (mm)
Max. installation depth	420mm
Colour	light grey, RAL 7035
Weight	approx. 49kg

212023

Cabinet 19"/36HU with Transparent Door GEH19/36-SIT

The 19" floor type cabinet in robust sheet steel design contains an integrated pivoting frame of 36 rack units and a glazed door with 3mm safety glass. The 19" cabinet is used for installing devices in 19" design, e.g., a Fire Detection Control Panel BC600-E or Series BC216.

Features
- Pivoting frame of 36 rack units and an aperture angle of 180°
- Side walls, back wall and top cover removable
- Cable entry on the top cover with high density brush strip
- Mounting rails for additional components
- Side-by-side mounting with or without side wall
- Glazed door with 3mm safety glass
- Comfort handle for profile half cylinder
- Mounting plate 36RU
- Base with a height of 200mm

Specifications

Protection class	IP30
Dimensions W × H × D	800 × 2000 × 500 (mm, with base)
Colour	light grey, RAL 7035
Weight	approx. 140kg

Cross-references	Page	Art.No.	Name Type
	68	212052	Cabinet Light LED LED-GEH19/X
	68	212053	Dummy Cover 19"/3HUplus AD8C-3H/PLUS
	35	211996T	Fire Detection Control Panel BC600-E, Description
	69	212045	Kit for Battery Bracket VX-8617-020/TS-8612-080
	69	212044	Wiring Plan Pocket SZ-2514-000

212049 Cabinet 19"/36HU with Steel Door GEH19/36-E

The 19" floor type cabinet in robust sheet steel design is structured in the same way as the floor type cabinet GEH19/36-SIT, but the GEH19/36-E has a steel door instead of the glazed door and no pivoting frame. In the 19" cabinet, equipment such as components of a fire detection control panel in 19" design as well as stand-by batteries can be installed..

212047 Cabinet 19"/40HU with Transparent Door GEH19/40-SIT

The 19" floor type cabinet in robust sheet steel design is structured in the same way as the floor type cabinet GEH19/36-SIT, but the GEH19/40-SIT contains a mounting plate for a height of 40 rack units.

Specifications (for further specifications, see GEH19/36-SIT)

Dimensions W × H × D	800 × 2200 × 500 (mm)
Weight	approx. 150kg

212048 Cabinet 19"/45HU with Transparent Door GEH19/45-SIT

The 19" floor type cabinet in robust sheet steel design is structured in the same way as the floor type cabinet GEH19/36-SIT, but the GEH19/45-SIT contains a mounting plate for a height of 45 rack units.

Specifications (for further specifications, see GEH19/36-SIT)

Dimensions W × H × D	800 × 2400 × 600 (mm)
Weight	approx. 170kg

Cross-references	Page	Art.No.	Name Type
	68	212053	Dummy Cover 19"/3HUplus AD8C-3H/PLUS

212034 Module Carrier 19"/3HU MPL17/3

The 19" mounting plate with a height of 3 rack units is used for 19" cabinets and provides mounting holes in standardised LST grid for the mounting of auxiliary modules. The module carrier can hold, for instance, 17 Isolator Modules ISM1-x, 4 Relay Modules RL58-1 or RL58-2, 4 Siren Connection Modules SZ58-2 or SZ58-3, or 2 Multi Modules MEA244-1/E, respectively.

Specifications

Dimensions W × H × D	478 × 133 (3 rack units) × 10 (mm)
Material	zinc coated steel sheet
Weight	approx. 400g

Cross-references	Page	Art.No.	Name Type
	86	222004	Relay Module RL58-1
	86	222010	Relay Module RL58-2
	85	223026	Siren Connection Module SZ58-3

212030 Dummy Cover 19"/2HU AD8C-2H

The powder coated 19" front panel with a height of 2 rack units is used for covering non-populated pivoting frame areas of a 19" cabinet.

Specifications

Dimensions W × H × D	478 × 89 (2 rack units) × 3 (mm)
Colour	grey white, RAL 9002
Weight	approx. 350g

212029 Dummy Cover 19"/3HU AD8C-3H

The powder coated 19" front panel with a height of 3 rack units is used for covering non-populated pivoting frame areas of a 19" cabinet.

Specifications

Dimensions W × H × D	478 × 133 (3 rack units) × 3 (mm)
Colour	grey white, RAL 9002
Weight	approx. 500g

212053 NEW Dummy Cover 19"/3HUplus AD8C-3H/PLUS

The powder coated 19" front panel is needed for covering unpopulated pivoting frame areas of a 19" switch cabinet with a transparent door and a height of 36 or 45 rack units. Since it is somewhat higher than the Dummy Cover 3HU, the remaining gap at the lower and upper edge of the pivoting frame is also covered.

Two dummy covers are needed per pivoting frame.

Specifications

Dimensions W × H × D	478 × 149 × 3 (mm)
Colour	grey white, RAL 9002
Weight	approx. 560g

Cross-references	Page	Art.No.	Name Type
	66	212023	Cabinet 19"/36HU with Transparent Door GEH19/36-SIT
	67	212048	Cabinet 19"/45HU with Transparent Door GEH19/45-SIT

212033 Dummy Cover 19"/6HU AD8C-6H

The powder coated 19" front panel with a height of 6 rack units is used for covering non-populated pivoting frame areas of a 19" cabinet.

Specifications

Dimensions W × H × D	478 × 266 (6 rack units) × 15 (mm)
Mounting thickn. of front panel	3mm
Colour	grey white, RAL 9002
Weight	approx. 800g

212052 Cabinet Light LED LED-GEH19/X

The light is intended for installation inside a switch cabinet. Especially bright white light emitting diodes are used as lamp. The switch and an earthed safety socket (for service equipment, electric tools or the like) are integrated into the light. For the connection of the light and for connecting the supply voltage to additional lights, a GST18 connector and a GST18 socket have been integrated. The connection cable is included in the delivery.

Specifications

Mains voltage	100 - 240VAC
Connection power	11W
Luminous flux	900Lm
Ambient temperature	-20°C to +55°C
Protection class	IP20
Dimensions L × W × H	437 × 80 × 44 (mm)
Colour housing	anthracite grey, RAL 7016
Weight	460g

212044 Wiring Plan Pocket SZ-2514-000

By means of the self-adhesive attachment strips, the circuit diagram pocket is stuck onto the inner surfaces of the switch cabinet. The pocket, which is open at the top, is designed to accommodate the wiring plans or building plans in the format A4.

Specifications

Material	Polystyrol
Dimensions W × H × D	254 × 228 × 17 (mm)
Weight	140g

212045 Kit for Battery Bracket VX-8617-020/TS-8612-080

The material set of system profiles is used to construct a battery bracket in a 19" switch cabinet with a depth of 500mm and a width of 800mm. The set consists of two side profiles and two horizontal base profiles, the necessary mounting screws as well as two hook-and-loop tapes for fixing the batteries in position.

Specifications

Material	zinc coated sheet steel
Dimensions	
Side profiles L × W × H	440 × 17 × 73 (mm)
Base profiles L × W × H	790 × 17 × 73 (mm)
Weight	2.7kg

212647 NEW Fire Protection Housing/FDCP/E30 EHL31/04224-MEP

The fire protection housing is an empty housing for wall mounting, with classification F-30A, and allows installation of Fire Detection Control Panels BC600-1x and auxiliary power units in the housing NTG624-1, according to the requirements of the MLAR or the LAR of the various states. The function of the integrated fire detection control panel and its activation devices or of the auxiliary power units is maintained for at least 30 minutes if flames are applied from the outside.

The functional integrity of the fire detection control panel and of the auxiliary power unit in the fire protection housing has been proven by a joint fire test carried out by an accredited test lab.

Features

- Empty housing with high mechanical stability
- Integrated ventilation system, consisting of fan and smoke detector, installed and fully wired for connection (230VAC)
- Seal system closes ventilation opening if smoke is detected
- Stainless steel hinges
- Door can be unhinged to reduce the weight for transport and installation
- Closed door does not protrude from basic frame, aperture angle approx. 180°
- Two-point door latch actuated via pivoted lever with double-bit cylinder (can be replaced with a cylinder from the building's set of dedicated locks)
- Full perimeter fire protection seal, automatically foaming in the event of fire
- Cable entry at the top and bottom, for inserting bundles
- Mounting rail for mounting of the device carriers or mounting plate

Specifications

Functional integrity	30 minutes according to DIN 4102
Dimensions	
External dimensions W × H × D	648 × 748 × 349 (mm)
Internal dimensions W × H × D	504 × 604 × 240 (mm)
Power dissipation	max. 232W
Colour	light grey, RAL 7035
Weight	approx. 85kg, without installations
Approval	Z-86.1-67

212648 NEW

Fire Protection Housing/FDCP/E30 EHL31/06334-MEP

The fire protection housing is an empty housing for wall mounting, with classification F-30A, and allows installation of Fire Detection Control Panels BC600-8 and BC600-16, according to the requirements of the MLAR or the LAR of the various states. The function of the integrated fire detection control panel and its activation devices or of the auxiliary power units is maintained for at least 30 minutes if flames are applied from the outside.

The functional integrity of the fire detection control panels in the fire protection housing has been proven by a joint fire test carried out by an accredited test lab.

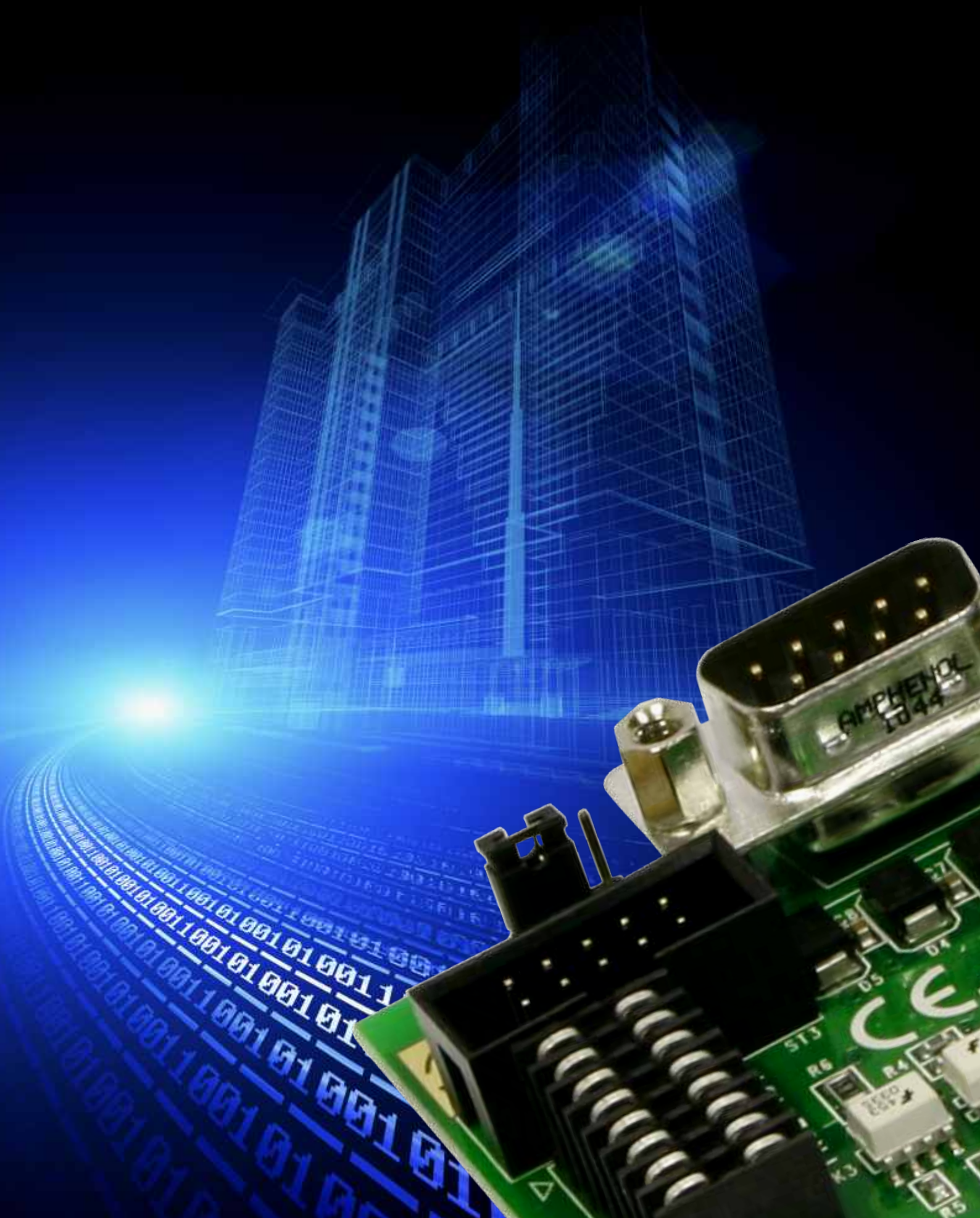
Features

- Empty housing with high mechanical stability
- Integrated ventilation system, consisting of fan and smoke detector, installed and fully wired for connection (230VAC)
- Seal system closes ventilation opening if smoke is detected
- Stainless steel hinges
- Door can be unhinged to reduce the weight for transport and installation
- Closed door does not protrude from basic frame, aperture angle approx. 180°
- Two-point door latch actuated via pivoted lever with double-bit cylinder (can be replaced with a cylinder from the building's set of dedicated locks)
- Full perimeter fire protection seal, automatically foaming in the event of fire
- Cable entry at the top and bottom, for inserting bundles
- Mounting rail for mounting of the device carriers or mounting plate

Specifications

Functional integrity	30 minutes according to DIN 4102
Dimensions	
External dimensions W × H × D	898 × 1048 × 449 (mm)
Internal dimensions W × H × D	754 × 904 × 340 (mm)
Power dissipation	max. 287W
Colour	light grey, RAL 7035
Weight	approx. 167kg, without installations
Approval	Z-86.1-67

8 Interfaces



219009 USB to Serial Converter US232R-100

The converter is used for connecting the USB interface of a PC to the serial interface of a fire detection control panel.

Specifications

Cable length	1m
Connection type	USB connector type A, 9-pole D-SUB connector

Cross-references	Page	Art.No.	Name	Type
	44	214025	Serial Interface Module SIM216-1	

219016 Programming Cable USB A-B 3 Meter PK-USB-A-B-3M

The programming cable is used for connecting the USB interface of a PC to the USB interface of a fire detection control panel.

Specifications

Cable length	3m
Connection type	USB connector type A, USB connector type B

219010 Programming Cable BC216/RS232 PK216-1

The cable is used for connecting a COM interface of a PC with the serial interface of a Fire Detection Control Panel Series BC600, Series BC216 or Series BC016.

Specifications

Cable length	1.8m
Connection type	9-pole D-SUB socket on both sides

223042 SMS Transmitter Module GSM-SCOUT

The SMS module GSM-SCOUT is used for the event-triggered notification of a receiver by means of an SMS message. The module is equipped with 4 independent inputs for connecting alarm or fault contacts of a danger detection system. When the input is activated through the dry contact, an SMS message is sent to the telephone number that has been stored for the respective input. In this way, the receiver can be informed, for example, about a device fault or an alarm event.

An additional arming input can be used for the delayed enablement of the SMS transmission function. Arming can also be achieved via SMS.

The telephone numbers and, as an option, the clear texts that are to be sent, are programmed for each message input by means of a mobile phone and are stored on the SIM card. After completing the programming, the SIM card is inserted into the GSM module.

A miniature antenna and a user manual are included with the module. To operate the transmitter module, a SIM card which has been registered by a mobile network operator is needed.

Features

- Parameterisation via mobile phone
- Four message inputs, condition indicated by LEDs
- LEDs indicate the conditions "Armed", "GSM reception" and "SIM card read successfully"
- Special functions such as "Transmission of signal quality" can be activated optionally
- Setting of SMS language - German, English, French, Spanish

Specifications

Operating voltage	11 - 35VDC
Current consumption at 24V	typ. 65mA
GSM modem	850 / 900 / 1800 / 1950MHz
Antenna connection	MMCX socket
Ambient temperature	-30°C to +60°C
Relative humidity	max. 70% (no condensation)
Protection class	IP31
Dimensions L × W × H	100 × 90 × 33 (mm)
Weight	92g

223043

SMS Transmitter/Receiver Module GSM-SCOUT/AKTIV

The SMS module GSM-SCOUT/AKTIV is used for the event-triggered notification of a receiver as well as for remote-controlling of equipment by means of an SMS message. The module is equipped with 4 independent inputs for connecting alarm or fault contacts of a danger detection system. When the input is activated through the dry contact, an SMS message is sent to the telephone number that has been stored for the respective input. In this way, the receiver can be informed, for example, about a device fault or an alarm event.

An additional arming input can be used for the delayed enablement of the SMS transmission function. Arming can also be achieved via SMS.

The two integrated relay outputs can be switched through SMS messages. As a result, the user can remote-control any system functions or devices by means of a mobile phone.

The telephone numbers and, as an option, the clear texts that are to be sent, are programmed for each message input by means of a mobile phone and are stored on the SIM card. After completing the programming, the SIM card is inserted into the GSM module.

A miniature antenna and a user manual are included with the module. To operate the transmitter/receiver module, a SIM card which has been registered by a mobile network operator is needed.

Features
- Parameterisation via mobile phone
- Four message inputs, condition indicated by LEDs
- Two actuation outputs, dry change-over contact
- LEDs indicate the conditions "Armed", "GSM reception" and "SIM card read successfully"
- Special functions such as "Transmission of signal quality" or "Acknowledgement of received SMS" can be activated optionally
- Setting of SMS language - German, English, French, Spanish

Specifications

Operating voltage	11 - 35VDC
Current consumption at 24V	typ. 65mA
Contact rating of outputs	max. 24VDC/1A
GSM modem	850 / 900 / 1800 / 1950MHz
Antenna connection	MMCX socket
Ambient temperature	-30°C to +60°C
Relative humidity	max. 70% (no condensation)
Protection class	IP31
Dimensions L × W × H	100 × 90 × 33 (mm)
Weight	98g

223045

Data Logger Event Memory DLOG-1

The Data Logger DLOG-1 is used for storing all of the event data, which is output via the serial interface of a fire detection control panel, on an SD memory card. For this, the data logger is connected with the serial interface of the fire detection control panel and the necessary parameterisation of the interface is carried out at the control panel. The data storage is started automatically when the supply voltage is applied.

To read out the event data, the memory card is removed from the data logger and inserted into the memory card reader of a PC or into the memory card slot of a notebook. The event data is stored in the "logdata.txt" file in the ASCII format, with fixed column width and without separator and can be opened and processed using any word processing program.

Features
- Status LED indicates the data storage
- Up to 4 million events on a 1GB memory card
- Memory card, cable for connection of the power supply and two different data cables included in the delivery

Specifications

Operating voltage	6 to 32VDC
Current consumption at 24V	typ. 65mA
Storage device	SD memory card
Length of power supply cable	approx. 1.8m
Length of standard data cable	approx. 3m
Length of flat data cable	approx. 0.8m
Ambient temperature	-5°C to +60°C
Dimensions L × W × H	72 × 51 × 24 (mm)
Weight	80g

Cross-references	Page	Art.No.	Name Type
	44	214025	Serial Interface Module SIM216-1
	25	211119	Serial Interface SIF601-1

214027 Network Cable SU=100m NWK2-1

The network cable – 4×2×AWG24/1, at least F/UTP or S/FTP, twisted pair – is used for the connection of the network members of a Fire Detection Control Panel BCnet600 or BCnet216.

Specifications

Loop resistance	max. 19Ohm/100m at 20°C
Operating capacitance	4.9nF/100m at 1kHz
Capacitance interference	max. 59pF at 1MHz to 200MHz
Impedance	100 ± 15Ohm at 1kHz
Attenuation (50MHz)	max. 14dB/100m
Outer coat	FR-PVC/FR-I,SØH
Min. bend radius	52mm
Max. tensile strength	25kg
Core diameter	at least AWG24 (equals 0.205mm²)
Shield	F/UTP = foil shield over all wire pairs
Weight	51kg/km
Temperature range	-20°C to +60°C
Colour	grey

Cross-references	Page	Art.No.	Name Type
	12	211997T	Fire Detection Control Panel BCnet600, Description

223079 Long-Distance Modem BCnet600 ADA-M140

The Long-Distance Modem ADA-M140 allows you to extend the maximum distance between two sectional control panels of a Fire Detection Control Panel BCnet600 or BCnet216 to up to 4km.

The sectional control panels are connected through a telephone cable with at least 2 free wire pairs. Every sectional control panel requires one Long-Distance Modem ADA-M140 each on the incoming side as well as on the outgoing side.

In this way, you can also bridge only individual sections of the high-security network, if required. The use of the long-distance modem is furthermore recommended if no cabling with the minimum requirements of the Network Cable NWK2-1 can be provided by the customer.

Features

- Status LEDs indicate the data flow and the supply voltage
- Automatic adaptation to the transfer rate of the net600 or GSSnet
- Easy DIN rail mounting
- Cables are connected to screw terminals

Specifications

Supply voltage	10 - 30VDC
Current consumption at 24V	typ. 125mA
Line length	max. 4km (38400 baud)
Number of wires required	4
Ambient temperature	-25°C to +50°C
Relative humidity	max. 95% (no condensation)
Protection class	IP20
Dimensions W × H × D	88 × 90 × 62 (mm)
Weight	100g

Cross-references	Page	Art.No.	Name Type
	12	211997T	Fire Detection Control Panel BCnet600, Description

223032

Gateway Multimode Fibre-BCnet LWL-MM-2

The gateway LWL-MM-2 interconnects sectional control panels of a Fire Detection Control Panel BCnet600 or BCnet216 via multimode optical fibres. An optical fibre cable with at least 2 free multimode fibres is needed for the connection. If required, only specific sections of the high security network net600 or GSSnet can be interconnected in this way.

Each sectional control panel requires one gateway each for in- and output. The ends of multimode fibres have to be fitted with an 'ST' connector (not provided) for optical fibres.

Features
- Status LED indicators to display voltage supply, data transfer and transmission quality
- All parameters to be set via a DIL switch
- Small dimensions
- To be mounted on a DIN rail

Specifications

Operating voltage	18 - 30VDC
Current consumption at 24V	typ. 90mA
Length of optical fibre	max. 4km with 62.5/125µm multimode fibre max. 3km with 50/125µm multimode fibre
Type of fibre	50/125µm or 62.5/125µm / 1300nm
Optical budget	8dB
Ambient temperature	-10°C to +55°C
Dimensions W × H × D	61 × 115 × 113 (mm)
Weight	500g

Cross-references	Page	Art.No.	Name Type
	12	211997T	Fire Detection Control Panel BCnet600, Description

223033

Gateway Singlemode Fibre-BCnet LWL-SM-2

The gateway LWL-SM-2 interconnects sectional control panels of a Fire Detection Control Panel BCnet600 or BCnet216 via singlemode optical fibres. An optical fibre cable with at least 2 free singlemode fibres is needed for the connection. If required, only specific sections of the high security network net600 or GSSnet can be interconnected in this way.

Each sectional control panel requires one gateway each for in- and output. The ends of singlemode fibres have to be fitted with an 'ST' connector (not provided) for optical fibres.

Features
- Status LED indicators to display voltage supply, data transfer and transmission quality
- All parameters to be set via a DIL switch
- Small dimensions
- To be mounted on a DIN rail

Specifications

Operating voltage	18 - 30VDC
Current consumption at 24V	typ. 90mA
Length of optical fibre	max. 15km
Type of fibre	9/125µm / 1300nm
Optical budget	17dB
Ambient temperature	-10°C to +55°C
Dimensions W × H × D	61 × 115 × 113 (mm)
Weight	500g

Cross-references	Page	Art.No.	Name Type
	12	211997T	Fire Detection Control Panel BCnet600, Description

223034

Gateway 2xMultimode Fibre-BCnet LWL-2XMM-2

By means of the double gateway, sectional control panels of a Fire Detection Control Panel BCnet600 can be networked via multimode optical fibres. The sectional control panels are interconnected by means of an optical fibre cable with at least 2 free multimode fibres. In this way, it is also possible to bridge only individual sections of the high-security network net600, if required.

The gateway has two separate bi-directional transmission channels for networking the sectional control panel with both neighbouring sectional control panels. The ends of the multimode fibres have to be provided with an "ST" connector (not included in the delivery) for optical fibres.

Features
- Status LEDs indicate the supply voltage, the data flow as well as - for each channel separately - the transmission quality
- All parameters can be set with DIL switch
- Small dimensions
- To be mounted on a DIN rail

Specifications

Supply voltage	18 - 30VDC
Current consumption at 24V	typ. 120mA
Length of optical fibre	max. 4km with 62.5/125µm multimode fibre
Type of fibre	62.5/125µm / 1300nm
Optical budget	8dB
Ambient temperature	-10°C to +55°C
Dimensions W × H × D	61 × 115 × 113 (mm)
Weight	500g

Cross-references	Page	Art.No.	Name	Type
	12	211997T	Fire Detection Control Panel BCnet600, Description	

223036

Gateway 2xSinglemode Fibre-BCnet LWL-2XSM-2

By means of the double gateway, sectional control panels of a Fire Detection Control Panel BCnet600 can be networked via singlemode optical fibres. The sectional control panels are interconnected by means of an optical fibre cable with at least 2 free singlemode fibres. In this way, it is also possible to bridge only individual sections of the high-security network net600, if required.

The gateway has two separate bi-directional transmission channels for networking the sectional control panel with both neighbouring sectional control panels. The ends of the singlemode fibres have to be provided with an "ST" connector (not included in the delivery) for optical fibres.

Features
- Status LEDs indicate the supply voltage, the data flow as well as - for each channel separately - the transmission quality
- All parameters can be set with DIL switch
- Small dimensions
- To be mounted on a DIN rail

Specifications

Supply voltage	18 - 30VDC
Current consumption at 24V	typ. 120mA
Length of optical fibre	max. 15km
Type of fibre	9/125µm / 1300nm
Optical budget	17dB
Ambient temperature	-10°C to +55°C
Dimensions W × H × D	61 × 115 × 113 (mm)
Weight	500g

Cross-references	Page	Art.No.	Name	Type
	12	211997T	Fire Detection Control Panel BCnet600, Description	

223035 Gateway Red. Multimode Fibre-BCnet LWLR-MM-2

By means of the redundant gateway, sectional control panels of a Fire Detection Control Panel BCnet600 can be networked via multimode optical fibres. The sectional control panels are interconnected by means of an optical fibre cable with at least 4 free multimode fibres. In this way, it is also possible to bridge only individual sections of the high-security network net600, if required.

The gateway has two separate bi-directional transmission channels for the redundant networking of two sectional control panels. In the event of a failure of an optical fibre connection, a switch-over to the other connection will be carried out automatically and without losing data. As a result, the network connection of the fire detection control panel meets even the highest safety demands. The ends of the multimode fibres have to be provided with an "ST" connector (not included in the delivery) for optical fibres.

Features
- Status LEDs indicate the supply voltage, the data flow as well as - for each channel separately - the transmission quality
- All parameters can be set with DIL switch
- Small dimensions
- To be mounted on a DIN rail

Specifications

Supply voltage	18 - 30VDC
Current consumption at 24V	typ. 120mA
Length of optical fibre	max. 4km with 62.5/125µm multimode fibre
Type of fibre	62.5/125µm / 1300nm
Optical budget	8dB
Ambient temperature	-10°C to +55°C
Dimensions W × H × D	61 × 115 × 113 (mm)
Weight	500g

Cross-references	Page	Art.No.	Name Type
	12	211997T	Fire Detection Control Panel BCnet600, Description

223072 SMS/E-Mail Transmitter Module SMS3-1/BC600

The transmitter module contains a GSM/GPRS interface which allows it to send SMS or e-mail messages to up to 29 different users. By means of the module, the receiver can be specifically informed about system conditions of a Fire Detection Control Panel Series BC600. The clear text messages can either be transmitted from the control panel to the module by means of serial ESPA data protocol and be forwarded without change, or be sent when the state of one of the eight inputs changes - according to the parameterisation of the module. The lines can also be parameterised as "disable lines" so that messages are only allowed to be sent to the destinations if the transmission priority is appropriate.

The delivery scope of the module includes a GSM antenna and the serial connection cable to the fire detection control panel, as well as the Serial Interface SIF601-2/ESPA. The necessary SIM card must be provided by the customer.

The following parameters can be freely set:
- Events to be transmitted (alarm, fault, etc.)
- Transmission priority of the events
- Transmission parameters of users (telephone number, e-mail address, etc.)
- Disable times or disable inputs for demand-oriented transmission to selected users

Features
- GSM/GPRS module
- Eight inputs, galvanically isolated
- RS232C interface, prepared for connection to the serial interface of the fire detection control panel
- Periodical status message via SMS or e-mail
- Parameterisation of the transmitter module by means of PC software
- Parameterisation of the event filters by means of PARSOFT

Specifications

Operating voltage	10 - 30VDC
Current consumption at 12V	typ. 60mA
Current consumption at 24V	typ. 40mA
Ambient temperature	-10°C to +55°C
Dimensions W × H × D	145 × 240 × 100 (mm, without antenna)
Antenna height	100mm
Colour	traffic white, RAL 9016
Weight	1.7kg
Approvals	VdS G112801 0786-CPD-21139

8

223073 SMS/E-Mail Transmitter Module SMS3-1/NT/BC600

The transmitter module corresponds to the Transmitter Module SMS3-1/BC600, but it has been installed in a larger housing with integrated power unit. The housing can accommodate a stand-by battery 12V / max. 7.2Ah.

Specifications (for further specifications, see SMS3-1/BC600)

Mains voltage	230VAC, 50Hz
Dimensions W × H × D	310 × 275 × 115 (mm)
Weight	5.4kg

223061 Gateway/IEC GW/IEC/BC600-1

The gateway serves as interface between a Fire Detection Control Panel Series BC600 and a primary control centre, according to the international interface standards IEC60870-5-101 (serial) and IEC60870-5-104 (Ethernet). For this purpose, the fire detection control panel has to be equipped with an interface componentry SIF601-3 (ZLT interface bidirectional) or SIF601-4 (ZLT interface unidirectional).

By means of the gateway, events of the fire detection control panel can be transmitted to a remote piece of equipment. Furthermore, operations can be carried out on the fire detection control panel, depending on the parameterisation of the gateway.

The system-specific list of IEC data points and the assignment of the detector zones can be easily loaded into the gateway by means of ftp. For the setting of the parameters, the gateway provides a web server.

Features

- Transmission of the events of the fire detection control panel
- Parameterisable functions for the operation of the fire detection control panel
- RS232C interface for the data transfer to the fire detection control panel
- RS232C interface for the data transfer to the IEC60870-5-101 control centre
- Ethernet interface for the data transfer to the IEC60870-5-104 control centre
- Separate status LED indicators for each interface
- To be mounted on a DIN rail or on the wall

Specifications

Operating voltage	12 - 30VDC
Current consumption at 24V	typ. 170mA
Ambient temperature	-10°C to +60°C
Dimensions W × H × D	77 × 111 × 26 (mm, without mounting straps)
Protection class	IP20
Weight	190g

Cross-references	Page	Art.No.	Name Type
	26	211126	Serial Interface SIF601-3/ZLT
	26	211127	Serial Interface SIF601-4/ZLT-UNI

223062 Gateway/Modbus GW/MODBUS/BC600-1

The gateway serves as interface between a Fire Detection Control Panel Series BC600 and a primary control centre, according to the international interface standard Modbus. For this purpose, the fire detection control panel has to be equipped with an interface componentry SIF601-3 (ZLT interface bidirectional) or SIF601-4 (ZLT interface unidirectional).

By means of the gateway, events of the fire detection control panel can be transmitted to a remote piece of equipment, using the Modbus protocol. Furthermore, operations can be carried out on the fire detection control panel, depending on the parameter setup of the gateway.

The system-specific list of Modbus data points and the assignment of the detector zones can be easily loaded into the gateway by means of ftp. For the setting of the parameters, the gateway provides a web server.

Features
- Transmission of the events of the fire detection control panel
- Parameterisable functions for the operation of the fire detection control panel
- RS232C interface for the data transfer to the fire detection control panel
- RS232C interface for the serial data transfer by means of Modbus/RTU
- Ethernet interface for the data transfer by means of Modbus/TCP
- Separate status LED indicators for each interface
- To be mounted on a DIN rail or on the wall

Specifications

Operating voltage	12 - 30VDC
Current consumption at 24V	typ. 170mA
Ambient temperature	-10°C to +60°C
Dimensions W × H × D	77 × 111 × 26 (mm, without mounting straps)
Protection class	IP20
Weight	190g

Cross-references	Page	Art.No.	Name Type
	26	211126	Serial Interface SIF601-3/ZLT
	26	211127	Serial Interface SIF601-4/ZLT-UNI

223066 Mini PC EBOX-1

The complete Windows-based PC can be used for the operation of a(n) OPC or BACnet server if near the system no electronic data processing environment is available for this purpose. As data storage medium, the Mini PC contains a solid-state hard disk. For the connection of a monitor, there is an HDMI terminal.

Features
- Operating system Windows 10 IoT
- Solid-state hard disk 32GB
- HDMI terminal
- Connections: 1× USB, 2× RS232, 2× LAN
- Small dimensions

Specifications

Operating voltage	10 - 30VDC
Power consumption	typ. 12W, max. 20W
Ambient temperature	0°C to +50°C
Relative humidity	5 - 85% (no condensation)
Protection class	IP30
Dimensions W × H × D	60 × 100 × 70 (mm)
Weight	600g

Cross-references	Page	Art.No.	Name Type
	44	214025	Serial Interface Module SIM216-1
	26	211126	Serial Interface SIF601-3/ZLT
	26	211127	Serial Interface SIF601-4/ZLT-UNI
	83	218022	ZLT Interface Licence ZLT-SS

223064 Software Licence OPC-BC600

The OPC server licence allows a Fire Detection Control Panel Series BC600 to communicate with third-party manufacturers' automation technology systems, via the standardised OPC interface. As a result, the fire detection control panel can be linked, for example, to an OPC capable operation control system which serves as OPC client.

For the operation of the OPC server, a Windows PC is required. If no client PC is available near the system, a Mini PC can be installed for this purpose. The program is protected by a dongle.

Cross-references	Page	Art.No.	Name Type
	79	223066	Mini PC EBOX-1

223065 Software Licence BACNET-BC600

The BACnet server licence allows a Fire Detection Control Panel Series BC600 to communicate with third-party manufacturers' building automation systems, via the standardised BACnet interface. As a result, the fire detection control panel can, for example, actuate other devices such as ventilation or air conditioning systems and process their events.

For the operation of the BACnet server, a Windows PC is required. If no client PC is available near the system, a Mini PC can be installed for this purpose. The program is protected by a dongle.

Cross-references	Page	Art.No.	Name Type
	79	223066	Mini PC EBOX-1

218060 NEW ZLT Interface Licence BC600-ZLT

The ZLT Interface Licence is needed for the communication of Fire Detection Control Panels Series BC600 with higher operation control systems. By means of bidirectional communication, the higher operation control system also allows, in addition to the indication of all conditions, the operation of the zones, actuations, etc.

The ZLT Interface Licence is needed in the sectional control panel to which the operation control system is connected.

211430 LAN-Module/GW-BC600-216 LAN/BC600-216-1

By means of the LAN module, a Fire Detection Control Panel Series BC216 can be coupled to a Fire Detection Control Panel Series BC600. For this purpose, the events of the Fire Detection Control Panel Series BC216 are converted to an IP protocol and transferred to the BC600. In the same way, operations are sent from the Fire Detection Control Panel Series BC600 to the BC216. As a result, it is possible to indicate the BC216's events on the BC600 and to operate the BC216 on the BC600. The range of functions of the Control Panel Series BC216 remains unchanged.

For the connection of the module to the Fire Detection Control Panel Series BC216, a Serial Interface Module SIM216-1 is required. The IP interface of the LAN module is connected directly to the IP interface of the BC600.

For the operation of the BC216/BC600 gateway an options circuit with a basic license is required on the BC600, and for each connected BCnet216 sectional control panel, one member license is required. By means of PARSOFT, the parameter data of the BC216 are imported into the parameter setup of the BC600 and transferred to the control panel.

Features
- incl. prefabricated data cable to the SIM216-1, length 1.8m
- incl. prefabricated supply cable, length 1.8m

Specifications

Supply voltage	21 - 30VDC
Current consumption at 24V	45mA
Length of IP connection	max. 100m
Ambient temperature	+5°C to +50°C
Relative humidity	max. 95% (no condensation)
Dimensions L × W × H	90 × 64 × 23 (mm, without mounting straps)
Protection class	IP30
Weight	150g

Cross-references	Page	Art.No.	Name Type
	81	211431	Gateway BC600-BC216 Basic Licence GW-BC600-216-BAS/LIZ
	81	211432	Gateway BC600-BC216 Member Licence GW-BC600-216-TLN/LIZ
	44	214025	Serial Interface Module SIM216-1
	83	218022	ZLT Interface Licence ZLT-SS

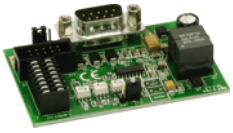
211431 Gateway BC600-BC216 Basic Licence GW-BC600-216-BAS/LIZ

The basic license is required for the connection of a Fire Detection Control Panel Series BC216 to a Fire Detection Control Panel Series BC600. In addition, a member license is required for each BCnet216 sectional control panel. The licenses are installed on the Central Processing Board ZTB600-1 in the form of an options circuit.

211432 Gateway BC600-BC216 Member Licence GW-BC600-216-TLN/LIZ

The member license is required for the connection of a Fire Detection Control Panel Series BC216 to a Fire Detection Control Panel Series BC600. For each BCnet216 sectional control panel a member license is required. The licenses are installed on the Central Processing Board ZTB600-1 in the form of an options circuit.

214025 Serial Interface Module SIM216-1



The Serial Interface Module SIM216-1 allows for the extension of a Fire Detection Control Panel Series BC216 or Series BC016 with a galvanically isolated RS232 interface for the connection of devices with serial data transfer (e.g., a protocol printer, a parameter setup PC).

Specifications

Current consumption at 24V	typ. 10mA
Interface	RS232C, galvanically isolated, up to 57.6 kbaud
Signal lines	RxD, TxD, CTS/DTR
Connection type	D-SUB plug, 9-pole
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	70 × 45 × 20 (mm)
Weight	50g

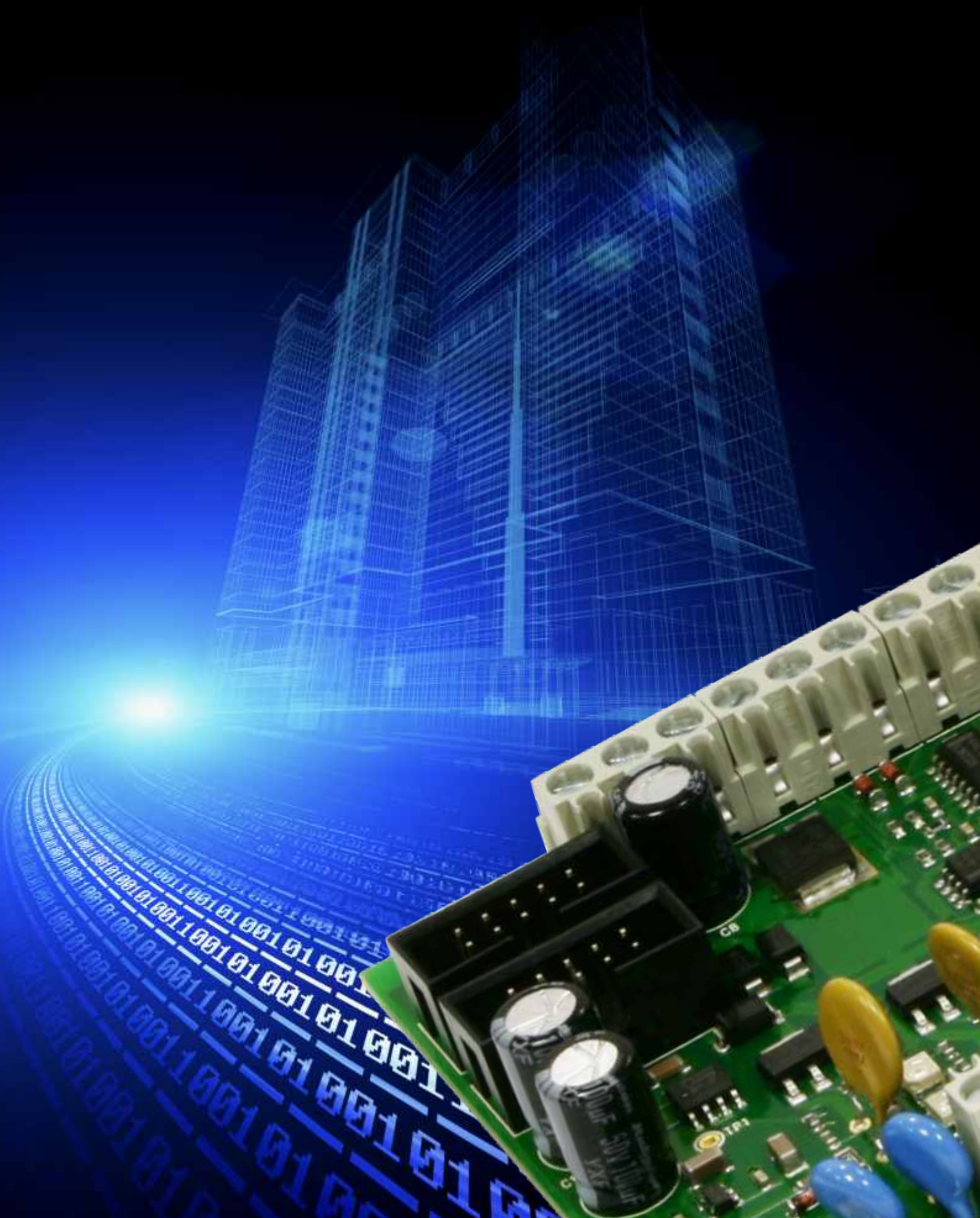
Cross-references	Page	Art.No.	Name Type
	72	219009	USB to Serial Converter US232R-100

218022 ZLT Interface Licence ZLT-SS

The ZLT interface license is required for the communication of Fire Detection Control Panels Series BC216 with superior alarm monitoring systems. According to requirements, the superior operation control system can display only the states of the fire detection control panel or additionally allow for the operation of zones, actuations, etc. The ZLT interface license is required in the sectional control panel that is connected to the operation control system.

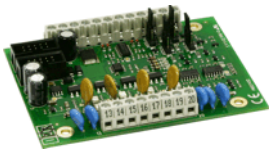
Note: the ZLT interface can only be operated on a central processing board ZTB216-2 **with at least hardware version V4**. The type of the board is printed on a label. The version number is the last digit of the PCB version, that is printed in the left bottom corner of the PCB (e.g., PN5233S**4** for V4).

9 Additional Modules for Fire Detection Contol Panels



223026

Siren Connection Module SZ58-3



The Siren Connection Module SZ58-3 is designed with four siren circuits for activation of remote signalling devices (e.g., sirens, strobes) to expand control panels Series BC600, Series BC216, BC016 and BC06. All four siren circuits have separately actuatable, individually fused and monitored outputs. In addition, each circuit contains a separate fault detection output. Monitored signalling devices may either be supplied by the control panel or, at higher current demand, by an external power supply.

Features

- 4 individually fused and monitored siren circuits
- Display of 'active' and 'fault' state of each circuit
- Separate fault detection output for each siren circuit with direct response to a conventional detector zone, an input on the central processing board or an input on the fire brigade interface
- Activation via external switches or open-collector outputs of the control panel, connection either with terminals or flat cable
- Monitoring of the supply voltage of siren circuits
- Monitoring of signalling device lines by negative monitoring voltage - thereby, the activation of signalling devices is avoided by the monitoring quiescent current

Specifications

Supply voltage	21 - 30VDC
Sirens supply voltage	21 - 30VDC
Current consumption at 24V	typ. 15mA (all siren outputs quiescent)
Load current per siren circuit	max. 500mA
Output voltage (sirens quiescent)	typ. -1.2VDC
Output voltage (sirens activated)	external supply voltage minus typ. 1V
End-of-line resistor	5.6kOhm
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	98 × 74 × 18 (mm)
Weight	60g

Cross-references	Page	Art.No.	Name Type
	90	229008	Flat Cable 1700mm/10-Pole FBK17-1
	90	229012	Flat Cable 650mm/10-Pole FBK6-1

222007

Terminal Adapter Module SUB58-2

The componentry is used for the easy conversion of two 10-pole flat cable connectors to screw terminals. The cabling of two times 8 open-collector outputs as well as the triggering of relay modules of type RL58-1 and RL58-2 in this way can be realised flexibly and according to the individual requirements.

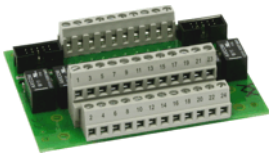
Specifications

Connection technology	two 10-pole flat cable connectors 16 screw terminals
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	85 × 30 × 20 (mm)
Weight	100g

Cross-references	Page	Art.No.	Name Type
	86	222004	Relay Module RL58-1
	86	222010	Relay Module RL58-2

222004

Relay Module RL58-1



The Relay Module RL58-1 is used for the switching of consumer loads via eight dry changeover contacts, which can be triggered separately. The componentry can be installed in Fire Detection Control Panels Series BC600, Series BC216, Series BC016 and Series BC06.

Features

- Eight independent relays with one dry changeover contact each
- Galvanically isolated switch contacts on separate terminals
- Separate LED display for each relay
- Connection of trigger inputs via terminals or flat cable

Specifications

Operating voltage	20 to 31VDC
Current consumption at 24V	typ. 22mA per activated circuit
Control current	typ. 1.2mA per input
Switching power per contact	1A/60V/30W
Contact life	unloaded: approx. 5 million switching cycles at 24VDC/1A: approx. 300,000 switching cycles
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	98 × 74 × 37 (mm)
Weight	130g

Cross-references	Page	Art.No.	Name Type
	90	229008	Flat Cable 1700mm/10-Pole FBK17-1
	90	229012	Flat Cable 650mm/10-Pole FBK6-1

222010

Relay Module RL58-2

The Relay Module RL58-2 is used for the switching of consumer loads with increased power demand via four dry changeover contacts, which can be triggered separately. The componentry can be installed in Fire Detection Control Panels Series BC600, Series BC216, Series BC016 and Series BC06.

Features

- Four independent relays with one dry changeover contact each
- Galvanically isolated changeover contacts on terminals
- Separate LED display for each relay
- Connection of trigger inputs via terminals or flat cable

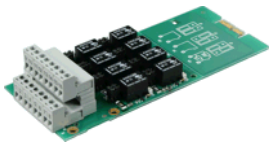
Specifications

Operating voltage	20 to 31VDC
Current consumption at 24V	typ. 22mA per activated circuit
Control current	typ. 1.2mA per input
Switching power per contact	3A/30VDC or 5A/230VAC
Contact life	unloaded: approx. 20 million switching cycles at 230VAC/3A: approx. 400,000 switching cycles
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	98 × 74 × 28 (mm)
Weight	120g

Cross-references	Page	Art.No.	Name Type
	90	229008	Flat Cable 1700mm/10-Pole FBK17-1
	90	229012	Flat Cable 650mm/10-Pole FBK6-1

211143

Relay Module RL608-1



The Relay Module RL608-1 is used for the switching of loads via eight dry contacts, which can be actuated independently of each other. The componentry is primarily intended for installation in Fire Detection Control Panels Series BC600. It is attached to the backplane of the control panel, but it is not connected to the system bus.

After breaking off the section of the printed circuit board that is not equipped with components, the relay module can also be used in Fire Detection Control Panels Series BC216, Series BC016 and Series BC06.

Features

- Eight independent relays with one dry contact each
- By means of jumpers, each contact can be individually set as normally open contact, as normally closed contact or as normally open contact with signalling resistors for the VdS extinguishing system interface
- Galvanically isolated switching contacts on separate terminals
- Separate LED display for each relay
- Connection of trigger inputs via flat cable

Specifications

Operating voltage	20 - 30VDC
Current consumption at 24V	typ. 22mA per activated circuit
Control current	typ. 0.5mA per input
Switching power per contact	1A/60V/30W
Signalling resistors	3.3kOhm / 680 Ohm
Contact life	unloaded: approx. 5 million switching cycles at 24VDC/1A: approx. 300,000 switching cycles
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	160 × 65 × 35 (mm)
after breaking off the printed circuit board	104 × 65 × 35 (mm)
Weight	105

Cross-references	Page	Art.No.	Name Type
	90	229008	Flat Cable 1700mm/10-Pole FBK17-1
	90	229012	Flat Cable 650mm/10-Pole FBK6-1

222013 Detector Reset Module MQZ1000-1

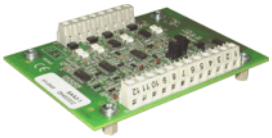
The detector reset module is needed for the connection of special detectors with separate power supply (e.g., RF interfaces, aspiration smoke detection systems, beam smoke detectors) to detector lines in addressable conventional technology. The componentry allows for the resetting of an activated special detector by resetting the corresponding detector zone at the fire detection control panel. Depending on the connection, both detectors with integrated reset input as well as detectors which are reset by disconnecting the power supply, can be reset.

Features
- Integrated processing logic for the detector line signal
- Protection circuit for supply of detector
- LED display for signalling the activation

Specifications

Operating voltage	20 to 31VDC
Output current	max. 1A
Current consumption at 24V	1mA (quiescent) 20mA (active)
Relay contact rating	1A/60V/30W
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	70 × 45 × 17 (mm)
Weight	approx. 40g

223050 NEW Voice Evacuation Interface SAA2-1



The Voice Evacuation Interface SAA2-1 is used for linking Fire Detection Control Panels Series BC600 or Series BC216 to voice alarm control panels according to DIN VDE 0833-4. The componentry has two line-monitored actuation outputs for the actuation of the voice alarm control panel (e.g., "START alarming" and "STOP alarming") as well as two line-monitored inputs that accept status messages of the voice alarm system. The signals that are needed for the functioning of the interface are provided by appropriately parameterised inputs and outputs of the fire detection control panel. The conditions of the outputs and inputs are indicated by two light emitting diodes each ("active" and "fault") on the componentry. The fire detection control panel provides the Voice Evacuation Interface SAA2-1 with the operating voltage in conformity with EN 54-4.

Features
- Two line-monitored outputs for the actuation of the voice alarm control panel
- Two line-monitored inputs that accept status messages of the voice alarm system
- Separate LEDs for the outputs and inputs indicate the conditions "active" and "fault"
- The conditions of the line-monitored inputs and outputs are fed back through six open-collector outputs
- Activation through appropriately parameterised outputs of the fire detection control panel

Specifications

Operating voltage	21 - 30VDC
Current consumption	typ. 35mA (quiescent)
Continuous load per output	max. 150mA, short-circuit-protected
Peak current per output	0.4A
Output voltage, output quiescent	typ. 6.4VDC
Output voltage, output active	
operating voltage < 25V	approx. operating voltage
operating voltage >= 25V	approx. operating voltage -1.2V
Monitoring voltage, input	typ. 14.2VDC
Load resistance, output	200 - 1000Ohm
End-of-line resistance, input	3.3kOhm
Activation resistance, input	680Ohm
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	98 × 74 × 18 (mm)
Weight	60g

229012 Flat Cable 650mm/10-Pole FBK6-1

The flat cable with a length of 650mm is used for the connection of componentries which are connected via 10-wire flat cables (e.g., Relay Modules RL58-1, RL58-2), if a longer cable than the supplied 300mm cable is required. This is the case, for example, in Fire Detection Control Panels BC600-16.

Cross-references	Page	Art.No.	Name Type
	86	222004	Relay Module RL58-1
	86	222010	Relay Module RL58-2
	22	211143	Relay Module RL608-1
	85	223026	Siren Connection Module SZ58-3

229008 Flat Cable 1700mm/10-Pole FBK17-1

The flat cable with a length of 1.7m is used for the connection of modules, which are connected via a 10-pole flat cable (e.g., Relay Modules RL58-1, RL58-2), if a longer cable than the supplied 300mm cable is required.

Cross-references	Page	Art.No.	Name Type
	86	222004	Relay Module RL58-1
	86	222010	Relay Module RL58-2
	22	211143	Relay Module RL608-1
	85	223026	Siren Connection Module SZ58-3

10 Overvoltage Protection

343003

Surge Arrester for 24VDC 0,75A 920324

The 4-wire lightning current and overvoltage surge arrester is used to protect 4 single wires with common reference potential as well as asymmetrical interfaces. The blitzductor combines the permanently high surge current discharge capacity of a lightning current arrester with the low protection level of an overvoltage surge arrester for the effective protection of the end device.

By means of the blitzductor it is possible, for example, to effectively protect two conventional lines against interference and damage caused by current surges and overvoltage (e.g., in the event of an indirect lightning stroke).

Features
- Especially space-saving design
- Easy installation and maintenance thanks to plug-in connections
- Designed to be mounted on a DIN rail using a plug-in base
- Module is locked in the base and therefore is protected against vibration and reverse polarity

Specifications

Nominal voltage	24V
Highest continuous voltage	33VDC
Nominal current at 45°C	0.75A
Ambient temperature	-40°C to +80°C
Protection class	IP20
Dimensions W × H × D	12 × 45 × 51 (mm)
Weight	45g

Cross-references	Page	Art.No.	Name Type
	95	343020	Base for Surge Arrester 920300

10

343002

Surge Arrester for Detector Loop 920325

The 4-wire lightning current and overvoltage surge arrester is used to protect 4 single wires with common reference potential as well as asymmetrical interfaces. The blitzductor combines the permanently high surge current discharge capacity of a lightning current arrester with the low protection level of an overvoltage surge arrester for the effective protection of the end device.

By means of the blitzductor it is possible, for example, to effectively protect the terminals of a loop interface against interference and damage caused by current surges and overvoltage (e.g., in the event of an indirect lightning stroke).

Features
- Especially space-saving design
- Easy installation and maintenance thanks to plug-in connections
- Designed to be mounted on a DIN rail using a plug-in base
- Module is locked in the base and therefore is protected against vibration and reverse polarity

Specifications

Nominal voltage	48V
Highest continuous voltage	54VDC
Nominal current at 45°C	0.75A
Ambient temperature	-40°C to +80°C
Protection class	IP20
Dimensions W × H × D	12 × 45 × 51 (mm)
Weight	31g

Cross-references	Page	Art.No.	Name Type
	95	343020	Base for Surge Arrester 920300

343001

Surge Arrester for Network BCnet 920271

The lightning current and overvoltage surge arrester is used to protect 1 twin wire of earth potential-free high-frequency bus systems with direct or indirect shield earthing. The blitzductor combines the permanently high surge current discharge capacity of a lightning current arrester with the low protection level of an overvoltage surge arrester for the effective protection of the end device.

By means of the blitzductor it is possible, for example, to effectively protect the network interface of a BCnet216 or BCnet600 sectional control panel against interference and damage caused by current surges and overvoltage (e.g., in the event of an indirect lightning stroke).

Features
- Especially space-saving design
- Easy installation and maintenance thanks to plug-in connections
- Designed to be mounted on a DIN rail using a plug-in base
- Module is locked in the base and therefore is protected against vibration and reverse polarity

Specifications

Nominal voltage	5V
Highest continuous voltage	6VDC
Nominal current at 45°C	1A
Ambient temperature	-40°C to +80°C
Protection class	IP20
Dimensions W × H × D	12 × 45 × 51 (mm)
Weight	29g

Cross-references	Page	Art.No.	Name Type
	95	343020	Base for Surge Arrester 920300

343008

Surge Arrester for MOD-1/receiver 920240

The lightning current and overvoltage surge arrester is used to protect 1 twin wire of earth potential-free symmetrical interfaces with direct or indirect shield earthing. The blitzductor combines the permanently high surge current discharge capacity of a lightning current arrester with the low protection level of an overvoltage surge arrester for the effective protection of the end device.

By means of the blitzductor it is possible, for example, to effectively protect the receive line of the Long-Distance Modem MOD-1, which is used to connect two BCnet sectional control panels with each other, against interference and damage caused by current surges and overvoltage (e.g., in the event of an indirect lightning stroke).

Features
- Especially space-saving design
- Easy installation and maintenance thanks to plug-in connections
- Designed to be mounted on a DIN rail using a plug-in base
- Module is locked in the base and therefore is protected against vibration and reverse polarity

Specifications

Nominal voltage	5V
Highest continuous voltage	6VDC
Nominal current at 45°C	1A
Ambient temperature	-40°C to +80°C
Protection class	IP20
Dimensions W × H × D	12 × 45 × 51 (mm)
Weight	20g

Cross-references	Page	Art.No.	Name Type
	95	343020	Base for Surge Arrester 920300

343009

Surge Arrester for MOD-1/transmitter 920364

The lightning current and overvoltage surge arrester is used to protect 2 twin wires of symmetrical interfaces with diode protection circuits on the inputs, current loops and opto-coupled inputs. The blitzductor combines the permanently high surge current discharge capacity of a lightning current arrester with the low protection level of an overvoltage surge arrester for the effective protection of the end device.

By means of the blitzductor it is possible, for example, to effectively protect the transmit line of the Long-Distance Modem MOD-1, which is used to connect two BCnet sectional control panels with each other, against interference and damage caused by current surges and overvoltage (e.g., in the event of an indirect lightning stroke).

Features
- Especially space-saving design
- Easy installation and maintenance thanks to plug-in connections
- Designed to be mounted on a DIN rail using a plug-in base
- Module is locked in the base and therefore is protected against vibration and reverse polarity

Specifications

Nominal voltage	24V
Highest continuous voltage	33VDC
Nominal current at 80°C	0.1A
Ambient temperature	-40°C to +80°C
Protection class	IP20
Dimensions W × H × D	12 × 45 × 51 (mm)
Weight	25g

Cross-references	Page	Art.No.	Name Type
	95	343020	Base for Surge Arrester 920300

343006

Surge Arrester for NNU5-1 920344

The lightning current and overvoltage surge arrester is used to protect 2 twin wires of earth potential-free symmetrical interfaces. The blitzductor combines the permanently high surge current discharge capacity of a lightning current arrester with the low protection level of an overvoltage surge arrester for the effective protection of the end device.

By means of the blitzductor it is possible, for example, to effectively protect the redundant alarm line of a sectional control panel against interference and damage caused by current surges and overvoltage (e.g., in the event of an indirect lightning stroke).

Features
- Especially space-saving design
- Easy installation and maintenance thanks to plug-in connections
- Designed to be mounted on a DIN rail using a plug-in base
- Module is locked in the base and therefore is protected against vibration and reverse polarity

Specifications

Nominal voltage	24V
Highest continuous voltage	33VDC
Nominal current at 45°C	1A
Ambient temperature	-40°C to +80°C
Protection class	IP20
Dimensions W × H × D	12 × 45 × 51 (mm)
Weight	45g

Cross-references	Page	Art.No.	Name Type
	95	343020	Base for Surge Arrester 920300

343005

Surge Arrester for RS232 920322

The 4-wire lightning current and overvoltage surge arrester is used to protect 4 single wires with common reference potential as well as asymmetrical interfaces. The blitzductor combines the permanently high surge current discharge capacity of a lightning current arrester with the low protection level of an overvoltage surge arrester for the effective protection of the end device.

By means of the blitzductor it is possible, for example, to effectively protect an RS232 interface against interference and damage caused by current surges and overvoltage (e.g., in the event of an indirect lightning stroke).

Features
- Especially space-saving design
- Easy installation and maintenance thanks to plug-in connections
- Designed to be mounted on a DIN rail using a plug-in base
- Module is locked in the base and therefore is protected against vibration and reverse polarity

Specifications

Nominal voltage	12V
Highest continuous voltage	15VDC
Nominal current at 45°C	0.75A
Ambient temperature	-40°C to +80°C
Protection class	IP20
Dimensions W × H × D	12 × 45 × 51 (mm)
Weight	31g

Cross-references	Page	Art.No.	Name Type
	95	343020	Base for Surge Arrester 920300

343004

Surge Arrester for 24VDC 1,8A 920336

The 4-wire lightning current and overvoltage surge arrester is used to protect 4 single wires with common reference potential as well as asymmetrical interfaces. The blitzductor combines the permanently high surge current discharge capacity of a lightning current arrester with the low protection level of an overvoltage surge arrester for the effective protection of the end device.

By means of the blitzductor it is possible, for example, to effectively protect two 24V electric circuits or siren circuits against interference and damage caused by current surges and overvoltage (e.g., in the event of an indirect lightning stroke).

Features
- Especially space-saving design
- Easy installation and maintenance thanks to plug-in connections
- Designed to be mounted on a DIN rail using a plug-in base
- Module is locked in the base and therefore is protected against vibration and reverse polarity

Specifications

Nominal voltage	36V
Highest continuous voltage	45VDC
Nominal current at 45°C	1.8A
Ambient temperature	-40°C to +80°C
Protection class	IP20
Dimensions W × H × D	12 × 45 × 51 (mm)
Weight	48g

Cross-references	Page	Art.No.	Name Type
	95	343020	Base for Surge Arrester 920300

343020

Base for Surge Arrester 920300

The base in series terminal technology is used to accommodate a lightning current and overvoltage surge arrester 920xxx. The arrester module is inserted into the spring contacts of the base and locked. The insertion is protected against reverse polarity. When the module is removed, the signals are automatically connected through. The plug-in base is designed for mounting on a DIN rail.

Specifications

Dimensions W × H × D	12 × 90 × 50 (mm)
Weight	53g

343007

Surge Arrester for 24VDC 25A 953201

The 2-wire overvoltage surge arrester is used for the effective protection of sensitive devices that are supplied with a nominal voltage of 24V. By means of the overvoltage surge arrester it is possible, for example, to effectively protect the 24V power supply of components of a fire detection system against interference and damage caused by overvoltage (e.g., in the event of an indirect lightning stroke).

Features

- Green-red colour marking indicates function
- Especially space-saving design
- Designed to be mounted on a DIN rail
- Replaceable arrester module
- Module is locked in the base and therefore is protected against vibration and reverse polarity

Specifications

Nominal voltage	24V
Highest continuous voltage	30V
Nominal current	25A
Ambient temperature	-40°C to +80°C
Protection class	IP20
Dimensions W × H × D	18 × 90 × 73 (mm)
Weight	91g

343030

Surge Arrester for 230VAC 952110

The modular overvoltage surge arrester for single-phase mains voltage is used for the effective protection of sensitive devices that are supplied with 230V mains voltage. By means of the overvoltage surge arrester it is possible, for example, to effectively protect the mains supply of components of a fire detection system against interference and damage caused by overvoltage (e.g., in the event of an indirect lightning stroke).

Features

- Green-red colour marking indicates function
- Especially space-saving design
- Designed to be mounted on a DIN rail
- Replaceable arrester modules
- Module is locked in the base and therefore is protected against vibration and reverse polarity

Specifications

Nominal voltage	230VAC
Highest continuous voltage	275VAC
Ambient temperature	-40°C to +80°C
Protection class	IP20
Dimensions W × H × D	36 × 90 × 73 (mm)
Weight	258g

11 Display and Operating Devices

250020

Remote Tableau SG70-1

The Remote Tableau SG70-1 is designed for the indication of the events and operating conditions of Fire Detection Control Panels Series BC600, Series BC216 and Series BC016 at a remote site. Light emitting diodes indicate the most important operating conditions of the control panel. On the integrated 4-line LC display, events of the fire detection control panel are indicated as clear text and can be called up one after the other by means of the scroll buttons. In addition, alarms and faults are signalled by the integrated buzzer.

The fields 'TRANSMITTING DEVICE' and 'ALARMING DEVICE' are structured in the same way as the corresponding fields of the fire detection control panel. They serve for the remote indication and operation of the primary transmitting device and of the alarming device.

By means of the Parameter Setup Software PARSOFT, filters can be set in order to limit the indication of events. With that, certain types of events (e.g., technical messages, faults) can be suppressed, or number ranges for the read-out can be determined. In this way, area tableaus for floors or buildings can be implemented easily.

The Remote Tableau SG70-1 is actuated via the INFO bus of the control panel or via the INFO bus EP of a Fire Detection Control Panel Series BC600. The remote tableau can be connected to a Fire Detection Control Panel Series BC600 or Series BC216 without any additional devices. For the connection to a Fire Detection Control Panel Series BC016, a Serial Interface Module SIM016-3 is required.

Features

- 4-line LC display for the indication of events as clear text
- LED displays for important operating conditions
- 'TRANSMITTING DEVICE' and 'ALARMING DEVICE' fields analogous to those on the control panel
- Integrated buzzer with silence function
- Multilingual operation menu
- USB interface for parameterisation and firmware update
- LED and LCD test function
- 2 auxiliary inputs and reserve button with parameterisable function
- Lettering of the display and operating elements by means of labelling strips
- Sheet steel housing for wall mounting
- Optionally, key switch for enabling the menu control can be installed afterwards

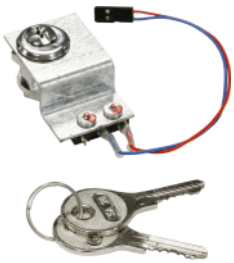
Specifications

Operating voltage	15 to 31VDC
Current consumption at 24V	20mA (display and LEDs dark) 90mA (display test)
Baud rate INFO bus	600, 1200, 2400, 4800 baud
Baud rate INFO bus EP	1200, 2400, 4800, 9600, 14400 baud
Serial interface connection	USB socket type B
Ambient temperature	-20°C to +60°C
Relative humidity	max. 95%
Protection class	IP30
Dimensions W × H × D	174 × 250 × 28.5 (mm)
Colour housing	grey white, RAL 9002
Colour front foil	light grey, RAL 7035
Weight	1.2kg

Cross-references	Page	Art.No.	Name Type
	37	250021	Key Switch Set Complete SCH70-1
	45	210112	Serial Interface Module SIM016-3
	2	211999T	Series BC600, Description

250021

Key Switch Set Complete SCH70-1



The Key Switch Set SCH70-1 can optionally be installed in a Fire Detection Control Panel BC600-8xxx, BC600-16xxx or BC600-1D, in a Display and Operation Panel ABF600-1 or in the Remote Tableau SG70-1 if the authorization for the operation is to be enabled by means of a key.

The key switch can also be installed later on.

251003

Remote Indicator PA58-3

The Remote Indicator PA58-3 serves for the remote display of the alarm activation of a fire detector if the status LED on the detector is not visible (false floors, false ceilings, etc.) or if the indicator is placed at a remote site. Depending on the connection, the remote indicator can display the activation of a single detector, or several detectors can be combined for a common display.

Features
- High-power LED
- Connection of up to 3 indicators to one detector
- Supply via detector line
- Plastic case with red cap
- Surface mounting or flush mounting on 55/60mm installation box

Specifications

Operating voltage	supply through the detector line or loop voltage
Current consumption at 24V	typ. 5mA (active)
Ambient temperature	-30°C to +70°C
Protection class	IP42
Dimensions W × H × D	80 × 80 × 27 (mm)
Colour	white
Weight	42g

11

251004

Remote Indicator PA58-3/IP65

The Remote Indicator PA58-3/IP65 serves for the remote display of the alarm activation of a fire detector if the status LED on the detector is not visible (false floors, false ceilings, etc.) or if the indicator is placed at a remote site. Depending on the connection, the remote indicator can display the activation of a single detector, or several detectors can be combined for a common display.

Thanks to the sealed housing with protection class IP65, the remote indicator is also suitable for outdoor use or for harsh environmental conditions.

Features
- High-power LED
- Connection of up to 3 indicators to one detector
- Supply via detector line
- Remote indicator with red cap
- Plastic housing with transparent cover
- Cable gland M20 included in the delivery

Specifications

Operating voltage	supply through the detector line or loop voltage
Current consumption at 24V	typ. 5mA (active)
Ambient temperature	-30°C to +70°C
Protection class	IP65
Cable diameter	4 - 10 (mm)
Dimensions W × H × D	105 × 105 × 66 (mm, without cable glands)
Colour	light grey/transparent
Weight	290g

252010

LED Display Tableau LAT288-1

The LED Display Tableau LAT288-1 allows for the design of a display for the optical signalling of events of a Fire Detection Control Panel Series BC600, Series BC216 or Series BC016 and of an Extinguishing Control Panel Series LC216 via parameterisable LED pair indicators. The tableau housing consists of a wall-mount case made of powder coated steel sheet, which accommodates up to three LED Display Fields LAB48-x and the Remote Tableau Drive Unit PTU288-1.

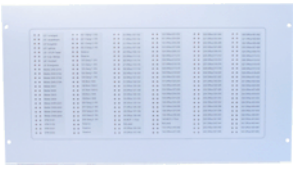
The front side of the case is sealed with a light grey plastic foil, which has six windows integrated for labelling of LED indicator pairs. Besides LED-display fields, further optional componentries (e.g., relay modules) and up to 2 × 12V/max. 22Ah stand-by batteries (at the bottom of the case) can be accommodated.

Specifications

Protection class	IP30
Dimensions W × H × D	420 × 520 × 120 (mm)
Colour of cabinet	grey white, RAL 9002
Colour of front foil	light grey, RAL 7035
Weight	6.2kg (without optional componentries)

Cross-references	Page	Art.No.	Name Type
	99	214024	LED Display Field LAB48-1
	100	214030	LED Display Field LAB48-2
	100	214032	LED Display Field LAB48-3
	100	214036	LED Display Field LAB48-4
	100	252012	Remote Tableau Drive Unit PTU288-1

252011 LED Display Tableau LAT288-1CE



The LED Display Tableau LAT288-1CE allows for the design of a display for the optical signalling of events of a Fire Detection Control Panel Series BC600, Series BC216 or Series BC016 and of an Extinguishing Control Panel Series LC216 via parameterisable LED indicator pairs. The tableau housing consists of a 19" rack-mount case made of powder coated steel sheet, providing space for the installation of up to three LED Display Fields LAB48-x and the Remote Tableau Drive Unit PTU288-1.

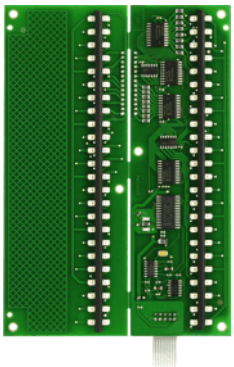
The front side of the case is sealed with a light grey plastic foil, which has six windows integrated for labelling of LED indicator pairs.

Specifications

Dimensions W × H × D	478 × 266 (6 rack units) × 55 (mm)
Colour of case	grey white, RAL 9002
Colour of front foil	light grey, RAL 7035
Weight	approx. 1.6kg (without optional componentries)

Cross-references	Page	Art.No.	Name Type
	99	214024	LED Display Field LAB48-1
	100	214030	LED Display Field LAB48-2
	100	214032	LED Display Field LAB48-3
	100	214036	LED Display Field LAB48-4
	100	252012	Remote Tableau Drive Unit PTU288-1

214024 LED Display Field LAB48-1



The LED Display Field LAB48-1 contains 48 freely parameterisable double LEDs (red/yellow) for the individual display of events of the detector zones, actuations, transmitting devices or alarming devices at Fire Detection Control Panels Series BC216 and of events of the flooding zones and extinguishing systems at the Extinguishing Control Panel Series LC216. The double LEDs are arranged in two rows each with 24 pairs.

In addition, the LED Display Field can be installed into an LED Display Tableau LAT288, that serves as a freely programmable display for the events of a Fire Detection Control Panel Series BC600, Series BC216, Series BC016 or an Extinguishing Control Panel Series LC216.

Features

- 48 double LEDs (left hand side red, right hand side yellow), freely parameterisable according to individual events
- Display of activation as well as deactivation or fault condition of the parameterised event
- Designation labels allow for individual marking of every double LED

Specifications

Current consumption at 24V	typ. 2mA without active LED, +0.25mA per LED
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	176 × 120 × 15 (mm)
Weight	60g

214030 LED Display Field LAB48-2

The LED Display Field LAB48-2 is identical with the LED Display Field LAB48-1, it contains 48 freely parameterisable double LEDs (yellow/yellow).

Features
- 48 double LEDs (left and right hand side yellow), freely parameterisable according to individual events

214032 LED Display Field LAB48-3

The LED Display Field LAB48-3 is identical with the LED Display Field LAB48-1, it contains 48 freely parameterisable double LEDs (24 pairs red/yellow, 24 pairs yellow/yellow).

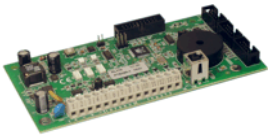
Features
- 24 double LEDs (left hand side red, right hand side yellow), freely parameterisable according to individual events
- 24 double LEDs (yellow), freely parameterisable according to individual events

214036 LED Display Field LAB48-4

The LED Display Field LAB48-4 is identical with the LED Display Field LAB48-1, it contains 48 freely parameterisable double LEDs (24 pairs red/yellow, 24 pairs green/yellow).

Features
- 24 double LEDs (left hand side red, right hand side yellow), freely parameterisable according to individual events
- 24 double LEDs (left hand side green, right hand side yellow), freely parameterisable according to individual events

252012 Remote Tableau Drive Unit PTU288-1



The Remote Tableau Drive Unit PTU288-1 allows to optically signal events of a Fire Detection Control Panel Series BC600, Series BC216 or Series BC016 and of an Extinguishing Control Panel Series LC216 on an LED display tableau or on a synoptic remote tableau. Further, an integrated buzzer indicates the alarm condition and fault condition of the control panel.

Up to three LED Display Fields LAB48-x or LED Connection Modules LAM48-1 can be connected to the remote tableau drive unit. A remote tableau with up to 144 parameterisable LED indicators can be created in combination with an optional LED Display Tableau LAT288-1 or LAT288-1CE. To design synoptic remote tableaus, the Remote Tableau Drive Unit PTU288-1 can be installed, in combination with LED connection modules, in any housing. This componentry is prepared for mounting in the LST standard grid and comes with the required mounting material.

The remote tableau drive unit is actuated via the INFO bus of the control panel or via the INFO bus EP of a Fire Detection Control Panel Series BC600. A Serial Interface Module SIM016-3 is required for connecting the PTU288-1 to a Fire Detection Control Panel Series BC016, whereas connection to the Fire Detection Control Panel Series BC600 or Series BC216 does not require any additional modules. Up to 6 Remote Tableau Drive Units PTU288-1 can be connected to one control panel.

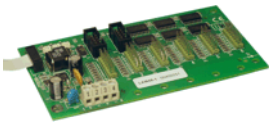
Features
- 5 parameterisable inputs for control functions
- Possible connection of up to three LED Display Fields LAB48-x or LED Connection Modules LAM48-1 in any combination
- LEDs can be used to indicate the conditions of detectors, detector zones, actuations, actuation elements, alarming devices, transmitting devices, extinguishing systems or flooding zones and the most important system conditions (e.g., summary alarm, fault or disabled condition) depending on the parameter setup
- Individual or summary display of events from detectors, detector zones, actuations, actuation elements, alarming devices and transmitting devices, depending on the parameter setup
- USB interface for parameter setup using the Parameter Setup Software PARSOFT (PARSOFT version V1.21 or higher is required for parameterisation of the PTU288-1)
- Setable baudrate and INFO bus address

Specifications

Operating voltage	15 - 31VDC
Current consumption at 24V	typ. 15mA (without LED componentries)
Baud rate INFO bus	600, 1200, 2400, 4800 baud
Baud rate INFO bus EP	1200, 2400, 4800, 9600, 14400 baud
Ambient temperature	-20°C to +60°C
USB connection	USB plug socket type B
Dimensions L × W × H	150 × 75 × 20 (mm)
Weight	76g

Cross-references	Page	Art.No.	Name Type
	101	252013	LED Connection Module LAM48-1
	99	214024	LED Display Field LAB48-1
	100	214030	LED Display Field LAB48-2
	100	214032	LED Display Field LAB48-3
	100	214036	LED Display Field LAB48-4
	98	252010	LED Display Tableau LAT288-1
	99	252011	LED Display Tableau LAT288-1CE
	45	210112	Serial Interface Module SIM016-3
	2	211999T	Series BC600, Description

252013 LED Connection Module LAM48-1



The LED Connection Module LAM48-1 is connected to the Remote Tableau Drive Unit PTU288-1 and indicates events from a Fire Detection Control Panel Series BC600, Series BC216 or Series BC016 and from an Extinguishing Control Panel Series LC216 via 48 LED indicators or relay outputs. The LED connection module is therefore ideal for the design of synoptic remote tableaus.

Each of the 48 outputs can be used for actuation of one light emitting diode or of one relay output of a Relay Module RL58-1 or RL58-2. The signals are available at a pin strip header, which is prepared for the connection of pre-assembled LED cables. The first 16 outputs are available, in addition, at two ten-pin connectors, each for the connection of one Relay Module RL58-1 or one RL58-2 via a flat cable. If more than 16 relay outputs are required, further actuation inputs of additional relay modules can be connected to the LED connection module via suitable connection cables. This componentry is prepared for mounting in the LST standard grid and comes with the required mounting material.

Specifications

Operating voltage	15 - 31VDC
Current consumption at 24V	typ. 3mA (quiescent)
	max. 80mA (lamp test, 48 LEDs connected)
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	135 × 75 × 15 (mm)
Weight	62g

Cross-references	Page	Art.No.	Name Type
	104	259013	Cord 2 Wire for LED Connection/10pcs. LED-LEITUNG/10
	101	259011	LED Assembled Green/10pcs. LED-GN/10
	104	259010	LED Assembled Red/10pcs. LED-RT/10
	104	259012	LED Assembled Yellow/10pcs. LED-GE/10
	86	222004	Relay Module RL58-1
	86	222010	Relay Module RL58-2
	100	252012	Remote Tableau Drive Unit PTU288-1

259011 LED Assembled Green/10pcs. LED-GN/10

The assembled light emitting diodes are used for simple and quick wiring and mounting of green LED indicators on a synoptic remote tableau. The packing unit contains 10 LEDs with an assembled connection cable.

Features

- On one end, each cable has attached a bright green 5mm LED indicator, and on the other end a 2-pin connector, which fits the 2.54mm grid of the pin strip header on the LED Connection Module LAM48-1
- For each LED indicator, a black plastic LED clip is provided to guarantee a time-saving installation of LEDs
- No soldering required

Specifications

Operating voltage	supply via LED Connection Module LAM48-1
Length of LED cable	2m
LED Ø	5mm
Drilling for LED clip Ø	6.3 - 6.5mm
Thickness of front panel	max. 2mm

Cross-references	Page	Art.No.	Name Type
	101	252013	LED Connection Module LAM48-1

259010 LED Assembled Red/10pcs. LED-RT/10

Functions, specifications and cross references are equal to the packing unit of 'LED Assembled Green/10pcs.' Pre-assembled lines though are equipped with bright red LED indicators.

259012 LED Assembled Yellow/10pcs. LED-GE/10

Functions, specifications and cross references are equal to the packing unit of 'LED Assembled Green/10pcs.' Pre-assembled lines though are equipped with bright yellow LED indicators.

259013 Cord 2 Wire for LED Connection/10pcs. LED-LEITUNG/10

The two-pin connection cable connects light emitting diodes or relays to the LED Connection Module LAM48-1. The cable is required if non-assembled LEDs are used, or if more than two Relay Modules RL58-1 or RL58-2 (which can be directly connected to the LED Connection Module via a flat cable) are being actuated. In this case, the cable connects two additional actuation inputs of a further Relay Module RL58-1 or RL58-2.

One side of the cable has a connector assembled, fitting to the pin strip header of the LED connection Module LAM48-1, the other side has flying leads. The packing unit contains 10 cables.

Specifications

Length of cable	2m

Cross-references	Page	Art.No.	Name Type
	101	252013	LED Connection Module LAM48-1
	86	222004	Relay Module RL58-1
	86	222010	Relay Module RL58-2

12 Fire Brigade Key Boxes and Accessories

265740 Fire Brigade Key Box FSK700-2/D1

The Fire Brigade Key Box FSK700-2 is certified according to VdS 2105 and serves for the theft-proof and copy-protected safekeeping of a key which allows the fire brigade fast and non-violent access to the building in the event of fire. Housing and blind frame are made of 5mm stainless steel and, therefore, provide not only mechanical stability but also high corrosion resistance. A standard built-in heating device (5W) guarantees unhindered opening of the outer door even at low temperatures. The key box can be connected to an existing burglar alarm system without any additional items. The electric components of the key box are designed for an operating voltage of 12 to 24VDC, which allows the Fire Brigade Key Box FSK700-2 to be connected via the Control Unit AD900-1 to any fire detection control panel (even from other manufacturers).

Features

- High mechanical safety due to use of strong materials and intelligent design
- High corrosion resistance, entire body construction made of stainless steel V2A
- Burglar alarm surveillance for the following componentries and functions
  - Outer door protected against drilling and forced opening
  - Correct deposit of the key in the cylinder of the console
- Application of all locking systems possible due to a variety of optional inner doors
- Buzzer for indication of incorrect deposit of key
- Heating device for outer door
- Optional flush mounting frame enables preparation for installation; also available with all-side drilling protection
- Adjusting options for even alignment of the key box
- Installation in optional key depot column possible

12

Specifications

Operating voltage	12/24VDC ± 15%
Duty cycle of electromagnet	100%
Current consumption at 12/24VDC	typ. 260mA
Outer door heating	24VAC/DC/5VA
Resistance of alarm circuit	2.2kOhm ±5%
Ambient temperature	-25°C to +70°C
Protection class	IP44
Dimensions W × H × D	280 × 264 × 145 (mm)
Weight	11.3kg
Approval	VdS G199055

Cross-references	Page	Art.No.	Name Type
	107	265744	Auxiliary Cylinder PHZ700-2
	108	265900	Control Unit for FSK AD900-1/D1
	106	265818	Flush Mount. Frame/Drilling Protection EZBS700-2
	105	265751	Flush Mounting Frame for FSK700-2 EZ700-2/D1
	106	265766	Inner Door for FSK700-2/PHZ/30.5mm ITA-4/D1
	106	265767	Inner Door for FSK700-2/PHZ/35.5mm ITA-5/D1
	108	265810	Key Depot Column SDS700-2
	107	237700	Power Supply for FSK Heating NT700-1
	107	249650	Protective Cover for FSK700-2/2SX WSD-FSK
	111	265662	Unblocking Element for PHZ FSE/PHZ900-1

265751 Flush Mounting Frame for FSK700-2 EZ700-2/D1

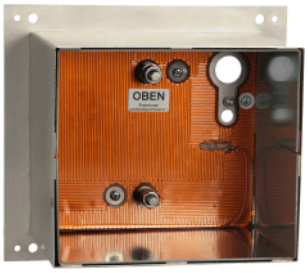
The flush mounting frame, made of galvanised sheet steel, allows easy flush mounting of a Fire Brigade Key Box FSK700-2 or FSK700-2SX as well as installation into a Key Depot Column SDS700-2 with concrete filling. In the construction phase of the building, the flush mounting frame is embedded in a wall, or the flush mounting frame is mounted into the column and the column is filled with concrete. When the construction work has been finished, the fire brigade key box can be inserted and screwed on. Later on, it can also be disassembled easily.

Specifications

Dimensions W × H × D	275 × 245 × 160 (mm)
Weight	3.3kg
Approvals	VdS G106058 VdS G199055

Cross-references	Page	Art.No.	Name Type
	105	265740	Fire Brigade Key Box FSK700-2/D1
	108	265810	Key Depot Column SDS700-2

265818 Flush Mount. Frame/Drilling Protection EZBS700-2



The flush mounting frame is made of galvanised sheet steel and allows easy flush mounting of a Fire Brigade Key Box FSK700-2 or FSK700-2SX. In order to fulfil VdS 2350, an all-side drilling protection is integrated as standard. As a result, an FSK700-2/2SX can even be installed into a Key Depot Column SDS700-2 without concrete filling, or on the outside of a building where the wall does not provide sufficient protection against sabotage.

Specifications

Dimensions W × H × D	275 × 245 × 160
Weight	3.5kg
Approval	VdS G106058

Cross-references	Page	Art.No.	Name Type
	105	265740	Fire Brigade Key Box FSK700-2/D1
	108	265810	Key Depot Column SDS700-2

12

265766 NEW Inner Door for FSK700-2/PHZ/30.5mm ITA-4/D1

The inner door for the Fire Brigade Key Box FSK700-2 or FSK700-2SX is made of 5mm stainless steel. The lock which is mounted on the door is suitable for a profile half cylinder with 30.5mm cylinder length. A door stop and the accessories needed for the installation are included in the delivery.

Specifications

Dimensions W × H × D	108 × 150 × 40 (mm)
Weight	approx. 500g

265767 Inner Door for FSK700-2/PHZ/35.5mm ITA-5/D1

The inner door for the Fire Brigade Key Box FSK700-2 or FSK700-2SX is made of 5mm stainless steel. The lock which is mounted on the door is suitable for a profile half cylinder with 35.5mm cylinder length. A door stop and the accessories needed for the installation are included in the delivery.

Specifications

Dimensions W × H × D	108 × 150 × 40 (mm)
Weight	approx. 500g

Cross-references	Page	Art.No.	Name Type
	105	265740	Fire Brigade Key Box FSK700-2/D1

265744 Auxiliary Cylinder PHZ700-2

The standardised Auxiliary Cylinder PHZ700-2 can be installed into a Fire Brigade Key Box FSK700 instead of the profile half cylinder for the building key. In this case, one or more building keys are attached by means of the Cable Seal KP-FSK. The Cable Seal is included in the delivery.

Cross-references	Page	Art.No.	Name Type
	107	265780	Cable Seal 2,5x200 blue KP-FSK
	105	265740	Fire Brigade Key Box FSK700-2/D1

265780 Cable Seal 2,5x200 blue KP-FSK

By means of the cable seal, the building key is permanently fastened to the auxiliary cylinder key of a fire brigade key box. The wire cable is introduced into the aluminium body and pulled out of it up to the desired length. The seal can only be opened by destroying the cable.

Specifications

Dimensions Ø-cable × L	2.5 × 200 (mm)

249650 Protective Cover for FSK700-2/2SX WSD-FSK

The protective cover WSD-FSK is made of V2A stainless steel and provides the Fire Brigade Key Box FSK700-2 or FSK700-2SX with additional protection against moisture in the area of the outer door, when raining water penetrates this area from the top or from the side. The protective cover is easily placed from the top behind the trim frame of the fire brigade key box.

Specifications

Dimensions W × H × D	287 × 267 × 55 (mm)
Weight	500g

Cross-references	Page	Art.No.	Name Type
	105	265740	Fire Brigade Key Box FSK700-2/D1

12

237700 Power Supply for FSK Heating NT700-1

The power supply NT700-1 provides the voltage supply for the exterior door heating of the Fire Brigade Key Boxes FSK700-2 and FSK700-2SX. The power supply is integrated in a surface mounting box that is suitable for DIN rail mounting. A circuit breaker is installed for overload and short-circuit protection.

Specifications

Operating voltage	230VAC +10/-15%, 50Hz
Output voltage	24VAC
Output power	8VA
Protection class	IP30
Ambient temperature	0°C to +70°C
Dimensions W × H × D	110 × 180 × 80 (mm)
Weight	900g

Cross-references	Page	Art.No.	Name Type
	105	265740	Fire Brigade Key Box FSK700-2/D1

265900 Control Unit for FSK AD900-1/D1

The Control Unit AD900-1/D1, according to VdS 2105, is used for monitoring and control of the fire brigade key box. The unit is accommodated in a grey white steel sheet case, suitable for surface indoor mounting. The optical indicators 'Power', 'Key Box alarm, 'Key Box unlocked' and 'Key removed' are clearly arranged and indicate the operating conditions of the system. The AD900-1/D1 is able to monitor all stored keys in the Fire Brigade Key Box FSK700-2SX for proper storage and removal, and to optically indicate the corresponding key. The operating voltage of 10-30VDC enables the connection to all commercial control panels without adjustment. Numerous adaptations to specific system conditions (actuation with High or Low signal, static or dynamic transmission of key box alarm to the fire detection or burglar alarm control panel, open-circuit or closed-circuit operation) are possible by means of the DIL switch. Opening of the unit is monitored by a door contact.

Features

- Easy adaptation to different system configurations via DIL switch
- Function testing of box monitoring with button
- Reset of alarm memory with button
- Temporary unlocking for testing with button

Specifications

Operating voltage	10 - 30VDC
Current consumption	max. 20mA (without box locking system)
Ambient temperature	-10°C to +50°C
Protection class	IP30
Dimensions W × H × D	137 × 180 × 57 (mm)
Colour	grey white, RAL 9002
Weight	1.2 kg
Approval	VdS G105045

Cross-references	Page	Art.No.	Name Type
	105	265740	Fire Brigade Key Box FSK700-2/D1

265810

Key Depot Column SDS700-2

The key depot column is made of 3mm stainless steel and provides a platform for mounting a Fire Brigade Key Box FSK700-2/2SX and an unblocking element, if installing the key box in the building facade is not possible due to technical or structural reasons. The key depot column consists of a U-shaped body and the back plate, which can be removed for easy installation. If necessary, a strobe can be mounted on the top cover of the column.

The key depot column can be used as vertical column with concrete filling or as hollow column without concrete filling. For the different ways of mounting the key depot column, the Reinforcement Iron Cage MEK700-2 or the mounting kit Heavy Duty Anchor SLA700-2 are available.

Features

- Allows installation of a standard flush mounting frame or a flush mounting frame with all-side drilling protection, which can accommodate the FSK700-2/2SX
- Easy installation of various unblocking elements
- Extensive mounting accessories
- Flexible armoured tube for different types of cables
- Surface made of polished stainless steel

Specifications

Dimensions W × H × D	400 × 1350 × 300 (mm)
Weight	49kg (without installations and top cover)
Approval	VdS G106058

Cross-references	Page	Art.No.	Name Type
	110	265809	Cover Plate ADP700-2
	110	265816	Distribution Box VT700-2
	105	265740	Fire Brigade Key Box FSK700-2/D1
	106	265818	Flush Mount. Frame/Drilling Protection EZBS700-2
	105	265751	Flush Mounting Frame for FSK700-2 EZ700-2/D1
	109	265811	Heavy Duty Anchor SLA700-2
	112	265814	Mounting Kit for FSE-PZ MOSET1/700-2
	109	265812	Reinforcement Iron Cage MEK700-2
	110	265813	Top Cover Contact DK700-2
	110	265817	Top Cover DA1/700-2
	110	265819	Top Cover for Flash DA2/700-2
	111	265662	Unblocking Element for PHZ FSE/PHZ900-1

265820

Key Depot Column /1650mm SDS700-2/MOD3

The key depot column is identical with the key depot column SDS700-2. In addition, it is prepared for installation of unblocking elements, letter boxes and other devices such as intercom systems. The devices that can be installed are not included in the delivery.

Specifications (for further specifications, see SDS700-2)

Dimensions W × H × D	400 × 1650 × 300 (mm)
Weight	60kg (without installations and top cover)

265812

Reinforcement Iron Cage MEK700-2

The reinforcement iron cage serves to reinforce the key depot column when it is used as vertical column with concrete filling. The delivery scope includes 4 anchor rods and splicing wire.

Specifications

Dimensions W × H × D	210 × 1500 × 210 (mm)
Weight	10kg

Cross-references	Page	Art.No.	Name Type
	108	265810	Key Depot Column SDS700-2

265811

Heavy Duty Anchor SLA700-2

The Heavy Duty Anchor SLA700-2 is a mounting kit which consists of four M12 chemical anchor capsules, 4 threaded anchor rods M12 x 160 (mm), 4 washers and 4 hexagon nuts.

Cross-references	Page	Art.No.	Name Type
	108	265810	Key Depot Column SDS700-2

265817

Top Cover DA1/700-2

The flat top cover with edged sides is made of 3mm stainless steel and is required for covering the Key Depot Column SDS700-2. The mounting material is included in the delivery.

Specifications

Dimensions W × H × D	410 × 30 × 320 (mm)
Weight	approx. 3.6kg

Cross-references	Page	Art.No.	Name Type
	108	265810	Key Depot Column SDS700-2
	110	265813	Top Cover Contact DK700-2

265819 Top Cover for Flash DA2/700-2

The flat top cover with edged sides is made of 3mm stainless steel and is required for covering the Key Depot Column SDS700-2. The cover is prepared for installing strobes in various colours. The mounting material is included in the delivery.

Specifications

Dimensions W × H × D	410 × 30 × 320 (mm)
Weight	approx. 3.6kg

Cross-references	Page	Art.No.	Name Type
	113	355675	Base for Sounder/Strobe/IP65/white SW-IP65-SQ/RO
	108	265810	Key Depot Column SDS700-2
	112	356682	Strobe/WM/DC/white/amber/N SOLEX10A
	110	265813	Top Cover Contact DK700-2

265813 Top Cover Contact DK700-2

The top cover contact is used for monitoring the idle position of the cover plate of a key depot column. The delivery scope includes a flexible cable in a tube, a steel plate and the mounting material.

Cross-references	Page	Art.No.	Name Type
	108	265810	Key Depot Column SDS700-2
	110	265817	Top Cover DA1/700-2
	110	265819	Top Cover for Flash DA2/700-2

12

265809 Cover Plate ADP700-2

The cover plate is made of 3mm V2A stainless steel and is used for covering the cut-out for unblocking elements in the Key Depot Column SDS700-2, if no unblocking element is installed.

Cross-references	Page	Art.No.	Name Type
	108	265810	Key Depot Column SDS700-2

265816 Distribution Box VT700-2

By means of the Distribution Box VT700-2, the FSK700-2 or FSK700-2SX and further components such as an unblocking element or a strobe can be cabled in compliance with the relevant standards, if the Key Depot Column SDS700-2 is only connected via one cable and the column is not filled with concrete. The article consists of a VdS Class C distribution box P2002K, which has been mounted in an IP66 housing and which is equipped with 2 tamper switches and 2 terminal strips in LSA Plus technology.

Specifications

Dimensions W × H × D	182 × 180 × 90 (mm)
Colour	light grey, RAL 7035
Weight	0.9kg
Approval	VdS G106058

Cross-references	Page	Art.No.	Name Type
	108	265810	Key Depot Column SDS700-2

265662

Unblocking Element for PHZ FSE/PHZ900-1

The Unblocking Element FSE/PHZ900-1 is used as unlocking device for fire brigade key boxes in order to allow access to the deposited master key. Therefore, in the event of impending damage that may be caused by a storm or high water, the safety personnel can enter the building even without fire alarm.

Features
- All mechanical components made of stainless steel
- Hermetically sealed switch with gold contacts
- Integrated heating
- Profile half cylinder with length of 25mm, 30mm or 35mm can be installed
- Compatible with all standard fire detection control panels
- Universal line-monitored connection

Specifications

Contact rating of switch	max. 1A/42VAC/DC
Heating	24VAC/DC, 1VA
Length of profile half cylinder	25mm, 30mm, 35mm
Protection class	IP54
Ambient temperature	-25°C to +60°C
Dimensions W × H × D	80 × 80 × 80 (mm)
Weight	0.5kg (without cylinder)
Approval	VdS G109094

Cross-references	Page	Art.No.	Name Type
	105	265740	Fire Brigade Key Box FSK700-2/D1
	108	265810	Key Depot Column SDS700-2
	111	265663	Mounting Kit for FSE/PHZ900-1 MOSET-FSE/PHZ900-1
	112	265814	Mounting Kit for FSE-PZ MOSET1/700-2
	112	265664	Protective Cover for FSE/PHZ900-1 SABD900-1

12

265663

Mounting Kit for FSE/PHZ900-1 MOSET-FSE/PHZ900-1

By means of the mounting kit, an Unblocking Element FSE/PHZ900-1 can be mounted on facades with thermal insulation. The set includes the mounting plate, 4 threaded rods with nuts and hexagon bolts, an armoured plastic tube and a screw joint.

By cutting the threaded rods to the correct length, the completely installed unit can be adapted to the thickness of the thermal insulation, ranging between 45mm and 160mm.

Specifications

Base plate ∅	100mm
Mounting dimensions W × H	80 × 80 (mm)
Material	stainless steel
Weight	275g

Cross-references	Page	Art.No.	Name Type
	111	265662	Unblocking Element for PHZ FSE/PHZ900-1

265664

Protective Cover for FSE/PHZ900-1 SABD900-1

The protective cover SABD900-1 additionally protects an Unblocking Element FSE/PHZ900-1 against vandalism and the strong influence of the weather. The mounting material as well as the necessary special tools are included in the delivery.

Specifications

Dimensions W × H × D	80 × 80 × 12 (mm)
Material	stainless steel
Weight	560g

Cross-references	Page	Art.No.	Name Type
	111	265662	Unblocking Element for PHZ FSE/PHZ900-1

265814

Mounting Kit for FSE-PZ MOSET1/700-2

The mounting kit is used for installing an unblocking element for a profile half cylinder in a key depot column and consists of a flexible armoured plastic tube, a screw joint and mounting screws.

Specifications

Screw joint	M12 × 1.5
Tube length	800mm

Cross-references	Page	Art.No.	Name Type
	108	265810	Key Depot Column SDS700-2
	111	265662	Unblocking Element for PHZ FSE/PHZ900-1

356682

Strobe/WM/DC/white/amber/N SOLEX10A

The Strobe SOLEX10A has an orange cap and is suitable for indoor and outdoor mounting. The strobe comes with a base. A deep base version is available by means of which the protection class can be increased to IP65.

Features

- Very high flash energy
- Wide operating voltage range
- Suitable for surface mounting
- Easy to mount due to bayonet lock
- Locking base

Specifications

Operating voltage	9 - 60VDC
Current consumption at 24V	80mA
Flash frequency	1Hz
Luminous intensity	10Cd
Ambient temperature	-25°C to +70°C
Protection class	IP54 (with standard base) IP65 (with base SW-IP65-SQ/RO)
Dimensions Ø × H	93 x 63 (mm)
Colour base	signal white, RAL 9003
Colour cap	orange
Weight	150g
Approval	VdS G207018

Cross-references	Page	Art.No.	Name Type
	113	355675	Base for Sounder/Strobe/IP65/white SW-IP65-SQ/RO

355675

Base for Sounder/Strobe/IP65/white SW-IP65-SQ/RO

The base SW-IP65-SQ/RO serves for mounting of sounders Series Roshni and of strobes Series Solex. The design of the base allows the cable to be entered from the back or from the side.

Specifications

Ambient temperature	-25°C to +70°C
Protection class	IP65
Dimensions Ø × D	93 × 48 (mm)
Colour	white
Weight	50g

268009

Fire Brigade Key Box FASB-AP

The fire brigade key deposit FASB-AP for surface mounting is used for storage of additional building keys. The key deposit is delivered without a lock. It provides authorised access for the fire brigade or secured access for service personnel (e.g., technicians for elevator or heating). On fire brigade access routes, the key deposit is only allowed on demand by the fire brigade, e.g., when the access to the fire brigade key box is secured by a barrier. The door and the stored key are not monitored. The door is opened and locked simply by means of the cylinder lock.

Features
- Key deposit made of powder coated steel sheet
- Easy to mount

Specifications

Colour	pebble-grey, RAL 7032
Dimensions W × H × D	150 × 150 × 57 (mm)
Weight	2.4kg

Cross-references	Page	Art.No.	Name Type
	114	265021	Cylinder for Steel Sheet Mounting LST1003-2

268010

Fire Brigade Key Box FASB-UP

The fire brigade key box FASB-UP for flush mounting is used for storage of additional building keys. The key deposit is delivered without a lock. It provides authorised access for the fire brigade or secured access for service personnel (e.g., technicians for elevator or heating). On fire brigade access routes, the key deposit is only allowed on demand by the fire brigade, e.g., when the access to the fire brigade key box is secured by a barrier. The door and the stored key are not monitored. The door is opened and locked simply by means of the cylinder lock.

Features
- Key deposit made of powder coated steel sheet
- Easy to mount

Specifications

Colour	pebble-grey, RAL 7032
Dimensions W × H × D	150 × 150 × 57 (mm)
Weight	1.65kg

Cross-references	Page	Art.No.	Name Type
	114	265021	Cylinder for Steel Sheet Mounting LST1003-2

265021

Cylinder for Steel Sheet Mounting LST1003-2

The cylinder for sheet steel mounting with the uniform magnetic locking system for the fire brigade is intended for installation in the Fire Brigade Key Box FASB.

Cross-references	Page	Art.No.	Name Type
	114	268009	Fire Brigade Key Box FASB-AP
	114	268010	Fire Brigade Key Box FASB-UP
	115	268011	MCS Key 882AML1003

268011

MCS Key 882AML1003

The key 882AML1003 for the installer of the system fits the magnetic lock cylinder LST1003, which is installed in the fire brigade key safe FSS850, as well as the magnetic cylinder for sheet steel mounting LST1003-2, which is intended for installation in the Fire Brigade Key Box FASB.

Cross-references	Page	Art.No.	Name Type
	114	265021	Cylinder for Steel Sheet Mounting LST1003-2

13 Fire Brigade Control and Display Devices

250025 Fire Brigade Control Unit FBF70-1/S1

The Swedish version of the Fire Brigade Control Unit FBF70-1 is designed for the indication of the most important events and operating conditions of a Fire Detection Control Panel Series BC600, Series BC216 or Series BC016 by means of light emitting diodes and an additional text display, as well as to allow the fire brigade personnel to operate a fire detection system in an easy and standardised way. The operating elements are labelled in Swedish language.

In addition, a lock according to the standard SS 3654 is integrated in the fire brigade control unit. By means of this lock, the fire brigade personnel can directly access authorization level 2.

On the integrated 4-line LC display, alarms and disablements of the fire detection control panel are indicated as clear text and can be called up one after the other by means of the scroll button. In addition, the alarms are signalled by the integrated buzzer.

By means of the Parameter Setup Software PARSOFT, general parameters of the control unit as well as the function of the inputs and outputs can be set. For each of the 4 light emitting diodes which indicate events, the colour and the number interval for the activation can be determined. Furthermore, the firmware can be updated by means of PARSOFT, and with that, the control unit can be provided with functions which may be required in the future.

The Fire Brigade Control Unit FBF70-1 is actuated via the INFO bus of the control panel or via the INFO bus EP of a Fire Detection Control Panel Series BC600. The fire brigade control unit can be connected to a Fire Detection Control Panel Series BC600 or Series BC216 without any additional devices. For the connection to a Fire Detection Control Panel Series BC016, a Serial Interface Module SIM016-3 is required.

Features
- 4-line LC display for the indication of events as clear text
- Parameterisable LED displays for important operating conditions
- Integrated buzzer with silence function
- Multilingual operation menu
- USB interface for parameterisation and firmware update
- LED and LCD test function
- 4 auxiliary inputs and 2 auxiliary outputs with parameterisable function
- Lettering of the display elements by means of labelling strips
- Sheet steel housing for wall mounting

Specifications

Operating voltage	15 to 31VDC
Current consumption at 24V	typ. 15mA (quiescent) typ. 55mA (display test)
Baud rate INFO bus	600, 1200, 2400, 4800 baud
Baud rate INFO bus EP	1200, 2400, 4800, 9600, 14400 baud
Serial interface connection	USB socket type B
Ambient temperature	-20°C to +60°C
Relative humidity	max. 95%
Protection class	IP30
Dimensions W × H × D	250 × 174 × 30 (mm)
Colour housing	grey white, RAL 9002
Weight	1.4kg

Cross-references	Page	Art.No.	Name Type
	2	211999T	Series BC600, Description

250026 Alarm Delay Control Unit IBF70-1/S1

The Swedish version of the Alarm Delay Control Unit IBF70-1 is designed for the indication of the Alarms and the most important operating conditions of a Fire Detection Control Panel Series BC600, Series BC216 or Series BC016 by means of light emitting diodes and an additional text display, as well as for operating the alarm delay procedure of the transmitting device at a site that is remote from the fire detection control panel. The operating elements are labelled in Swedish language.

On the integrated 4-line LC display, alarms of the fire detection control panel are indicated as clear text. In addition, the alarms are signalled by the integrated buzzer.

By means of the Parameter Setup Software PARSOFT, general parameters of the control unit, the function of the inputs and outputs, and sectors for the alarm delay procedure can be set. For each of the 4 light emitting diodes which indicate events, the colour and the number interval for the activation can be determined. Furthermore, the firmware can be updated by means of PARSOFT, and with that, the control unit can be provided with functions which may be required in the future.

The Alarm Delay Control Unit IBF70-1 is actuated via the INFO bus of the control panel or via the INFO bus EP of a Fire Detection Control Panel Series BC600. The control unit can be connected to a Fire Detection Control Panel Series BC600 or Series BC216 without any additional devices. For the connection to a Fire Detection Control Panel Series BC016, a Serial Interface Module SIM016-3 is required.

Features
- 4-line LC display for the indication of alarms as clear text
- Parameterisable LED displays for important operating conditions
- Integrated buzzer with silence function
- Multilingual operation menu
- USB interface for parameterisation and firmware update
- LED and LCD test function
- 4 auxiliary inputs and 2 auxiliary outputs with parameterisable function
- Lettering of the display elements by means of labelling strips
- Sheet steel housing for wall mounting

Specifications

Operating voltage	15 to 31VDC
Current consumption at 24V	typ. 15mA (quiescent) typ. 55mA (display test)
Baud rate INFO bus	600, 1200, 2400, 4800 baud
Baud rate INFO bus EP	1200, 2400, 4800, 9600, 14400 baud
Serial interface connection	USB socket type B
Ambient temperature	-20°C to +60°C
Relative humidity	max. 95%
Protection class	IP30
Dimensions W × H × D	250 × 174 × 30 (mm)
Colour housing	grey white, RAL 9002
Weight	1.4kg

Cross-references	Page	Art.No.	Name	Type
	2	211999T	Series BC600, Description	

13

250028 Fire Brigade Control Unit FBF70-1E/INT1

----- Availability on request -----

The international version of the Fire Brigade Control Unit FBF70-1 is designed for the indication of the most important events and operating conditions of a Fire Detection Control Panel Series BC600 by means of light emitting diodes and a text display. Additionally, the unit allows the fire brigade personnel to operate the fire detection system in an easy and standardised way.

On the integrated 4-line LC display, alarms and disablements of the fire detection control panel are indicated as clear text and can be called up one after the other by means of the scroll button. In addition, the alarms are signalled by the integrated buzzer.

By means of the Parameter Setup Software PARSOFT, general parameters of the control unit as well as the function of the inputs and outputs can be set. For each of the 4 light emitting diodes which indicate events, the colour and the number interval for the activation can be determined. Furthermore, the firmware can be updated by means of PARSOFT, and with that, the control unit can be provided with functions which may be required in the future.

The Fire Brigade Control Unit FBF70-1 can be installed in one of the expansion fields in the door of the fire detection control panel, in the Display And Operating Front Panel ABP600-1L or in the Expansion Front Panel EFP600-1. The unit is actuated via the INFO bus or via the INFO bus EP of the control panel.

Features
- 4-line LC display for the indication of events as clear text
- Parameterisable LED displays for important operating conditions
- Integrated buzzer with silence function
- Multilingual operation menu
- USB interface for parameterisation and firmware update
- LED and LCD test function
- 4 auxiliary inputs and 2 auxiliary outputs with parameterisable function
- Lettering of the display elements by means of labelling strips

Specifications

Operating voltage	15 to 31VDC
Current consumption at 24V	typ. 15mA (quiescent) typ. 55mA (display test)
Baud rate INFO bus	600, 1200, 2400, 4800 baud
Baud rate INFO bus EP	1200, 2400, 4800, 9600, 14400 baud
INFO bus connection	screw terminals
Serial interface connection	USB socket type B
Ambient temperature	-20°C to +60°C
Relative humidity	max. 95%
Dimensions W × H × D	218 × 155 × 30 (mm)
Colour front foil	light grey, RAL 7035
Weight	0.4kg

Cross-references	Page	Art.No.	Name Type
	35	211330	Display and Operating Front Panel ABP600-1L
	36	211331	Expansion Front Panel 19"/4HU EFP600-1
	2	211999T	Series BC600, Description

250029 Fire Brigade Control Unit FBF70-1E/S1

The Swedish version of the Fire Brigade Control Unit FBF70-1 corresponds to the international version FBF70-1E/INT1. The operating elements are however labelled in Swedish language.

In addition, a lock according to the standard SS 3654 is integrated in the fire brigade control unit. By means of this lock, the fire brigade personnel can directly access authorization level 2.

250740 DISCON. Fire Brigade Control Unit FBF900-1/D1

The Fire Brigade Control Unit FBF900-1/D1 according to DIN 14661 is used for connection to fire detection systems. The control unit provides an optical display for the most important operating conditions of the fire detection control panel to facilitate and standardise the operation of a fire detection system for the fire brigade.

A direct connection to Fire Detection Control Panels Series BC600, Series BC216 and BC016 can be established via the fire brigade interface. Parameters for in- and outputs are set at the control panel.

Thanks to the actuation in positive or negative logic, which can be individually selected for each input, and the operating voltage range from 10 to 30V, the FBF900-1/D1 can also be connected to fire detection control panels of other manufacturers.

Features

- Green LED indicator for 'Operation'
- Red LED indicators for 'Panel summary alarm' and 'Extinguishing systems activated'
- Yellow LED indicators for 'Acoustic signals off', 'Transmitting device disabled', 'Transmitting device activated' and 'Fire controls off'
- Switch 'Acoustic signals off'
- Button 'Panel reset' with safety cover
- Switch 'Transmitting device off'
- Button 'Testing transmitting device'
- Metal case with glass door
- Prepared for a half cylinder locking mechanism

Specifications

Operating voltage	10 - 30VDC
Current consumption at 12VDC	< 20mA (quiescent), < 50mA (alarm)
Current consumption at 24VDC	< 20mA (quiescent), < 50mA (alarm)
Environmental class	II
Protection class	IP30
Dimensions W × H × D	225 × 180 × 57 (mm)
Colour	grey white, RAL 9002
Weight	2kg
Approval	VdS G200079

Cross-references	Page	Art.No.	Name Type
	44	210111	Fire Brigade Interface FWI016-1
	20	211113	Fire Brigade Interface FWI600-1

250630 Fire Brigade Display Panel FAT950-1/D1

The Fire Brigade Display Panel FAT950-1/D1 according to DIN 14662 is an ancillary device for fire detection systems and allows acoustic and optical indication of events from detectors or detector zones and of control panel events of Fire Detection Control Panels Series BC600 and Series BC216 at a remote site. The standardised and clear design is user friendly and allows the fire brigade personnel a quick overview of the relevant information and easy operation.

If the FAT950-1/D1 is used as a means of initial information for the fire brigade personnel, it is connected to the fire detection control panels via the optional Redundant Connection Adapter FAR950-1/D1. Alternatively, this device can also be connected directly to the INFO bus of the Fire Detection Control Panel Series BC600 or Series BC216. The operating voltage is supplied by the fire detection control panel and is therefore protected against mains failure, and depending on the selected operating mode, it is fed without or with redundancy.

By default, the event texts of the fire detection control panel are adopted. Additional texts can be edited with the Parameter Setup Software PARSOFT. Furthermore, the Parameter Setup Software PARSOFT allows limiting the indication of events by parameterising filters. As a result, certain types of events (e.g., technical messages, faults or disablements) can be suppressed or number ranges can be determined for output. In this way, area tableaus for separate fire brigade access points can be easily implemented.

The front panel of the display panel can be rotated to the left and allows free access to the connection plate with screw terminals at the back panel of the housing. The housing is equipped with a lock for profile half cylinders. The lock cylinder has to be installed after consulting the local fire brigade.

Features
- Green LED for "operation"
- Red LED for "alarm"
- Yellow LED for faults
- Yellow LED for disablements
- Buttons "Display level / >5s: History", "Buzzer off / >5s: Test", "Scroll forwards" and "Scroll backwards"
- 4 line by 20 character backlit display
- Integrated buzzer with silence function
- Multilingual operation menu
- USB interface for parameterisation and firmware update
- LED and LCD test function
- 4 switching inputs and two switching outputs with parameterisable function
- Stylish metal housing with lockable door
- Hinged front panel
- Separate connection plate with screw terminals
- Surface mounted gate lock for profile half cylinder

Specifications

Operating voltage	10 - 30VDC
Current consumption at 24V	17mA (display and LEDs dark), 75mA (buzzer + display test)
Baud rate	600, 1200, 2400, 4800 baud
Serial interface connection	USB socket type B
Ambient temperature	0°C to +50°C
Relative humidity	max. 95% (no condensation)
Protection class	IP30
Dimensions W × H × D	250 × 180 × 43 (mm)
Colour	pebble grey, RAL 7032
Weight	1.75kg
Approval	VdS G213064

Cross-references	Page	Art.No.	Name Type
	122	250632	Redundant Connection Adapter FAR950-1/D1
	2	211999T	Series BC600, Description

250631

Fire Brigade Orientation Panel FOT950-1/D1

As a means of initial information, the Fire Brigade Orientation Panel FOT950-1/D1 provides the fire brigade personnel on-site with quick and precise information about the condition of the fire detection system. It includes a fire brigade control unit according to DIN 14661, which allows the fire brigade to operate the fire detection control panel, and a fire brigade display panel according to DIN 14662 for the retrieval of information.

If the FOT950-1/D1 is used as a means of initial information for the fire brigade personnel, it is connected to the fire detection control panel via the optional Redundant Connection Adapter FAR950-1/D1. Alternatively, this device can also be connected directly to the INFO bus of the Fire Detection Control Panel Series BC600 or Series BC216. The operating voltage is supplied by the fire detection control panel and is therefore protected against mains failure, and depending on the selected operating mode, it is fed without or with redundancy.

By default, the event texts of the fire detection control panel are adopted. Additional texts can be edited with the Parameter Setup Software PARSOFT. Furthermore, the Parameter Setup Software PARSOFT allows limiting the indication of events by parameterising filters. As a result, certain types of events (e.g., technical messages, faults or disablements) can be suppressed or number ranges can be determined for output. In this way, area tableaus for separate fire brigade access points can be easily implemented.

Four freely parameterisable auxiliary LEDs are visible when the door of the tableau is open. They can be used, for example, as status displays of the fire brigade key box. The parameterisation is also carried out by means of the Parameter Setup Software PARSOFT.

Using simple means, the FOT950-1/D1 can be combined with the Fire Brigade Map Box FPKCLR950-1/D1 (DOM CL1 lock) or Fire Brigade Map Box FPKPHZR950-1/D1 (lock for profile half cylinder), thereby forming a compact unit.

Features

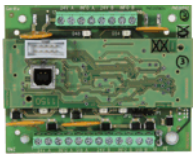
- Integrated fire brigade display panel according to DIN 14662
- Integrated fire brigade control unit according to DIN 14661
- 4 line by 20 character backlit display
- Integrated buzzer with silence function
- Multilingual operation menu
- USB interface for parameterisation and firmware update
- LED and LCD test function
- 4 switching inputs and two switching outputs with parameterisable function
- 4 freely parameterisable auxiliary LEDs
- Stylish metal housing with lockable door
- Hinged front panel
- Separate connection plate with screw terminals
- Surface mounted gate lock for profile half cylinder

Specifications

Operating voltage	10 - 30VDC
Current consumption at 24V	20mA (display and LEDs dark), 120mA (buzzer + display test)
Baud rate	600, 1200, 2400, 4800 baud
Serial interface connection	USB socket type B
Ambient temperature	0°C to +50°C
Relative humidity	max. 95% (no condensation)
Protection class	IP30
Dimensions W × H × D	250 × 350 × 95 (mm)
Colour	flame red, RAL 3000
Weight	3.35kg
Approval	VdS G213063

Cross-references	Page	Art.No.	Name Type
	123	250634	Fire Brigade Map Box FPKCLR950-1/D1
	123	250635	Fire Brigade Map Box FPKPHZR950-1/D1
	122	250632	Redundant Connection Adapter FAR950-1/D1
	2	211999T	Series BC600, Description

250632 Redundant Connection Adapter FAR950-1/D1



By means of the adapter FAR950-1/D1, the Fire Brigade Display Panel FAT950-1/D1 and the Fire Brigade Orientation Panel FOT950-1/D1 can be connected to a Fire Detection Control Panel Series BC600 or Series BC216 with redundancy. These two devices provide the initial information for the responsible fire brigade personnel.

The redundant connection is achieved by means of two separate INFO bus interfaces as well as two independent power supplies. Furthermore, the componentry is provided with an additional INFO bus input interface which, in the case of a network fire detection control panel allows feeding the signal from the alternative main operating unit. As a result, the fire brigade control and display devices will be fully functional even in the event of a failure of the main operating unit.

The adapter componentry comes with all accessories needed for installation in the respective fire detection control panel.

Features
- 2 INFO bus input interfaces
- 2 separate power supply inputs
- 2 INFO bus output interfaces
- 2 separate power supply outputs
- 2 separate fault outputs
- USB interface for firmware update

Specifications

Operating voltage	10 - 30VDC
Current consumption at 24V	72mA
Connection type	screw terminals
Ambient temperature	0°C to +50°C
Dimensions W × H × D	95 × 75 × 32 (mm)
Weight	75g

Cross-references	Page	Art.No.	Name Type
	119	250630	Fire Brigade Display Panel FAT950-1/D1
	120	250631	Fire Brigade Orientation Panel FOT950-1/D1
	2	211999T	Series BC600, Description

13

268008 Fire Brigade Map Box with desk FWP-3/A4

The fire brigade map box is used for the safekeeping of the alarm plans in the main approach route of the fire brigade. The metal box is designed for wall mounting and can hold a binder in DIN A4 format with a width of 7.5cm. The door of the map box can be pulled down, thus serving as a writing desk or as a place to put the documents. A manual call point lock is built in as standard and can optionally be replaced with a cylinder for steel sheet mounting.

Specifications

Dimensions W × H × D	350 × 440 × 110 (mm)
Colour	red, RAL 3000
Weight	4.5kg

Cross-references	Page	Art.No.	Name Type
	123	265016	MCS Cylinder for Map Box ZB27-882AM-PK

265016 MCS Cylinder for Map Box ZB27-882AM-PK

The cylinder for sheet steel mounting with magnetic locking system for the fire brigade and the user of the system is intended for installation in the Fire Brigade Map Boxes FWP-1 and FWP-3 as well as in the map box of the Fire Brigade Information Centre FIZE3-1.

Cross-references	Page	Art.No.	Name Type
	122	268008	Fire Brigade Map Box with desk FWP-3/A4
	123	268013	MCS Key for Fire Brigade Map Box 882AM-PK

268013 MCS Key for Fire Brigade Map Box 882AM-PK

The key 882AM-PK for the user of the system fits the magnetic cylinder for sheet steel mounting ZB27-882AM-PK, which is intended for installation in the Fire Brigade Map Boxes FWP-1 and FWP-3 as well as in the map box of the Fire Brigade Information Centre FIZE3-1.

Cross-references	Page	Art.No.	Name Type
	123	265016	MCS Cylinder for Map Box ZB27-882AM-PK

250634 Fire Brigade Map Box FPKCLR950-1/D1

13

The fire brigade map box is used to accommodate approx. 100 fire brigade route maps in A4 and A3 and for the safekeeping of fire brigade maps and object-specific technical documents and sundry materials. The map box is made of powder coated sheet steel and contains an installed safety lock with CL1 locking.

Specifications

Lock	DOM-CL1
Dimensions W × H × D	520 × 350 × 95 (mm)
Colour	flame red, RAL 3000
Weight	6.1kg

Cross-references	Page	Art.No.	Name Type
	120	250631	Fire Brigade Orientation Panel FOT950-1/D1

250635 Fire Brigade Map Box FPKPHZR950-1/D1

The fire brigade map box is used to accommodate approx. 100 fire brigade route maps in A4 and A3 and for the safekeeping of fire brigade maps and object-specific technical documents and sundry materials. The map box is made of powder coated sheet steel and contains an installed lock for profile half cylinders.

Specifications

Lock	Bolt lock for PHZ
Dimensions W × H × D	520 × 350 × 95 (mm)
Colour	flame red, RAL 3000
Weight	6.1kg

Cross-references	Page	Art.No.	Name Type
	120	250631	Fire Brigade Orientation Panel FOT950-1/D1

14 Fire Controls

217004 Smoke Switch RS70-1

By means of the Smoke Switch RS70-1, the fire controls of doors which are open during normal operation can be actuated. But at the same time, the fire protection strategy of closed fire areas is fulfilled in spite of doors that are held open. In the event of a fire, the smoke switch recognises the alarm of the connected automatic fire detector and interrupts the current flow to the fire controls. As a result, the fire doors close automatically, thereby preventing the further spread of fire and smoke. The deactivation of the output for the fire control can be delayed by an adjustable time.

By means of the „Close door“ key at the front side or an optionally connected external key, the doors can also be closed without alarm condition, if necessary. The integrated buzzer is silenced with a further key. By means of the „RESET“ key, an automatic fire detector that is in the alarm condition is reset.

Light emitting diodes indicate the system conditions „Power“, „Fire alarm“, „Output active“ and „Fault“. The control inputs can be used for various auxiliary functions – for example for a safety device which prevents or delays the closing of the door.

By means of the optional lithium-ion stand-by battery, a failure of the mains voltage can be bridged for up to 4 hours.

Features
- Detector line with monitored quiescent current for automatic conventional detectors
- Keys on the device for activation, resetting and for silencing of the buzzer
- Input for external key „Reset“ or „Close door“
- Control input for the connection of a contact detector
- Potential-free control input with optocoupler
- Output for fire control - holding magnet
- Output for alarming device - sounder / strobe
- Dry relay change-over contact for alarm transmission
- Delay time for activation can be set (in steps of 5s from 0 to 75s)
- Optional stand-by battery

14

Specifications

Mains voltage	110 - 240VAC +10/-15%, 50/60Hz
Output voltage	24VDC (holding magnet / alarming device)
Output current holding magnet	max. 300mA (short-circuit-protected)
Output current alarming device	max. 150mA (short-circuit-protected)
Relay contact rating	max. 8A/24VDC ohmic max. 1A/230VAC inductive
Ambient temperature	+5°C to +40°C
Protection class	IP66
Dimensions W × H × D	180 × 150 × 60 (mm)
Colour of housing	light grey, RAL 7035
Weight (without stand-by battery)	570g

Cross-references	Page	Art.No.	Name Type
	126	310022	Lithium Standby Battery 22,2V/2,2Ah

310022 Lithium Standby Battery 22,2V/2,2Ah

The maintenance-free accumulator in lithium-ion technology is intended for the emergency power supply of the Smoke Switch RS70-1. The accumulator is attached on the inside of the door of the housing of the smoke switch.

Specifications

Nominal voltage	22.2V
Capacity	2.2Ah min. at 20 hours discharge
Dimensions W × H × D	115 × 70 × 20 (mm)
Weight	290g

261003

Magnetic Clamp/500N UTKFM05F(1330)

The magnetic clamp is used for fixing fire doors or smoke compartments and consists of a magnet with a base plate for wall mounting as well as an armature plate with a tilt joint as counterpart. The connection box is prepared for use of cable glands.

Specifications

Operating voltage	24VDC
Current consumption	60mA
Power consumption	1.44W
Adhesive force	500N (50kg)
Working temperature	-20°C to +50°C
Protection class	IP40
Dimensions W × H × D	magnet: 95 × 70 × 39 (mm)
	armature plate: 65 × 65 × 53 (mm)
Weight	magnet: 375g
	armature plate: 170g
Approval	0407-CPD-056

Cross-references	Page	Art.No.	Name Type
	129	261030	Cover black for Magnetic Clamp with arm/UTKFZ UTKFZ-ABD-1

261004

Magnetic Clamp/Reset/500N UTKFB05(1350)

The magnetic clamp is used for fixing fire doors or smoke compartments and consists of a magnet that is fitted into a surface wall-mount housing as well as an armature plate as counterpart. An interrupt button is located on the side of the housing.

Specifications

Operating voltage	24VDC
Current consumption	60mA
Power consumption	1.44W
Adhesive force	500N (50kg)
Working temperature	-20°C to +50°C
Protection class	IP40
Dimensions W × H × D	magnet: 90 × 90 × 36 (mm)
	armature plate: 65 × 65 × 23 (mm)
Weight	magnet: 380g
	armature plate: 140g
Approval	0407-CPD-056

261005

Magnetic Clamp/Reset/150mm/500N UTKFZ05C(1370/15)

The magnetic clamp is used for fixing fire doors or smoke compartments and consists of a magnet with a base plate and an arm, as well as an armature plate with a tilt joint as counterpart. The magnetic clamp is suitable for mounting on the floor or on the ceiling. For mounting on the wall the magnetic head can be turned by 90°. Release is possible via the integrated interrupt button.

Specifications

Operating voltage	24VDC
Current consumption	60mA
Power consumption	1.44W
Adhesive force	500N (50kg)
Working temperature	-20°C to +50°C
Protection class	IP40
Dimensions W × H × D	magnet: 90 × 143 × 100 (mm)
	armature plate: 65 × 65 × 53 (mm)
Weight	magnet: 950g
	armature plate: 170g
Approval	0407-CPD-056

261006

Magnetic Clamp/Reset/300mm/500N UTKFZ05L(1370/30)

The magnetic clamp is used for fixing fire doors or smoke compartments and consists of a magnet with a base plate and an arm, as well as an armature plate with a tilt joint as counterpart. The magnetic clamp is suitable for mounting on the floor or on the ceiling. For mounting on the wall the magnetic head can be turned by 90°. Release is possible via the integrated interrupt button.

Specifications

Operating voltage	24VDC
Current consumption	60mA
Power consumption	1.44W
Adhesive force	500N (50kg)
Working temperature	-20°C to +50°C
Protection class	IP40
Dimensions W × H × D	magnet: 90 × 292 × 100 (mm)
	armature plate: 65 × 65 × 53 (mm)
Weight	magnet: 1.3kg
	armature plate: 170g
Approval	0407-CPD-056

261008

Magnetic Clamp/1000N UTKFM10F(1340)

The magnetic clamp is used for fixing fire doors or smoke compartments and consists of a magnet with a base plate for wall mounting as well as an armature plate with a tilt joint as counterpart. The connection box is prepared for use of cable glands.

Specifications

Operating voltage	24VDC
Current consumption	100mA
Power consumption	2.4W
Adhesive force	1000N (100kg)
Working temperature	-20°C to +50°C
Protection class	IP40
Dimensions W × H × D	magnet: 95 × 70 × 43 (mm)
	armature plate: 65 × 65 × 53 (mm)
Weight	magnet: 585g
	armature plate: 210g
Approval	0407-CPD-056

261009

Magnetic Clamp/Reset/1000N UTKFM10(1360)

The magnetic clamp is used for fixing fire doors or smoke compartments and consists of a magnet with a base plate for wall mounting as well as an armature plate with a tilt joint as counterpart. The connection box contains an interrupt button and is prepared for use of cable glands.

Specifications

Operating voltage	24VDC
Current consumption	100mA
Power consumption	2.4W
Adhesive force	1000N (100kg)
Working temperature	-20°C to +50°C
Protection class	IP40
Dimensions W × H × D	magnet: 95 × 70 × 43 (mm)
	armature plate: 65 × 65 × 53 (mm)
Weight	magnet: 590g
	armature plate: 210g
Approval	0407-CPD-056

261010

Magnetic Clamp/Reset/150mm/1000N UTKFZ10C(1380/15)

The magnetic clamp is used for fixing fire doors or smoke compartments and consists of a magnet with a base plate and an arm, as well as an armature plate with a tilt joint as counterpart. The magnetic clamp is suitable for mounting on the floor or on the ceiling. For mounting on the wall the magnetic head can be turned by 90°. Release is possible via the integrated interrupt button.

Specifications

Operating voltage	24VDC
Current consumption	100mA
Power consumption	2.4W
Adhesive force	1000N (100kg)
Working temperature	-20°C to +50°C
Protection class	IP40
Dimensions W × H × D	magnet: 90 × 147 × 105 (mm)
	armature plate: 65 × 65 × 53 (mm)
Weight	magnet: 1.2kg
	armature plate: 210g
Approval	0407-CPD-056

261011

Magnetic Clamp/Reset/300mm/1000N UTKFZ10L(1380/30)

The magnetic clamp is used for fixing fire doors or smoke compartments and consists of a magnet with a base plate and an arm, as well as an armature plate with a tilt joint as counterpart. The magnetic clamp is suitable for mounting on the floor or on the ceiling. For mounting on the wall the magnetic head can be turned by 90°. Release is possible via the integrated interrupt button.

Specifications

Operating voltage	24VDC
Current consumption	100mA
Power consumption	2.4W
Adhesive force	1000N (100kg)
Working temperature	-20°C to +50°C
Protection class	IP40
Dimensions W × H × D	magnet: 90 × 292 × 105 (mm)
	armature plate: 65 × 65 × 53 (mm)
Weight	magnet: 1.5kg
	armature plate: 210g
Approval	0407-CPD-056

261019

Magnetic Lock Clamp/2750N UTKEM30S1(1388)

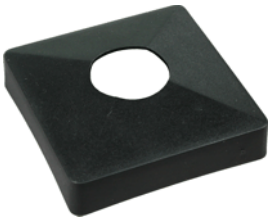
The magnetic lock clamp with extra high magnetic force is used for locking doors (emergency exits, access control systems, etc.) during normal operation. The lock is released through an optional Control Device For Magnetic Lock Clamp 2498. The magnetic lock clamp is suitable for surface mounting in dry rooms and is delivered complete with counter plate and mounting accessories.

Specifications

Operating voltage	12/24VDC
Current consumption at 12V	500mA
Current consumption at 24V	250mA
Adhesive force	approx. 3000N (300kg)
Working temperature	-20°C to +60°C
Protection class	IP40
Dimensions W × H × D	268 × 48 × 25 (mm)
Weight	2kg

261030

Cover black for Magnetic Clamp with arm/UTKFZ UTKFZ-ABD-1



The black plastic cover is used to protect the flange plate of a Magnetic Clamp UTKFM05 and to cover it in an optically pleasing way.

Specifications

Dimensions W × H × D	95 × 95 × 27 (mm)
Colour	black
Weight	25g

15 Power Supply Devices

317100

Power Supply 24V/1A-Stabilized NG1-1S

The electronically controlled compact power supply unit serves for the supply of external devices with increased current consumption. The power supply unit provides constant output voltage and is, therefore, not suitable for loading stand-by batteries.

The power supply unit is integrated in a plastic housing for DIN rail mounting with a 45mm standard front.

Features
- Switched-mode power supply unit, current-limited and short-circuit proof
- Stabilised output voltage
- Light emitting diode for indicating operation and fault
- Integrated mains fuse

Specifications

Operating voltage	100 to 240VAC, 48 to 63Hz
Output voltage	24VDC ±3%
Nominal output current	1A
Ambient temperature	-5°C to +50°C
Relative humidity	max. 90% (no condensation)
Dimensions W × H × D	35 (2 horizontal pitch units) × 93 × 69 (mm)
Colour	light grey, RAL 7035
Weight	220g

317101

Power Supply 24V/2A-Stabilized NG2-1S

The electronically controlled compact power supply unit serves for the supply of external devices with increased current consumption. The power supply unit provides constant output voltage and is, therefore, not suitable for loading stand-by batteries.

The power supply unit is integrated in a plastic housing for DIN rail mounting with a 45mm standard front.

Features
- Switched-mode power supply unit, current-limited and short-circuit proof
- Stabilised output voltage
- Light emitting diode for indicating operation and fault
- Integrated mains fuse

Specifications

Operating voltage	100 to 240VAC, 48 to 63Hz
Output voltage	24VDC ±3%
Nominal output current	2A
Ambient temperature	-10°C to +50°C
Relative humidity	max. 90% (no condensation)
Dimensions W × H × D	72 (4 horizontal pitch units) × 93 × 69 (mm)
Colour	light grey, RAL 7035
Weight	330g

317102

Power Supply 24V/4A-Stabilized NG4-1S

The electronically controlled compact power supply unit serves for the supply of external devices with increased current consumption. The power supply unit provides constant output voltage and is, therefore, not suitable for loading stand-by batteries.

The power supply unit is integrated in a plastic housing for DIN rail mounting with a 45mm standard front.

Features
- Switched-mode power supply unit, current-limited and short-circuit proof
- Stabilised output voltage
- Light emitting diode for indicating operation and fault
- Integrated mains fuse

Specifications

Operating voltage	230VAC ±15%, 48 to 63Hz
Output voltage	24VDC ±3%
Nominal output current	4A
Ambient temperature	-10°C to +50°C
Relative humidity	max. 90% (no condensation)
Dimensions W × H × D	72 (4 horizontal pitch units) × 93 × 69 (mm)
Colour	light grey, RAL 7035
Weight	330g

317040 Power Supply NT602-2

The Power Supply NT602-2 is an autonomous componentry which powers devices that require a fail-safe power supply with a nominal voltage of 24VDC. The power supply is a primary switched mode power supply with a high efficiency, which results in low self-heating and a long life span. The power supply fully complies with EN 54-4:2006 and is tested and certified by VdS according to the Construction Products Regulation CPR.

In case of a mains voltage failure, the unit continues to power the loads with current from optionally connected stand-by batteries. The stand-by batteries are charged with current limiting and temperature optimisation. The maximum possible load current can vary according to the battery capacity.

The power supply monitors all important characteristic values of the power supply according to EN 54-4:2006 (e.g., mains voltage, battery voltage, internal resistance of the stand-by battery, earth fault, output voltage). A malfunction is evaluated as fault which is indicated on the front of the power supply housing and can be transmitted to an external device.

The power supply is designed for installation in a Power Supply Housing Series NT624. The output voltage is available on screw terminals as well as on a connector which is intended for the connection of a System Supply Cable Series SVK600.

Specifications

Mains voltage	230VAC +10/-20%, 47...63Hz
Power requirement	75VA
Output voltage	typ. 27.6VDC
Output current	max. 2.3A
Ambient temperature	-20°C to +60°C
Dimensions W × H × D	158 × 131 × 70 (mm)
Weight	450g
Approvals	VdS G218064 0786-CPR-21608

Cross-references	Page	Art.No.	Name Type
	134	317051	Power Supply Front Panel NTG624-1CE
	134	317050	Power Supply Housing NTG624-1
	135	317052	Power Supply Housing NTG624-2
	136	317053	Power Supply Housing NTG624-3

317041 Power Supply NT604-2

The Power Supply NT604-2 is an autonomous componentry which powers devices that require a fail-safe power supply with a nominal voltage of 24VDC. The power supply is a primary switched mode power supply with a high efficiency, which results in low self-heating and a long life span. The power supply fully complies with EN 54-4:2006 and is tested and certified by VdS according to the Construction Products Regulation CPR.

In case of a mains voltage failure, the unit continues to power the loads with current from optionally connected stand-by batteries. The stand-by batteries are charged with current limiting and temperature optimisation. The maximum possible load current can vary according to the battery capacity.

The power supply monitors all important characteristic values of the power supply according to EN 54-4:2006 (e.g., mains voltage, battery voltage, internal resistance of the stand-by battery, earth fault, output voltage). A malfunction is evaluated as fault which is indicated on the front of the power supply housing and can be transmitted to an external device.

The power supply is designed for installation in a Power Supply Housing Series NT624. The output voltage is available on screw terminals as well as on two connectors which are intended for the connection of a System Supply Cable Series SVK600.

Specifications

Mains voltage	230VAC +10/-20%, 47...63Hz
Power requirement	140VA
Output voltage	typ. 27.6VDC
Output current	max. 4.3A
Ambient temperature	-20°C to +60°C
Dimensions W × H × D	158 × 197 × 70 (mm)
Weight	900g
Approvals	VdS G218064 0786-CPR-21608

Cross-references	Page	Art.No.	Name Type
	134	317051	Power Supply Front Panel NTG624-1CE
	134	317050	Power Supply Housing NTG624-1
	135	317052	Power Supply Housing NTG624-2
	136	317053	Power Supply Housing NTG624-3

317042 Power Supply NT608-2

The Power Supply NT608-2 is an autonomous componentry which powers devices that require a fail-safe power supply with a nominal voltage of 24VDC. The power supply is a primary switched mode power supply with a high efficiency, which results in low self-heating and a long life span. The power supply fully complies with EN 54-4:2006 and is tested and certified by VdS according to the Construction Products Regulation CPR.

In case of a mains voltage failure, the unit continues to power the loads with current from optionally connected stand-by batteries. The stand-by batteries are charged with current limiting and temperature optimisation. The maximum possible load current can vary according to the battery capacity.

The power supply monitors all important characteristic values of the power supply according to EN 54-4:2006 (e.g., mains voltage, battery voltage, internal resistance of the stand-by battery, earth fault, output voltage). A malfunction is evaluated as fault which is indicated on the front of the power supply housing and can be transmitted to an external device.

The power supply is designed for installation in a Power Supply Housing Series NT624. The output voltage is available on screw terminals as well as on two connectors which are intended for the connection of a System Supply Cable Series SVK600.

Specifications

Mains voltage	230VAC +10/-20%, 47...63Hz
Power requirement	260VA
Output voltage	typ. 27.6VDC
Output current	max. 8.5A
Ambient temperature	-20°C to +60°C
Dimensions W × H × D	158 × 197 × 80 (mm)
Weight	1.3kg
Approvals	VdS G218064 0786-CPR-21608

Cross-references	Page	Art.No.	Name Type
	134	317051	Power Supply Front Panel NTG624-1CE
	134	317050	Power Supply Housing NTG624-1
	135	317052	Power Supply Housing NTG624-2
	136	317053	Power Supply Housing NTG624-3

317050 Power Supply Housing NTG624-1

The Power Supply Housing NTG624-1 accommodates one Power Supply Series NT624. The stable powder coated sheet steel housing is designed for wall mounting. The housing provides space for the power supply as well as for the installation of stand-by batteries 2 × 12V/max. 20Ah and one Module Carrier BGT600-1. If required, further modules can be mounted on the side wall or on the door of the housing.

On the front side of the housing there is a display and operating board which allows resetting of the internal buzzer and whose light emitting diodes can signal operating and fault conditions. The LED displays and the button can be labelled in the respective national language by means of the supplied insertable labelling strips.

Cables can be entered from behind.

Specifications

Protection class	IP30
Dimensions W × H × D	384 × 384 × 107 (mm)
Colour	grey white, RAL 9002
Weight without installations	3.7kg

Cross-references	Page	Art.No.	Name Type
	34	211162	Module Carrier BGT600-1
	132	317040	Power Supply NT602-2
	133	317041	Power Supply NT604-2
	133	317042	Power Supply NT608-2
	86	222010	Relay Module RL58-2
	22	211143	Relay Module RL608-1
	33	211373	Surface Mounting Frame AMR600-1

317051 Power Supply Front Panel NTG624-1CE

The Power Supply Front Panel NTG624-1/CE accommodates one Power Supply Series NT624. The front panel is a sheet steel carrier and can, thanks to its intelligent design, either be accommodated in a pivoting frame in 19" design or mounted on a mounting plate of a switch cabinet. In both cases, the optional stand-by batteries are accommodated in the interior of the switch cabinet.

The front panel provides space for the power supply as well as for the installation of a Module Carrier BGT600-1 and a Relay Module RL608-1, RL58-1 or RL58-2. On the front side there is a display and operating board which allows resetting of the internal buzzer and whose light emitting diodes can signal operating and fault conditions. The LED displays and the button can be labelled in the respective national language by means of the supplied insertable labelling strips.

Specifications

Dimensions W × H × D	478 × 266 (6 rack units) × 20 (mm, without power supply)
Colour	grey white, RAL 9002
Weight without installations	approx. 1.4kg

Cross-references	Page	Art.No.	Name Type
	34	211162	Module Carrier BGT600-1
	132	317040	Power Supply NT602-2
	133	317041	Power Supply NT604-2
	133	317042	Power Supply NT608-2
	86	222010	Relay Module RL58-2
	22	211143	Relay Module RL608-1

317052 Power Supply Housing NTG624-2

The Power Supply Housing NTG624-2 accommodates one Power Supply Series NT624. The stable powder coated sheet steel housing is designed for wall mounting. Besides the power supply, it provides space for the installation of stand-by batteries 2 × 12V/max. 45Ah as well as of two Module Carriers BGT600-1. If required, further modules can be mounted on the side wall or on the door of the housing.

On the front side of the housing there is a display and operating board which allows resetting of the internal buzzer and whose light emitting diodes can signal operating and fault conditions. The LED displays and the button can be labelled in the respective national language by means of the supplied insertable labelling strips.

Cables can be entered either from above, from below, or from the back.

Specifications

Protection class	IP30
Dimensions W × H × D	442 × 460 × 203 (mm)
Colour	grey white, RAL 9002
Weight without installations	approx. 7kg

Cross-references Page	Art.No.	Name Type
34	211162	Module Carrier BGT600-1
132	317040	Power Supply NT602-2
133	317041	Power Supply NT604-2
133	317042	Power Supply NT608-2
86	222010	Relay Module RL58-2
22	211143	Relay Module RL608-1
137	317054	Surface Mounting Frame AMR624-2

317053 Power Supply Housing NTG624-3

15

The Power Supply Housing NTG624-3 accommodates one Power Supply Series NT624. The stable powder coated sheet steel housing is designed for wall mounting. The housing provides space for the power supply as well as for the installation of stand-by batteries 4 × 12V/max. 90Ah and for further modules.

On the front side of the housing there is a display and operating board which allows resetting of the internal buzzer and whose light emitting diodes can signal operating and fault conditions. The LED displays and the button can be labelled in the respective national language by means of the supplied insertable labelling strips.

Cables can be entered either from above or from below.

The power supply housing comes with a flange plate with apertures that can be broken out, one Power Supply Carrier NTT600-1, one Module Carrier MPL17/3 as well as two Battery Brackets BK24-1. If necessary, an additional Module Carrier MPL17/3 can be installed. If the cables are entered from below, it is recommended that two additional battery brackets be used because otherwise the stand-by batteries would stand on the flange plate, thereby preventing entry of the cables.

Specifications

Protection class	IP30
Dimensions W × H × D	800 × 1000 × 300 (mm)
Colour	light grey, RAL 7035
Weight without installations	approx. 65kg

Cross-references Page	Art.No.	Name Type
137	317033	Battery Bracket BK24-1
67	212034	Module Carrier 19"/3HU MPL17/3
132	317040	Power Supply NT602-2
133	317041	Power Supply NT604-2
133	317042	Power Supply NT608-2
86	222010	Relay Module RL58-2
22	211143	Relay Module RL608-1

211373 Surface Mounting Frame AMR600-1

The mounting frame is made of powder coated sheet steel and, in case of surface mounted cabling, allows a Fire Detection Control Panel BC600-1x to be mounted at a distance from the wall. Rubber seals on both sides ensure sealing to the wall and to the control panel, thereby protecting the control panel against ingress of moisture from the backside. The cables can be entered through knock-out openings from the top side and bottom side. Thanks to the concealed cable entry, the fire detection control panel can be installed in an optically pleasing way.

The surface mounting frame can also be used for mounting a Power Supply Housing NTG624-1 at a distance from the wall.

Specifications

Dimensions W × H × D	384 × 384 × 43 (mm)
Material	powder coated sheet steel 1mm
Colour	grey white, RAL 9002
Weight	1.25kg

317054 Surface Mounting Frame AMR624-2

The mounting frame is made of powder coated sheet steel and, in case of surface mounted cabling, allows a Power Supply Housing NTG624-2 to be mounted at a distance from the wall. Rubber seals on both sides ensure sealing to the wall and to the power supply, thereby protecting the power supply against ingress of moisture from the backside. The cables can be entered through knock-out openings from the top side or bottom side or - in the case of flush mounted cabling - from the back. Thanks to the concealed cable entry, the power supply can be installed in an optically pleasing way.

Specifications

Dimensions W × H × D	442 × 460 × 43 (mm)
Material	powder coated sheet steel 1mm
Colour	grey white, RAL 9002
Weight	1.55kg

15

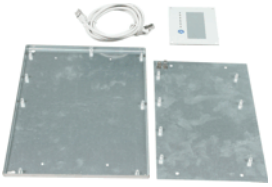
317033 Battery Bracket BK24-1

The Battery Bracket BK24-1 is prepared for simple and secure installation of stand-by batteries in the Power Supply Housings NTG624-3 and NTG24-2 as well as in a 19" cabinet. The stable steel sheet design can accommodate a maximum of either one stand-by battery 12V/65Ah or 12V/85Ah, or two stand-by batteries 12V/45Ah.

Specifications

Dimensions W × H × D	371 × 186 × 210 (mm)
Material	sheet steel 1.5mm, galvanised
Weight	approx. 2kg

317055 NEW Conversion Kit NT24xx to NT6xx UBS-NT24xx-NT6xx



The conversion kit is needed for installing a Power Supply Series NT624 in a Power Supply Housing Series NT24. Therefore, if you replace a Power Supply Module NTM240x-1 with a Power Supply NT60x-2, you can continue to use the existing power supply housing.

The conversion kit includes the mounting plates, all necessary screws and small parts as well as the Display and Operating Board ABB24-2.

Specifications

Dimensions L × W	292 × 220 (mm, mounting plate)
Material	zinc coated sheet steel, 1mm
Weight	approx. 950g

229010

Voltage Stabilizer 24VDC STAB24-1

By using the Voltage Stabiliser STAB24-1, the voltage fluctuations of the output voltages that are conditional upon the charging logic of the fire detection control panels are kept to a minimum, which guarantees optimum operation of the supplied modules.

Features
- High efficiency
- Easy installation
- Small dimensions

Specifications

Supply voltage (input)	19 to 36VDC
Supply voltage (output)	24VDC ±2%
Output power	max. 10W
Efficiency	approx. 80%
Output current	min. 50mA / max. 410mA
Ambient temperature	-5°C to +50°C
Relative humidity	max. 95% (no condensation)
Dimensions L × W × H	75 × 40 × 15 (mm)
Weight	50g

229014

Voltage Stabilizer 24VDC STAB24-3

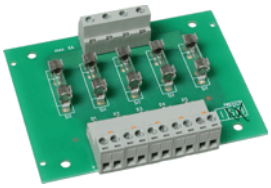
The Voltage Stabilizer STAB24-3 is used to power devices which must be supplied from the fire detection control panel and which require tight supply voltage tolerances. The voltage stabilizer keeps the voltage fluctuations that are caused by the charging logic of the fire detection control panel to a minimum, thereby achieving reliable operation of the powered device in every operating condition of the fire detection control panel (mains and battery operation).

Features
- High efficiency
- Easy installation
- Small dimensions

Specifications

Input voltage	18 - 36VDC
Current consumption at 24V	typ. 50mA (without load)
Output power	max. 75W
Output voltage	26.1VDC ±1%
Output current	max. 3A
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	98 × 74 × 40 (mm)
Weight	205g

223052



Power Distributor Board SVB5-1

The Power Distributor Board SVB5-1 is used to provide the supply voltage that is applied at the input at five independently fused outputs. For each output, an individual LED indicates whether the output voltage is available. The input voltage is connected via screw terminals. Via two more screw terminals, the input voltage can be routed to another SVB5-1 componentry. There are individual clamp terminals for the outputs.

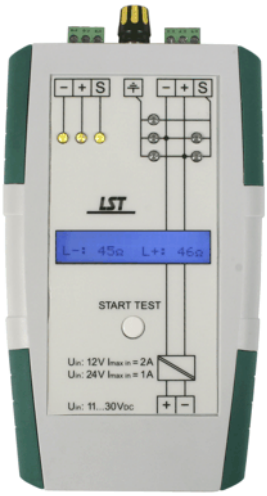
Specifications

Supply voltage	20 - 30VDC
Current consumption at 24V	1mA (all outputs active)
Fuses	0.5A fast-acting
Ambient temperature	-20°C to +60°C
Dimensions W × H × D	98 × 74 × 21 (mm)
Weight	55g

16 Tools

219017

Loop Tester LTG30-1



The Loop Tester LTG30-1 helps both in commissioning as well as in maintenance of fire detection systems in loop technology. In this way, completed loop lines can be checked for possible installation errors – without a fire detection control panel. After the start of the test, the device automatically carries out a series of measurements, thereby determining the essential electrical parameters of the loop lines. For the indication of the results and any error messages, the device has 8 light emitting diodes and an LCD.

The Loop Tester LTG30-1 supports the three detector brands:
- Labor Strauss (Detector Series FI700/FI750)
- System Sensor (Detector Series 200/200AP)
- Apollo (Detector Series XP95/Discovery/Soteria)

The loop tester is delivered with two 3-wire measuring lines with alligator clips for the connection to loop start and loop end, one measuring line with alligator clip for the connection to the equipotential busbar, a 24VDC power adapter as well as a user manual.

Features
- 3 green light emitting diodes for the indication of the correct condition of the circular line
- 5 yellow light emitting diodes for the indication of insulation faults of the loop lines
- LCD for the indication of the resistance values of the loop lines L+ and L- and of error messages

Specifications

Operating voltage	11 - 30VDC
Current consumption at 24V	max. 1A
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	210 × 110 × 35 (mm)
Weight	400g

249220

Detector Test Kit Smoke/Thermo 1001-101

The detector tester 1000 is used to check the correct activation of smoke detectors, thermal detectors or optical-thermal detectors. For testing a smoke sensor, smoke is generated inside the tester. For that purpose, a replaceable capsule is placed in the tester. The function of a thermal detector is tested by means of an integrated heating element.

The desired test mode is selected through the menu of the detector tester. If multicriteria detectors are tested, combined tests can also be carried out, and the menu allows you to determine whether the individual tests - by means of smoke or heat - are to be carried out simultaneously or one after the other. Two multicoloured LEDs indicate the execution of a test as well as the condition of the test device.

The detector tester can be used together with the Telescopic Poles SOLO100 and SOLO108 as well as with the Extension Pole SOLO101. The delivery scope of the Detector Test Kit 1001-101 includes the test device, 2 batteries, a charging device, a smoke capsule, a USB cable and the user manual on CD.

Specifications

Power supply	NiMH battery 7.2V/2.2Ah
Battery charging time	max. 90min.
Ambient temperature	5°C to +45°C
Relative humidity	0 - 85% (no condensation)
Dimensions test device Ø × H	153 × 224 (mm)
Weight	750g

Cross-references	Page	Art.No.	Name Type
	144	249231	Battery for Detector Tester SOLO770-001
	144	249226	Carrying bag for test equipment SOLO610-001
	144	249054	Extension Pole SOLO101
	140	249222	Replacement Smoke Capsule TS3-001
	143	249227	Telescopic Pole 2.2m SOLO108-001
	143	249053	Telescopic Pole SOLO100

249221 Detector Test Kit Smoke/Thermo/CO 2001-101

The detector tester 2000 is used to check the correct activation of smoke detectors, thermal detectors or carbon monoxide detectors, or of multicriteria detectors which respond to these three characteristics of fire. For testing a smoke or CO sensor, smoke or carbon monoxide, respectively, is generated inside the tester. For that purpose, two different replaceable capsules are placed in the tester. The function of a thermal detector is tested by means of an integrated heating element.

The desired test mode is selected through the menu of the detector tester. If multicriteria detectors are tested, combined tests can also be carried out, and the menu allows you to determine whether the individual tests - by means of smoke, CO or heat - are to be carried out simultaneously or one after the other. Two multicoloured LEDs indicate the execution of a test as well as the condition of the test device.

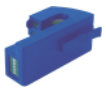
The detector tester can be used together with the Telescopic Poles SOLO100 and SOLO108 as well as with the Extension Pole SOLO101. The delivery scope of the Detector Test Kit 2001-101 includes the test device, 2 batteries, a charging device, a smoke capsule, a CO capsule, a USB cable and the user manual on CD.

Specifications

Power supply	NiMH battery 7.2V/2.2Ah
Battery charging time	max. 90min.
Ambient temperature	5°C to +45°C
Relative humidity	0 - 85% (no condensation)
Dimensions test device Ø × H	153 × 273 (mm)
Weight	900g

Cross-references	Page	Art.No.	Name Type
	144	249231	Battery for Detector Tester SOLO770-001
	144	249226	Carrying bag for test equipment SOLO610-001
	144	249054	Extension Pole SOLO101
	140	249223	Replacement CO Capsule TC3-001
	140	249222	Replacement Smoke Capsule TS3-001
	143	249227	Telescopic Pole 2.2m SOLO108-001
	143	249053	Telescopic Pole SOLO100

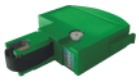
249222 Replacement Smoke Capsule TS3-001



The replacement capsule is put into a detector tester 1000 or 2000 for generating smoke.

Cross-references	Page	Art.No.	Name Type
	140	249221	Detector Test Kit Smoke/Thermo/CO 2001-101
	139	249220	Detector Test Kit Smoke/Thermo 1001-101

249223 Replacement CO Capsule TC3-001



The replacement capsule is put into a detector tester 2000 for generating carbon monoxide.

Cross-references	Page	Art.No.	Name Type
	140	249221	Detector Test Kit Smoke/Thermo/CO 2001-101

249059 Test Module/100/200 MOD400R

The measuring adapter MOD400R is used to read out measured values from optical or ionisation smoke detectors Series 100 and 400. The test module transforms the measured value into a DC voltage signal, which is measured by a multimeter. Thereby, the sensitivity of a detector can be assessed during maintenance. A sufficient sensitivity is one of the most important criteria for avoiding false alarms.

Features
- Terminals for multimeter
- Easy readout of measured values without an alarm activation of the detector
- Battery lifespan approx. one year

Specifications

Operating voltage	9VDC (block battery)
Ambient temperature	0°C to +50°C
Dimensions L × W × H	114 × 79 × 31 (mm)
Connection	4mm sockets
Colour	black
Weight	238g

249143 Smoke Detector Test Set SOLO808

The Smoke Detector Test Set SOLO808 is an ideal initial equipment for checking the functionality of automatic smoke detectors. The set includes the Detector Test Tool SOLO330 and a Telescopic Pole SOLO108. By means of the two-part telescopic pole, which can be set to lengths of between 1.2m and 2.2m, detectors can be tested up to a room height of approx. 3.5m.

Cross-references	Page	Art.No.	Name Type
	144	249226	Carrying bag for test equipment SOLO610-001
	142	249361	Test Gas Can SOLOA10-001
	141	249360	Test Gas Can SOLOA5-001
	142	249140	Test Gas Can SOLOC3-001

16

249360 Test Gas Can SOLOA5-001

The test gas can contains a non-polluting test gas for checking the function of automatic smoke detectors. The can is suitable for use with the Smoke Detector Test Tools SOLO330 and SOLO332.

Note: since the test gas SOLOA5 is flammable, using it in rooms with ignition sources can be dangerous. Always check the local conditions before using this test gas.

Specifications

Contents	250ml

249361 Test Gas Can SOLOA10-001

The test gas can contains a non-flammable test gas for checking the function of automatic smoke detectors. The test gas is free of hydrofluorocarbon and therefore is especially environment-friendly. The can is suitable for use with the Smoke Detector Test Tools SOLO330 and SOLO332.

Specifications

Contents	150ml

249140 Test Gas Can SOLOC3-001

The Test Gas Can SOLOC3-001 with a capacity of 250ml contains a test gas for checking the function of carbon monoxide fire detectors. The can is suitable for use with the detector testers FPD05 and SOLO330.

249051

Smoke Detector Test Tool SOLO330

The smoke detector test tool is used for checking automatic smoke detectors by means of non-polluting test gas. The transparent head of the test tool provides intervisibility with the detector activation LED indicator and thus saves test gas. The construction of the test tool, thanks to its pivoting head, allows reaching even mounting places, which can be accessed only with difficulty. With the optional Telescopic Poles SOLO100 and SOLO108 as well as up to 3 Extension Poles SOLO101, it is possible to check detectors, which are mounted in rooms of up to 9m height.

Cross-references	Page	Art.No.	Name Type
	144	249226	Carrying bag for test equipment SOLO610-001
	144	249054	Extension Pole SOLO101
	143	249227	Telescopic Pole 2.2m SOLO108-001
	143	249053	Telescopic Pole SOLO100
	142	249361	Test Gas Can SOLOA10-001
	141	249360	Test Gas Can SOLOA5-001
	142	249140	Test Gas Can SOLOC3-001

249067

Smoke Detector Test Tool large Detector SOLO332

The structure of the detector tester is similar to that of the Smoke Detector Test Tool SOLO330. However, due to the larger construction, the detector tester is especially suitable for large smoke detectors with a diameter of up to 130mm.

Cross-references	Page	Art.No.	Name Type
	144	249226	Carrying bag for test equipment SOLO610-001
	144	249054	Extension Pole SOLO101
	143	249227	Telescopic Pole 2.2m SOLO108-001
	143	249053	Telescopic Pole SOLO100
	142	249361	Test Gas Can SOLOA10-001
	141	249360	Test Gas Can SOLOA5-001
	142	249140	Test Gas Can SOLOC3-001

249068

Heat Detector Test Tool Battery SOLO461-101

The heat detector test tool is used for checking thermal fire detectors with rate-of-rise, maximum or combi characteristic up to an alarm temperature of 90°. The unique arrangement of the heat source ensures direct supply of heated air to the temperature sensor of the detector. As a result, the detector housing is only heated up slightly and time as well as energy is saved.

The transparent test head provides unimpeded view to the detector activation LED. The construction of the test tool, thanks to its pivoting head, allows reaching even mounting places which can only be accessed with difficulty. By means of the optional Telescopic Poles SOLO100 and SOLO108 as well as up to 3 Extension Poles SOLO101, detectors can be checked up to a room height of approx. 9m.

The heat detector test tool is delivered with 2 batteries SOLO770 and a battery charger SOLO727.

Cross-references	Page	Art.No.	Name Type
	144	249231	Battery for Detector Tester SOLO770-001
	144	249226	Carrying bag for test equipment SOLO610-001
	144	249054	Extension Pole SOLO101
	143	249227	Telescopic Pole 2.2m SOLO108-001
	143	249053	Telescopic Pole SOLO100

249228

Heat Detector Test Tool Mains SOLO424-101

The heat detector test tool is used for checking thermal fire detectors with rate-of-rise, maximum or combi characteristic up to an alarm temperature of 90°. The unique arrangement of the heat source ensures direct supply of heated air to the temperature sensor of the detector. As a result, the detector housing is only heated up slightly and time is saved.

The transparent test head provides unimpeded view to the detector activation LED. The construction of the test tool, thanks to its pivoting head, allows reaching even mounting places which can only be accessed with difficulty. By means of the optional Telescopic Poles SOLO100 and SOLO108 as well as up to 3 Extension Poles SOLO101, detectors can be checked up to a room height of approx. 9m.

The heat detector test tool is operated with 230V mains voltage and comes with a mains cable with a length of 5m.

Cross-references	Page	Art.No.	Name Type
	144	249226	Carrying bag for test equipment SOLO610-001
	144	249054	Extension Pole SOLO101
	143	249227	Telescopic Pole 2.2m SOLO108-001
	143	249053	Telescopic Pole SOLO100

249052

Detector Removal Tool SOLO200

The universal detector removal tool is used for removing and reinstalling punctiform automatic fire detectors with a diameter of 65 - 110mm. The clamping mechanism is flexibly mounted on a pole of 0.65 m length and can, therefore, be used even for mounting places that are difficult to access. With the optional Telescopic Poles SOLO100 and SOLO108 as well as up to 3 Extension Poles SOLO101, it is possible to reach detectors, which are mounted in rooms of up to 9m height.

Cross-references	Page	Art.No.	Name Type
	144	249054	Extension Pole SOLO101
	143	249227	Telescopic Pole 2.2m SOLO108-001
	143	249053	Telescopic Pole SOLO100

16

249053

Telescopic Pole SOLO100

The fibreglass telescopic pole is needed to individually adjust the detector tester or the Detector Removal Tool SOLO200 to the individual room height. The pole measures 1.2m in retracted condition. The total length in extracted condition is 4.5m; you can, therefore, reach detectors mounted at a height of up to approx. 6m. Together with up to 3 Extension Poles SOLO101, the telescopic pole allows you to reach detectors which are mounted at a room height of up to approx. 9m.

Cross-references	Page	Art.No.	Name Type
	144	249054	Extension Pole SOLO101

249227

Telescopic Pole 2.2m SOLO108-001

The fibreglass telescopic pole is needed to individually adjust the detector tester or the Detector Removal Tool SOLO200 to the individual room height. The pole measures 1.2m in retracted condition. The total length in extracted condition is 2.2m; you can, therefore, reach detectors mounted at a height of up to approx. 4m. Together with up to 3 Extension Poles SOLO101, the telescopic pole allows you to reach detectors which are mounted at a room height of up to approx. 7m.

Cross-references	Page	Art.No.	Name Type
	144	249054	Extension Pole SOLO101

249054 Extension Pole SOLO101

The fibreglass extension pole with a length of 1.2m is needed for using the detector tester or the Detector Removal Tool SOLO200 at room heights of up to approx. 2.5m. By connecting up to 3 extension poles with each other, the maximum room height can be increased to approx. 4.5m. Together with the Telescopic Poles SOLO100 and SOLO108-001, it is possible to reach detectors, which are mounted in rooms of up to 9m height.

Cross-references	Page	Art.No.	Name Type
	143	249227	Telescopic Pole 2.2m SOLO108-001
	143	249053	Telescopic Pole SOLO100

249226 Carrying bag for test equipment SOLO610-001

By means of the carrying bag, detector testers SOLO330, SOLO332, SOLO461, SOLO424, 1000 and 2000, the poles, spare batteries and other accessories can be kept in a safe place and can be conveniently carried.

249231 Battery for Detector Tester SOLO770-001

The spare battery in rechargable NiMH technology with a capacity of 3000mAh is used to power the detector testers SOLO461, 1000 and 2000 as well as the detector test units Series SCORPION.

Cross-references	Page	Art.No.	Name Type
	144	249230	Charger for Detector Test Tool SOLO727-101

16

249230 Charger for Detector Test Tool SOLO727-101

By means of the quick charger SOLO727-101, the rechargeable NiMH batteries SOLO760-001 and SOLO770-001 can be charged within 60 to 90 minutes. The batteries are used to power the detector testers SOLO461, 1000 and 2000 as well as the detector test units Series SCORPION.

The delivery scope includes adapter cables by means of which the charger can be connected to the mains voltage or to the 12V on-board voltage of a vehicle.

249225 Silicone Membrane/Solo Detector Tester SPARE-1005-001

The silicone sealing ring is used as replacement part for the detector testers SOLO330 and SOLO461.

249144 Pen with 6 pcs. Smoke Sticks RE6-SET

The set consists of the smoke pen and 6 smoke elements. With the smoke pen, automatic smoke detectors or smoke aspiration systems can be tested easily and quickly. To do so, the smoke element is lit up, after which it will create a visible smoke trail. The smoke is environmentally compatible and does not contain any harmful or corroding substances.

One smoke element will burn for some 30 minutes and will last for up to 60 detector tests.

Cross-references	Page	Art.No.	Name Type
	145	249145	Smoke Sticks 6 pcs. RE6

249145 Smoke Sticks 6 pcs. RE6

The refill pack contains 6 smoke elements for the smoke pen.

249370 NEW Test Unit/Point Detector SCORP1001-001

By means of the Test Unit SCORP1001-001, a punctual detector that is mounted in a place that can only be accessed with difficulty can be conveniently tested from afar. The test unit is mounted next to the detector on the ceiling. For this purpose, the mounting plate of the test unit is wedged under the detector base.

The test unit is remote-controlled either through the Portable Controller SCORP7000-001 or through the Control Panel SCORP8000-001. In order to activate the smoke detector, smoke is generated inside the test unit and is blown into the smoke entry port of the detector. After completion of the test, the smoke tube is purged by means of the cleaning function, thereby feeding air into the detector in order to prevent another activation. The test unit contains enough smoke agent for more than 240 tests.

Specifications

Operating voltage	supplied through the controller
Capacity	min. 240 tests
Ambient temperature	0°C to +60°C
Relative humidity	0 - 95% (no condensation)
Protection class	IP20
Dimensions L × W × H	155 × 54 × 34 (mm, without smoke tube and fastening device)
Colour	white
Weight	200g

Cross-references	Page	Art.No.	Name Type
	146	249372	Access Point/Test Unit SCORP25-001
	148	249374	Control Panel SCORP8000-001
	148	249373	Portable Controller SCORP7000-001

249371 NEW Test Unit/Aspiration System SCORP2001-001

By means of the Test Unit SCORP2001-001, a smoke aspiration system whose sensor pipe is mounted in a place that can only be accessed with difficulty can be conveniently tested from afar. At the end of the sensor pipe, the test unit is snapped onto the pipe by means of clips.

The test unit is remote-controlled either through the Portable Controller SCORP7000-001 or through the Control Panel SCORP8000-001. In order to activate the smoke aspiration system, smoke is generated inside the test unit and is passed into the sensor pipe. After completion of the test, the smoke tube is purged by means of the cleaning function in order to prevent another activation. The test unit contains enough smoke agent for more than 240 tests.

Specifications

Operating voltage	supplied through the controller
Capacity	min. 240 tests
Ambient temperature	0°C to +60°C
Relative humidity	0 - 95% (no condensation)
Protection class	IP20
Dimensions L × W × H	155 × 54 × 34 (mm, without smoke tube and fastening device)
Colour	red
Weight	200g

Cross-references	Page	Art.No.	Name Type
	146	249372	Access Point/Test Unit SCORP25-001
	148	249374	Control Panel SCORP8000-001
	148	249373	Portable Controller SCORP7000-001

249372 NEW

Access Point/Test Unit SCORP25-001

The Access Point SCORP25-001 is mounted in a place on the wall that is readily accessible, and is connected to a Test Unit SCORP1001-001 or SCORP2001-001 through a cable. For the activation of the test unit, the Portable Controller SCORP7000-001 is plugged into the access point. The access point is designed for surface mounting on the supplied plastic box. Alternatively, flush mounting on a 60mm flush-mount installation box is possible.

Note: Each test unit has to be equipped with its own access point.

Specifications

Length of cable to test unit	max. 100m
Colour	white

Cross-references	Page	Art.No.	Name Type
	148	249373	Portable Controller SCORP7000-001
	146	249371	Test Unit/Aspiration System SCORP2001-001
	146	249370	Test Unit/Point Detector SCORP1001-001

249373 NEW

Portable Controller SCORP7000-001

The Portable Controller SCORP7000-001 allows you to operate the Test Units SCORP1001-001 and SCORP2001-001. For this purpose, the controller is plugged into the access point of the test unit that belongs to it. The activation of the test unit or the cleaning function is started with buttons.

The controller and the test unit are powered by connecting the cylindrical battery SOLO770-001 of a SOLO detector tester to the controller. The connection cable for the battery is included in the delivery scope.

Specifications

Power supply	SOLO770-001 battery
Ambient temperature	+5°C to +45°C
Relative humidity	0 - 85% (no condensation)
Protection class	IP20
Dimensions L × W × H	220 × 95 × 40 (mm)
Weight	500g

Cross-references	Page	Art.No.	Name Type
	146	249372	Access Point/Test Unit SCORP25-001
	144	249231	Battery for Detector Tester SOLO770-001
	146	249371	Test Unit/Aspiration System SCORP2001-001
	146	249370	Test Unit/Point Detector SCORP1001-001

249374 NEW

Control Panel SCORP8000-001

The Control Panel SCORP8000-001 allows the connection of up to 8 Test Units SCORP1001-001 or SCORP2001-001. The desired test unit is selected with buttons. After that, the activation of the test unit or the cleaning function can be started.

The control panel and the test unit are powered by connecting the cylindrical battery SOLO770-001 of a SOLO detector tester to the control panel. For the connection of the battery, the optional cable SCORP60-001 is needed.

Specifications

Power supply	SOLO770-001 battery
Length of cable to test unit	max. 100m
Ambient temperature	+5°C to +45°C
Relative humidity	0 - 85% (no condensation)
Protection class	IP40
Dimensions W × H × D	155 × 150 × 37 (mm)
Weight	500g

Cross-references	Page	Art.No.	Name Type
	148	249375	Battery Connection Cable SCORP60-001
	144	249231	Battery for Detector Tester SOLO770-001
	146	249371	Test Unit/Aspiration System SCORP2001-001
	146	249370	Test Unit/Point Detector SCORP1001-001

249375 NEW

Battery Connection Cable SCORP60-001

The cable is used to connect the cylindrical battery SOLO770-001 of a SOLO detector tester to a Portable Controller SCORP7000-001 or to the Control Panel SCORP8000-001.

The cable is already included in the delivery scope of the portable controller.

Cross-references	Page	Art.No.	Name Type
	144	249231	Battery for Detector Tester SOLO770-001
	148	249374	Control Panel SCORP8000-001
	148	249373	Portable Controller SCORP7000-001

17 Labels

249041 Label BMZ BME/BMZ

The adhesive label with white background, red border and black inscription 'Brandmelderzentrale' is used to indicate the location of the fire detection control panel.

Specifications

Dimensions W × H	297 × 105 (mm)
Material	PVC foil, self-adhesive

249243 Label Loschsteuerzentrale BME/LSZ

The adhesive label with white background, red border and black inscription 'LÖSCHSTEUERZENTRA-LE' is used to indicate the location of the extinguishing control panel.

Specifications

Dimensions W × H	297 × 105 (mm)
Material	PVC foil, self-adhesive

249244 Label Arrow BME/PFEIL

The standardised adhesive label according to DIN 4066 with white background, red border and arrow is used together with the sign "Brandmelderzentrale", "Löschsteuerzentrale" or the like.

Specifications

Dimensions W × H	297 × 105 (mm)
Material	PVC foil, self-adhesive

18 Miscellaneous

229004 Alarm Resistor 100pcs. 1K/0,33W

The packing unit contains 100 pieces of 1kOhm resistors, which are to be used with contact detectors in conventional technology (e.g., manual call points). Resistors limit the line current of the detector line during alarm activation of the contact detector and serve to distinguish between a short circuit and an alarm.

229005 EOL Resistor 100pcs. 5,6K/0,33W

The packing unit contains 100 pieces of 5.6kOhm resistors, which are to be used as line terminator (end-of-line resistor) of a detector line in conventional technology.

229006 Diode 100pcs. 1N4004/100Stk

The packing unit contains 100 pieces of 1N4004 diodes, which are to be used as blocking diode in case of negative monitoring voltages (e.g., Siren Connection Module SZ58-2 and SZ58-3) or as recovery diode for inductive loads.

219612 NEW Log Book for Fire Detection Systems BMA-BUCH

The log book for fire detection systems (according to DIN VDE 0833, Part 1 and 2, or DIN 14675) is used to document the condition of a system and to log all events over the entire period of its operation.

219610 NEW Log Book for Fire Detection Systems VDS-BUCH

The VdS log book for fire detection systems (VdS 2182) is used to enter the master data and log all events during operation.

Part 2

1 Manual Call Points Series HME

240999T Manual Call Points Series HME, Overview

The Manual Call Points Series HME comply with Type B according to EN 54-11. The detector is activated by breaking the glass pane and pressing the button. The aluminium die-cast housing impresses with its modern design and numerous constructional details. In comparison with plastic cases, the aluminium housing proves to be of advantage even after years of use, thanks to its resistance to environmental impact: It is virtually unbreakable and form and colour stable.

The manual call points are available both in conventional technology as well as in loop technology for the loop protocols Labor Strauss, System Sensor and Apollo. The Manual Call Points Series HME are available for numerous applications, in different colours and with different captions. The detectors for loop connection have an integrated dual-isolator which disconnects the loop in the event of a short circuit.

The following table gives an overview of the manual call points Series HME in the standard version (protection class IP43) and of the types with protection class IP65 that are in stock.

Technology	Type [1]	Colour	Labelling [2]	Standard version Art.No.	Protection class IP65 Art.No.
Conventional	HME/3000/11/H1/02	flame red		240302	
	HME/5015/11/02/02	sky blue	HAUSALARM	240322	
	HME/1021/11/17/02	rape yellow	HANDAUSLÖSUNG Gaslöschanlage	240332	
	HME/5015/11/18/02	sky blue	STOPP-TASTER Gaslöschanlage	240342	
Conventional, 2nd switch	HME/3000/12/52/02	flame red	FEUER		240108
	HME/5015/12/02/02	sky blue	HAUSALARM		240160
	HME/1021/12/17/02	rape yellow	HANDAUSLÖSUNG Gaslöschanlage		240109
	HME/5015/12/18/02	sky blue	STOPP-TASTER Gaslöschanlage		240161
	HME/6002/12/29/00	leaf green	AUSLÖSUNG ALLE STEUERUNGEN	240679	
2 independent switches	HME/1013/92/40/00	oyster white	NOTFALL	240800	
Loop, Labor Strauss Protocol	HME/3000/72/H1/02	flame red		240502	
	HME/3000/72/52/02	flame red	FEUER		240164
	HME/5015/72/02/02	sky blue	HAUSALARM	240522	240165
	HME/1021/72/17/02	rape yellow	HANDAUSLÖSUNG Gaslöschanlage	240532	
	HME/5015/72/18/02	sky blue	STOPP-TASTER Gaslöschanlage	240542	
	HME/6002/72/29/02	leaf green	AUSLÖSUNG ALLE STEUERUNGEN	240799	
	HME/1013/72/40/00	oyster white	NOTFALL	240795	
Loop, System Sensor Protocol	HME/3000/25/H1/02	flame red		240402	
	HME/3000/25/52/02	flame red	FEUER		240118
	HME/5015/25/02/02	sky blue	HAUSALARM	240422	240162
	HME/1021/25/17/02	rape yellow	HANDAUSLÖSUNG Gaslöschanlage	240432	240119
	HME/5015/25/18/02	sky blue	STOPP-TASTER Gaslöschanlage	240442	240163
	HME/6002/25/29/02	leaf green	AUSLÖSUNG ALLE STEUERUNGEN	240495	
	HME/2011/25/45/02	deep orange	Rauchabzug	240821	
	HME/1013/25/40/00	oyster white	NOTFALL	240793	
Loop, Apollo Protocol	HME/3000/32/H1/02	flame red		240602	
	HME/3000/32/52/02	flame red	FEUER		240138
	HME/5015/32/02/02	sky blue	HAUSALARM	240622	240166
	HME/1021/32/17/02	rape yellow	HANDAUSLÖSUNG Gaslöschanlage	240632	240139
	HME/5015/32/18/02	sky blue	STOPP-TASTER Gaslöschanlage	240642	240167
	HME/6002/32/29/02	leaf green	AUSLÖSUNG ALLE STEUERUNGEN	240690	
	HME/1013/32/40/00	oyster white	NOTFALL	240794	

[1] last 2 digits = logo. 00 ... without logo, 02 ... LST

[2] The symbol on a manual call point with 'H1' in the type code is printed on the door and cannot be changed. All other manual call points have a replaceable labelling sign.

Features (general)

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Replaceable label plate
- Multicoloured LED for the optical indication of the activation condition and other operating conditions
- Latching (default) or non-latching push button
- Easy to replace standardised glass plate
- Detector housing can be opened with key SCHL-HFM/HM (not included)
- Plenty of room for cabling
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54, or to IP65 through a factory upgrade
- For an order of at least 100 units, the product can also be provided with a customer-specific logo

Specifications (general)

Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43 (without upgrade)
Dimensions W × H × D	126 × 126 × 35 (mm)
Weight	approx. 420g

2 Conventional Detectors Series FC650

241072 Optical Smoke Detector/650 FC650/O

The Optical Smoke Detector FC650/O operates with an optical sensing chamber based on the principle of scattered light. The detector is designed for applications using addressable conventional technology. For quick localisation in the event of an alarm, each detector can be assigned an address by adding an Address Module NG58-1 to the mounting base. The address of the detector in alarm condition as well as the assigned text is displayed on a compatible fire detection control panel.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms.

By means of the Programming Unit FI700/PU, the function of the status LED in normal condition can be set and detector-specific parameters such as the contamination of the optical chamber or the production date can be read out.

An LED indicator, visible from all angles, displays the activated condition of the detector. The detector is accommodated in a white housing and is designed for indoor mounting. Several base versions are available for mounting the detector.

Features
- Output for external remote indicator
- Mechanical theft protection in the base
- Insect screen and double dust trap
- Easy function testing using a magnet or test gas

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 90µA (quiescent)
Ambient temperature	-30°C to +70°C
Relative humidity	max. 95% (no condensation)
Protection class	IP40 (IP42 with silicone gasket)
Dimensions Ø × H	106 × 46 (mm)
Colour	white
Weight	80g
Approvals	VdS G210145 LPCB 928e/02 2831-CPR-F4292

Cross-references	Page	Art.No.	Name Type
	95	249020	Address Module Conventional NG58-1
	36	246071	Detector Base/600/Diode FC600/BRD
	36	246070	Detector Base/600 FC600/BR
	42	249272	Programming Unit FI700 FI700/PU

242072 Thermal RoR Detector/650/A1R FC650/TDIFF/57

The Thermal RoR Detector FC650/TDIFF/57 reacts to temperature changes within defined periods of time (rate-of-rise principle) as well as to a maximum temperature of 57°C according to EN 54-5, Class A1R. The detector is designed for use in addressable conventional technology and is suitable for indoor mounting up to a maximum room height of 7.5m.

By means of the Programming Unit FI700/PU, the preset temperature class according to EN 54-5 can be changed, the function of the status LED in normal condition can be set and parameters such as the production date can be read out.

For quick localisation in the event of an alarm, each detector can be assigned an address by adding an Address Module NG58-1 to the mounting base. The address of the detector in alarm condition as well as the assigned text is displayed on a compatible fire detection control panel.

An LED indicator, visible from all angles, displays the activated condition of the detector. The detector is accommodated in a white housing. Several base versions are available for mounting the detector.

Features
- Output for external remote indicator
- Mechanical theft protection in the base
- Easy function testing using a magnet

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 90µA (quiescent)
Alarm temperature	typ. 57°C (maximum-heat component)
Application temperature	max. +50°C
Ambient temperature	-30°C to +70°C (continuous operation)
Relative humidity	max. 95% (no condensation)
Protection class	IP40 (IP42 with silicone gasket)
Dimensions Ø × H	106 × 46 (mm)
Colour	white
Weight	80g
Approvals	VdS G210151 LPCB 928d/02 2831-CPR-F4291

Cross-references	Page	Art.No.	Name Type
	95	249020	Address Module Conventional NG58-1
	36	246071	Detector Base/600/Diode FC600/BRD
	36	246070	Detector Base/600 FC600/BR
	42	249272	Programming Unit FI700 FI700/PU

242073 Thermal Max Detector/650/BS FC650/TMAX/78

The Thermal Max Detector FC650/TMAX/78 reacts to a maximum temperature of 78°C according to EN 54-5, Class BS. The detector is designed for use in addressable conventional technology and is suitable for indoor mounting up to a maximum room height of 6m.

By means of the Programming Unit FI700/PU, the preset temperature class according to EN 54-5 can be changed, the function of the status LED in normal condition can be set and parameters such as the production date can be read out.

For quick localisation in the event of an alarm, each detector can be assigned an address by adding an Address Module NG58-1 to the mounting base. The address of the detector in alarm condition as well as the assigned text is displayed on a compatible fire detection control panel.

An LED indicator, visible from all angles, displays the activated condition of the detector. The detector is accommodated in a white housing. Several base versions are available for mounting the detector.

Features
- Output for external remote indicator
- Mechanical theft protection in the base
- Easy function testing using a magnet

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 90µA (quiescent)
Alarm temperature	typ. 78°C
Application temperature	max. +65°C
Ambient temperature	-30°C to +70°C (continuous operation)
Relative humidity	max. 95% (no condensation)
Protection class	IP40 (IP42 with silicone gasket)
Dimensions Ø × H	106 × 46 (mm)
Colour	white
Weight	80g
Approvals	VdS G210151 LPCB 928d/02 2831-CPR-F4291

Cross-references	Page	Art.No.	Name Type
	95	249020	Address Module Conventional NG58-1
	36	246071	Detector Base/600/Diode FC600/BRD
	36	246070	Detector Base/600 FC600/BR
	42	249272	Programming Unit FI700 FI700/PU

249066 Surcharge for special colouring FC650/FI700/SPECIAL

The automatic detectors Series FC650, FI700, FI750, FI720/RF and FI700/RF (optical smoke detectors, optical-thermal detectors and thermal detectors) are available in 16 different design finishes. You can choose from among: Black, Pink, Briar Root, Durmast Oak, Alder, Ash, Cherry, Carrara Marble, Green Alps, Green Marble, Obirho, Black Marble, Aluminium, Gold, Carbon Fibre and Gold Fibre. The appropriate detector base in the same design is included in delivery.

The desired design must be specified when ordering.

Note: for detectors in the special colouring there is a minimum order quantity of 50 pieces per design version.

3 Analog Detectors and Manual Call Points Series FI750/FI700

241086 Optical Smoke Detector/750 FI750/O

The Optical Smoke Detector FI750/O operates by means of an optical sensing chamber based on the principle of scattered light. The detector is designed for use on loops with Labor Strauss protocol. In the parameter settings of the control panel, one of 4 sensitivity levels can be selected, thereby adapting the detector optimally to the respective application.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. As a result, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms. A fine-meshed protective grid protects the sensing chamber against ingress of dust and insects. In addition, the design of the housing makes it more difficult for dust to settle inside the sensing chamber.

The two multicoloured LED indicators with 360° visibility indicate the activated condition of the detector in red and the test condition in green. An output for the connection of a remote indicator is available. The integrated dual-isolator disconnects the loop at short circuit on the loop line.

By means of the Programming Unit FI750/PU, the address of the detector can be set in the range 1 to 240. In addition, the programming unit allows for the reading-out of parameters, such as the level of contamination of the optical chamber, the default analogue value or the production date. Furthermore, in case of connection to a compatible fire detection control panel, the detector can also be AUTO-addressed.

The detector is accommodated in a white housing and is designed for indoor mounting.

Features
- Output for external remote indicator
- Mechanical theft protection in the base
- Double dust protection and insect screen
- Easy function testing by means of magnet or test gas

Specifications

Operating voltage	supply through the loop voltage
Current consumption at 24V	typ. 160µA (normal communication)
Current consumption LEDs	typ. 6mA (alarm condition)
Sensitivity	
Level 1	2.0%/m
Level 2	2.7%/m
Level 3	3.3%/m
Level 4	4.0%/m
Ambient temperature	-30°C to +70°C
Relative humidity	max. 95% (no condensation)
Protection class	IP40 (IP42 with silicone gasket)
Dimensions Ø × H	106 × 50 (mm)
Colour	white
Weight	86g
Approvals	VdS G213043 LPCB 928b/02 2831-CPR-F4314

Cross-references	Page	Art.No.	Name Type
	37	246086	Detector Base/750 FI750/B
	41	249275	Programming Unit FI750 FI750/PU

241087 Optical-Thermal Detector/750 FI750/OT

The Optical-Thermal Detector FI750/OT operates both by means of an optical sensing chamber based on the principle of scattered light as well as with a rate-of-rise thermal sensor according to EN 54-5, Class A1R. The analysis of the analogue values of both detection units and the integrated comparison of characteristics of fire ensure safe fire detection.

The detector is designed for use on loops with Labor Strauss protocol. In the parameter settings of the control panel, one of 4 sensitivity levels of the smoke detection unit can be selected, thereby adapting the detector optimally to the respective application. A thermal-only operation is also possible.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. As a result, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms. A fine-meshed protective grid protects the sensing chamber against ingress of dust and insects. In addition, the design of the housing makes it more difficult for dust to settle inside the sensing chamber.

The two multicoloured LED indicators with 360° visibility indicate the activated condition of the detector in red and the test condition in green. An output for the connection of a remote indicator is available. The integrated dual-isolator disconnects the loop at short circuit on the loop line.

By means of the Programming Unit FI750/PU, the address of the detector can be set in the range 1 to 240. In addition, the programming unit allows for the reading-out of parameters, such as the level of contamination of the optical chamber, the default analogue value or the production date. Furthermore, in case of connection to a compatible fire detection control panel, the detector can also be AUTO-addressed.

The detector is accommodated in a white housing and is designed for indoor mounting. In the thermal-only mode the room height is limited to 7.5m.

Features
- Output for external remote indicator
- Mechanical theft protection in the base
- Double dust protection and insect screen
- Easy function testing by means of magnet, test gas or test device for thermal detectors

Specifications

Operating voltage	supply through the loop voltage
Current consumption at 24V	typ. 160µA (normal communication)
Current consumption LEDs	typ. 6mA (alarm condition)
Sensitivity smoke detection unit	
Level 1	2.0%/m
Level 2	2.7%/m
Level 3	3.3%/m
Level 4	4.0%/m
Alarm temperature	+58°C (Class A1R)
Application temperature	max. +50°C
Ambient temperature	-30°C to +70°C
Relative humidity	max. 95% (no condensation)
Protection class	IP40 (IP42 with silicone gasket)
Dimensions Ø × H	106 × 50 (mm)
Colour	white
Weight	86g
Approvals	VdS G213045 LPCB 928c/02 2831-CPR-F4315

Cross-references	Page	Art.No.	Name Type
	37	246086	Detector Base/750 FI750/B
	41	249275	Programming Unit FI750 FI750/PU

242086

Thermal Detector/750 FI750/T

The Thermal Detector FI750/T is based on the principle of heat detection. On the fire detection control panel, the detector can be parameterised as rate-of-rise detector with a maximum temperature of 58°C (Class A1R) or as maximum heat detector with an alarm temperature of 78°C (Class BS). The detector is designed for use on loops with Labor Strauss protocol.

The two multicoloured LED indicators with 360° visibility indicate the activated condition of the detector in red and the test condition in green. An output for the connection of a remote indicator is available. The integrated dual-isolator disconnects the loop at short circuit on the loop line.

By means of the Programming Unit FI750/PU, the address of the detector can be set in the range 1 to 240. In addition, the programming unit allows for the reading-out of parameters, such as the default analogue value or the production date. Furthermore, in case of connection to a compatible fire detection control panel, the detector can also be AUTO-addressed.

The detector is accommodated in a white housing. If the detector operates as rate-of-rise detector (Class A1R), it can be used in rooms with a maximum height of 7.5m. If the detector is used as maximum heat detector according to Class BS, a maximum room height of 6m is permissible.

Features
- Output for external remote indicator
- Mechanical theft protection in the base
- Easy function testing by means of magnet or test device for thermal detectors

Specifications

Operating voltage	supply through the loop voltage
Current consumption at 24V	typ. 160µA (normal communication)
Current consumption LEDs	typ. 6mA (alarm condition)
Alarm temperature	+58°C (Class A1R) +78°C (Class BS)
Application temperature	max. +50°C (Class A1R) max. +65°C (Class BS)
Ambient temperature	-30°C to +70°C
Relative humidity	max. 95% (no condensation)
Protection class	IP40 (IP42 with silicone gasket)
Dimensions Ø × H	106 × 50 (mm)
Colour	white
Weight	86g
Approvals	VdS G213044 LPCB 928a/02 2831-CPR-F4316

Cross-references	Page	Art.No.	Name Type
	37	246086	Detector Base/750 FI750/B
	41	249275	Programming Unit FI750 FI750/PU

249066 Surcharge for special colouring FC650/FI700/SPECIAL

The automatic detectors Series FC650, FI700, FI750, FI720/RF and FI700/RF (optical smoke detectors, optical-thermal detectors and thermal detectors) are available in 16 different design finishes. You can choose from among: Black, Pink, Briar Root, Durmast Oak, Alder, Ash, Cherry, Carrara Marble, Green Alps, Green Marble, Obirho, Black Marble, Aluminium, Gold, Carbon Fibre and Gold Fibre. The appropriate detector base in the same design is included in delivery.

The desired design must be specified when ordering.

Note: for detectors in the special colouring there is a minimum order quantity of 50 pieces per design version.

240502 Manual Call Point/Red/700 HME/3000/72/H1/02

The manual call point according to EN 54-11 / type B in the aluminium die-cast design housing is implemented in loop technology. For the bi-directional loop communication, the Labor Strauss protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The detector is activated by breaking the glass pane and pressing the button.

By means of the Programming Unit FI750/PU, the address of the detector can be set in the range 1 to 240. Alternatively, the detector can be AUTO-addressed via a compatible fire detection control panel.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Latching push button
- Easy to replace standardised glass plate
- Detector housing can be opened with key SCHL-HFM/HM (not included)
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54, or to IP65 through a factory upgrade
- Optional protective cover can provide additional mechanical protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 90µA (normal communication)
Protection class	IP43 (without upgrade)
Dimensions W × H × D	126 × 126 × 35 (mm)
Colour	red, similar to RAL 3000
Weight	approx. 420g
Approvals	VdS G218059 0786-CPR-21603

Cross-references	Page	Art.No.	Name Type
	166	249681	Key for Manual Call Point SU=10 SCHL-HM/10
	41	249275	Programming Unit FI750 FI750/PU
	165	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	164	249633	Protective Cover V2A for MCP/Red WG/ROT-E-1
	166	249680	Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10

240164 NEW

Manual Call Point/red/700/FEUER HME/3000/72/52/02/IP65

As regards the function and cross-references, this red manual call point is identical to the Manual Call Point HME/3000/72/H1/02; however, thanks to the gasket elements which have already been installed, it has protection class IP65.

Additional features

- Changeable door label with house symbol + "FEUER", house symbol on the reverse
- 2 cable glands M20×1.5mm, 1 dummy cable gland

Specifications (for further specifications, see HME/3000/72/H1/02)

Protection class	IP65
Weight	approx. 450g

240522

Manual Call Point/Blue/700/HAUSALARM HME/5015/72/02/02

The manual call point in the blue aluminium die-cast design housing is implemented in loop technology. For the bi-directional loop communication, the Labor Strauss protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The detector is activated by breaking the glass pane and pressing the button.

By means of the Programming Unit FI750/PU, the address of the detector can be set in the range 1 to 240. Alternatively, the detector can be AUTO-addressed via a compatible fire detection control panel.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Door label "HAUSALARM", replaceable
- Multicoloured LED for the optical indication of the activation condition and other operating conditions
- Latching (default) or non-latching push button
- Easy to replace standardised glass plate
- Detector housing can be opened with key SCHL-HFM/HM (not included)
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54, or to IP65 through a factory upgrade
- Optional protective cover can provide additional mechanical protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 90µA (normal communication)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43 (without upgrade)
Dimensions W × H × D	126 × 126 × 35 (mm)
Colour	blue, similar to RAL 5015
Weight	approx. 420g

Cross-references	Page	Art.No.	Name Type
	166	249681	Key for Manual Call Point SU=10 SCHL-HM/10
	41	249275	Programming Unit FI750 FI750/PU
	165	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	164	249634	Protective Cover V2A for MCP/Blue WG/BLAU-E-1
	166	249680	Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10
	166	249675	Special Designation HME/Sheet-10pcs. HME-BESCH-BOG

240165 NEW

Manual Call Point/blue/700/HAUSLARM HME/5015/72/02/02/IP65

As regards the function and cross-references, this blue manual call point is identical to the Manual Call Point HME/5015/72/02/02; however, thanks to the gasket elements which have already been installed, it has protection class IP65.

Additional features
- 2 cable glands M20×1.5mm, 1 dummy cable gland

Specifications (for further specifications, see HME/5015/72/02/02)

Protection class	IP65
Weight	approx. 450g

240532 NEW

Manual Call Point/yellow/700/Handauslösung HME/1021/72/17/02

The manual call point in the yellow aluminium die-cast design housing operates as electrical activation device for extinguishing systems using gaseous or other extinguishing agents and is implemented in loop technology. For the bi-directional loop communication, the Labor Strauss protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The detector is activated by breaking the glass pane and pressing the button. The manual call point has been tested and certified according to the standards EN 54-17 and EN 12094-3.

By means of the Programming Unit FI750/PU, the address of the detector can be set in the range 1 to 240. Alternatively, the detector can be AUTO-addressed via a compatible fire detection control panel.

Features
- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Changeable door label "HANDAUSLÖSUNG-Gaslöschanlage" according to EN 12094-3, with "HANDAUSLÖSUNG-Feuerlöschanlage" according to VdS 2496 on the reverse
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Latching push button
- Easy to replace standardised glass plate
- Detector housing can be opened with key SCHL-HFM/HM (not included)
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54, or to IP65 through a factory upgrade
- Optional protective cover can provide additional mechanical protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 90µA (normal communication)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43 (without upgrade)
Dimensions W × H × D	126 × 126 × 35 (mm)
Colour	yellow, similar to RAL 1021
Weight	approx. 420g
Approvals	VdS G218060 0786-CPR-21604

Cross-references	Page	Art.No.	Name Type
	166	249681	Key for Manual Call Point SU=10 SCHL-HM/10
	41	249275	Programming Unit FI750 FI750/PU
	165	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	164	249636	Protective Cover V2A for MCP/Yellow WG/GELB-E-1
	166	249680	Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10
	166	249675	Special Designation HME/Sheet-10pcs. HME-BESCH-BOG

240542 NEW

Manual Call Point/blue/700/STOPP HME/5015/72/18/02

The manual call point in the blue aluminium die-cast design housing operates as electrical emergency hold device for extinguishing systems using gaseous or other extinguishing agents and is implemented in loop technology. For the bi-directional loop communication, the Labor Strauss protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The detector is activated by breaking the glass pane and pressing the button. The manual call point has been tested and certified according to the standards EN 54-17 and EN 12094-3.

By means of the Programming Unit FI750/PU, the address of the detector can be set in the range 1 to 240. Alternatively, the detector can be AUTO-addressed via a compatible fire detection control panel.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Door label "STOPP-TASTER Gaslöschanlage", replaceable
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Non-latching push button
- Easy to replace standardised glass plate
- Detector housing can be opened with key SCHL-HFM/HM (not included)
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54, or to IP65 through a factory upgrade
- Optional protective cover can provide additional mechanical protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 90µA (normal communication)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43 (without upgrade)
Dimensions W × H × D	126 × 126 × 35 (mm)
Colour	blue, similar to RAL 5015
Weight	approx. 420g
Approvals	VdS G218061 0786-CPR-21605

Cross-references	Page	Art.No.	Name Type
	166	249681	Key for Manual Call Point SU=10 SCHL-HM/10
	41	249275	Programming Unit FI750 FI750/PU
	165	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	164	249634	Protective Cover V2A for MCP/Blue WG/BLAU-E-1
	166	249680	Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10
	166	249675	Special Designation HME/Sheet-10pcs. HME-BESCH-BOG

240799 NEW

Manual Call Point/green/700/STEUERUNGEN HME/6002/72/29/02

The manual call point in the green aluminium die-cast design housing is implemented in loop technology. For the bi-directional loop communication, the Labor Strauss protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The detector is activated by breaking the glass pane and pressing the button.

Depending on which side of the replaceable door label that has text printed on both sides is visible, the manual call point can be used for the following functions:

- Door label "AUSLÖSUNG ALLE STEUERUNGEN" (delivery condition): The manual call point is required according to ÖNORM F 3001 for manually overriding fire controls. The detector is to be connected to the fire control panel.
- Door label "AUFZUG BRANDFALLSTEUERUNG" (reverse): The manual call point is required according to TRVB S 111 for actuating lifts in the event of fire. The detector is to be connected to the lift control or - if the building is equipped with a fire detection system - to the fire control panel.

By means of the Programming Unit FI750/PU, the address of the detector can be set in the range 1 to 240. Alternatively, the detector can be AUTO-addressed via a compatible fire detection control panel.

Features
- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Latching push button
- Easy to replace standardised glass plate
- Detector housing can be opened with key SCHL-HFM/HM (not included)
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54, or to IP65 through a factory upgrade
- Optional protective cover can provide additional mechanical protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 90µA (normal communication)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours.)
Protection class	IP43 (without upgrade)
Dimensions W × H × D	126 × 126 × 35 (mm)
Colour	green, similar to RAL 6002
Weight	approx. 420g

Cross-references	Page	Art.No.	Name Type
	166	249681	Key for Manual Call Point SU=10 SCHL-HM/10
	41	249275	Programming Unit FI750 FI750/PU
	165	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	164	249694	Protective Cover V2A for MCP/Green WG/GRÜN-E-1
	166	249680	Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10
	166	249675	Special Designation HME/Sheet-10pcs. HME-BESCH-BOG

240795 NEW

Manual Call Point/white/700/NOTFALL HME/1013/72/40/00

The manual call point in the white aluminium die-cast design housing is implemented in loop technology. For the bi-directional loop communication, the Labor Strauss protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The detector is activated by breaking the glass pane and pressing the button.

The manual call point is designed for connection to a danger detection system and is used if quick alarming of the helping forces is required.

By means of the Programming Unit FI750/PU, the address of the detector can be set in the range 1 to 240. Alternatively, the detector can be AUTO-addressed via a compatible fire detection control panel.

Features
- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Blue user interface with operating instructions in the form of white symbols (EN 54-11)
- Door label "NOTFALL", replaceable
- Latching (default) or non-latching push button
- Easy to replace standardised glass plate
- Detector housing can be opened with key SCHL-HFM/HM (not included)
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54, or to IP65 through a factory upgrade
- Optional protective cover can provide additional mechanical protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 90µA (normal communication)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43 (without upgrade)
Dimensions W × H × D	126 × 126 × 35 (mm)
Colour	white, similar to RAL 1013
Weight	approx. 420g

Cross-references	Page	Art.No.	Name Type
	166	249681	Key for Manual Call Point SU=10 SCHL-HM/10
	41	249275	Programming Unit FI750 FI750/PU
	165	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	166	249680	Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10
	166	249675	Special Designation HME/Sheet-10pcs. HME-BESCH-BOG

245080

Manual Call Point/Red/700/Flexi FI700/MCP

The manual call point according to EN 54-11 / type A is accommodated in a red plastic housing and is designed for use on the loop with Labor Strauss protocol. The detector is activated by pressing in the plastic pane without breaking it. The pane can be placed again into the idle position with a special key, thereby resetting the detector.

A two-coloured LED indicates the activated condition of the detector in red, the fault condition in yellow and the loop polling in green. The integrated dual-isolator disconnects the loop at short circuit on the loop line.

By means of the Programming Unit FI750/PU, the address of the detector can be set in the range 1 to 240. In addition, the programming unit allows the reading-out of parameters, such as the default analogue value or the production date. Furthermore, in case of connection to a compatible fire detection control panel, the detector can also be AUTO-addressed.

Features
- Operating instructions in the form of symbols (EN 54-11)
- Activation by pressing in plastic pane without breaking it
- Plastic pane easy to reset
- Surface mounting with surface-mount box or flush mounting with flush-mount frame on a 60mm installation box
- Surface-mount box, flush-mount frame and special key included in delivery

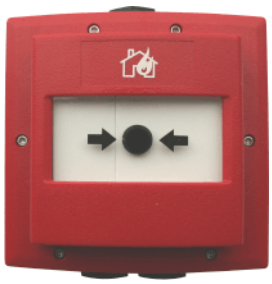
Specifications

Operating voltage	supplied through loop voltage
Current consumption at 24V	typ. 70µA (normal communication)
Current consumption LED	typ. 6mA (alarm condition)
Ambient temperature	-30°C to +70°C (no icing)
Relative humidity	5 - 95% (no condensation)
Protection class	IP21
Dimensions W × H × D	87 × 87 × 58 (mm, surface-mount) 87 × 87 × 23 (mm, flush-mount)
Colour	flame red, RAL 3000
Weight	165g (incl. surface-mount box)
Approvals	LPCB 928h/01 2831-CPR-F4290

Cross-references	Page	Art.No.	Name Type
	167	245083	Plexi Glass Cover for FI700/MCP CI700-1
	41	249275	Programming Unit FI750 FI750/PU
	166	249152	Protection Cover MCP MCP-COVER-1
	167	249219	Reset Key For Manual Call Point-Pack of 10 pieces M210

245081

Manual Call Point IP67/Red/700 FI700/MCP67



The manual call point according to EN 54-11 / type A is accommodated in a red plastic housing and is designed for use on the loop with Labor Strauss protocol. Thanks to its dust and water protected design, the manual call point is suitable for use under harsh environmental conditions. The detector is activated by pressing in the plastic pane without breaking it. The pane can be placed again into the idle position with a special key, thereby resetting the detector.

A two-coloured LED indicates the activated condition of the detector in red, the fault condition in yellow and the loop polling in green. The integrated dual-isolator disconnects the loop at short circuit on the loop line.

By means of the Programming Unit FI750/PU, the address of the detector can be set in the range 1 to 240. In addition, the programming unit allows the reading-out of parameters, such as the default analogue value or the production date. Furthermore, in case of connection to a compatible fire detection control panel, the detector can also be AUTO-addressed.

Features
- Operating instructions in the form of symbols (EN 54-11)
- Activation by pressing in plastic pane without breaking it
- Plastic pane easy to reset
- Installation box with gasket elements and special key included in delivery

Specifications

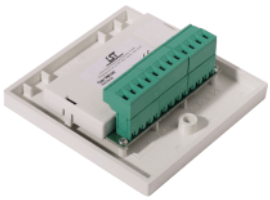
Operating voltage	supplied through loop voltage
Current consumption at 24V	typ. 70µA (normal communication)
Current consumption LED	typ. 6mA (alarm condition)
Ambient temperature	-20°C to +65°C (no icing)
Relative humidity	5 - 95% (no condensation)
Protection class	IP67
Dimensions W × H × D	119 × 128 × 62 (mm)
Colour	flame red, RAL 3000
Weight	approx. 250g

Cross-references	Page	Art.No.	Name Type
	167	245083	Plexi Glass Cover for FI700/MCP CI700-1
	41	249275	Programming Unit FI750 FI750/PU
	167	249219	Reset Key For Manual Call Point-Pack of 10 pieces M210

4 Modules, Optical and Acoustic Devices Series FI750/FI700

4

249250



Monitor Module 1xIn/700 FI700/M1IN

The Monitor Module FI700/M1IN is integrated into a loop with Labor Strauss protocol and provides a line-monitored input for the connection of contact detectors. With that, manual call points, sprinkler system contacts or supervising contacts can be easily integrated into a fire detection system with loop technology. The integrated dual-isolator disconnects the loop at short circuit on the loop line.

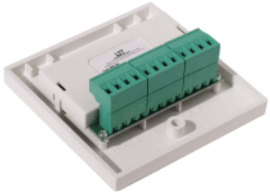
Features
- Two-coloured status LED for the indication of the alarm condition, the fault condition and optionally the loop polling
- Input monitored for wire breakage and short circuit
- Module address can be set in the range 1 to 240 by means of the Programming Unit FI750/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel
- Installation in module box

Specifications

Operating voltage	supplied through loop voltage
Current consumption at 24V	typ. 120µA (normal communication)
Current consumption module LED	typ. 6mA
Ambient temperature	-30°C to +70°C (no icing)
Relative humidity	5 - 95% (no condensation)
Protection class	IP21
Dimensions L × W × H	87 × 87 × 32 (mm)
Weight	80g
Approvals	VdS G212054
	2797-CPR-697215

Cross-references	Page	Art.No.	Name Type
	38	249274	Module Box 41mm/700/Knock-out FI700/MBD/KO
	41	249275	Programming Unit FI750 FI750/PU

249251



Control Module 1xOut/700 FI700/M1OUT

The Control Module FI700/M1OUT is integrated into a loop with Labor Strauss protocol and provides a line-monitored output for the actuation of external devices. With that, fire doors, sirens or solenoid valves can be easily integrated into a fire detection system with loop technology. The connected load is powered by an external power supply. The integrated dual-isolator disconnects the loop at short circuit on the loop line.

Features
- Two-coloured status LED indicates the activaton of the output and the fault condition
- Output monitored for wire breakage and short circuit
- Module address can be set in the range 1 to 240 by means of the Programming Unit FI750/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel
- Installation in module box

Specifications

Operating voltage	supplied through loop voltage
Current consumption at 24V	typ. 120µA (normal communication)
Current consumption module LED	typ. 6mA
External supply voltage	max. 30VDC
Load current	max. 2A
Monitoring current	typ. -240µA
End-of-line resistor	27kOhm
Ambient temperature	-30°C to +70°C (no icing)
Relative humidity	5 - 95% (no condensation)
Protection class	IP21
Dimensions L × W × H	87 × 87 × 32 (mm)
Weight	80g
Approvals	VdS G212055
	2797-CPR-697215

Cross-references	Page	Art.No.	Name Type
	38	249274	Module Box 41mm/700/Knock-out FI700/MBD/KO
	41	249275	Programming Unit FI750 FI750/PU

249252

Control Module 1xRel/700 FI700/M1REL

The Control Module FI700/M1REL is integrated into a loop with Labor Strauss protocol and provides a dry relay output for the actuation of external devices. With that, ancillary devices can be easily integrated into a fire detection system with loop technology, without monitoring the line. The integrated dual-isolator disconnects the loop at short circuit on the loop line.

Features

- Two-coloured status LED indicates the activaton of the output and the fault condition
- Module address can be set in the range 1 to 240 by means of the Programming Unit FI750/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel
- Installation in module box

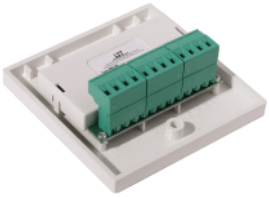
Specifications

Operating voltage	supplied through loop voltage
Current consumption at 24V	typ. 120µA (normal communication)
Current consumption module LED	typ. 6mA
Contact rating relay output	max. 2A at 30VDC max. 0.5A at 125VAC
Ambient temperature	-30°C to +70°C (no icing)
Relative humidity	5 - 95% (no condensation)
Protection class	IP21
Dimensions L × W × H	87 × 87 × 32 (mm)
Weight	80g
Approvals	VdS G212056 2797-CPR-697215

Cross-references	Page	Art.No.	Name Type
	38	249274	Module Box 41mm/700/Knock-out FI700/MBD/KO
	41	249275	Programming Unit FI750 FI750/PU

249253

Module 1xIn 1xOut/700 FI700/M1IN1OUT



The monitor and control module FI700/M1IN1OUT is integrated into a loop with Labor Strauss protocol and provides both a line-monitored input for the connection of contact detectors as well as a line-monitored output for the actuation of external devices. With that, various devices such as manual call points, supervising contacts, signalling devices or solenoid valves can be easily integrated into a fire detection system with loop technology. The load that is connected to the output is powered by an external power supply. The integrated dual-isolator disconnects the loop at short circuit on the loop line.

Features

- 2 two-coloured status LEDs indicate the alarm condition of the input, the activation of the output and the fault condition of the input and of the output
- Input and output monitored for wire breakage and short circuit
- Module address can be set in the range 1 to 240 by means of the Programming Unit FI750/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel
- Installation in module box

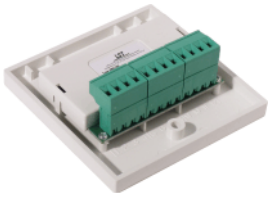
Specifications

Operating voltage	supplied through loop voltage
Current consumption at 24V	typ. 120µA (normal communication)
Current consumption module LED	typ. 6mA
Output:	
External supply voltage	max. 30VDC
Load current	max. 2A
Monitoring current	typ. -240µA
End-of-line resistor	27kOhm
Ambient temperature	-30°C to +70°C (no icing)
Relative humidity	5 - 95% (no condensation)
Protection class	IP21
Dimensions L × W × H	87 × 87 × 32 (mm)
Weight	80g
Approvals	VdS G212053 2797-CPR-697215

Cross-references	Page	Art.No.	Name Type
	38	249274	Module Box 41mm/700/Knock-out FI700/MBD/KO
	41	249275	Programming Unit FI750 FI750/PU

249254

Module 1xIn 1xRel/700 FI700/M1IN1REL



The monitor and control module FI700/M1IN1REL is integrated into a loop with Labor Strauss protocol and provides both a line-monitored input for the connection of contact detectors as well as a dry relay output for the actuation of external devices. With that, various devices such as manual call points, supervising contacts, signalling devices or solenoid valves can be easily integrated into a fire detection system with loop technology. The integrated dual-isolator disconnects the loop at short circuit on the loop line.

Features
- 2 two-coloured status LEDs indicate the alarm condition of the input, the activation of the output and the fault condition of the input and of the output
- Input monitored for wire breakage and short circuit
- Module address can be set in the range 1 to 240 by means of the Programming Unit FI750/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel
- Installation in module box

Specifications

Operating voltage	supplied through loop voltage
Current consumption at 24V	typ. 120µA (normal communication)
Current consumption module LED	typ. 6mA
Contact rating relay output	max. 2A at 30VDC max. 0.5A at 125VAC
Ambient temperature	-30°C to +70°C (no icing)
Relative humidity	5 - 95% (no condensation)
Protection class	IP21
Dimensions L × W × H	87 × 87 × 32 (mm)
Weight	80g
Approvals	VdS G212016 2797-CPR-697215

Cross-references	Page	Art.No.	Name Type
	38	249274	Module Box 41mm/700/Knock-out FI700/MBD/KO
	41	249275	Programming Unit FI750 FI750/PU

249255

Conventional Zone Module/700 FI700/M1CZ

The Conventional Zone Module FI700/M1CZ is integrated into a loop with Labor Strauss protocol and provides a line-monitored detector line for the connection of conventional detectors. With that, manual call points or automatic detectors in conventional technology can be easily integrated into a fire detection system with loop technology.

The capacitive line termination of the conventional line (default setting) keeps the power consumption of the module low and supports the detection of a wire breakage. Alternatively, a resistive line termination can be set. For resetting special detectors, the conventional zone module provides a dry relay output.

The integrated dual-isolator disconnects the loop at short circuit on the loop line. The module can be powered either via the loop or by an external 24VDC supply.

Features
- Two-coloured status LED for the indication of the alarm condition, the fault condition and optionally the loop polling
- Conventional line monitored for wire breakage and short circuit
- Module address can be set in the range 1 to 240 by means of the Programming Unit FI750/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel
- Integrated in plastic housing for surface mounting

Specifications

Operating voltage	15 to 40VDC
Current consumption at 24V	typ. 500µA (loop supply)
Current consumption module LED	typ. 6mA
Line termination	typ. 4.7µF (alternatively 4.7kOhm)
Contact rating relay output	2A at 30VDC
Ambient temperature	-30°C to +70°C (no icing)
Relative humidity	5 - 95% (no condensation)
Protection class	IP54
Dimensions L × W × H	135 × 95 × 57 (mm)
Colour	light grey, RAL 7035
Weight	210g
Approval	0051-CPR-1584

Cross-references	Page	Art.No.	Name	Type
	41	249275	Programming Unit FI750 FI750/PU	

249256 Monitor Module Mini 1xIn/700 FI700/MM1IN

The electrical design of the Monitor Module FI700/MM1IN is identical with that of the Monitor Module FI700/M1IN, but the FI700/MM1IN is fitted into a compact case and is designed for mounting in a switch cabinet, on a mounting plate or in an external housing.

Specifications (for further specifications, see FI700/M1IN)

Dimensions L × W × H	75 × 52 × 30 (mm)
Weight	70g
Approvals	VdS G212118
	2797-CPR-697215

249257 Control Module Mini 1xOut/700 FI700/MM1OUT

The electrical design of the Control Module FI700/MM1OUT is identical with that of the Control Module FI700/M1OUT, but the FI700/MM1OUT is fitted into a compact case and is designed for mounting in a switch cabinet, on a mounting plate or in an external housing.

Specifications (for further specifications, see FI700/M1OUT)

Dimensions L × W × H	75 × 52 × 30 (mm)
Weight	70g
Approvals	VdS G212119
	2797-CPR-697215

249258 Control Module Mini 1xRel/700 FI700/MM1REL

The electrical design of the Control Module FI700/MM1REL is identical with that of the Control Module FI700/M1REL, but the FI700/MM1REL is fitted into a compact case and is designed for mounting in a switch cabinet, on a mounting plate or in an external housing.

Specifications (for further specifications, see FI700/M1REL)

Dimensions L × W × H	75 × 52 × 30 (mm)
Weight	70g
Approvals	VdS G212120
	2797-CPR-697215

249259 Module Mini 1xIN 1xOut/700 FI700/MM1IN1OUT

The electrical design of the monitor and control module FI700/MM1IN1OUT is identical with that of the monitor and control module FI700/M1IN1OUT, but the FI700/MM1IN1OUT is fitted into a compact case and is designed for mounting in a switch cabinet, on a mounting plate or in an external housing.

Specifications (for further specifications, see FI700/M1IN1OUT)

Dimensions L × W × H	75 × 52 × 30 (mm)
Weight	70g
Approvals	VdS G212121
	2797-CPR-697215

249260 Module Mini 1xIn 1xRel/700 FI700/MM1IN1REL

The electrical design of the monitor and control module FI700/MM1IN1REL is identical with that of the monitor and control module FI700/M1IN1REL, but the FI700/MM1IN1REL is fitted into a compact case and is designed for mounting in a switch cabinet, on a mounting plate or in an external housing.

Specifications (for further specifications, see FI700/M1IN1REL)

Dimensions L × W × H	75 × 52 × 30 (mm)
Weight	70g
Approvals	VdS G212122 2797-CPR-697215

249289 Module 4xIn 4xRel/700 FI700/M4IN4REL

The multiple monitor and control module FI700/M4IN4REL is integrated into a loop with Labor Strauss protocol and provides 4 independent line-monitored inputs for the connection of contact detectors as well as four independent dry relay outputs for the actuation of external devices. With that, various devices such as manual call points, supervising contacts, signalling devices or solenoid valves can be easily integrated into a fire detection system with loop technology.

The module occupies 8 consecutive addresses on the loop. The base address is set in the range 1 to 233 by means of the Programming Unit FI750/PU. Furthermore, in case of connection to a compatible fire detection control panel, the module can also be AUTO-addressed. The integrated dual-isolator disconnects the loop at short circuit on the loop line.

Features
- 2 two-coloured status LEDs for the common indication of the conditions of the inputs and outputs
- Inputs monitored for wire breakage and short circuit
- Plastic housing for surface mounting

Specifications

Operating voltage	supplied through loop voltage
Current consumption at 24V	typ. 300µA (normal communication)
Current consumption module LED	typ. 6mA (per LED)
Contact rating relay output	max. 2A at 30VDC max. 0.5A at 125VAC
Ambient temperature	-30°C to +70°C (no icing)
Relative humidity	5 - 85% (no condensation)
Protection class	IP65
Dimensions L × W × H	210 × 170 × 66 (mm)
Weight	470g
Approval	0051-CPR-1585

Cross-references	Page	Art.No.	Name Type
	41	249275	Programming Unit FI750 FI750/PU

249290 Module 4xIn 2xOut 2xRel/700 FI700/M4IN2OUT2REL

The multiple monitor and control module FI700/M4IN2OUT2REL is integrated into a loop with Labor Strauss protocol and provides 4 independent line-monitored inputs for the connection of contact detectors, two line-monitored outputs as well as two independent dry relay outputs for the actuation of external devices. With that, various devices such as manual call points, supervising contacts, signalling devices or solenoid valves can be easily integrated into a fire detection system with loop technology. The load that is connected to the monitored outputs is powered by an external power supply.

The module occupies 8 consecutive addresses on the loop. The base address is set in the range 1 to 233 by means of the Programming Unit FI750/PU. Furthermore, in case of connection to a compatible fire detection control panel, the module can also be AUTO-addressed. The integrated dual-isolator disconnects the loop at short circuit on the loop line.

Features
- 2 two-coloured status LEDs for the common indication of the conditions of the inputs and outputs
- Inputs and monitored outputs are monitored for wire breakage and short circuit
- Plastic housing for surface mounting

Specifications

Operating voltage	supplied through loop voltage
Current consumption at 24V	typ. 300µA (normal communication)
Current consumption module LED	typ. 6mA (per LED)
Contact rating relay output	max. 2A at 30VDC max. 0.5A at 125VAC
Ambient temperature	-30°C to +70°C (no icing)
Relative humidity	5 - 85% (no condensation)
Protection class	IP65
Dimensions L × W × H	210 × 170 × 66 (mm)
Weight	470g
Approval	0051-CPR-1586

Cross-references	Page	Art.No.	Name	Type
	41	249275	Programming Unit FI750 FI750/PU	

249291 Module 6xIn 2xRel/700 FI700/M6IN2REL

The multiple monitor and control module FI700/M6IN2REL is integrated into a loop with Labor Strauss protocol and provides 6 independent line-monitored inputs for the connection of contact detectors as well as two independent dry relay outputs for the actuation of external devices. With that, various devices such as manual call points, supervising contacts, signalling devices or solenoid valves can be easily integrated into a fire detection system with loop technology.

The module occupies 8 consecutive addresses on the loop. The base address is set in the range 1 to 233 by means of the Programming Unit FI750/PU. Furthermore, in case of connection to a compatible fire detection control panel, the module can also be AUTO-addressed. The integrated dual-isolator disconnects the loop at short circuit on the loop line.

Features
- 2 two-coloured status LEDs for the common indication of the conditions of the inputs and outputs
- Inputs monitored for wire breakage and short circuit
- Plastic housing for surface mounting

Specifications

Operating voltage	supplied through loop voltage
Current consumption at 24V	typ. 300µA (normal communication)
Current consumption module LED	typ. 6mA (per LED)
Contact rating relay output	max. 2A at 30VDC max. 0.5A at 125VAC
Ambient temperature	-30°C to +70°C (no icing)
Relative humidity	5 - 85% (no condensation)
Protection class	IP65
Dimensions L × W × H	210 × 170 × 66 (mm)
Weight	470g
Approval	0051-CPR-1587

Cross-references	Page	Art.No.	Name	Type
	41	249275	Programming Unit FI750 FI750/PU	

251010 Remote Indicator/700 FI700/PA

The Remote Indicator FI700/PA is integrated into a loop with Labor Strauss protocol and allows the fire detection control panel to control the remote indication. As the activation can be freely parameterised in the control panel, the remote indicator can indicate the activation of any combination of detectors. With that, a common display can be implemented with simple means. The integrated dual-isolator disconnects the loop at short circuit on the loop line.

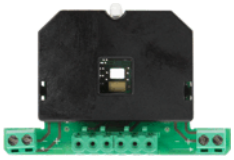
Features
- High-power LED
- Module address can be set in the range 1 to 240 by means of Programming Unit FI750/PU
- Optional AUTO-addressing when combined with a compatible fire detection control panel
- Plastic case with red cap
- Surface mounting or flush mounting on 55/60mm installation box

Specifications

Operating voltage	supply through the loop voltage
Current consumption at 24V	typ. 120µA (quiescent, normal communication)
	typ. 5mA (active)
Ambient temperature	-30°C to +70°C
Protection class	IP42
Dimensions W × H × D	80 × 80 × 27 (mm)
Colour	white
Weight	46g

Cross-references	Page	Art.No.	Name Type
	41	249275	Programming Unit FI750 FI750/PU

249307 Module FI750-Sounder-Strobe FI750/M/SST



The control module FI750/M/SST is used to connect a conventional signalling device CWS/SOUx or CWS/SOUx/STRC to the loop with Labor Strauss protocol. The module is inserted into the bottom of the housing of the signalling device and connected to the loop cable. The module is connected to the signalling device via a plug-and-socket connector.

By means of the module, the signalling device can be actuated with two different tones, depending on the parameter setup of the control panel and the system condition. The integrated dual-isolator disconnects the loop at short circuit on the loop line.

Features

- Two-coloured status LED for the indication of the activation of the signalling device output and the fault condition
- Module address can be set in the range 1 to 240 by means of the Programming Unit FI750/PU
- Optional AUTO-addressing in combination with a compatible fire detection control panel

Specifications

Operating voltage	supplied through loop voltage
Current consumption from loop	
signalling device off	typ. 30µA
with Sounder CWS/SOUx	max. 8mA (high sound level)
with Sounder-Strobe CWS/SOUx/STRC	
	max. 25mA (high sound level)
Ambient temperature	-10°C to +55°C (no icing)
Relative humidity	max 85% (no condensation)
Protection class	IP65 (installed in signalling device)
Dimensions L × W × H	82 × 53 × 25 (mm)
Weight	26g
Approvals (in combination with Sounder CWS/SOUR)	
	LPCB 928ah/01
	2831-CPR-F1428
Approvals (in combination with Sounder-Strobe CWS/SOUR/STRC)	
	LPCB 928z/01
	2831-CPR-F1429

Cross-references	Page	Art.No.	Name Type
	41	249275	Programming Unit FI750 FI750/PU
	212	355209	Sounder-Str/WM65/DC/re/cl/wh/100/W CWS/SOUR/STRC
	213	355211	Sounder-Str/WM65/DC/wh/cl/wh/100/W CWS/SOUW/STRC
	27	355208	Sounder/WM65/DC/red/100 CWS/SOUR
	211	355210	Sounder/WM65/DC/white/100 CWS/SOUW

355208 Sounder/WM65/DC/red/100 CWS/SOUR

The conventional multitone sounder CWS/SOUR consists of a round, red plastic housing and is suitable for outdoor and indoor mounting. In combination with the optional module FI750/M/SST, the sounder can be connected to a loop with Labor Strauss protocol. Alternatively, the sounder can be operated by installing the wireless module FI720/RF/M/SST in a wireless fire detection system FI720/RF or FI700/RF. One of the two modules can be installed into the bottom part of the housing of the sounder.

One of 32 different tone type combinations is selected via DIL switches. Depending on the parameter setup of the control panel and the system condition, this allows the sounder to be actuated with two different tones. In this way, multi-stage alarming with 2 different tones can be implemented. By means of two DIL switches, one of four sound levels can be selected.

Features

- 32 different tones (e.g., Slow Whoop tone, DIN 33404 tone, continuous tone 970Hz), 4 of which have been tested according to EN 54-3
- Alternative tone for two-stage alarming possible
- High sound level, 4 levels selectable with DIL switches
- Synchronisation of the sounder tones
- Wide operating voltage range
- Low power consumption, depending on tone type and operating voltage
- Optional theft protection by means of 2 setscrews
- Cable can be entered from behind or from the side

Specifications

Operating voltage	15 - 40VDC
Current consumption at 24V	max. 5mA (high sound level)
Sound level	max. 100dB(A) / 1m distance (high sound level)
Ambient temperature	-10°C to +55°C
Protection class	IP65
Dimensions Ø × D	130 × 90 (mm)
Colour	flame red, RAL 3000
Weight	270g
Approvals	LPCB 928w/07 2831-CPR-F1426
Approvals (in combination with module FI750/M/SST)	LPCB 928ah/01 2831-CPR-F1428
Approvals (in combination with module FI720/RF/M/SST)	LPCB pending 0051-CPR-0617

Cross-references	Page	Art.No.	Name Type
	210	249310	Module/RF/720-Sounder-Strobe FI720/RF/M/SST
	26	249307	Module FI750-Sounder-Strobe FI750/M/SST

355210 Sounder/WM65/DC/white/100 CWS/SOUW

The multitone sounder CWS/SOUW is identical with the sounder CWS/SOUR, except that it consists of a white plastic housing.

Specifications (for further specifications, see CWS/SOUR)

Colour	signal white, RAL 9003

355212 Sounder/WB/750RI-Slave/white FI750/WBRIS/SOUW

The sounder is integrated in a white plastic housing and is designed for indoor ceiling mounting. The integrated detector base accommodates an automatic detector Series FI750.

The sounder is actuated via the remote indicator output of the inserted detector. In case of connection to a Fire Detection Control Panel Series BC600, the sounder can also be activated by a programmable event. The tone and the sound level are set by means of a DIL switch.

Features
- 31 tones (e.g., Slow Whoop tone, DIN tone, alternating tone 800/1000Hz, continuous tone 970Hz)
- 4 different sound levels selectable
- Low power consumption

Specifications

Operating voltage	16 - 40VDC
Current consumption at 24V	max. 3.5mA (maximum sound level)
Sound level	93dB(A) / 1m distance (maximum sound level)
Ambient temperature	-10°C to +55°C
Protection class	IP21
Dimensions Ø × D	128 × 45 (mm)
Colour	white
Weight	200g
Approval	0051-CPR-1197

355215 Sounder/WB/750RI-Bus/white FI750/WBRIB/SOUW

The sounder is integrated in a white plastic housing and is designed for indoor ceiling mounting. The integrated detector base accommodates an automatic detector Series FI750.

The sounder is actuated via the remote indicator output of the detector by means of an intelligent bus protocol. In case of connection to a Fire Detection Control Panel Series BC600, the tone type and the sound level are set by the control panel. In addition, an individual event for the activation of the sounder is determined in the parameter setup. If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone.

Features
- 31 tones (e.g., Slow Whoop tone, DIN tone, alternating tone 800/1000Hz, continuous tone 970Hz) selectable
- 4 different sound levels selectable
- Intelligent actuation via remote indicator output of the detector by means of special protocol
- Low power consumption

Specifications

Operating voltage	16 - 40VDC
Current consumption at 24V	max. 3.5mA (maximum sound level)
Sound level	93dB(A) / 1m distance (maximum sound level)
Ambient temperature	-10°C to +55°C
Protection class	IP21
Dimensions Ø × D	128 × 45 (mm)
Colour	white
Weight	200g
Approval	0051-CPR-1197

355201 Sounder/WB/750RI/white FI750/WBRI/MT/SOUW

The Sounder FI750/WBRI/MT/SOUW is integrated in a white plastic housing and is designed for indoor ceiling mounting. The integrated detector base accommodates an automatic detector Series FI750. The sounder is actuated via the remote indicator output of the detector. The tone and the sound level are set by means of a DIL switch.

Features
- 32 tones (e.g., Slow Whoop tone, DIN tone, alternating tone 800/960Hz, continuous tone 970Hz, interrupted tone 970Hz)
- Low power consumption
- 3 different sound levels selectable

Specifications

Operating voltage	15 - 40VDC
Current consumption at 24V	max. 9mA (maximum sound level)
Sound level	94dB(A) / 1m distance (maximum sound level)
Ambient temperature	-20°C to +70°C
Protection class	IP21
Dimensions Ø × D	116 × 41 (mm)
Colour	white
Weight	140g
Approvals	LPCB 546a/04 2831-CPR-F0619

Cross-references	Page	Art.No.	Name Type
	150	359022	Mounting Plate for Sounder/WB/XP95 45681-311

355202 Sounder/WB/750I/white FI750/WB/MT/SOUW

The loop sounder FI750/WB/MT/SOUW is actuated and supplied via the loop with Labor Strauss protocol. With a Fire Detection Control Panel Series BC600, tone type and sound level of the sounder are controlled via the loop protocol. Depending on the parameter setup of the control panel and the system condition, the sounder can be activated with up to 32 different tones and selectable sound level. If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone.

With Fire Detection Control Panels Series BC216, 3 different tone types can be activated, the sound level is set with the Programming Unit FI750/PU.

The sounder is integrated in a white plastic housing and is designed for indoor ceiling mounting. The integrated detector base accommodates an automatic detector Series FI750. By means of the Programming Unit FI750/PU, the loop address is set in the range 1 to 240. Furthermore, in case of connection to a compatible fire detection control panel, the sounder can also be AUTO-addressed. The integrated dual-isolator disconnects the loop at short circuit on the loop line.

Features

- 32 different tones selectable (e.g., Slow Whoop tone 500-1200Hz, DIN tone 1200-500Hz, continuous tone 1kHz)
- Low power consumption
- 4 different sound levels selectable

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 70µA (sounder off) max. 5mA (sounder activated, high sound level)
Sound level	93dB(A) / 1m distance
Ambient temperature	-30°C to +70°C
Protection class	IP21
Dimensions Ø × D	116 × 50 (mm)
Colour	white
Weight	180g
Approvals	VdS 217050 LPCB 928w/05 2831-CPR-F2540

Cross-references	Page	Art.No.	Name Type
	41	359075	Lid for Sounder FI7x0/WB FI720/750/COVER/R
	41	359074	Lid for Sounder FI7x0/WB FI720/750/COVER/W
	150	359022	Mounting Plate for Sounder/WB/XP95 45681-311
	41	249275	Programming Unit FI750 FI750/PU

4

355209 Sounder-Str/WM65/DC/re/cl/wh/100/W CWS/SOUR/STRC

The conventional combined sounder-strobe CWS/SOUR/STRC consists of a round, red plastic housing and is suitable for outdoor and indoor mounting. The signalling device is used if in addition to the acoustic alarming, optical alarming according to EN 54-23 is required. In combination with the optional module FI750/M/SST, the sounder-strobe can be connected to a loop with Labor Strauss protocol. Alternatively, the sounder-strobe can be operated by installing the wireless module FI720/RF/M/SST in a wireless fire detection system FI720/RF or FI700/RF. One of the two modules can be installed into the bottom part of the housing of the sounder-strobe.

One of 32 different tone type combinations is selected via DIL switches. Depending on the parameter setup of the control panel and the system condition, this allows the sounder to be actuated with two different tones. In this way, multi-stage alarming with 2 different tones can be implemented. By means of two DIL switches, one of four sound levels can be selected.

Thanks to the use of light emitting diodes, the strobe with clear lens and white light has a low current consumption. The optimised design of the lens ensures very high illumination of the room. The strobe has been tested according to EN 54-23 Class W (wall). The strobe can operate alone, for which purpose the tone of the sounder has to be set to "silent".

Features

- 32 different tones (e.g., Slow Whoop tone, DIN 33404 tone, continuous tone 970Hz), 4 of which have been tested according to EN 54-3
- Alternative tone for two-stage alarming possible
- High sound level, 4 levels selectable with DIL switches
- Very high-performance LEDs
- Synchronisation of the sounder tones and flash pulses
- Wide operating voltage range
- Low power consumption, depending on tone type and operating voltage
- Optional theft protection by means of 2 setscrews
- Cable can be entered from behind or from the side

Specifications

Operating voltage	15 - 40VDC
Current consumption at 24V	max. 17mA (high sound level)
Sound level	max. 100dB(A) / 1m distance (high sound level)
Flash frequency	0.5Hz
EN 54-23 Category W-2.5-7 – wall mounting	
Mounting height	max. 2.5m
Room size	max. 7m × 7m
Ambient temperature	-10°C to +55°C
Protection class	IP65
Dimensions Ø × D	130 × 92 (mm)
Colour housing	flame red, RAL 3000
Colour lens / light colour	clear, white
Weight	290g
Approvals	LPCB 928y/01 2831-CPR-F1427
Approvals (in combination with module FI750/M/SST)	LPCB 928z/01 2831-CPR-F1429
Approvals (in combination with module FI720/RF/M/SST)	LPCB pending 0051-CPR-0618

Cross-references	Page	Art.No.	Name Type
	210	249310	Module/RF/720-Sounder-Strobe FI720/RF/M/SST
	26	249307	Module FI750-Sounder-Strobe FI750/M/SST

355211 Sounder-Str/WM65/DC/wh/cl/wh/100/W CWS/SOUW/STRC

The combined Sounder-Strobe CWS/SOUW/STRC is identical with the signalling device CWS/SOUR/STRC, except that it consists of a white plastic housing.

Specifications (for further specifications, see CWS/SOUR/STRC)

Colour housing	signal white, RAL 9003

355213 Sounder-Str/WB/750RI-Slave/wh/cl/wh/C FI750/WBRIS/SSTWCW

The sounder-strobe is integrated in a white plastic housing and is designed for indoor ceiling mounting. The integrated detector base accommodates an automatic detector Series FI750.

The signalling device is actuated via the remote indicator output of the detector. In case of connection to a Fire Detection Control Panel Series BC600, the sounder-strobe can also be activated by a programmable event. The tone, the sound level and the flash energy level are set by means of DIL switches.

The strobe is activated together with the sounder, but it is also possible to activate only the strobe. The strobe has been tested according to EN 54-23 Class C (ceiling) and O (open class).

Features

- 31 tones (e.g., Slow Whoop tone, DIN tone, alternating tone 800/1000Hz, continuous tone 970Hz) and "silent" mode (only the strobe is activated)
- 4 different sound levels selectable
- Strobe with 3 clear lenses and white very high-performance LEDs
- 2 different flash energy levels selectable
- Low power consumption

Specifications

Operating voltage	16 - 40VDC
Current consumption at 24V	max. 21mA (maximum sound level)
Sound level	93dB(A) / 1m distance (maximum sound level)
Flash frequency	0.5Hz
EN 54-23 Category C-3-14.2 – ceiling mounting (high flash energy)	
Mounting height	max. 3m
Room size	max. Ø 14.2m, equals max. 10m × 10m
EN 54-23 Category O-4.6-14.2 – ceiling mounting (high flash energy)	
Mounting height	max. 4.6m
EN 54-23 Category C-3-9.2 – ceiling mounting (low flash energy)	
Mounting height	max. 3m
Room size	max. Ø 9.2m, equals max. 6.5m × 6.5m
Ambient temperature	-10°C to +55°C
Protection class	IP21
Dimensions Ø × D	128 × 45 (mm, without lenses)
Colour housing / lens	white / clear
Light colour	white
Weight	220g
Approval	0051-CPR-1196

355214 Sounder-Str/WB/750RI-Slave/wh/cl/re/C FI750/WBRIS/SSTWCR

The Sounder-Strobe FI750/WBRIS/SSTWCR is identical with the signalling device FI750/WBRIS/SSTWCW, but the strobe contains red high-performance LEDs.

Specifications (for further specifications, see FI750/WBRIS/SSTWCW)

EN 54-23 Category C-3-10.0 – ceiling mounting (high flash energy)	
Mounting height	max. 3m
Room size	max. Ø 10m, equals max. 7.1m × 7.1m
EN 54-23 Category O-1.7-6.0 – ceiling mounting (low flash energy)	
Light colour	red

355216 Sounder-Str/WB/750RI-Bus/wh/cl/wh/C FI750/WBRIB/SSTWCW

The sounder-strobe is integrated in a white plastic housing and is designed for indoor ceiling mounting. The integrated detector base accommodates an automatic detector Series FI750.

The sounder-strobe is actuated via the remote indicator output of the detector by means of an intelligent bus protocol. In case of connection to a Fire Detection Control Panel Series BC600, the tone type and the sound level are set by the control panel. In addition, an individual event for the activation of the signalling device is determined in the parameter setup. If several sounder-strobes are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone and light pulse.

The strobe is activated together with the sounder, but it is also possible to activate only the strobe. The strobe has been tested according to EN 54-23 Class C (ceiling) and O (open class).

Features

- 31 tones (e.g., Slow Whoop tone, DIN tone, alternating tone 800/1000Hz, continuous tone 970Hz) and "silent" mode (only the strobe is activated)
- 4 different sound levels selectable
- Intelligent actuation via remote indicator output of the detector by means of special protocol
- Strobe with 3 clear lenses and white very high-performance LEDs
- 2 different flash energy levels selectable
- Low power consumption

Specifications

Operating voltage	16 - 40VDC
Current consumption at 24V	max. 21mA (maximum sound level)
Sound level	93dB(A) / 1m distance (maximum sound level)
Flash frequency	0.5Hz
EN 54-23 Category C-3-14.2 – ceiling mounting (high flash energy)	
Mounting height	max. 3m
Room size	max. Ø 14.2m, equals max. 10m × 10m
EN 54-23 Category O-4.6-14.2 – ceiling mounting (high flash energy)	
Mounting height	max. 4.6m
EN 54-23 Category C-3-9.2 – ceiling mounting (low flash energy)	
Mounting height	max. 3m
Room size	max. Ø 9.2m, equals max. 6.5m × 6.5m
Ambient temperature	-10°C to +55°C
Protection class	IP21
Dimensions Ø × D	128 × 45 (mm, without lenses)
Colour housing / lens	white / clear
Light colour	white
Weight	220g
Approval	0051-CPR-1196

355217 Sounder-Str/WB/750RI-Bus/wh/cl/re/C FI750/WBRIB/SSTWCR

The Sounder-Strobe FI750/WBRIB/SSTWCR is identical with the signalling device FI750/WBRIB/SSTWCW, but the strobe contains red high-performance LEDs.

Specifications (for further specifications, see FI750/WBRIB/SSTWCW)

EN 54-23 Category C-3-10.0 – ceiling mounting (high flash energy)	
Mounting height	max. 3m
Room size	max. Ø 10m, equals max. 7.1m × 7.1m
EN 54-23 Category O-1.7-6.0 – ceiling mounting (low flash energy)	
Light colour	red

355203 Sounder-Str/WB/750RI/wh/cl/re/N FI750/WBRI/MT/SSTWC

The sounder-strobe is integrated in a white plastic housing and is designed for indoor ceiling mounting. The integrated detector base accommodates an automatic detector Series FI750. The sounder-strobe is actuated via the remote indicator output of the detector. The tone and the sound level are set by means of DIL switches. The strobe is activated together with the sounder.

Features
- 32 tones (e.g., Slow Whoop tone, DIN tone, alternating tone 800/960Hz, continuous tone 970Hz, interrupted tone 970Hz)
- Low power consumption
- 3 different sound levels selectable
- Strobe with clear cap and red LEDs

Specifications

Operating voltage	15 - 40VDC
Current consumption at 24V	max. 12mA (maximum sound level)
Sound level	96dB(A) / 1m distance (maximum sound level)
Flash frequency	1Hz
Ambient temperature	-20°C to +70°C
Protection class	IP21
Dimensions Ø × D	142 × 56 (mm)
Colour	white
Weight	245g

355204 Sounder-Strobe/WB/750I/wh/cl/re/N FI750/WB/MT/SOUW/STRC

The loop sounder-strobe is actuated and powered via the loop with Labor Strauss protocol. With a Fire Detection Control Panel Series BC600, tone type and sound level of the sounder are controlled via the loop protocol. Depending on the parameter setup of the control panel and the system condition, the sounder can be activated with up to 32 different tones and selectable sound level. If several sounder-strobes are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone and light pulse. The strobe is always activated together with the sounder.

With Fire Detection Control Panels Series BC216, 3 different tone types can be activated, the sound level is set with the Programming Unit FI750/PU.

The sounder-strobe is integrated in a white plastic housing and is designed for indoor ceiling mounting. The integrated detector base accommodates an automatic detector Series FI750. By means of the Programming Unit FI750/PU, the loop address is set in the range 1 to 240. Furthermore, in case of connection to a compatible fire detection control panel, the sounder-strobe can also be AUTO-addressed. The integrated dual-isolator disconnects the loop at short circuit on the loop line.

Features
- 32 different tones selectable (e.g., Slow Whoop tone 500-1200Hz, DIN tone 1200-500Hz, continuous tone 1kHz)
- Low power consumption
- 4 different sound levels selectable
- Strobe with clear cap and red LEDs

Specifications

Operating voltage	supplied through loop voltage
Current consumption from loop	typ. 70µA (sounder/strobe off)
	max. 8mA (DIN tone/strobe active, maximum sound level)
Sound level	93dB(A) / 1m distance (maximum sound level)
Flash frequency	1Hz
Ambient temperature	-30°C to +70°C
Protection class	IP21
Dimensions Ø × D	142 × 64 (mm)
Colour	white
Weight	275g
Approvals	VdS G217049
	LPCB 928w/06
	2831-CPR-F2541

Cross-references	Page	Art.No.	Name Type
	41	359075	Lid for Sounder FI7x0/WB FI720/750/COVER/R
	41	359074	Lid for Sounder FI7x0/WB FI720/750/COVER/W
	41	249275	Programming Unit FI750 FI750/PU

5 Accessories for Series FC650/FC600/FI750/FI700

5

246070 Detector Base/600 FC600/BR

The Detector Base FC600/BR is used for mounting of automatic fire detectors Series FC600 and FC650 in conventional technology. The base is suitable for indoor surface mounting.

Features
- Multi-wire terminal with secure screw fitting
- Terminal for external remote indicator
- Individual detector addressing by installing an optional Address Module NG58-1
- Mechanical theft protection of detector

Specifications

Ambient temperature	-30°C to +70°C
Relative humidity	5 - 95% (no condensation)
Dimensions Ø × H	110 × 16 (mm)
Colour	white
Weight	32g

Cross-references	Page	Art.No.	Name Type
	95	249020	Address Module Conventional NG58-1
	38	249276	Silicone Gasket FI700/FC600 FI700/FC600/SA
	37	246087	Surface Mounting Kit FI750/FC650/SM

246071 Detector Base/600/Diode FC600/BRD

The Detector Base FC600/BRD is used for mounting of automatic fire detectors Series FC600 and FC650 in conventional technology. If no detector is mounted in the base, the connection to the following detectors is maintained by the integrated Schottky diode. The base is suitable for indoor surface mounting.

Note: A capacitor must be used as line termination. The Detector Base FC600/BRD may only be connected to Fire Detection Control Panels Series BC600 and BC06.

Features
- Multi-wire terminal with secure screw fitting
- Terminal for external remote indicator
- Mechanical theft protection of detector

Specifications

Ambient temperature	-30°C to +70°C
Relative humidity	5 - 95% (no condensation)
Dimensions Ø × H	110 × 16 (mm)
Colour	white
Weight	36g

Cross-references	Page	Art.No.	Name Type
	38	249276	Silicone Gasket FI700/FC600 FI700/FC600/SA
	37	246087	Surface Mounting Kit FI750/FC650/SM

246072 Detector Base/600/Relay FC600/BREL

The Detector Base FC600/BREL is used for mounting of automatic fire detectors Series FC600 and FC650 in conventional technology. The integrated relay output is active as long as the detector remains in alarm condition. The base is suitable for indoor surface mounting.

Features
- Multi-wire terminal with secure screw fitting
- Relay output with dry change-over contact
- Terminal for external remote indicator
- Mechanical theft protection of detector

Specifications

Operating voltage	10 to 28VDC
Current consumption	max. 3µA (quiescent), 17mA (active)
Contact rating	1A at 30VDC
Ambient temperature	-30°C to +70°C
Relative humidity	5 - 95% (no condensation)
Dimensions Ø × H	110 × 27 (mm)
Colour	white
Weight	58g

Cross-references	Page	Art.No.	Name Type
	38	249273	Conduit Adapter for Detector Base FI700/FC600/CA

246086 Detector Base/750 FI750/B

The Detector Base FI750/B is designed to accommodate intelligent fire detectors Series FI750 for use on loops with Labor Strauss protocol.

Its large cable entry opening allows especially easy and time-saving installation. An integrated contact spring ensures the continuous loop connection when the detector is removed. The base is suitable for indoor surface mounting.

Features
- Multi-wire terminal with secure screw fitting
- Terminal for external remote indicator
- Mechanical theft protection of detector
- Integrated plastic plate for labelling the detector
- 2 snap-in noses for optional Wago terminals for additional connections

Specifications

Ambient temperature	-30°C to +70°C
Relative humidity	5 - 95% (no condensation)
Dimensions Ø × H	110 × 16 (mm)
Colour	white
Weight	50g

Cross-references	Page	Art.No.	Name Type
	38	249293	Silicone Gasket FI750 FI750/SA
	37	246087	Surface Mounting Kit FI750/FC650/SM

246087 NEW Surface Mounting Kit FI750/FC650/SM

The white supplement base is needed in addition to the detector bases FC600/BR, FC600/BRD or FI750/B when they are surface mounted and cable conduits or thick cables are used. The supplement base is prepared for the use of M20 cable glands.

Specifications

Dimensions Ø × H	117 × 36 (mm)
Colour	white
Weight	65g

246088 NEW Wet Base Shroud FI750/FC650/WB

The white supplement base is needed for mounting the detector bases FC600/BR, FC600/BRD or FI750/B in damp locations. The wet base shroud is prepared for the use of M20 cable glands.

Note: the theft protection in the detector base must not be activated because the opening for unlocking the detector is not accessible.

Specifications

Dimensions Ø × H	117 × 65 (mm)
Colour	white
Weight	92g

5

249646

Wet Base Set/FI700/FC600 FI700/FC600/FZ

The wet base set is needed in addition to the supplement bases FI700/FC600/SM and FI750/FC650/SM, if an automatic detector Series FC600, FC650, FI700 or FI750 is mounted in a moist environment. The set includes two PG screw connections.

Cross-references	Page	Art.No.	Name Type
	37	246087	Surface Mounting Kit FI750/FC650/SM

249273

Conduit Adapter for Detector Base FI700/FC600/CA

The conduit adapter facilitates the surface cabling of a Detector Base Series FC600 or FI700 (deep version) when using cable conduits with an outer diameter of 20mm. Prior to installation, the conduit adapter is attached to the detector base.

Cross-references	Page	Art.No.	Name Type
	36	246072	Detector Base/600/Relay FC600/BREL

249276

Silicone Gasket FI700/FC600 FI700/FC600/SA

The silicone gasket protects a detector base Series FI700 or FC600 against ingress of moisture from the ceiling. In addition, the seal levels out the unevenness of the ceiling. The silicone gasket is inserted between the detector base and the ceiling.

Cross-references	Page	Art.No.	Name Type
	36	246071	Detector Base/600/Diode FC600/BRD
	36	246070	Detector Base/600 FC600/BR

249293

Silicone Gasket FI750 FI750/SA

The silicone gasket protects a detector base Series FI750 against ingress of moisture from the ceiling. In addition, the seal levels out the unevenness of the ceiling. The silicone gasket is inserted between the detector base and the ceiling.

Cross-references	Page	Art.No.	Name Type
	37	246086	Detector Base/750 FI750/B

249274

Module Box 41mm/700/Knock-out FI700/MBD/KO

The module box is designed for surface mounting of a module Series FI700 in case of surface cabling by means of cable conduits or thick cables. The module box is delivered with 2 grommets. Alternatively, the box can be used with cable glands M20.

Specifications

Dimensions L × W × H	87 × 87 × 41 (mm)
Weight	78g

249270 Module Box 30mm/700 FI700/MB

The module box is designed for surface mounting of a module Series FI700.

Specifications

Dimensions L × W × H	87 × 87 × 30 (mm)
Weight	72g

249271 Module Box 52mm/700 FI700/MBD

The module box is designed for surface mounting of a module Series FI700 in case of surface cabling by means of cable conduits or thick cables. At the bottom of the box there is an auxiliary terminal for easier wiring.

Specifications

Dimensions L × W × H	87 × 87 × 52 (mm)
Weight	130g

249279 Detector Base/7500/Heater MH750-1

The mounting base FI750/B with included heating is used for the application of automatic smoke detectors Series FI750 in extremely moist areas (e.g., loading ramps, cable ducts). A detector base with area heater and an installation box with connection terminals and a remote indicator are mounted together on a mounting plate.

Features
- Connection terminals for all incoming and outgoing cables
- Detector base pre-wired on the terminals
- Additional remote indicator on the installation box

Specifications

Operating voltage	max. 48VAC
Power consumption	12W
Dimensions L × W × H	310 × 175 × 120 (mm)
Weight	1.3kg

Cross-references	Page	Art.No.	Name Type
	10	241086	Optical Smoke Detector/750 FI750/O
	154	249014	PSU For Detector Heater MH-TR1

244080 Duct Detector Housing/750 FI750/DDH-2

The Duct Detector FI750/DDH-2 monitors ventilation ducts or air conditioning channels. A small amount of air is conducted into the detector housing via the combined air inlet and air escape pipe, directed to a smoke detector, and is released again into the ventilation duct. An Optical Smoke Detector Series FI750 can be installed in the duct detector housing.

Note: if the installed base FI750/B is replaced by a Detector Base FC600/BR, the duct detector can also be used with a detector Series FC650.

For the adaptation to the ventilation duct, 3 air inlet pipes with lengths of 0.6m, 1.5m and 2.8m are available.

Features
- Transparent cover for optical recognition of detector activation
- Easy installation thanks to combined air inlet and air escape pipe

5

Specifications

Air velocity	0.5m/s - 20m/s
Protection class	IP54
Dimensions L × W × H	279 × 165 × 83 (mm, without pipe connecting piece)
Colour of housing	grey
Weight	660g (without detector and sensor pipe)

Cross-references	Page	Art.No.	Name Type
	40	244084	Duct Detector Bracket FI750/DDH-2/BRA
	40	244081	Duct Detector Pipe/750/-0.6m FI750/DDH-2/TV-0,6
	40	244082	Duct Detector Pipe/750/-1.5m FI750/DDH-2/TV-1,5
	40	244083	Duct Detector Pipe/750/-2.8m FI750/DDH-2/TV-2,8
	41	244055	Gasket for Duct Detector Pipe FI700/DDH204

244081 Duct Detector Pipe/750/-0.6m FI750/DDH-2/TV-0,6

The combined air inlet and air escape pipe is designed for use with the Duct Detector Housing FI750/DDH-2 and is provided with standardised air intake holes. The pipe is suitable for ventilation ducts with a depth of up to 0.6m and can be cut to the desired length.

Specifications

Material	Aluminium
Dimensions L × W × H	600 × 23 × 30 (mm)
Weight	340g

244082 Duct Detector Pipe/750/-1.5m FI750/DDH-2/TV-1,5

The combined air inlet and air escape pipe is designed for use with the Duct Detector Housing FI750/DDH-2 and is provided with standardised air intake holes. The pipe is suitable for ventilation ducts with a depth of between 0.6m and 1.4m and can be cut to the desired length.

Specifications

Material	Aluminium
Dimensions L × W × H	1500 × 23 × 30 (mm)
Weight	840g

244083 Duct Detector Pipe/750/-2.8m FI750/DDH-2/TV-2,8

The combined air inlet and air escape pipe is designed for use with the Duct Detector Housing FI750/DDH-2 and is provided with standardised air intake holes. The pipe is suitable for ventilation ducts with a depth of between 1.4m and 2.7m and can be cut to the desired length.

Specifications

Material	Aluminium
Dimensions L × W × H	2800 × 23 × 30 (mm)
Weight	1.6kg

244084 Duct Detector Bracket FI750/DDH-2/BRA

The duct detector bracket allows the easy mounting of a Duct Detector Housing FI750/DDH-2 under special conditions of use, if mounting the housing directly on the ventilation duct is not possible or is more difficult. This applies, for example, to ventilation ducts

- with circular cross section,
- with small diameter (100mm or more) or
- with a jacket made of insulating material.

By means of three fold-out sheet metal strips, which can be bent into the required shape according to the application, the bracket with the detector is attached to the ventilation duct. The delivery scope includes a pipe sleeve for sealing the sensor pipe that is located outside of the ventilation duct as well as a gasket FI700/DDH204. If the air inlet and air escape pipe is so long that it protrudes on the opposite side of the ventilation duct, a second gasket is needed and must be ordered separately.

Specifications

Dimensions L × W	213 × 140 (mm, folded up)
Mounting distance of the detector	max. 140mm
Weight	390g (with gasket and pipe sleeve)

Cross-references	Page	Art.No.	Name Type
	41	244055	Gasket for Duct Detector Pipe FI700/DDH204

244055 Gasket for Duct Detector Pipe FI700/DDH204

The gasket for the air inlet and air escape pipe of the Duct Detector FI750/DDH-2 is needed

- if the duct detector housing is installed with the Duct Detector Bracket FI750/DDH-2/BRA, or
- if the air inlet and air escape pipe is so long that it protrudes on the opposite side of the ventilation duct.

Note: the Duct Detector Bracket FI750/DDH-2/BRA is delivered with one gasket.

Specifications

Drilling diameter	51mm

Cross-references	Page	Art.No.	Name Type
	40	244084	Duct Detector Bracket FI750/DDH-2/BRA

359075 Lid for Sounder FI7x0/WB FI720/750/COVER/R

The red cover plate is used to cover and protect a detector base sounder Series FI750 or a wireless detector base sounder Series FI720/RF if no detector is inserted.

Specifications

Dimensions Ø × H	106 × 10 (mm)
Colour	red
Weight	20g

359074 Lid for Sounder FI7x0/WB FI720/750/COVER/W

The white cover plate is used to cover and protect a detector base sounder Series FI750 or a wireless detector base sounder Series FI720/RF if no detector is inserted. However, the cover can also be used to protect a detector base Series FI750 if the detector has been permanently removed.

Specifications

Dimensions Ø × H	106 × 10 (mm)
Colour	white
Weight	20g

249275 Programming Unit FI750 FI750/PU

By means of the Programming Unit FI750/PU, the physical loop address of detectors Series FI750 and modules Series FI700 is set. Furthermore, in connection with conventional detectors Series FC650, the thermal class of a Thermal Detector FC650/T or the function of the status LED can be set. In addition, significant parameters of a detector Series FI750 or module Series FI700 or detector Series FC650, such as the device type, the default analogue value, the production date or the level of contamination of an optical smoke detector, can be read out and indicated on the display of the unit.

The programming unit has an integrated detector base for the accommodation of an automatic detector as well as the cables for the connection of a manual call point, module or base sounder. The desired loop address is selected by means of two arrow keys and programmed into the inserted detector or into the connected module by pressing the confirmation button.

Specifications

Power supply	9V battery
Battery lifespan	approx. 4 years (unit switched off)
	approx. 30 hours (unit switched on permanently)
Dimensions L × W × H	210 × 115 × 68 (mm)
Weight	310g (incl. battery)

249272

Programming Unit FI700 FI700/PU

By means of the Programming Unit FI700/PU, the physical loop address of detectors and modules Series FI700 is set. In connection with conventional detectors Series FC650, the thermal class of a Thermal Detector FC650/T or the function of the status LED can be set. In addition, significant parameters of a detector or module Series FI700 or a detector Series FC650, such as the device type, the default analogue value, the production date or the level of contamination of an optical smoke detector, can be read out and indicated on the display of the unit.

The programming unit has an integrated detector base for the accommodation of an automatic detector as well as the cables for the connection of a manual call point, module or base sounder. The desired loop address is selected by means of two arrow keys and programmed into the inserted detector or into the connected module by pressing the confirmation button.

Specifications

Power supply	9V battery
Battery lifespan	approx. 4 years (unit switched off)
	approx. 30 hours (unit switched on permanently)
Dimensions L × W × H	210 × 115 × 68 (mm)
Weight	310g (incl. battery)

6 Conventional Detectors Series 300/ECO1000

241040 Optical Smoke Detector/300 2351E

The Optical Smoke Detector 2351E operates with an optical sensing chamber based on the principle of scattered light. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting.

For quick localisation in the event of an alarm, each detector can be assigned an address either by adding an Address Module NG58-1 to the mounting base or by programming the detector with an optional Programming and Test Unit S300RPTU. If the detector is addressed using an NG58-1, the detector address as well as the assigned text is displayed on a compatible fire detection control panel. If the detector address has been set by means of an S300RPTU, the detector number is displayed on an additional Zonal Display Unit S300ZDU, one of which must be integrated in every detector line.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms. If the contamination of the sensing system is too heavy for further compensation or if the sensing system is defective, the status LED on the detector will flash yellow.

The degree of contamination can be scanned by the maintenance engineer via the Programming and Test Unit S300RPTU. Furthermore, the S300RPTU is used to adjust the response sensitivity to the local requirements.

Features
- Individual detector addressing via Address Module NG58-1 or programming of the detector
- Response sensitivity can be set to 3 levels (low-medium-high)
- Functionality check by means of test activation with Programming and Test Unit S300RPTU or Remote Test Unit ECO1000RTU
- Detector status, degree of contamination, detector address, response sensitivity as well as date of latest maintenance can be scanned and edited via Programming and Test Unit S300RPTU
- Output for external remote indicator
- Mechanical theft protection
- Insect screen

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 75µA (quiescent)
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 95% (no condensation)
Protection class	IP40 (IP43 with wet base WB-1AP)
Dimensions Ø × H	102 × 32.5 (mm)
Colour	cream
Weight	75g
Approvals	VdS G202012 LPCB 199m/03 2831-CPR-F1955

Cross-references	Page	Art.No.	Name Type
	95	249020	Address Module Conventional NG58-1
	88	246008	Detector Base/400/300/100 B401RM1000
	88	246019	Detector Base 400/300/100 B401DGR1000
	91	246117	Programming and Test Unit/300 S300PTU
	91	246150	Remote Test Unit/300/1000 ECO1000RTU
	93	246160	Wet Base Shroud/200AP WB-1AP
	91	246113	Zonal Display Unit/300 S300ZDU

241041 Optical-Thermal Detector/300 2351TEM

The Optical-Thermal Detector 2351TEM operates both with an optical sensing chamber based on the principle of scattered light as well as with a rate-of-rise temperature sensor according to EN 54-5, Class A1R. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting up to a maximum room height of 7.5m. The alarm evaluation is based on the analysis of both detection units; if only one characteristic of fire occurs, false alarms can be mostly avoided.

For quick localisation in the event of an alarm, each detector can be assigned an address either by adding an Address Module NG58-1 to the mounting base or by programming the detector with an optional Programming and Test Unit S300RPTU. If the detector is addressed using an NG58-1, the detector address as well as the assigned text is displayed on a compatible fire detection control panel. If the detector address has been set by means of an S300RPTU, the detector number is displayed on an additional Zonal Display Unit S300ZDU, one of which must be integrated in every detector line.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting another effective measure for preventing false alarms. If the contamination of the sensing system is too heavy for further compensation or if the sensing system is defective, the status LED on the detector will flash yellow.

The degree of contamination can be scanned by the maintenance engineer via the Programming and Test Unit S300RPTU. Furthermore, the S300RPTU is used to adjust the response sensitivity to the local requirements.

Features

- Individual detector addressing via Address Module NG58-1 or Programming and Test Unit S300RPTU
- Response sensitivity can be set to 3 levels (low-medium-high)
- Functionality check by means of test activation with Programming and Test Unit S300RPTU or Remote Test Unit ECO1000RTU
- Detector status, degree of contamination, detector address, response sensitivity as well as date of latest maintenance can be scanned and edited via Programming and Test Unit S300RPTU
- Output for external remote indicator
- Mechanical theft protection
- Insect screen

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 85µA (quiescent)
Alarm temperature	58°C (maximum-heat component)
Application temperature	max. +50°C
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 95% (no condensation)
Protection class	IP20 (IP23 with wet base WB-1AP)
Dimensions Ø × H	102 × 43 (mm)
Colour	cream
Weight	75g
Approvals	VdS G202018 LPCB 199p/03 2831-CPR-F1968

Cross-references	Page	Art.No.	Name Type
	95	249020	Address Module Conventional NG58-1
	88	246008	Detector Base/400/300/100 B401RM1000
	88	246019	Detector Base 400/300/100 B401DGR1000
	91	246117	Programming and Test Unit/300 S300PTU
	91	246150	Remote Test Unit/300/1000 ECO1000RTU
	93	246160	Wet Base Shroud/200AP WB-1AP
	91	246113	Zonal Display Unit/300 S300ZDU

242040 Thermal RoR Detector/300/A1R 5351E

The Thermal RoR Detector 5351E reacts to temperature changes within defined periods of time (rate-of-rise principle) as well as to a maximum temperature of 58°C according to EN 54-5, Class A1R. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting up to a maximum room height of 7.5m.

For quick localisation in the event of an alarm, each detector can be assigned an address either by adding an Address Module NG58-1 to the mounting base or by programming the detector with an optional Programming and Test Unit S300RPTU. If the detector is addressed using an NG58-1, the detector address as well as the assigned text is displayed on a compatible fire detection control panel. If the detector address has been set by means of an S300RPTU, the detector number is displayed on an additional Zonal Display Unit S300ZDU, one of which must be integrated in every detector line.

Features

- Individual detector addressing via Address Module NG58-1 or Programming and Test Unit S300RPTU
- Functionality check by means of test activation with Programming and Test Unit S300RPTU or Remote Test Unit ECO1000RTU
- Detector status, detector address as well as date of latest maintenance can be scanned via Programming and Test Unit S300RPTU
- Output for external remote indicator
- Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 80µA (quiescent)
Alarm temperature	58°C (maximum-heat component)
Application temperature	max. +50°C
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 95% (no condensation)
Protection class	IP20 (IP23 with wet base WB-1AP)
Dimensions Ø × H	102 × 43 (mm)
Colour	cream
Weight	75g
Approvals	VdS G202014 LPCB 199n/07 2831-CPR-F1959

Cross-references	Page	Art.No.	Name Type
	95	249020	Address Module Conventional NG58-1
	88	246008	Detector Base/400/300/100 B401RM1000
	88	246019	Detector Base 400/300/100 B401DGR1000
	91	246117	Programming and Test Unit/300 S300PTU
	91	246150	Remote Test Unit/300/1000 ECO1000RTU
	93	246160	Wet Base Shroud/200AP WB-1AP
	91	246113	Zonal Display Unit/300 S300ZDU

242042 Thermal Max Detector/300/A2S 5351TE

The Thermal Max Detector 5351TE reacts to a maximum temperature of 58°C according to EN 54-5, Class A2S. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting up to a maximum room height of 6m.

Each detector can be assigned an address for rapid localisation in case of an alarm either by installation of an Address Module NG58-1 in the detector base, or by programming of the detector with the Programming and Test Unit S300RPTU. In case the detector is addressed by the NG58-1, the detector address and an assigned detector text are displayed on a compatible fire detection control panel. If the detector address has been set by means of an S300RPTU, the detector number is displayed on an additional Zonal Display Unit S300ZDU, one of which must be integrated in every detector line.

Features

- Individual detector identification with the Address Module NG58-1 or the Programming and Test Unit S300RPTU
- Function testing possible by test activation via the Programming and Test Unit S300RPTU or the Remote Test Unit ECO1000RTU
- Detector condition, detector address and date of the last maintenance can be read out with the Programming and Test Unit S300RPTU
- Output for external remote indicator
- Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 85µA (quiescent)
Alarm temperature	58°C
Application temperature	max. +50°C
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 95% (no condensation)
Protection class	IP20 (IP23 with wet base WB-1AP)
Dimensions Ø × H	102 × 43 (mm)
Colour	cream
Weight	75g
Approvals	LPCB 199n/14 2831-CPR-F1964

Cross-references	Page	Art.No.	Name Type
	95	249020	Address Module Conventional NG58-1
	88	246008	Detector Base/400/300/100 B401RM1000
	88	246019	Detector Base 400/300/100 B401DGR1000
	91	246117	Programming and Test Unit/300 S300PTU
	91	246150	Remote Test Unit/300/1000 ECO1000RTU
	93	246160	Wet Base Shroud/200AP WB-1AP
	91	246113	Zonal Display Unit/300 S300ZDU

242041 Thermal Max Detector/300/BS 4351E

The Thermal Max Detector 4351E reacts to a maximum temperature of 78°C according to EN 54-5, Class BS. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting up to a maximum room height of 6m.

For quick localisation in the event of an alarm, each detector can be assigned an address either by adding an Address Module NG58-1 to the mounting base or by programming the detector with an optional Programming and Test Unit S300RPTU. If the detector is addressed using an NG58-1, the detector address as well as the assigned text is displayed on a compatible fire detection control panel. If the detector address has been set by means of an S300RPTU, the detector number is displayed on an additional Zonal Display Unit S300ZDU, one of which must be integrated in every detector line.

Features
- Individual detector addressing via Address Module NG58-1 or Programming and Test Unit S300RPTU
- Functionality check by means of test activation with Programming and Test Unit S300RPTU or Remote Test Unit ECO1000RTU
- Detector status, detector address as well as date of latest maintenance can be read out via Programming and Test Unit S300RPTU
- Output for external remote indicator
- Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 85µA (quiescent)
Alarm temperature	78°C
Application temperature	max. +65°C
Ambient temperature	-30°C to +70°C (continuous operation)
Relative humidity	5 to 95% (no condensation)
Protection class	IP20 (IP23 with wet base WB-1AP)
Dimensions Ø × H	102 × 43 (mm)
Colour	cream
Weight	75g
Approval	VdS G202016 LPCB 199n/08 2831-CPR-F1960

Cross-references	Page	Art.No.	Name Type
	95	249020	Address Module Conventional NG58-1
	88	246008	Detector Base/400/300/100 B401RM1000
	88	246019	Detector Base 400/300/100 B401DGR1000
	91	246117	Programming and Test Unit/300 S300PTU
	91	246150	Remote Test Unit/300/1000 ECO1000RTU
	93	246160	Wet Base Shroud/200AP WB-1AP
	91	246113	Zonal Display Unit/300 S300ZDU

241045 Optical Smoke Detector/1000 ECO1003

The Optical Smoke Detector ECO1003 operates with an optical sensing chamber based on the principle of scattered light. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting.

For quick localisation in the event of an alarm, each detector can be assigned an address by adding an Address Module NG58-1 to the mounting base. The address of the detector in alarm condition as well as the assigned text is displayed on a compatible fire detection control panel.

Features
- Output for external remote indicator
- Insect screen
- Functionality check by means of test activation with Remote Test Unit ECO1000RTU

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 65µA (quiescent)
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 95% (no condensation)
Protection class	IP40
Dimensions Ø × H	102 × 32.5 (mm)
Colour	white
Weight	75g
Approvals	VdS G201060 LPCB 199m/01 2831-CPR-F1876

Cross-references	Page	Art.No.	Name Type
	95	249020	Address Module Conventional NG58-1
	88	246140	Detector Base/1000 ECO1000BR1000
	91	246150	Remote Test Unit/300/1000 ECO1000RTU

241046 Optical-Thermal Detector/1000 ECO1002

The Optical-Thermal Detector ECO1002 operates both with an optical sensing chamber based on the principle of scattered light as well as with a rate-of-rise temperature sensor according to EN 54-5, Class A1R. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting up to a maximum room height of 7.5m. The alarm evaluation is based on the analysis of both detection units; if only one characteristic of fire occurs, false alarms can be mostly avoided.

For quick localisation in the event of an alarm, each detector can be assigned an address by adding an Address Module NG58-1 to the mounting base. The address of the detector in alarm condition as well as the assigned text is displayed on a compatible fire detection control panel.

Features

- Output for external remote indicator
- Insect screen
- Functionality check by means of test activation with Remote Test Unit ECO1000RTU

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 80µA (quiescent)
Alarm temperature	58°C (maximum-heat component)
Application temperature	max. +50°C
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 95% (no condensation)
Protection class	IP20
Dimensions Ø × H	102 × 40.5 (mm)
Colour	white
Weight	75g
Approvals	VdS G201067 LPCB 199p/01 2831-CPR-F1875

Cross-references	Page	Art.No.	Name Type
	95	249020	Address Module Conventional NG58-1
	88	246140	Detector Base/1000 ECO1000BR1000
	91	246150	Remote Test Unit/300/1000 ECO1000RTU

242047 Thermal Max Detector/1000/BS ECO1004T

The Thermal Max Detector ECO1004T reacts to a maximum temperature of 78°C according to EN 54-5, Class BS. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting up to a maximum room height of 6m.

For quick localisation in the event of an alarm, each detector can be assigned an address by adding an Address Module NG58-1 to the mounting base. The address of the detector in alarm condition as well as the assigned text is displayed on a compatible fire detection control panel.

Features
- Output for external remote indicator
- Functionality check by means of test activation with Remote Test Unit ECO1000RTU

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 75µA (quiescent)
Alarm temperature	typ. 78°C
Application temperature	max. +65°C
Ambient temperature	-30°C to +70°C (continuous operation)
Relative humidity	5 to 95% (no condensation)
Protection class	IP20
Dimensions Ø × H	102 × 40.5 (mm)
Colour	white
Weight	70g
Approvals	VdS G204042 LPCB 199n/09 2831-CPR-F1877

Cross-references	Page	Art.No.	Name Type
	95	249020	Address Module Conventional NG58-1
	88	246140	Detector Base/1000 ECO1000BR1000
	91	246150	Remote Test Unit/300/1000 ECO1000RTU

242045 Thermal RoR Detector/1000/A1R ECO1005

The Thermal RoR Detector ECO1005 reacts to temperature changes within defined periods of time (rate-of-rise principle) as well as to a maximum temperature of 58°C according to EN 54-5, Class A1R. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting up to a maximum room height of 7.5m.

For quick localisation in the event of an alarm, each detector can be assigned an address by adding an Address Module NG58-1 to the mounting base. The address of the detector in alarm condition as well as the assigned text is displayed on a compatible fire detection control panel.

Features
- Output for external remote indicator
- Functionality check by means of test activation with Remote Test Unit ECO1000RTU

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 75µA (quiescent)
Alarm temperature	58°C (maximum-heat component)
Application temperature	max. +50°C
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 95% (no condensation)
Protection class	IP20
Dimensions Ø × H	102 × 40.5 (mm)
Colour	white
Weight	70g
Approvals	VdS G201016 LPCB 199n/01 2831-CPR-F1878

Cross-references	Page	Art.No.	Name Type
	95	249020	Address Module Conventional NG58-1
	88	246140	Detector Base/1000 ECO1000BR1000
	91	246150	Remote Test Unit/300/1000 ECO1000RTU

242046

Thermal Max Detector/1000/A2S ECO1005T

The Thermal Max Detector ECO1005T reacts to a maximum temperature of 58°C according to EN 54-5, Class A2S. The detector is designed for applications using addressable conventional technology and is suitable for indoor mounting up to a maximum room height of 6m.

For quick localisation in the event of an alarm, each detector can be assigned an address by adding an Address Module NG58-1 to the mounting base. The address of the detector in alarm condition as well as the assigned text is displayed on a compatible fire detection control panel.

Features

- Output for external remote indicator
- Functionality check by means of test activation with Remote Test Unit ECO1000RTU

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 75µA (quiescent)
Alarm temperature	typ. 58°C
Application temperature	max. +50°C
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 95% (no condensation)
Protection class	IP20
Dimensions Ø × H	102 × 40.5 (mm)
Colour	white
Weight	70g
Approvals	VdS G201073 LPCB 199n/06 2831-CPR-F1879

Cross-references	Page	Art.No.	Name Type
	95	249020	Address Module Conventional NG58-1
	88	246140	Detector Base/1000 ECO1000BR1000
	91	246150	Remote Test Unit/300/1000 ECO1000RTU

7 Analog Detectors and Manual Call Points Series 200AP/500

241999T

Detector Series 200AP, Overview

The Detector Series 200AP includes a range of automatic fire detectors which represent the latest state of the fire alarm technology. The detectors are connected to a Fire Detection Control Panel Series BC600 or Series BC216 via the loop with System Sensor protocol. Thanks to the extended address range, up to 159 detectors and 159 modules can be addressed.

Each detector is available either with or without integrated dual-isolator. The isolator disconnects the loop at short circuit on the loop line. Thus, only the loop elements in the faulty line section, that is cut off from the loop by means of isolators, are affected in its function.

The detectors are accommodated in the Detector Base B501AP. A Detector Base B501 can be used, but in the case of detectors with integrated isolator, the isolator does not work.

Type of Detector	With Isolator		Without Isolator	
	Part No.	Type	Part No.	Type
Optical Smoke Detector	241110	ND22051EI	241111	ND22051E
Optical/Thermal Detector	241116	DV22051TEI	241117	DV22051TE
Rate of Rise Heat Detector 58°C, A1R	242110	52051REI	242111	52051RE
Maximum Heat Detector 58°C, A1S	242112	52051EI	242113	52051E
Maximum Heat Detector 78°C, BS	242114	52051HTEI	242115	52051HTE
3-Criteria Detector PTIR	241118	22051TLEI	241119	22051TLE
4-Criteria Detector COPTIR	---	---	241120	2251CTLE
Laser Smoke Detector	241123	72051EI	---	---

241110

Optical Smoke Detector/200AP/ISM ND22051EI

The Optical Smoke Detector ND22051EI operates with an optical sensing chamber based on the principle of scattered light. The new design of the sensing chamber ensures optimum smoke detection and, at the same time, makes it more difficult for dust and insects to reach the chamber. The detector is designed for use on the loop with System Sensor protocol and is suitable for indoor mounting. The integrated dual-isolator disconnects the loop at short circuit on the loop line.

By means of intelligent evaluation algorithms in the respective LST fire detection control panels, the influence of contamination on the optical measurement system is compensated for. With that, the response sensitivity of the detector is kept constant for a long time – a further effective step to avoid false alarms.

Features

- Two multicoloured LEDs with 360° visibility indicate the operating conditions
- Output for external remote indicator
- Insect screen
- Mechanical theft protection in the base
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches
- Easy function testing by means of magnet

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 270µA (normal communication)
Ambient temperature	-30°C to +70°C
Relative humidity	10 - 93% (no condensation)
Protection class	IP40 (IP43 with wet base WB-1AP)
Dimensions Ø × H	102 × 40 (mm)
Colour	white
Weight	97g
Approvals	VdS G209015 0786-CPR-20652

Cross-references	Page	Art.No.	Name Type
	89	246039	Detector Base/500/200AP B501AP

241111 Optical Smoke Detector/200AP ND22051E

The design of the Optical Smoke Detector ND22051E is identical with that of the Optical Smoke Detector ND22051EI, but the ND22051E is not equipped with a dual-isolator which disconnects the loop.

Specifications (for further specifications, see ND22051EI)

Current consumption	max. 220µA (normal communication)
Colour	white
Approvals	VdS G209021 0786-CPR-20658

241123 Optical Laser Smoke Detector/200AP 72051EI

The Optical Laser Smoke Detector 72051EI operates with an optical sensing chamber based on the laser light principle. The detector is designed for use on the loop with System Sensor protocol and is suitable for indoor mounting. The integrated dual-isolator disconnects the loop at short circuit on the loop line.

Thanks to its high response sensitivity, this detector can be used to realise a wide range of special tasks, common optical smoke detectors can not cope with. Depending on the detection task, the individual response sensitivity of the detector is set to one of nine levels between 0.03%/m and 3.3%/m, via the fire detection control panel. An optional pre-alarm can be activated two sensitivity levels before reaching the alarm level.

The detector is ideal for early fire detection in sensitive areas, in smoke aspiration systems as well as when combined with extinguishing systems. Thanks to the special characteristics of the sensing chamber, the detector is very insensitive to contamination, and therefore it is also suitable for areas with increased dust formation.

Intelligent evaluation algorithms compensate for the impact of contamination of the optical sensing system. In this way, the response sensitivity of the detector is kept constant for a long time – an effective measure to avoid false alarms.

Features

- Address can be set in the range 01 to 159 by means of 2 decadic rotary switches
- Output for external remote indicator
- Mechanical theft protection in the base
- Insect screen
- Function testing possible through test activation with magnet

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 300µA (quiescent)
Ambient temperature	-10°C to +55°C
Relative humidity	10 - 93% (no condensation)
Air velocity	max. 20m/s
Protection class	IP40 (IP43 with wet base WB-1AP)
Dimensions Ø × H	102 × 49 (mm)
Colour	white
Weight	125g
Approvals	VdS G219061 LPCB 199ab/02 0832-CPR-F2556

Cross-references	Page	Art.No.	Name Type
	89	246039	Detector Base/500/200AP B501AP

241116 Optical-Thermal Detector/200AP/ISM DV22051TEI

The Optical-Thermal Detector DV22051TEI contains both an optical sensing chamber based on the principle of scattered light as well as a thermocouple for the detection of heat. The new design of the optical sensing chamber ensures optimum smoke detection and, at the same time, makes it more difficult for dust and insects to reach the chamber. The rate-of-rise temperature sensor corresponds to EN 54-5, Class A1R. The analysis of the analogue values of both detection units and the integrated comparison of characteristics of fire ensure safe fire detection.

The detector is designed for use on the loop with System Sensor protocol and is suitable for indoor mounting. The integrated dual-isolator disconnects the loop at short circuit on the loop line.

The response sensitivity of the optical sensor can be individually adjusted in 5 steps between 2.2%/m and 5.8%/m according to the application. Three levels show a fixed sensitivity, two levels provide an automatic sensitivity adjustment. This enables the detector to ideally adapt to the environment. A thermal-only operation of the detector is also possible. In this mode, the detector can only be used up to a room height of 7.5m.

By means of intelligent evaluation algorithms in the respective LST fire detection control panels, the influence of contamination on the optical measurement system is compensated for. With that, the response sensitivity of the detector is kept constant for a long time – a further effective step to avoid false alarms.

Features
- Two multicoloured LEDs with 360° visibility indicate the operating conditions
- Output for external remote indicator
- Insect screen
- Mechanical theft protection in the base
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches
- Easy function testing by means of magnet

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 270µA (normal communication)
Alarm temperature	58°C (maximum temperature)
Application temperature	max. +50°C
Ambient temperature	-30°C to +70°C
Relative humidity	10 - 93% (no condensation)
Protection class	IP20 (IP23 with wet base WB-1AP)
Dimensions Ø × H	102 × 49 (mm)
Colour	white
Weight	99g
Approvals	VdS G209014 0786-CPR-20651

Cross-references	Page	Art.No.	Name Type
	89	246039	Detector Base/500/200AP B501AP

241117 Optical-Thermal Detector/200AP DV22051TE

The design of the Optical-Thermal Detector DV22051TE is identical with that of the Optical-Thermal Detector DV22051TEI, but the DV22051TE is not equipped with a dual-isolator which disconnects the loop.

Specifications (for further specifications, see DV22051TEI)

Current consumption	max. 220µA (normal communication)
Colour	white
Approvals	VdS G209020 0786-CPR-20657

241118 Multicriteria Detector PTIR/200AP/ISM 22051TLEI

The Multicriteria Detector 22051TLEI contains three separate detection units for three characteristics of fire: smoke, temperature and infrared radiation. The optical smoke sensor works on the principle of scattered light and detects visible smoke particles. The thermal unit reacts to temperature changes within defined periods of time (rate-of-rise principle according to Class A1R) as well as to a maximum temperature of 58°C. The infrared sensor reacts to the infrared signature of flames and supports the detection of fires with little smoke formation (e.g., alcohol fire).

Thanks to the intelligent analysis of measured values obtained from all three detection units, the typical fire patterns are detected. Thereby, on the one hand, deceptive alarms can be almost entirely excluded when noise levels occur (caused for example by welding or a dusty environment). On the other hand, a real fire is quickly and reliably detected. Because of its characteristics, the detector is an optimum replacement for ionisation smoke detectors. The response behaviour of the multicriteria detector is similiar to that of ionisation detectors, but in contrast to ionisation detectors, the strict radiation protection regulations do not apply to the multicriteria detector, and it does not cause the high disposal costs.

The response sensitivity of the optical sensor can be individually adjusted in 5 steps between 2.0%/m and 4.7%/m according to the application. In addition, the alarm activation of the detector can be accelerated or delayed by the sophisticated evaluation of the measured values obtained from all sensors. A thermal-only mode is also available.

By means of intelligent evaluation algorithms, the influence of contamination on the optical measurement system is compensated for. With that, the response sensitivity of the optical measurement unit is kept constant for a long time – a further effective step to avoid false alarms.

The detector is designed for use on the loop with System Sensor protocol and is suitable for indoor mounting. Please note that the detector must not be used in the thermal-only mode if the room height exceeds 7.5m.

The integrated dual-isolator disconnects the loop at short circuit on the loop line.

For operation of the detector, a firmware version **PL149 Vx.21 or higher** is required, for parameterisation a **PARSOFT version V1.21 or higher** is necessary.

Features
- Two multicoloured LEDs with 360° visibility indicate the operating conditions
- Output for external remote indicator
- Insect screen
- Mechanical theft protection in the base
- Physical address can be set in the range 1 to 159 by means of 2 decadic rotary switches
- Function testing by means of magnet or detector test device

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 270µA (normal communication)
Alarm temperature	58°C (maximum temperature)
Wavelength infrared sensor	800 - 1200nm
Application temperature	max. +50°C
Ambient temperature	-30°C to +70°C (no condensation or icing)
Relative humidity	15 - 90% (no condensation)
Protection class	IP20
Dimensions Ø × H	102 × 51 (mm)
Colour	white
Weight	100g
Approvals	VdS G209013 LPCB 199aa/01 0786-CPR-20650

Cross-references	Page	Art.No.	Name	Type
	89	246039	Detector Base/500/200AP B501AP	

241119 Multicriteria Detector PTIR/200AP 22051TLE

The design of the Multicriteria Detector 22051TLE is identical with that of the Multicriteria Detector 22051TLEI, but the 22051TLE is not equipped with a dual-isolator which disconnects the loop.

Specifications (for further specifications, see 22051TLEI)

Current consumption	max. 220µA (normal communication)
Colour	white
Approvals	VdS G209019 0786-CPR-20656

241120 Multicriteria Detector COPTIR/200AP 2251CTLE-W

The Multicriteria Detector 2251CTLE-W contains four separate detection units for the four essential characteristics of fire: smoke, temperature, carbon monoxide and infrared radiation. The optical smoke sensor works on the principle of scattered light and detects visible smoke particles. The thermal unit reacts to temperature changes within defined periods of time (rate-of-rise principle according to Class A1R) as well as to a maximum temperature of 60°C. By means of the long-living carbon monoxide sensor, even slowly developing smouldering fires can be safely detected. The infrared sensor reacts to the infrared signature of flames and supports the detection of fires with little smoke formation (e.g., alcohol fire).

Thanks to the intelligent analysis of measured values obtained from all four detection units, the typical fire patterns are detected. Thereby, on the one hand, deceptive alarms can be almost entirely excluded when noise levels occur (caused for example by welding or a dusty environment). On the other hand, a real fire is quickly and reliably detected.

The detector is therefore highly resistant to external influences and can effectively be used in virtually any environmental conditions.

The response sensitivity of the optical sensor can be individually adjusted in 5 steps between 1.6%/m and 6.0%/m according to the application. In addition, the alarm activation of the detector can be accelerated or delayed by the sophisticated evaluation of the measured values obtained from all sensors. A thermal-only mode is also available.

By means of intelligent evaluation algorithms, the influence of contamination on the optical measurement system is compensated for. With that, the response sensitivity of the optical measurement unit is kept constant for a long time – a further effective step to avoid false alarms.

The carbon monoxide sensor has, with 6 years, a long lifespan. The upcoming end of the lifespan can be read out during maintenance of the fire detection control panel. The end of the lifespan is indicated with a fault message.

The detector is designed for use on the loop with System Sensor protocol and is suitable for indoor mounting. Please note that the detector must not be used in the thermal-only mode if the room height exceeds 7.5m.

For operation of the detector, a firmware version **PL149 Vx.21 or higher** is required, for parameterisation a **PARSOFT version V1.21 or higher** is necessary.

Features

- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches
- Sealed electronics prevents false alarms caused by the environment
- Output for external remote indicator
- Two LEDs with 360° visibility indicate the activated condition
- Mechanical theft protection in the base
- Function testing by means of magnet or detector test device
- Insect screen

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 300µA (normal communication)
Alarm temperature	60°C (maximum temperature)
Wavelength infrared sensor	800 - 1200nm
Measurement range CO sensor	0 - 500ppm
Application temperature	max. +50°C
Ambient temperature	-20°C to +55°C (no condensation or icing)
Relative humidity	15 - 90% (no condensation)
Protection class	IP20
Dimensions Ø × H	102 × 60 (mm)

Colour	white
Weight	130g
Approvals	VdS G207054 2831-CPR-F0693

Cross-references	Page	Art.No.	Name Type
	89	246039	Detector Base/500/200AP B501AP

242110 Thermal RoR Detector/200AP/ISM/A1R 52051REI

The Thermal RoR Detector 52051REI reacts to temperature changes within defined periods of time (rate-of-rise principle) as well as to a maximum temperature of 58°C according to EN 54-5, Class A1R. The detector is designed for use on the loop with System Sensor protocol and is suitable for indoor mounting up to a maximum room height of 7.5m. The integrated dual-isolator disconnects the loop at short circuit on the loop line.

Features
- Two multicoloured LEDs with 360° visibility indicate the operating conditions
- Output for external remote indicator
- Mechanical theft protection in the base
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches
- Easy function testing by means of magnet

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 240µA (normal communication)
Alarm temperature	58°C (maximum temperature)
Application temperature	max. +50°C
Ambient temperature	-30°C to +80°C
Relative humidity	10 - 93% (no condensation)
Protection class	IP20 (IP23 with wet base WB-1AP)
Dimensions Ø × H	102 × 49 (mm)
Colour	white
Weight	88g
Approvals	VdS G209018 LPCB 199ac/03 0786-CPR-20655

Cross-references	Page	Art.No.	Name Type
	89	246039	Detector Base/500/200AP B501AP

242111 Thermal RoR Detector/200AP/A1R 52051RE

The design of the Thermal RoR Detector 52051RE is identical with that of the Thermal RoR Detector 52051REI, but the 52051RE is not equipped with a dual-isolator which disconnects the loop.

Specifications (for further specifications, see 52051REI)

Current consumption	max. 190µA (normal communication)
Colour	white
Approvals	VdS G209024 LPCB 199n/15 0333-CPR075493

242112 Thermal Max Detector/200AP/ISM/A1S 52051EI

The Thermal Max Detector 52051EI reacts to a maximum temperature of 58°C according to EN 54-5, Class A1S. The detector is designed for use on the loop with System Sensor protocol and is suitable for indoor mounting up to a maximum room height of 7.5m. The integrated dual-isolator disconnects the loop at short circuit on the loop line.

Features
- Two multicoloured LEDs with 360° visibility indicate the operating conditions
- Output for external remote indicator
- Mechanical theft protection in the base
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches
- Easy function testing by means of magnet

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 240µA (normal communication)
Alarm temperature	58°C
Application temperature	max. +50°C
Ambient temperature	-30°C to +80°C
Protection class	IP20 (IP23 with wet base WB-1AP)
Relative humidity	10 - 93% (no condensation)
Dimensions Ø × H	102 × 49 (mm)
Colour	white
Weight	88g
Approvals	VdS G209016 LPCB 199ac/01 0786-CPR-20653

Cross-references	Page	Art.No.	Name Type
	89	246039	Detector Base/500/200AP B501AP

242113 Thermal Max Detector/200AP/A1S 52051E

The design of the Thermal Max Detector 52051E is identical with that of the Thermal Max Detector 52051EI, but the 52051E is not equipped with a dual-isolator which disconnects the loop.

Specifications (for further specifications, see 52051EI)

Current consumption	max. 190µA (normal communication)
Colour	white
Approvals	VdS G209022 LPCB 199n/17 0786-CPR-20659

242114 Thermal Max Detector/200AP/ISM/BS 52051HTEI

The Thermal Max Detector 52051HTEI reacts to a maximum temperature of 78°C according to EN 54-5, Class BS. The detector is designed for use on the loop with System Sensor protocol and is suitable for indoor mounting up to a maximum room height of 6m. The integrated dual-isolator disconnects the loop at short circuit on the loop line.

Features
- Two multicoloured LEDs with 360° visibility indicate the operating conditions
- Output for external remote indicator
- Mechanical theft protection in the base
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches
- Easy function testing by means of magnet

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 240µA (normal communication)
Alarm temperature	78°C
Application temperature	max. +65°C
Ambient temperature	-30°C to +80°C
Protection class	IP20 (IP23 with wet base WB-1AP)
Relative humidity	10 - 93% (no condensation)
Dimensions Ø × H	102 × 49 (mm)
Colour	white
Weight	88g
Approvals	VdS G209017 LPCB 199ac/02 0786-CPR-20654

Cross-references	Page	Art.No.	Name Type
	89	246039	Detector Base/500/200AP B501AP

242115 Thermal Max Detector/200AP/BS 52051HTE

The design of the Thermal Max Detector 52051HTE is identical with that of the Thermal Max Detector 52051HTEI, but the 52051HTE is not equipped with a dual-isolator which disconnects the loop.

Specifications (for further specifications, see 52051HTEI)

Current consumption	max. 190µA (normal communication)
Colour	white
Approvals	VdS G209023 LPCB 199n/16 0786-CPR-20660

240402 Manual Call Point/Red/200AP HME/3000/25/H1/02

The manual call point according to EN 54-11 / type B in the aluminium die-cast design housing is implemented in loop technology. For the bi-directional loop communication, the System Sensor protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The detector is activated by breaking the glass pane and pressing the button.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Latching push button
- Easy to replace standardised glass plate
- Detector housing can be opened with key SCHL-HFM/HM (not included)
- Button in combination with LED for setting the address from 1 to 159
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54, or to IP65 through a factory upgrade
- Optional protective cover can provide additional mechanical protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 110µA (normal communication)
Protection class	IP43 (without upgrade)
Dimensions W × H × D	126 × 126 × 35 (mm)
Colour	red, similar to RAL 3000
Weight	approx. 420g
Approvals	VdS G218053 0786-CPR-21597

Cross-references	Page	Art.No.	Name Type
	166	249681	Key for Manual Call Point SU=10 SCHL-HM/10
	165	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	164	249633	Protective Cover V2A for MCP/Red WG/ROT-E-1
	166	249680	Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10

240118 NEW

Manual Call Point/red/200AP/FEUER HME/3000/25/52/02/IP65

As regards the function and cross-references, this red manual call point is identical to the Manual Call Point HME/3000/25/H1/02; however, thanks to the gasket elements which have already been installed, it has protection class IP65.

Additional features
- Changeable door label with house symbol + "FEUER", house symbol on the reverse
- 2 cable glands M20×1.5mm, 1 dummy cable gland

Specifications (for further specifications, see HME/3000/25/H1/02)

Protection class	IP65
Weight	approx. 450gAs regards the function and cross-references, this red manual call point is identical to the Manual Call Point HME/3000/25/H1/02; however, thanks to the gasket elements which have already been installed, it has protection class IP65.

Additional features
- Changeable door label with house symbol + "FEUER", house symbol on the reverse
- 2 cable glands M20×1.5mm, 1 dummy cable gland

Specifications (for further specifications, see HME/3000/25/H1/02)

Protection class	IP65
Weight	approx. 450g

240422

Manual Call Point/Blue/200AP/Hausalarm HME/5015/25/02/02

The manual call point in the blue aluminium die-cast design housing is implemented in loop technology. For the bi-directional loop communication, the System Sensor protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The detector is activated by breaking the glass pane and pressing the button.

Features
- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Door label "HAUSALARM", replaceable
- Multicoloured LED for the optical indication of the activation condition and other operating conditions
- Latching (default) or non-latching push button
- Easy to replace standardised glass plate
- Detector housing can be opened with key SCHL-HFM/HM (not included)
- Button in combination with LED for setting the address from 1 to 159
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54, or to IP65 through a factory upgrade
- Optional protective cover can provide additional mechanical protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 110µA (normal communication)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43 (without upgrade)
Dimensions W × H × D	126 × 126 × 35 (mm)
Colour	blue, similar to RAL 5015
Weight	approx. 420g

Cross-references	Page	Art.No.	Name Type
	166	249681	Key for Manual Call Point SU=10 SCHL-HM/10
	165	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	164	249634	Protective Cover V2A for MCP/Blue WG/BLAU-E-1
	166	249680	Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10
	166	249675	Special Designation HME/Sheet-10pcs. HME-BESCH-BOG

240162 NEW

Handmelder/blue/200AP/HAUSALARM HME/5015/25/02/02/IP65

As regards the function and cross-references, this blue manual call point is identical to the Manual Call Point HME/5015/25/02/02; however, thanks to the gasket elements which have already been installed, it has protection class IP65.

Additional features
- 2 cable glands M20×1.5mm, 1 dummy cable gland

Specifications (for further specifications, see HME/5015/25/02/02)

Protection class	IP65
Weight	approx. 450g

7

240432 NEW

Manual Call Point/yellow/200AP/Handauslösung HME/1021/25/17/02

The manual call point in the yellow aluminium die-cast design housing operates as electrical activation device for extinguishing systems using gaseous or other extinguishing agents and is implemented in loop technology. For the bi-directional loop communication, the System Sensor protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The detector is activated by breaking the glass pane and pressing the button. The manual call point has been tested and certified according to the standards EN 54-17 and EN 12094-3.

Features
- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Changeable door label "HANDAUSLÖSUNG-Gaslöschanlage" according to EN 12094-3, with "HANDAUSLÖSUNG-Feuerlöschanlage" according to VdS 2496 on the reverse
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Latching push button
- Easy to replace standardised glass plate
- Detector housing can be opened with key SCHL-HFM/HM (not included)
- Button in combination with LED for setting the address from 1 to 159
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54, or to IP65 through a factory upgrade
- Optional protective cover can provide additional mechanical protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 110µA (normal communication)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43 (without upgrade)
Dimensions W × H × D	126 × 126 × 35 (mm)
Colour	yellow, similar to RAL 1021
Weight	approx. 420g
Approvals	VdS G218054 0786-CPR-21598

Cross-references	Page	Art.No.	Name Type
	166	249681	Key for Manual Call Point SU=10 SCHL-HM/10
	165	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	164	249636	Protective Cover V2A for MCP/Yellow WG/GELB-E-1
	166	249680	Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10
	166	249675	Special Designation HME/Sheet-10pcs. HME-BESCH-BOG

240119 NEW

Manual Call Point/yellow/200AP/Handauslösung HME/1021/25/17/02/IP65

As regards the function and cross-references, this yellow manual call point is identical to the Manual Call Point HME/1021/25/17/02; however, thanks to the gasket elements which have already been installed, it has protection class IP65.

Additional features
- 2 cable glands M20×1.5mm, 1 dummy cable gland

Specifications (for further specifications, see HME/1021/25/17/02)

Protection class	IP65
Weight	approx. 450g

240442 NEW

Manual Call Point/blue/200AP/STOPP HME/5015/25/18/02

The manual call point in the blue aluminium die-cast design housing operates as electrical emergency hold device for extinguishing systems using gaseous or other extinguishing agents and is implemented in loop technology. For the bi-directional loop communication, the System Sensor protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The detector is activated by breaking the glass pane and pressing the button. The manual call point has been tested and certified according to the standards EN 54-17 and EN 12094-3.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Door label "STOPP-TASTER Gaslöschanlage", replaceable
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Non-latching push button
- Easy to replace standardised glass plate
- Detector housing can be opened with key SCHL-HFM/HM (not included)
- Button in combination with LED for setting the address from 1 to 159
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54, or to IP65 through a factory upgrade
- Optional protective cover can provide additional mechanical protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 110µA (normal communication)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43 (without upgrade)
Dimensions W × H × D	126 × 126 × 35 (mm)
Colour	blue, similar to RAL 5015
Weight	approx. 420g
Approvals	VdS G218055 0786-CPR-21599

Cross-references	Page	Art.No.	Name Type
	166	249681	Key for Manual Call Point SU=10 SCHL-HM/10
	165	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	164	249634	Protective Cover V2A for MCP/Blue WG/BLAU-E-1
	166	249680	Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10
	166	249675	Special Designation HME/Sheet-10pcs. HME-BESCH-BOG

240163 NEW

Manual Call Point/blue/200AP/STOPP HME/5015/25/18/02/IP65

As regards the function and cross-references, this blue manual call point is identical to the Manual Call Point HME/5015/25/18/02; however, thanks to the gasket elements which have already been installed, it has protection class IP65.

Additional features

- 2 cable glands M20×1.5mm, 1 dummy cable gland

Specifications (for further specifications, see HME/5015/25/18/02)

Protection class	IP65
Weight	approx. 450g

240495 NEW

Manual Call Point/green/200AP/STEUERUNGEN HME/6002/25/29/02

The manual call point in the green aluminium die-cast design housing is implemented in loop technology. For the bi-directional loop communication, the System Sensor protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The detector is activated by breaking the glass pane and pressing the button.

Depending on which side of the replaceable door label that has text printed on both sides is visible, the manual call point can be used for the following functions:

- Door label "AUSLÖSUNG ALLE STEUERUNGEN" (delivery condition): The manual call point is required according to ÖNORM F 3001 for manually overriding fire controls. The detector is to be connected to the fire control panel.
- Door label "AUFZUG BRANDFALLSTEUERUNG" (reverse): The manual call point is required according to TRVB S 111 for actuating lifts in the event of fire. The detector is to be connected to the lift control or - if the building is equipped with a fire detection system - to the fire control panel.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Latching push button
- Easy to replace standardised glass plate
- Detector housing can be opened with key SCHL-HFM/HM (not included)
- Button in combination with LED for setting the address from 1 to 159
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54, or to IP65 through a factory upgrade
- Optional protective cover can provide additional mechanical protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 110µA (normal communication)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43 (without upgrade)
Dimensions W × H × D	126 × 126 × 35 (mm)
Colour	green, similar to RAL 6002
Weight	approx. 420g

Cross-references	Page	Art.No.	Name Type
	166	249681	Key for Manual Call Point SU=10 SCHL-HM/10
	165	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	164	249694	Protective Cover V2A for MCP/Green WG/GRÜN-E-1
	166	249680	Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10
	166	249675	Special Designation HME/Sheet-10pcs. HME-BESCH-BOG

240821 NEW

Manual Call Point/orange/200AP/Rauchabzug HME/2011/25/45/02

The manual call point in the orange aluminium die-cast design housing is implemented in loop technology. For the bi-directional loop communication, the System Sensor protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The manual call point is used for the actuation of smoke venting systems. The detector is activated by breaking the glass pane and pressing the button.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Door label "Rauchabzug", replaceable
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Latching (default) or non-latching push button
- Easy to replace standardised glass plate
- Detector housing can be opened with key SCHL-HFM/HM (not included)
- Button in combination with LED for setting the address from 1 to 159
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54, or to IP65 through a factory upgrade
- Optional protective cover can provide additional mechanical protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 110µA (normal communication)
Ambient temperature	-20°C to +60°C (continuous operation)
	-25°C to +70°C (max. 12 hours)
Protection class	IP43 (without upgrade)
Dimensions W × H × D	126 × 126 × 35 (mm)
Colour	orange, similar to RAL 2011
Weight	approx. 420g

Cross-references	Page	Art.No.	Name Type
	166	249681	Key for Manual Call Point SU=10 SCHL-HM/10
	165	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	165	249691	Protective Cover V2A for MCP/Orange WG/ORANGE-E-1
	166	249680	Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10
	166	249675	Special Designation HME/Sheet-10pcs. HME-BESCH-BOG

240793 NEW

Manual Call Point/white/200AP/NOTFALL HME/1013/25/40/00

The manual call point in the white aluminium die-cast design housing is implemented in loop technology. For the bi-directional loop communication, the System Sensor protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The detector is activated by breaking the glass pane and pressing the button.

The manual call point is designed for connection to a danger detection system and is used if quick alarming of the helping forces is required.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Blue user interface with operating instructions in the form of white symbols (EN 54-11)
- Door label "NOTFALL", replaceable
- Latching (default) or non-latching push button
- Easy to replace standardised glass plate
- Detector housing can be opened with key SCHL-HFM/HM (not included)
- Button in combination with LED for setting the address from 1 to 159
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54, or to IP65 through a factory upgrade
- Optional protective cover can provide additional mechanical protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 110µA (normal communication)
Ambient temperature	-20°C to +60°C (continuous operation)
	-25°C to +70°C (max. 12 hours)
Protection class	IP43 (without upgrade)
Dimensions W × H × D	126 × 126 × 35 (mm)
Colour	white, similar to RAL 1013
Weight	approx. 420g

Cross-references	Page	Art.No.	Name Type
	166	249681	Key for Manual Call Point SU=10 SCHL-HM/10
	165	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	166	249680	Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10
	166	249675	Special Designation HME/Sheet-10pcs. HME-BESCH-BOG

245041 Manual Call Point/Red/200AP/ISM/Glass MCP5A-RP08FG

The manual call point according to EN 54-11 / type A is accommodated in a red plastic housing and is activated by breaking the glass pane. The detector is designed for use on the loop (ring-bus technology) using System Sensor protocol and contains a dual-isolator which disconnects the loop in the event of a short circuit on the loop line.

Features
- Operating instructions in the form of symbols (EN 54-11)
- Activation by breaking glass pane
- Glass pane easy to replace
- Detector housing can be opened only with a special key (provided)
- 2 decadic rotary switches for setting the address from 01 to 159

Specifications

Operating voltage	supplied through loop voltage
Current consumption	360µA (quiescent)
Ambient temperature	-10°C to +55°C
Relative humidity	0 - 95% (no condensation)
Protection class	IP24
Dimensions W × H × D	89 × 93 × 28 (mm)
Colour	red, RAL 3000
Weight	110g
Approvals	LPCB 166e/01 2831-CPR-F1739

Cross-references	Page	Art.No.	Name Type
	167	249213	Glass Pane for MCP Series/10pcs. G21140
	167	245024	Hinged Cover for MCP/WCP PS200
	167	245019	Surface Mount Box/MCP5A SR
	167	245012	Surface Mount Box/MCP5A SR3T

245040 Manual Call Point/Red/200AP/Glass MCP5A-RP07FG

The structure of the Manual Call Point MCP5A-RP07FG is identical to that of the Manual Call Point MCP5A-RP08FG, but the MCP5A-RP07FG does not contain a dual-isolator.

Specifications (for further specifications, see MCP5A-RP08FG)

Current consumption	260µA (quiescent)
Approvals	LPCB 166b/45 2831-CPR-F1729

Cross-references	Page	Art.No.	Name Type
	167	249213	Glass Pane for MCP Series/10pcs. G21140
	167	245024	Hinged Cover for MCP/WCP PS200
	167	245019	Surface Mount Box/MCP5A SR
	167	245012	Surface Mount Box/MCP5A SR3T

245043 Manual Call Point/Red/200AP/ISM/Flexi MCP5A-RP08FF

The manual call point according to EN 54-11 / type A is accommodated in a red plastic housing and is activated by pressing in the plastic pane without breaking it. The pane can be placed again into the idle position with a special key, thereby resetting the detector. The detector is designed for use on the loop (ring-bus technology) using System Sensor protocol and contains a dual-isolator which disconnects the loop in the event of a short circuit on the loop line.

Features
- Operating instructions in the form of symbols (EN 54-11)
- Activation by pressing in plastic pane without breaking it
- Plastic pane easy to reset
- Detector housing can be opened only with a special key (provided)
- 2 decadic rotary switches for setting the address from 01 to 159

Specifications

Operating voltage	supplied through loop voltage
Current consumption	360µA (quiescent)
Ambient temperature	-10°C to +55°C
Relative humidity	0 - 95% (no condensation)
Protection class	IP24
Dimensions W × H × D	89 × 93 × 28 (mm)
Colour	red, RAL 3000
Weight	110g
Approvals	LPCB 166e/01 0832-CPD-0831

Cross-references	Page	Art.No.	Name Type
	167	245018	Flexi Element for MCP/WCP PS210
	167	245024	Hinged Cover for MCP/WCP PS200
	167	245019	Surface Mount Box/MCP5A SR
	167	245012	Surface Mount Box/MCP5A SR3T

245042 Manual Call Point/Red/200AP/Flexi MCP5A-RP07FF

The structure of the Manual Call Point MCP5A-RP07FF is identical to that of the Manual Call Point MCP5A-RP08FF, but the MCP5A-RP07FF does not contain a dual-isolator.

Specifications (for further specifications, see MCP5A-RP08FF)

Current consumption	260µA (quiescent)
Approvals	LPCB 166b/45 0832-CPD-0829

Cross-references	Page	Art.No.	Name Type
	167	245018	Flexi Element for MCP/WCP PS210
	167	245024	Hinged Cover for MCP/WCP PS200
	167	245019	Surface Mount Box/MCP5A SR
	167	245012	Surface Mount Box/MCP5A SR3T

245045 Man.Call Point/red/IP67/200AP/ISM/Glass WCP5A/RP08SG-L017-01

The manual call point according to EN 54-11 / type A is integrated in a red plastic housing for surface mounting, and thanks to its dust and water protected design, it is suitable for use under harsh environmental conditions. The detector is activated by breaking the glass pane. The detector is designed for use on the loop with System Sensor protocol and contains a dual-isolator which disconnects the loop in the event of a short circuit on the loop line.

Features

- Operating instructions in the form of symbols (EN 54-11)
- Activation by breaking glass pane
- Glass pane easy to replace
- Detector housing can be opened only with a special key (provided)
- 2 decadic rotary switches for setting the physical address in the range 01 to 159

Specifications

Operating voltage	supplied through loop voltage
Current consumption	360µA (quiescent)
Ambient temperature	-10°C to +55°C
Relative humidity	0 - 95% (no condensation)
Protection class	IP67
Dimensions W × H × D	93 × 98 × 71 (mm)
Colour	red, RAL 3000
Weight	240g
Approvals	LPCB 166e/03 2831-CPR-F1740

Cross-references	Page	Art.No.	Name Type
	167	249213	Glass Pane for MCP Series/10pcs. G21140
	167	245024	Hinged Cover for MCP/WCP PS200

245044 Manual Call Point/Red/IP67/200AP/Glass WCP5A/RP07SG-L017-01

The structure of the Manual Call Point WCP5A/RP07SG-L017-01 is identical to that of the Manual Call Point WCP5A/RP08SG-L017-01, but the WCP5A/RP07SG-L017-01 does not contain a dual-isolator.

Specifications (for further specifications, see WCP5A/RP08SG-L017-01)

Current consumption	260µA (quiescent)
Approvals	LPCB 166b/57 0832-CPD-0833

Cross-references	Page	Art.No.	Name Type
	167	249213	Glass Pane for MCP Series/10pcs. G21140
	167	245024	Hinged Cover for MCP/WCP PS200

8 Modules, Optical and Acoustic Devices Series 200AP/500

249126

Monitor Module/200AP M501MEA

The addressable, compact micro module M501MEA is used for the line-monitored integration of contact detectors (e.g., manual call points, sprinkler system contacts, supervising contacts) into the bi-directional communication on the loop with System Sensor protocol.

Features
- Physical address can be set in the range 01 to 159 by means of decadic rotary switches

Specifications

Operating voltage	supplied through loop voltage
Current consumption	400µA (quiescent)
Ambient temperature	0°C to +49°C
Dimensions L × W × H	71 × 33 × 15 (mm)
Colour	cream
Weight	57g
Approval	VdS G214117 0359-CPR-00176

249100

Monitor Module 1xSurv.In/200AP M210E

The addressable module M210E is used for the line-monitored integration of a contact detector (e.g., manual call point, sprinkler system contact, supervising contact) into the bi-directional communication on the loop with System Sensor protocol. The integrated dual-isolator can be activated or deactivated by choosing the appropriate terminals.

Features
- Status LED
- Monitoring of terminal connecting line for wire breakage and short circuit
- 2 decadic rotary switches for setting the address from 01 to 159
- Installation alternatively in module box or by means of mounting pedestal

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 510µA (quiescent)
Ambient temperature	-20°C to +60°C
Protection class	IP30
Dimensions L × W × H	93 × 94 × 23 (mm)
Colour	cream
Weight	110g
Approvals	VdS G202140 LPCB 199v/01 0786-CPR-20342

Cross-references	Page	Art.No.	Name Type
	94	249110	Base for Carrier Rail/M200 M200E-DIN
	93	249109	Base for Mounting Plate/M200 M200E-PMB
	93	249108	Surface Mounting Box M200E-SMB
	94	249118	Surface Mounting Box SMB6-V0

249101

Monitor Module 2xSurv.In/200AP M220E

The addressable module M220E is used for the line-monitored integration of 2 contact detectors (e.g., manual call points, sprinkler system contacts, supervising contacts) into the bi-directional communication on the loop with System Sensor protocol. The integrated dual-isolator can be activated or deactivated by choosing the appropriate terminals.

Features
- Status LED for every input
- Monitoring of terminal connecting lines for wire breakage and short circuit
- 2 decadic rotary switches for setting the address from 01 to 159
- Installation alternatively in module box or by means of mounting pedestal

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 600µA (quiescent)
Ambient temperature	-20°C to +60°C
Protection class	IP30
Dimensions L × W × H	93 × 94 × 23 (mm)
Colour	cream
Weight	110g
Approvals	VdS G202140 LPCB 199v/01 0786-CPR-20342

Cross-references	Page	Art.No.	Name Type
	94	249110	Base for Carrier Rail/M200 M200E-DIN
	93	249109	Base for Mounting Plate/M200 M200E-PMB
	93	249108	Surface Mounting Box M200E-SMB
	94	249118	Surface Mounting Box SMB6-V0

249102 Module 2xSurv.In 1xRel.Out/200AP M221E

The addressable module M221E is used for the line-monitored integration of 2 contact detectors (e.g., manual call points, sprinkler system contacts, supervising contacts) as well as for triggering external devices by means of a dry relay output via the bi-directional communication on the loop with System Sensor protocol. The integrated dual-isolator can be activated or deactivated by choosing the appropriate terminals.

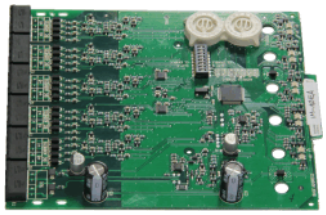
Features
- Separate status LED for each input and output
- Terminal connection lines of input monitored for wire breakage and short circuit
- 2 decadic rotary switches for setting the address from 01 to 159
- Installation alternatively in module box or by means of mounting pedestal

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 660µA (quiescent)
Contact rating	2A/30VDC or 0.5A/30VAC
Ambient temperature	-20°C to +60°C
Protection class	IP30
Dimensions L × W × H	93 × 94 × 23 (mm)
Colour	cream
Weight	110g
Approvals	VdS G202139 LPCB 199v/03 0786-CPR-20343

Cross-references	Page	Art.No.	Name Type
	94	249110	Base for Carrier Rail/M200 M200E-DIN
	93	249109	Base for Mounting Plate/M200 M200E-PMB
	93	249108	Surface Mounting Box M200E-SMB
	94	249118	Surface Mounting Box SMB6-V0

249115 Monitor Module 10xSurv.In/200AP IM-10EA



The addressable module IM-10EA with 10 independent inputs serves for the line-monitored integration of contact detectors (e.g., manual call points, sprinkler system contacts, supervising contacts) into the bi-directional communication on the loop using System Sensor protocol. The integrated dual-isolator disconnects the loop at short circuit on the loop line.

Features
- Multicolour status LED for every input
- Monitoring of terminal connection lines for wire breakage and short circuit
- 2 decadic rotary switches for setting the address from 01 to 159
- Mounting in a surface mounting box

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 3.5mA (quiescent)
Ambient temperature	-10°C to +55°C
Dimensions L × W × H	172 × 147 × 25 (mm)
Weight	170g
Approval	0905-CPR-191779

Cross-references	Page	Art.No.	Name Type
	95	249119	Mounting Chassis/Multi Modules CH-6
	94	249117	Surface Mounting Box/Multi Modules M200-SMB-MM
	94	249118	Surface Mounting Box SMB6-V0

249103 Control Module 1xSurv.Out/200AP M201E

The addressable module M201E is used for the activation of an external device via the bi-directional communication on the loop with System Sensor protocol. The external device can be triggered by means of either a line-monitored output or a dry contact. The trigger mode is set via DIL switches. The integrated dual-isolator can be activated or deactivated by choosing the appropriate terminals.

Features
- Status LED
- 2 decadic rotary switches for setting the address from 01 to 159
- Installation alternatively in module box or by means of mounting pedestal

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 510µA (quiescent)
Contact rating	2A/30VDC or 0.5A/30VAC
Ambient temperature	-20°C to +60°C
Protection class	IP30
Dimensions L × W × H	93 × 94 × 23 (mm)
Colour	cream
Weight	110g
Approvals	VdS G202141 LPCB 199v/04 0786-CPR-20341

Cross-references	Page	Art.No.	Name Type
	94	249110	Base for Carrier Rail/M200 M200E-DIN
	93	249109	Base for Mounting Plate/M200 M200E-PMB
	93	249108	Surface Mounting Box M200E-SMB
	94	249118	Surface Mounting Box SMB6-V0

249105 Control Module 1xRel.Out/200AP M201E-240

The addressable module M201E-240 in a wall-mount cabinet is used for the activation of an external device by means of a changeover contact (suitable for 230VAC) via the bi-directional communication on the loop with System Sensor protocol. The integrated dual-isolator can be activated or deactivated by choosing the appropriate terminals.

Features
- Status LED
- 2 decadic rotary switches for setting the address from 01 to 159
- Module delivery includes module box (wall-mount cabinet)

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 510µA (quiescent)
Contact type	changeover contact
Switching power per contact	5A/30VDC or 5A/250VAC
Ambient temperature	-20°C to +60°C
Protection class	IP50
Dimensions L × W × H	132 × 137 × 40 (mm)
Colour	cream/transparent smoke-coloured
Weight	195g
Approvals	VdS G202141 LPCB 199v/05 0786-CPR-20341

249106 Control Module 1xRel.Out-DIN/200AP M201E-240-DIN

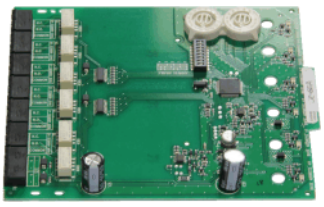
The addressable module M201E-240-DIN serves for the activation of an external device by means of a changeover contact (suitable for 230VAC) via the bi-directional communication on the loop using System Sensor protocol. The integrated dual-isolator can be activated or deactivated by choosing the appropriate terminals.

Features
- Status LED
- 2 decadic rotary switches for setting the address from 01 to 159
- prepared for mounting on a DIN rail

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 510µA (quiescent)
Contact type	changeover contact
Switching power per contact	5A/30VDC or 5A/250VAC
Ambient temperature	-20°C to +60°C
Protection class	IP30
Dimensions L × W × H	127 × 76 × 48 (mm)
Weight	140g
Approvals	VdS G202141 LPCB 199v/06 0786-CPR-20341

249116 Control Module 6xRel.Out/200AP CR-6EA



The addressable module CR-6EA serves for the activation of external devices by means of 6 independent dry contacts via the bi-directional communication on the loop using System Sensor protocol. The integrated dual-isolator disconnects the loop at short circuit on the loop line.

Features
- Multicolour status LED for every output
- 2 decadic rotary switches for setting the address from 01 to 159
- Mounting in a surface mounting box

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 1.5mA (quiescent)
Switching power per contact	3A/30VDC
Ambient temperature	-10°C to +55°C
Dimensions L × W × H	172 × 147 × 25 (mm)
Weight	170g
Approval	0843-CPD-0123

Cross-references	Page	Art.No.	Name Type
	95	249119	Mounting Chassis/Multi Modules CH-6
	94	249117	Surface Mounting Box/Multi Modules M200-SMB-MM
	94	249118	Surface Mounting Box SMB6-V0

249104

Conventional Zone Module/200AP M210E-CZ

The addressable module M210E-CZ is used for the integration of conventional detectors into a loop with System Sensor protocol. The address is set in a straightforward manner by means of two decadic rotary switches located on the module itself. The integrated dual-isolator can be activated or deactivated by choosing the appropriate terminals. The module can be powered alternatively through the loop or by an external supply with 24VDC. The conventional zone module provides a reset output for resetting special detectors.

Attention: Due to the capacitive line termination, the conventional zone module must not be used for connecting intrinsically safe devices.

Features
- Status LED
- Monitoring of detector connecting line for wire breakage and short circuit
- 2 decadic rotary switches for setting the address from 01 to 159
- Installation alternatively in module box or by means of mounting pedestal

Specifications

Operating voltage	15 to 30VDC
Current consumption on loop	typ. 500µA (quiescent, external voltage supply) typ. 1.5mA (quiescent, loop-supplied)
Line termination	typ. 47µF
Capacitance (line incl. detectors)	max. 2.2µF
Current consumption of detectors	max. 3mA
Ambient temperature	-20°C to +60°C
Protection class	IP30
Dimensions L × W × H	93 × 94 × 23 (mm)
Weight	110g
Approvals	VdS G205144 LPCB 199v/07 2831-CPR-F1971

Cross-references	Page	Art.No.	Name Type
	94	249110	Base for Carrier Rail/M200 M200E-DIN
	93	249109	Base for Mounting Plate/M200 M200E-PMB
	93	249108	Surface Mounting Box M200E-SMB
	94	249118	Surface Mounting Box SMB6-V0

249107

Conventional Zone Module/200AP M210E-CZR

The addressable module M210E-CZR is used for the integration of conventional detectors into a loop with System Sensor protocol. The address is set in a straightforward manner by means of two decadic rotary switches located on the module itself. The integrated dual-isolator can be activated or deactivated by choosing the appropriate terminals. The module can be powered alternatively through the loop or by an external supply with 24VDC. The conventional zone module provides a reset output for resetting special detectors.

Due to the ohmic line termination, the conventional zone module can also be used for connecting intrinsically safe devices.

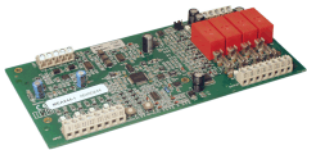
Features
- Status LED
- Monitoring of detector connecting line for wire breakage and short circuit
- 2 decadic rotary switches for setting the address from 01 to 159
- Installation alternatively in module box or by means of mounting pedestal

Specifications

Operating voltage	15 to 30VDC
Current consumption on loop	typ. 500µA (quiescent, external voltage supply) typ. 6.7mA (quiescent, loop-supplied)
Current consumption of detectors	max. 3mA
Ambient temperature	-20°C to +60°C
Protection class	IP30
Dimensions L × W × H	93 × 94 × 23 (mm)
Weight	110g
Approvals	VdS G210088 LPCB 199v/09 2831-CPR-F1972

Cross-references	Page	Art.No.	Name Type
	94	249110	Base for Carrier Rail/M200 M200E-DIN
	93	249109	Base for Mounting Plate/M200 M200E-PMB
	93	249108	Surface Mounting Box M200E-SMB
	94	249118	Surface Mounting Box SMB6-V0

249095 Module 4xSurv.In 4xSurv.Out/Panel MEA244-1/E



The addressable module MEA244-1/E provides 4 inputs and 4 outputs and is connected to a fire detection control panel via the loop with System Sensor protocol. The inputs allow for the connection of contact detectors (e.g., manual call points, sprinkler system contacts, supervising contacts) and are monitored for wire breakage and short circuit. The outputs serve for the connection of control devices (e.g., solenoid valves, relay coils) and provide a separate monitoring of line resistance and load resistance. The reference value of both resistances is determined by means of an automatic calibration procedure, initiated with a keystroke during commissioning. If one of the two resistance values differs from the reference value by more than 25% during operation, the output is indicated as faulty.

The patented method of multiple monitoring provides a reliable detection of line faults or load faults. The multi module is therefore ideally suitable for the application in extinguishing systems. An optional accessory board allows for the hardware-redundant actuation of solenoid valves, according to EN 12094-1.

The module provides an integrated dual-isolator and is designed to be mounted into a fire detection control panel.

Features
- Separate status LED for each input and output
- Monitoring of terminal connecting lines for wire breakage and short circuit
- Monitoring of the internal resistance of the control devices as well as the line resistance of the supply line with a patented method
- Integrated self-calibration by measuring the line resistance and load resistance, initiated at a keystroke
- Monitoring of the supply voltage for undervoltage
- Physical address can be set in the range 01 to 99 by means of button in combination with LED
- Mounting in LST standard grid by means of supplied mounting spacers

Specifications

Operating voltage	20 to 30VDC
Current consumption	35mA (quiescent), max. 160mA (no load)
Current consumption on the loop	500µA
Load current per output	max. 1.5A
Ambient temperature	-5°C to +60°C
Ambient temperature control devices	+5°C to +50°C (to ensure the functioning of the fault detection)
Dimensions L × W × H	194 × 93 × 20 (mm)
Weight	150g
Patent number	AT 501 215 B1
Approvals	VdS G212164 0786-CPD-20978

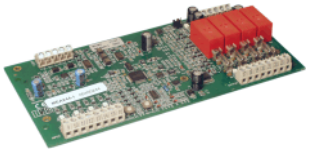
249092 Module 4xSurv.In 4xSurv.Out/Rail MEA244-1/TR

The addressable module MEA244-1/TR is identical to the module MEA244-1/E, it is however designed to be mounted on a DIN rail.

Specifications (for further specifications, see MEA244-1/E)

Dimensions L × W × H	196 × 97 × 56 (mm)
Weight	310g

249127 Module 4xSurv.In 4xSurv.Out/Fail-safe/Panel MEA244-1/FS/E



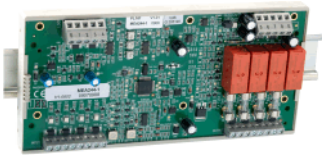
The structure of the addressable module MEA244-1/FS/E is similar to that of the module MEA244-1/E, but it is designed for the actuation of fire prevention devices which have to enter a safe state in the event of a fault - for example fixing systems. The MEA244-1/FS/E has the following special features (for further features, see MEA244-1/E):

- In the normal condition, the control voltage is switched to an output, and as a result the fire prevention device is actuated. The control voltage is monitored separately for each output. If an output is activated by the control panel or if faults occur on the loop – for example a failure of the communication or of the loop voltage – the control voltage of the output will be switched off. As a result, the fire prevention device will become de-energised.
- For maintenance work or changes to the fire detection system, the module can be switched into the maintenance mode by means of a push-button. This mode prevents the control voltage of the outputs from being switched off if the loop experiences a fault. The maintenance mode is indicated on the module by the blinking red LED displays for the outputs, and on the fire detection control panel it is indicated as fault of the outputs.

Specifications (for further specifications, see MEA244-1/E)

Current consumption at 24V	max. 160mA (quiescent, no load)

249128 Module 4xSurv.In 4xSurv.Out/Fail-safe/Rail MEA244-1/FS/TR



The addressable module MEA244-1/FS/TR is identical with the module MEA244-1/E, but it is designed for the actuation of fire prevention devices which have to enter a safe state in the event of a fault - for example fixing systems. The MEA244-1/FS/TR has the following special features (for further features, see MEA244-1/E):

- In the normal condition, the control voltage is switched to an output, and as a result the fire prevention device is actuated. The control voltage is monitored separately for each output. If an output is activated by the control panel or if faults occur on the loop – for example a failure of the communication or of the loop voltage – the control voltage of the output will be switched off. As a result, the fire prevention device will become de-energised.
- For maintenance work or changes to the fire detection system, the module can be switched into the maintenance mode by means of a push-button. This mode prevents the control voltage of the outputs from being switched off if the loop experiences a fault. The maintenance mode is indicated on the module by the blinking red LED displays for the outputs, and on the fire detection control panel it is indicated as fault of the outputs.
- DIN rail mounting

Specifications (for further specifications, see MEA244-1/E)

Current consumption at 24V	max. 160mA (quiescent, no load)
Dimensions L × W × H	196 × 97 × 56 (mm)
Weight	310g

249121 Position Switch/200AP/pressed Idle EDS200AP-1/GR

The addressable module EDS200AP-1/GR allows monitoring of the position of slides, valves and similar mechanical appliances of an extinguishing system. The System Sensor protocol is used for the bi-directional communication on the loop. The module is accommodated in a plastic housing and is especially durable and fail-safe, due to the use of opto-electronic components.

Features

- Normal condition when actuating element is being pressed
- Status LED
- Physical address can be set in the range 01 to 159 by means of button in combination with LED
- Mounting terminals according to DIN 912 M5
- Cable gland M16 × 1.5

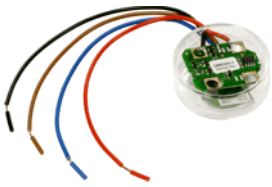
Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 300µA (quiescent)
Ambient temperature	-20°C to +60°C
Protection class	IP65
Dimensions L × W × H	59 × 32 × 63 (mm)
Colour	red/black
Weight	90g

249122 Position Switch/200AP/pressed Alarm EDS200AP-1/GA

The structure of the addressable module EDS200AP-1/GA is identical to that of the module EDS200AP-1/GR, but the EDS200AP-1/GA is in alarm condition when the actuating element is being pressed.

249123 Monitor Module/Box/200AP ÜMB200AP-1



The addressable module ÜMB200AP-1 allows integration of a contact detector (e.g., pressure switch, temperature monitor) into the bi-directional communication on the loop with System Sensor protocol. The module is integrated in a round, transparent plastic case and is connected both to the loop and to the detector via two flying leads each. Since the module has no mounting mechanism of its own, it must be installed in the detector housing.

Features
- Status LED
- Physical address can be set in the range 01 to 159 by means of button in combination with LED

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 300µA (quiescent)
Ambient temperature	-20°C to +60°C
Dimensions Ø × H	45 × 16 (mm)
Weight	16g

249003 Isolator Module/500/200 ISM1-2

The Isolator Module ISM1-2 is used for the connection to a loop with System Sensor protocol. If a short circuit appears between two isolator modules, the defective area is separated from the loop and operation of the detectors and modules outside this area is ensured. For optimum availability, the detector zones on the loop should be separated from each other by isolator modules.

Features
- Full operation of all standard loop elements not affected by the short circuit
- Installation in commercially available installation boxes, on a mounting bracket or a module carrier

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 0.2mA
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	70 × 24 × 15 (mm)
Weight	20g
Approvals	VdS G212164 0786-CPD-21029

355251 Sounder/WM/200API/red/100 WSO-PR-I

The addressable multitone sounder is integrated in a red plastic housing. The sounder is actuated and powered via the loop with System Sensor protocol. The unit is designed to be inserted into a standard detector base B501AP and is suitable for outdoor and indoor surface mounting.

With a Fire Detection Control Panel Series BC600, tone type and sound level of the sounder are controlled via the loop protocol. Depending on the parameter setup of the control panel and the system condition, the sounder can be activated with up to 32 different tones and selectable sound level. If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone.

With Fire Detection Control Panels Series BC216, a pair of tone types and the sound level can be set via a DIL switch.

A dual-isolator is integrated in the sounder. At short circuit, it maintains the function of loop elements that are not affected by the short circuit.

Features
- 32 different tone types selectable (e.g., continuous tone 800Hz, DIN 33404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- Sound level selectable in 3 steps (low-medium-high)
- Low power consumption
- 2 decadic rotary switches for setting the address from 01 to 159
- Base adaptors for protection classes IP44 and IP65 available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop (DIN tone)	max. 450µA (sounder off) max. 1.8mA (low sound level) max. 2.6mA (medium sound level) max. 5.1mA (high sound level)
Sound level (DIN tone)	max. 99dB(A) / 1m distance (high sound level)
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 93% (no condensation)
Protection class	IP24 (IP44 - IP65 with base adaptor)
Dimensions Ø × D	121 × 65 (mm)
Colour	red
Weight	240g
Approvals	VdS G212158 LPCB 166j/01 2831-CPR-F1951

Cross-references	Page	Art.No.	Name Type
	99	359051	Base Sounder/Strobe/IP44/red BRR
	99	359052	Base Sounder/Strobe/IP65/red WRR
	89	246039	Detector Base/500/200AP B501AP

355250 Sounder/WM/200AP/red/100 WSO-PR-N

The structure of the addressable multitone sounder WSO-PR-N is identical to that of the Sounder WSO-PR-I, but the WSO-PR-N does not contain a dual-isolator.

Specifications (for further specifications, see WSO-PR-I)

Current consumption from loop (DIN tone)	max. 450µA (sounder off) max. 1.6mA (low sound level) max. 2.4mA (medium sound level) max. 4.9mA (high sound level)
Approvals	VdS G212157 LPCB 166h/01 2831-CPR-F1947

355259 Sounder/WM/200API/white/100 WSO-PP-I

The addressable loop-powered multitone sounder WSO-PP-I is identical with the Sounder WSO-PR-I, but the WSO-PP-I is accommodated in a white plastic housing.

Cross-references	Page	Art.No.	Name Type
	99	359053	Base Sounder/Strobe/IP44/white BPW
	100	359054	Base Sounder/Strobe/IP65/white WPW
	89	246039	Detector Base/500/200AP B501AP

355258 Sounder/WM/200AP/white/100 WSO-PP-N

The addressable loop-powered multitone sounder WSO-PP-N is identical with the Sounder WSO-PR-I, but the WSO-PP-N does not contain a dual-isolator and is accommodated in a white plastic housing.

355253 Sounder-Str/WM/200APl/wh/re/100/N WSS-PR-I

The addressable multitone sounder with strobe is integrated in a plastic housing with red cap. The sounder-strobe is actuated and powered powered via the loop with System Sensor protocol. The unit is designed to be inserted into a standard detector base B501AP and is suitable for outdoor and indoor surface mounting.

With a Fire Detection Control Panel Series BC600, tone type and sound level of the sounder are controlled via the loop protocol. Depending on the parameter setup of the control panel and the system condition, the sounder can be activated with up to 32 different tones and selectable sound level. If several sounder-strobes are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone and light pulse. The sounder is always activated together with the strobe.

With Fire Detection Control Panels Series BC216, a pair of tone types and the sound level can be set via a DIL switch.

A dual-isolator is integrated in the sounder-strobe. At short circuit, it maintains the function of loop elements that are not affected by the short circuit.

8

Features
- 32 different tone types selectable (e.g., continuous tone 800Hz, DIN 33404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- Sound level selectable in 3 steps (low-medium-high)
- Low power consumption due to the use of LEDs
- 2 decadic rotary switches for setting the address from 01 to 159
- Base adaptors for protection classes IP44 and IP65 available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	max. 450µA (sounder and strobe off)
(DIN tone, strobe)	max. 5.8mA (low sound level)
	max. 6.6mA (medium sound level)
	max. 9.0mA (high sound level)
Sound level (DIN tone)	max. 99dB(A) / 1m distance (high sound level)
Flash frequency	1Hz
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 93% (no condensation)
Protection class	IP24 (IP44 - IP65 with base adaptor)
Dimensions Ø × D	121 × 65 (mm)
Colour cap	red
Weight	240g
Approval	LPCB 166j/02
	2831-CPR-1952

Cross-references	Page	Art.No.	Name Type
	99	359051	Base Sounder/Strobe/IP44/red BRR
	99	359052	Base Sounder/Strobe/IP65/red WRR
	89	246039	Detector Base/500/200AP B501AP

355252 Sounder-Str/WM/200AP/wh/re/100/N WSS-PR-N

The structure of the addressable multitone sounder with strobe WSS-PR-N is identical to that of the Sounder-Strobe WSS-PR-I, but the WSS-PR-N does not contain a dual-isolator.

Specifications (for further specifications, see WSS-PR-I)

Current consumption from loop	max. 450µA (sounder and strobe off)
(DIN tone, strobe)	max. 5.6mA (low sound level)
	max. 6.4mA (medium sound level)
	max. 8.8mA (high sound level)
Approval	LPCB 166h/02
	2831-CPR-1948

355270 Sounder-Str/WM/200API/wh/cl/re/100/O WSS-PC-I

The addressable multitone sounder with red strobe is integrated in a white plastic housing with clear cap. The sounder-strobe is actuated and powered via the loop with System Sensor protocol. The unit is designed to be inserted into a standard detector base B501AP and is suitable for indoor and outdoor wall mounting.

With a Fire Detection Control Panel Series BC600, tone type and sound level of the sounder are controlled via the loop protocol. Depending on the parameter setup of the control panel and the system condition, the sounder can be activated with up to 32 different tones and selectable sound level. If several sounder-strobes are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone and light pulse. The strobe is always activated together with the sounder.

With Fire Detection Control Panels Series BC216, a pair of tone types and the sound level can be set via a DIL switch.

A dual-isolator is integrated in the sounder-strobe. At short circuit, it maintains the function of loop elements that are not affected by the short circuit.

The strobe has been tested according to EN 54-23 Class O (open class).

Features
- 32 different tone types selectable (e.g., continuous tone 800Hz, DIN 33404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- Sound level selectable in 3 steps (low-medium-high)
- Low power consumption due to the use of LEDs
- 2 decadic rotary switches for setting the address from 01 to 159
- Base adaptors for protection classes IP44 and IP65 available

Specifications

Operating voltage	supplied through loop voltage
Current consumption from loop	max. 450µA (sounder and strobe off)
(DIN tone, strobe)	max. 5.8mA (low sound level)
	max. 6.6mA (medium sound level)
	max. 9.0mA (high sound level)
Sound level (DIN tone)	max. 99dB(A) / 1m distance (high sound level)
Flash frequency	1Hz
EN 54-23 Category O-2.4-2 – wall mounting	
Mounting height	max. 2.4m
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 93% (no condensation)
Protection class	IP24 (IP44 - IP65 with base adaptor)
Dimensions Ø × D	121 × 65 (mm)
Colour housing / cap	white / clear
Light colour	red
Weight	240g
Approvals	VdS G216051
	LPCB 166r/01
	2831-CPR-F0277

Cross-references	Page	Art.No.	Name Type
	99	359053	Base Sounder/Strobe/IP44/white BPW
	100	359054	Base Sounder/Strobe/IP65/white WPW
	89	246039	Detector Base/500/200AP B501AP

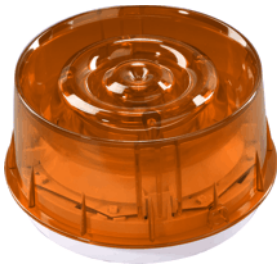
355269 Sounder-Str/WM/200AP/wh/cl/re/100/O WSS-PC-N

The structure of the addressable multitone sounder with strobe WSS-PC-N is identical to that of the Sounder-Strobe WSS-PC-I, but the WSS-PC-N does not contain a dual-isolator.

Specifications (for further specifications, see WSS-PC-I)

Current consumption from loop	max. 450µA (sounder and strobe off)
(DIN tone, strobe)	max. 5.6mA (low sound level)
	max. 6.4mA (medium sound level)
	max. 8.8mA (high sound level)
Approvals	VdS G216050
	LPCB 166s/01
	2831-CPR-F0275

355271 Sounder-Str/WM/200APl/wh/am/100/N WSS-PA-I



The structure of the addressable multitone sounder with strobe WSS-PA-I is identical to that of the Sounder-Strobe WSS-PR-I, but the WSS-PA-I has an orange cap.

Specifications (for further specifications, see WSS-PR-I)

Colour cap	orange

355263 Sounder/WB/200APl/white BSO-PP-I

The addressable sounder is integrated in a round white plastic housing. The sounder is actuated and powered via the loop with System Sensor protocol. The unit is designed to be inserted into a standard detector base B501AP and is suitable for indoor surface mounting. The integrated base can accommodate fire detectors Series 200-Advanced and 200.

With a Fire Detection Control Panel Series BC600, tone type and sound level of the sounder are controlled via the loop protocol. Depending on the parameter setup of the control panel and the system condition, the sounder can be activated with up to 32 different tones and selectable sound level. If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone.

With Fire Detection Control Panels Series BC216, a pair of tone types and the sound level can be set via a DIL switch.

A dual-isolator is integrated in the sounder. At short circuit, it maintains the function of loop elements that are not affected by the short circuit.

Features

- 32 different tone types selectable (e.g., continuous tone 800Hz, DIN 33404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- Sound level selectable in 3 steps (low-medium-high)
- Low power consumption
- Integrated detector base
- 2 decadic rotary switches for setting the address from 01 to 159
- Base adaptor for surface mounting available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	max. 450µA (sounder off)
(DIN tone)	max. 1.6mA (low sound level)
	max. 3.2mA (medium sound level)
	max. 4.3mA (high sound level)
Sound level	
(detector mounted, DIN tone)	max. 86dB(A) / 1m distance (high sound level)
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 93% (no condensation)
Protection class	IP24 (IP44 with base adaptor)
Dimensions Ø × H	121 × 57 (mm) (without detector)
Colour	white
Weight	200g
Approvals	VdS G212158
	LPCB 166j/03
	2831-CPR-1953

Cross-references	Page	Art.No.	Name Type
	99	359053	Base Sounder/Strobe/IP44/white BPW
	89	246039	Detector Base/500/200AP B501AP
	98	359045	Lid for Sounder/200/10pcs. IBS-LIDPW-10X

355262 Sounder/WB/200AP/white BSO-PP-N

The structure of the addressable Sounder BSO-PP-N is identical to that of the Sounder BSO-PP-I, but the BSO-PP-N does not contain a dual-isolator.

Specifications (for further specifications, see BSO-PP-I)

Current consumption from loop (DIN tone)	max. 450µA (sounder off)
	max. 1.4mA (low sound level)
	max. 3.0mA (medium sound level)
	max. 4.1mA (high sound level)
Approvals	VdS G212157
	LPCB 166h/03
	2831-CPR-1949

355115 Sounder/FB/200RI/white 200/FBRI/SOUW

The Sounder 200/FBRI/SOUW is integrated in a white plastic housing and is designed for indoor ceiling mounting. A Detector Base Series 200 can be attached onto the sounder. In this case, the sounder is actuated and powered via the remote indicator output of the detector. Alternatively, the device can also be used as independent conventional sounder. For this purpose, a white or red cover plate is available. The tone and the sound level are set by means of DIL switches.

Features
- 32 tones (e.g., DIN tone, alternating tone 800/1000Hz, continuous tone 970Hz)
- Low power consumption
- 3 different sound levels selectable

Specifications

Operating voltage	18 - 30VDC
Current consumption at 24V	typ. 9mA (DIN tone, high sound level)
Sound level	91dB(A) / 1m distance (DIN tone, high sound level)
Ambient temperature	-20°C to +70°C
Protection class	IP21
Dimensions Ø × D	115 × 25 (mm)
Colour	white
Weight	90g
Approvals	LPCB 546a/04
	0832-CPD-2088

Cross-references	Page	Art.No.	Name Type
	89	246039	Detector Base/500/200AP B501AP
	99	359061	Lid for Sounder 200/FBRI 200/FB/COVER/R
	98	359060	Lid for Sounder 200/FBRI 200/FB/COVER/W

355265 Sounder-Strobe/WB/200API/wh/re/N BSS-PR-I

The addressable multitone sounder with red strobe is integrated in a white plastic housing with red cap. The sounder-strobe is actuated and powered via the loop with System Sensor protocol. The unit is designed to be inserted into a standard detector base B501AP and is suitable for indoor surface mounting. The integrated base can accommode fire detectors Series 200-Advanced and 200.

With a Fire Detection Control Panel Series BC600, tone type and sound level of the sounder are controlled via the loop protocol. Depending on the parameter setup of the control panel and the system condition, the sounder can be activated with up to 32 different tones and selectable sound level. If several sounder-strobes are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone and light pulse. The strobe is always activated together with the sounder.

With Fire Detection Control Panels Series BC216, a pair of tone types and the sound level can be set via a DIL switch.

A dual-isolator is integrated in the sounder-strobe. At short circuit, it maintains the function of loop elements that are not affected by the short circuit.

Features
- 32 different tone types selectable (e.g., continuous tone 800Hz, DIN 33404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- Sound level selectable in 3 steps (low-medium-high)
- Low power consumption due to the use of LEDs
- 2 decadic rotary switches for setting the address from 01 to 159
- Base adaptor for surface mounting available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	max. 450µA (sounder and strobe off)
(DIN tone, strobe)	max. 5.5mA (low sound level)
	max. 7.1mA (medium sound level)
	max. 8.2mA (high sound level)
Sound level	
(detector mounted, DIN tone)	max. 86dB(A) / 1m distance (high sound level)
Flash frequency	1Hz
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 93% (no condensation)
Protection class	IP24 (IP44 with base adaptor)
Dimensions Ø × H	121 × 57 (mm) (without detector)
Colour housing / cap	white / red
Weight	200g
Approvals (EN 54-3)	VdS G212158
	LPCB 166j/04
	2831-CPR-1954

Cross-references	Page	Art.No.	Name Type
	99	359053	Base Sounder/Strobe/IP44/white BPW
	89	246039	Detector Base/500/200AP B501AP
	98	359045	Lid for Sounder/200/10pcs. IBS-LIDPW-10X

355264 Sounder-Strobe/WB/200AP/wh/re/N BSS-PR-N

The structure of the addressable sounder with strobe BSS-PR-N is identical to that of the Sounder-Strobe BSS-PR-I, but the BSS-PR-N does not contain a dual-isolator.

Specifications (for further specifications, see BSS-PR-I)

Current consumption from loop	max. 450µA (sounder and strobe off)
(DIN tone, strobe)	max. 5.3mA (low sound level)
	max. 6.9mA (medium sound level)
	max. 8.0mA (high sound level)
Approvals (EN 54-3)	VdS G212157
	LPCB 166h/04
	2831-CPR-1950

355273 Sounder-Str/WB/200API/wh/cl/re/O DSS-PC-I

The structure of the addressable sounder with strobe DSS-PC-I is identical to that of the Sounder-Strobe BSS-PR-I, but the DSS-PC-I has a clear cap and red light.

The strobe has been tested according to EN 54-23 Class O (open class).

Specifications (for further specifications, see BSS-PR-I)

EN 54-23 Category O-3-2.2 – ceiling mounting	
Mounting height	max. 3m
Colour housing / cap	white / clear
Light colour	red
Approvals	LPCB 166r/02
	0832-CPR-F2090

Cross-references	Page	Art.No.	Name Type
	99	359053	Base Sounder/Strobe/IP44/white BPW
	89	246039	Detector Base/500/200AP B501AP
	98	359045	Lid for Sounder/200/10pcs. IBS-LIDPW-10X

355272 Sounder-Str/WB/200AP/wh/cl/re/O DSS-PC-N

The structure of the addressable multitone sounder with strobe DSS-PC-N is identical to that of the Sounder-Strobe BSS-PR-I, but the DSS-PC-N does not contain a dual-isolator and it has a clear cap and red light.

The strobe has been tested according to EN 54-23 Class O (open class).

Specifications (for further specifications, see BSS-PR-I)

Current consumption from loop	max. 450µA (sounder and strobe off)
(DIN tone, strobe)	max. 5.3mA (low sound level)
	max. 6.9mA (medium sound level)
	max. 8.0mA (high sound level)
EN 54-23 Category O-3-2.2 – ceiling mounting	
Mounting height	max. 3m
Colour housing / cap	white / clear
Light colour	red
Approvals	LPCB 166s/02
	0832-CPR-F2086

355266 Sounder-Strobe/WB/200APl/wh/am/N BSS-PA-I

The structure of the addressable sounder with strobe BSS-PA-I is identical to that of the Sounder-Strobe BSS-PR-I, but the BSS-PA-I has an orange cap.

Specifications (for further specifications, see BSS-PR-I)

Colour housing / cap	white / orange

356156 Strobe/WM/200APl/white/clear/red/O WST-PC-I

The addressable red strobe is integrated in a white plastic housing with clear cap. The strobe is actuated and powered via the loop with System Sensor protocol. The unit is designed to be inserted into a standard detector base B501AP and is suitable for indoor and outdoor wall mounting.

If a Fire Detection Control Panel Series BC600 actuates several strobes in parallel, they are synchronised by the control panel to generate a uniform light pulse. A dual-isolator is integrated in the strobe. At short circuit, it maintains the function of loop elements that are not affected by the short circuit.

The strobe has been tested according to EN 54-23 Class O (open class).

Features

- Low power consumption due to the use of LEDs
- 2 decadic rotary switches for setting the address from 01 to 159
- Base adapators for protection classes IP44 and IP65 available

Specifications

Operating voltage	supplied through the loop voltage
Current consumption from loop	max. 450µA (strobe off)
	max. 4.1mA (strobe active)
Flash frequency	1Hz
EN 54-23 Category O-2.4-2 – wall mounting	
Mounting height	max. 2.4m
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 93% (no condensation)
Protection class	IP24 (IP44 - IP65 with base adapter)
Dimensions Ø × D	121 × 51 (mm)
Colour housing / cap	white / clear
Light colour	red
Weight	170g
Approvals	VdS G216053
	LPCB 166m/01
	2831-CPR-F0270

Cross-references	Page	Art.No.	Name Type
	99	359053	Base Sounder/Strobe/IP44/white BPW
	100	359054	Base Sounder/Strobe/IP65/white WPW
	89	246039	Detector Base/500/200AP B501AP

356155 Strobe/WM/200AP/white/clear/red/O WST-PC-N

The structure of the addressable red Strobe WST-PC-N is identical to that of the Strobe WST-PC-I, but the WST-PC-N does not contain a dual-isolator.

Specifications (for further specifications, see WST-PC-I)

Current consumption from loop	max. 450µA (strobe off)
	max. 3.9mA (strobe active)
Approvals	VdS G216052
	LPCB 166n/01
	2831-CPR-F0273

356154 Strobe/WM/200API/white/amber/N WST-PA-I

The addressable orange strobe is integrated in a white plastic housing with orange cap. The strobe is actuated and powered via the loop with System Sensor protocol. The unit is designed to be inserted into a standard detector base B501AP and is suitable for indoor and outdoor mounting.

If a Fire Detection Control Panel Series BC600 actuates several strobes in parallel, they are synchronised by the control panel to generate a uniform light pulse. A dual-isolator is integrated in the strobe. At short circuit, it maintains the function of loop elements that are not affected by the short circuit.

Features
- Integrated dual-isolator
- Low power consumption due to the use of LEDs
- 2 decadic rotary switches for setting the address from 01 to 159
- Base adaptors for protection classes IP44 and IP65 available

Specifications

Operating voltage	supplied through the loop voltage
Current consumption from loop	max. 450µA (strobe off)
	max. 4.1mA (strobe active)
Flash frequency	1Hz
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 93% (no condensation)
Protection class	IP24 (IP44 - IP65 with base adapator)
Dimensions Ø × D	121 × 51 (mm)
Colour cap	orange
Weight	170g

Cross-references	Page	Art.No.	Name Type
	99	359053	Base Sounder/Strobe/IP44/white BPW
	100	359054	Base Sounder/Strobe/IP65/white WPW
	89	246039	Detector Base/500/200AP B501AP

356158 Strobe/WM/200API/wh/cl/wh/WC VAD-PC-I

The addressable white strobe is integrated in a white plastic housing with clear cap. The strobe is actuated and powered via the loop with System Sensor protocol. The unit is designed to be inserted into a standard detector base B501AP and is suitable for indoor and outdoor mounting.

The strobe has been tested according to EN 54-23 Classes W+C (wall+ceiling) and therefore this single type is suitable both for wall mounting as well as for ceiling mounting. The signalling device is used if optical alarming according to EN 54-23 is required. Thanks to the optimised design of the cap, the strobe evenly emits light in all directions, and therefore it can be mounted in any orientation.

If a Fire Detection Control Panel Series BC600 actuates several strobes in parallel, they are synchronised by the control panel to generate a uniform light pulse. A dual-isolator is integrated in the strobe. At short circuit, it maintains the function of loop elements that are not affected by the short circuit.

Features
- White very high-performance LEDs
- Low power consumption due to the use of LEDs
- 2 decadic rotary switches for setting the address from 01 to 159
- Base adapators for protection classes IP44 and IP65 available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	max. 450µA (strobe off)
	max. 40mA (strobe active)
Flash frequency	0.5Hz
EN 54-23 Category W-2.4-2.76 – wall mounting	
Mounting height	max. 2.4m
Room size	max. 2.76m × 2.76m
EN 54-23 Category C-3-5.1 – ceiling mounting	
Mounting height	max. 3m
Room size	max. Ø 5.1m, equals max. 3.6m × 3.6m
EN 54-23 Category C-6-5.1 – ceiling mounting	
Mounting height	max. 6m
Room size	max. Ø 5.1m, equals max. 3.6m × 3.6m
EN 54-23 Category C-9-5.1 – ceiling mounting	
Mounting height	max. 9m
Room size	max. Ø 5.1m, equals max. 3.6m × 3.6m
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 93% (no condensation)
Protection class	IP24 (IP44 - IP65 with base adapter)
Dimensions Ø × D	121 × 51 (mm)
Colour housing / cap	white / clear
Light colour	white
Weight	180g
Approvals	LPCB 166m/02
	2831-CPR-F1210

Cross-references	Page	Art.No.	Name Type
	99	359053	Base Sounder/Strobe/IP44/white BPW
	100	359054	Base Sounder/Strobe/IP65/white WPW
	89	246039	Detector Base/500/200AP B501AP

356157 Strobe/WM/200AP/wh/cl/wh/WC VAD-PC-N

The structure of the addressable white Strobe VAD-PC-N is identical to that of the Strobe VAD-PC-I, but the VAD-PC-N does not contain a dual-isolator.

Specifications (for further specifications, see VAD-PC-I)

Approvals	LPCB 166n/06
	2831-CPR-F1211

9 Accessories for Series 300/ECO1000/200AP/500

246008

Detector Base/400/300/100 B401RM1000

The Detector Base B401RM1000 is used to accommodate automatic fire detectors Series 400, 300 and 100 in addressable conventional technology. The base is designed for indoor surface mounting.

Features
- Multi-wire terminals with secure screw fitting
- Auxiliary contact for the through connection of the detector line when the detector is removed
- Terminal for external remote indicator
- Individual detector addressing by installing an optional Address Module NG58-1
- Mechanical theft protection can be activated

Specifications

Ambient temperature	-20°C to +70°C
Relative humidity	10 to 93% (no condensation)
Dimensions Ø × H	102 × 20 (mm)
Colour	cream
Weight	55g

Cross-references	Page	Art.No.	Name	Type
	95	249020	Address Module Conventional NG58-1	

9

246019

Detector Base 400/300/100 B401DGR1000

The Detector Base B401DGR1000 is designed to accommodate automatic fire detectors Series 400, 300 and 100 in addressable conventional technology. The deep base is suitable for indoor surface mounting and can also be used with thick cables.

Features
- Multi-wire terminal with secure screw fitting
- Auxiliary contact for the through connection of the detector line when the detector is removed
- Terminal for external remote indicator
- Individual detector addressing by installing an optional Address Module NG58-1
- Mechanical theft protection can be activated

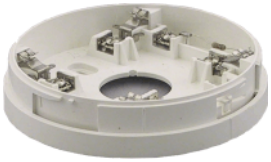
Specifications

Ambient temperature	-20°C to +70°C
Relative humidity	10 - 93% (no condensation)
Dimensions Ø × H	102 × 26 (mm)
Colour	cream
Weight	59g

Cross-references	Page	Art.No.	Name	Type
	95	249020	Address Module Conventional NG58-1	

246140

Detector Base/1000 ECO1000BR1000



The Detector Base ECO1000BR1000 is used to accommodate automatic fire detectors Series ECO1000 and is suitable for indoor surface mounting.

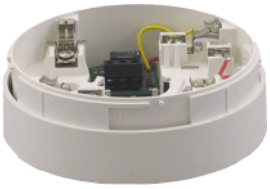
Features
- Multi-wire terminals with secure screw fitting
- Auxiliary contact for the through connection of the detector line when the detector is removed
- Terminal for external remote indicator
- Individual detector addressing by installing an optional Address Module NG58-1

Specifications

Ambient temperature	-30°C to +70°C
Relative humidity	5 to 95% (no condensation)
Dimensions Ø × H	102 × 21 (mm)
Colour	white
Weight	44g

Cross-references	Page	Art.No.	Name	Type
	95	249020	Address Module Conventional NG58-1	

246141 Detector Base/1000/Relay/Latching ECO1000BREL24L



The Detector Base ECO1000BREL24L with integrated relay output is used to accommodate automatic fire detectors Series ECO1000 and is suitable for indoor surface mounting. The detector base is designed for the connection to control panels with a 24VDC operating voltage. The relay output is activated by the alarm condition of the inserted detector and remains in the activated state as long as the alarm is not reset on the fire detection control panel. Application must comply with the LST Connection of Detectors.

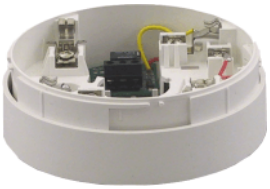
Features
- Multi-wire terminals with secure screw fitting
- Auxiliary contact for the through connection of the detector line when the detector is removed
- Relay output with dry changeover contact

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	1µA (quiescent); 30mA (active)
Contact rating	1A at 30VDC
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 93% (no condensation)
Dimensions Ø × H	102 × 33 (mm)
Colour	white
Weight	70g

9

246142 Detector Base/1000/Relay/Latching ECO1000BREL12L



The Detector Base ECO1000BREL12L with integrated relay output is used to accommodate automatic fire detectors Series ECO1000 and is suitable for indoor surface mounting. The detector base is designed for the connection to control panels with a 12VDC operating voltage and must therefore not be connected to Fire Detection Control Panels Series BC06, BC016, BC600 and BC216. The relay output is activated by the alarm condition of the inserted detector and remains in the activated state as long as the operating voltage has not been (shortly) interrupted.

Features
- Multi-wire terminals with secure screw fitting
- Relay output with dry changeover contact

Specifications

Operating voltage	10 to 15VDC
Current consumption	typ. 1µA (quiescent), 25mA (active)
Contact rating	1A at 30VDC
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 93% (no condensation)
Dimensions Ø × H	102 × 33 (mm)
Colour	white
Weight	70g

246143 Detector Base/1000/Relay ECO1000BREL12NL

The Detector Base ECO1000BREL12NL is identical to the base ECO1000BREL12L, but both the detector and the relay output are automatically reset several seconds after the fire detection.

246039 Detector Base/500/200AP B501AP

The Detector Base B501AP is designed to accommodate automatic fire detectors Series 500, 200-Advanced and 200. The base is suitable for indoor surface mounting and for cable diameters up to 8mm.

Features
- Connection to the loop using System Sensor protocol
- Multi-wire terminal with secure screw fitting
- Terminal for external remote indicator
- Mechanical theft protection can be activated
- Label plate can be broken off

Specifications

Ambient temperature	-30°C to +70°C
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	102 × 22 (mm)
Colour	white
Weight	39g

Cross-references	Page	Art.No.	Name Type
	92	249120	Conduit Adapter for Detector Base BA1AP
	92	246167	Recessed Mounting Kit/200AP RMK400AP
	92	246161	Surface Mounting Kit/200AP/AP SMK400EAP
	93	246160	Wet Base Shroud/200AP WB-1AP

246013 Isolator Detector Base/500/200 B524IEFT-1

The Detector Base B524IEFT-1 with integrated dual-isolator is used to accommodate automatic fire detectors Series 500, 200-Advanced and 200. The base is suitable for indoor surface mounting.

If a short circuit appears between two isolator modules, the defective area is separated from the loop and operation of all other connected detectors and modules is guaranteed. For optimum availability, the detector zones on the loop should be separated from each other by isolator modules.

Features
- Connection to the loop using System Sensor protocol
- Multi-wire terminals with secure screw fitting
- Terminal for external remote indicator
- Mechanical theft protection can be activated

Specifications

Current consumption	max. 100µA (quiescent)
Ambient temperature	-30°C to +70°C
Relative humidity	10 to 93% (no condensation)
Dimensions Ø × H	102 × 26 (mm)
Colour	cream
Weight	70g
Approval	VdS G200100 LPCB 199x/01 2831-CPR-F1974

246164 Detector Base/500/200/Heater B524HTR-W

The Detector Base B524HTR-W is designed to accommodate optical smoke detectors Series 200-Advanced. Thanks to the integrated heating elements, the base is suitable for surface mounting in very moist areas (e.g., loading ramps, cable ducts). The heating elements are powered by an external power supply.

Features
- Connection to the loop using System Sensor protocol
- Multi-wire terminals with secure screw fitting
- Terminal for external remote indicator
- Mechanical theft protection can be activated

Specifications

Operating voltage for heating	20 to 30VAC/DC
Current consumption at 24V	typ. 80mA
Ambient temperature	-30°C to +60°C
Relative humidity	10 to 95% (no condensation)
Dimensions Ø × H	102 × 35 (mm)
Colour	white
Weight	90g

246113 Zonal Display Unit/300 S300ZDU

The Zonal Display Unit S300ZDU allows for the numerical display of the activated detectors' addresses on a conventional detector line built from Series 300 fire detectors. If more than one detector is in the alarm state, the addresses are automatically scrolled. In addition, the zonal display unit detects and displays wiring errors between control panel and zonal display unit as well as short circuits in the detector line.

Features
- Multiple alarm display
- 4-digit display
- Remote installation (always before the first detector)

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 100µA (own consumption without detector)
Ambient temperature	-10°C to +50°C
Relative humidity	5 to 95% (no condensation)
Protection class	IP51
Dimensions W × H × D	137 × 132 × 40 (mm)
Colour	cream
Weight	170g

9

246117 NEW Programming and Test Unit/300 S300PTU

The hand-held programming device is used for setting and reading the parameters of Series 300 detectors. The device can exchange data with a Series 300 detector over short distances. On the programming unit, date and time can be set. This date information can be stored in the maintained detector as timestamp of the latest maintenance date.

Features
- Setting of date and time in the device
- Setting of the detector address
- Setting of the response sensitivity (only possible with 2351E and 2351TEM)
- Setting of the maintenance date
- Indication of the detector contamination (only possible with 2351E and 2351TEM)
- Indication of the detector status (separately for smoke and temperature value with 2351TEM)
- Indication of the latest maintenance date
- Function test (test activation) of Series 300 detectors

Specifications

Power supply	3 batteries 1.5V, type AAA
Ambient temperature	-10°C to +50°C
Relative humidity	5 - 95% (no condensation)
Dimensions L × W × H	128 × 58 × 20 (mm)
Weight	100g

246150 Remote Test Unit/300/1000 ECO1000RTU

The hand-held laser test unit is used for easy test activation of System Sensor Series 300 and ECO1000 detectors.

Features
- Range of several metres
- Simple handling due to visible laser beam

Specifications

Operating voltage	6VDC (battery type V11GA)
Dimensions L × W × H	82 × 30 × 15 (mm)
Weight	30g

Cross-references	Page	Art.No.	Name Type
	92	249212	Battery For ECO1000RTU 6V-V11GA

249212 Battery For ECO1000RTU 6V-V11GA

The 6V battery is used for supply of the Remote Test Unit ECO1000RTU.

Features
- High quality alkaline battery
- Low self-discharge
- Long lifespan

Specifications

Dimensions L × Ø	16 × 10 (mm)

Cross-references	Page	Art.No.	Name Type
	91	246150	Remote Test Unit/300/1000 ECO1000RTU

246161 Surface Mounting Kit/200AP/AP SMK400EAP

The white supplement base is needed in addition to the detector bases B501AP, B524HTR-W or B524RTE-W when they are surface mounted using cable conduits or thick cables. The supplement base is prepared for the use of cable glands M20.

Specifications

Dimensions Ø × H	103 × 34 (mm)
Colour	white
Weight	90g

Cross-references	Page	Art.No.	Name Type
	90	246164	Detector Base/500/200/Heater B524HTR-W
	89	246039	Detector Base/500/200AP B501AP

246167 Recessed Mounting Kit/200AP RMK400AP

The white mounting accessory is needed as supplement to detector bases B501AP, when they are flush mounted in false ceilings.

Specifications

Dimensions Ø × H	144 × 40 (mm)
Colour	white
Weight	90g

Cross-references	Page	Art.No.	Name Type
	89	246039	Detector Base/500/200AP B501AP

249120 Conduit Adapter for Detector Base BA1AP

The conduit adapter facilitates surface cabling of a Detector Base Series B501AP when using cable conduits with an outer diameter of 20mm. Prior to installation, the conduit adapter is attached to the detector base.

Cross-references	Page	Art.No.	Name Type
	89	246039	Detector Base/500/200AP B501AP

246160 Wet Base Shroud/200AP WB-1AP

The white Wet Base Shroud WB-1AP is used for mounting the detector bases B501AP, B524HTR-W or B524RTE-W in damp locations. The wet base shroud is prepared for the use of cable glands PG11 or M16.

Specifications

Dimensions Ø × H	105 × 70 (mm)
Colour	white
Weight	100g

Cross-references	Page	Art.No.	Name Type
	90	246164	Detector Base/500/200/Heater B524HTR-W
	89	246039	Detector Base/500/200AP B501AP

249108 Surface Mounting Box M200E-SMB

The plastic mounting box is designed for the surface mounting of a module Series M200.

Specifications

Protection class	IP50
Dimensions L × W × H	132 × 137 × 48 (mm)
Colour	cream/transparent smoke-coloured
Weight	140g

Cross-references	Page	Art.No.	Name Type
	72	249103	Control Module 1xSurv.Out/200AP M201E
	74	249104	Conventional Zone Module/200AP M210E-CZ
	74	249107	Conventional Zone Module/200AP M210E-CZR
	71	249102	Module 2xSurv.In 1xRel.Out/200AP M221E
	70	249100	Monitor Module 1xSurv.In/200AP M210E
	70	249101	Monitor Module 2xSurv.In/200AP M220E

249111 Surface Mounting Box For M200 M200E-SMB-KO

The plastic mounting box is designed for the surface mounting of a module Series M200. A protected cable entrance is possible with the help of 5 integrated grommets.

Specifications

Protection class	IP50
Dimensions L × W × H	132 × 137 × 48 (mm)
Colour	cream/transparent smoke-coloured
Weight	250g

Cross-references	Page	Art.No.	Name Type
	72	249103	Control Module 1xSurv.Out/200AP M201E
	74	249104	Conventional Zone Module/200AP M210E-CZ
	74	249107	Conventional Zone Module/200AP M210E-CZR
	71	249102	Module 2xSurv.In 1xRel.Out/200AP M221E
	70	249100	Monitor Module 1xSurv.In/200AP M210E
	70	249101	Monitor Module 2xSurv.In/200AP M220E

249109 Base for Mounting Plate/M200 M200E-PMB

The mounting base M200E-PMB is attached onto a Series M200 module. The module can thus be mounted upright on every even surface.

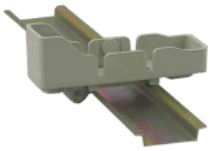
Specifications

Dimensions L × W × H	85 × 25 × 22 (mm)
Colour	cream
Weight	10g

Cross-references	Page	Art.No.	Name Type
	72	249103	Control Module 1xSurv.Out/200AP M201E
	74	249104	Conventional Zone Module/200AP M210E-CZ
	74	249107	Conventional Zone Module/200AP M210E-CZR
	71	249102	Module 2xSurv.In 1xRel.Out/200AP M221E
	70	249100	Monitor Module 1xSurv.In/200AP M210E
	70	249101	Monitor Module 2xSurv.In/200AP M220E

249110

Base for Carrier Rail/M200 M200E-DIN



The mounting base M200E-DIN is attached onto a Series M200 module. The module can thus be mounted (snapped on) upright on standardised 35mm DIN rails.

Specifications

Dimensions L × W × H	85 × 25 × 22 (mm)
Colour	cream
Weight	10g

Cross-references	Page	Art.No.	Name Type
	72	249103	Control Module 1xSurv.Out/200AP M201E
	74	249104	Conventional Zone Module/200AP M210E-CZ
	74	249107	Conventional Zone Module/200AP M210E-CZR
	71	249102	Module 2xSurv.In 1xRel.Out/200AP M221E
	70	249100	Monitor Module 1xSurv.In/200AP M210E
	70	249101	Monitor Module 2xSurv.In/200AP M220E

249117

Surface Mounting Box/Multi Modules M200-SMB-MM

The powder coated sheet steel mounting box is designed to accommodate a System Sensor multi module IM-10EA or CR-6EA. On both long sides, 7 knock-outs (Ø 19mm) for cable glands PG11 are available.

Specifications

Dimensions L × W × H	285 × 225 × 62 (mm)
Colour	cream
Weight	2kg

Cross-references	Page	Art.No.	Name Type
	73	249116	Control Module 6xRel.Out/200AP CR-6EA
	71	249115	Monitor Module 10xSurv.In/200AP IM-10EA

249118

Surface Mounting Box SMB6-V0

The surface mounting box is made of plastic and is designed to accommodate up to 6 modules Series M200 or one multi module IM-10EA or CR-6EA. The modules Series M200 are plugged into the fastening devices of the box, a multi module is screwed onto the plastic bolts of the housing by means of the included screws. Thanks to the transparent cover of the mounting box, the status LED as well as the address switches of the modules are visible.

Specifications

Dimensions L × W × H	245 × 170 × 100 (mm)
Colour	cream/transparent smoke-coloured
Weight	590g

Cross-references	Page	Art.No.	Name Type
	72	249103	Control Module 1xSurv.Out/200AP M201E
	73	249116	Control Module 6xRel.Out/200AP CR-6EA
	74	249104	Conventional Zone Module/200AP M210E-CZ
	74	249107	Conventional Zone Module/200AP M210E-CZR
	71	249102	Module 2xSurv.In 1xRel.Out/200AP M221E
	71	249115	Monitor Module 10xSurv.In/200AP IM-10EA
	70	249100	Monitor Module 1xSurv.In/200AP M210E
	70	249101	Monitor Module 2xSurv.In/200AP M220E

249119 Mounting Chassis/Multi Modules CH-6

The mounting bracket is made of sheet steel and is used for mounting of up to 6 multi modules IM-10EA or CR-6EA. The modules are put into the slots of the mounting bracket and fastened by means of screws or threaded bolts. The mounting bracket is designed for installation in a switch cabinet.

Specifications

Dimensions W × H × D	483 × 192 × 55 (mm)
Weight	1.3kg

Cross-references	Page	Art.No.	Name Type
	73	249116	Control Module 6xRel.Out/200AP CR-6EA
	71	249115	Monitor Module 10xSurv.In/200AP IM-10EA

249004 Surface Mounting Box SMB500

The plastic mounting box is designed for the surface mounting of a module Series 500.

Specifications

Dimensions W × H × D	125 × 124 × 55 (mm)
Colour	cream
Weight	155g

Cross-references	Page	Art.No.	Name Type
	194	228007	Protocol Interface/200 IST200

249027 Detector Base/500/200/Heater MH500-1

The mounting base with included heating is used for the application of System Sensor Series 500 or 200 automatic smoke detectors in extremely moist areas (e.g., loading ramps, cable ducts). A detector base with area heater and connection terminals with a remote indicator are mounted together on a mounting plate.

Features
- Connection terminals for all incoming and outgoing cables
- Detector base pre-wired on the terminals
- Additional remote indicator on the connection terminals

Specifications

Operating voltage	max. 48VAC
Power consumption	12W
Dimensions L × W × H	310 × 175 × 120 (mm)
Weight	1.3kg

Cross-references	Page	Art.No.	Name Type
	154	249014	PSU For Detector Heater MH-TR1

249020 N. F. N.S. Address Module Conventional NG58-1

The electronic component is needed for the application in addressable conventional technology and serves for the individual or group identification of Series FC600, FC650, 100, 300 and ECO1000 automatic conventional detectors as well as manual call points, special detectors and other contact-activating devices.

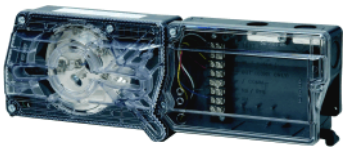
Features
- Double-digit indication of the detector number and parameterised clear text on the display of a compatible fire detection control panel
- Detector number setting from 0 to 63
- Open-collector output for triggering a remote indicator
- Alternatively applicable for individual detector addressing or identification of a detector group

Specifications

Current consumption at 24V	18mA (active)
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	32 × 19 × 5 (mm) without leads
Weight	10g

Cross-references	Page	Art.No.	Name Type
	88	246140	Detector Base/1000 ECO1000BR1000
	88	246008	Detector Base/400/300/100 B401RM1000
	36	246070	Detector Base/600 FC600/BR
	88	246019	Detector Base 400/300/100 B401DGR1000

244061 Duct Detector Housing/300 D2E



The Duct Detector D2E monitors ventilation ducts or air conditioning channels. A small amount of air is conducted into the detector housing via an air inlet pipe, directed to an optical smoke detector, and is released into the ventilation duct again via the air escape pipe.

A detector base, into which an Optical Smoke Detector 2351E can be inserted, is installed in the plastic housing. The detector is connected to the fire detection control panel via a conventional detector line. The air inlet pipe is not provided with the duct detector and has to be selected according to the duct size (see cross-references). The air escape pipe is enclosed with the detector housing.

Without using any tools, both pipes can be snapped into place in the duct detector housing, either from inside or from outside, and can just as easily be removed. In this way, the inlet and outlet openings can be cleaned effortlessly.

Note: If addressable conventional technology is used, the built-in base must be replaced with a Detector Base B401RM1000 into which an Address Module NG58-1 has to be installed.

In order to mount the duct detector on ventilation ducts with circular cross section, with small diameter or with a jacket made of insulating material, the Duct Detector Bracket FI750/DDH-2/BRA can be adapted. For this purpose, additional holes have to be drilled into the duct detector bracket and the duct detector housing.

Features

- Two-part detector housing allows installation in rectangular or square form
- Transparent cover for optical recognition of detector activation
- Terminal for external remote indicator
- Tamper switch for monitoring of the transparent cover
- Easy function testing using test gas

Specifications

Air velocity	1.5 to 20.3m/s
Ambient temperature	-20°C to +60°C
Protection class	IP40
Dimensions W × H × D	
Installed in rectangular form	365 × 125 × 68 (mm)
Installed in square form	197 × 229 × 68 (mm)
Weight (without detector)	730g

Cross-references	Page	Art.No.	Name Type
	95	249020	Address Module Conventional NG58-1
	88	246008	Detector Base/400/300/100 B401RM1000
	40	244084	Duct Detector Bracket FI750/DDH-2/BRA
	97	244062	Duct Detector Pipe/0.3m DST1
	98	244063	Duct Detector Pipe/0.45m DST1.5
	98	244065	Duct Detector Pipe/1.5m DST5
	98	244064	Duct Detector Pipe/1m DST3
	98	244066	Duct Detector Pipe/3m DST10
	44	241040	Optical Smoke Detector/300 2351E

244060 Duct Detector Housing/200 DNRE

The Duct Detector DNRE monitors ventilation ducts or air conditioning channels. A small amount of air is conducted into the detector housing via an air inlet pipe, directed to an optical smoke detector, and is released into the ventilation duct again via the air escape pipe.

A detector base, into which an Optical Smoke Detector ND22051E or ND22051EI can be inserted, is installed in the plastic housing. In applications which require a detector with a very high sensitivity, alternatively an Optical Laser Smoke Detector F-SEN-SSE can be installed. In this case, the integrated detector base must be replaced with the lower base B501. Communication with the fire detection control panel is established via the loop using System Sensor protocol. The air inlet pipe is not provided with the duct detector and has to be selected according to the duct size (see cross-references). The air escape pipe is enclosed with the detector housing.

Without using any tools, both pipes can be snapped into place in the duct detector housing, either from inside or from outside, and can just as easily be removed. In this way, the inlet and outlet openings can be cleaned effortlessly.

In order to mount the duct detector on ventilation ducts with circular cross section, with small diameter or with a jacket made of insulating material, the Duct Detector Bracket FI750/DDH-2/BRA can be adapted. For this purpose, additional holes have to be drilled into the duct detector bracket and the duct detector housing.

Features
- Two-part detector housing allows installation in rectangular or square form
- Transparent cover for optical recognition of detector activation
- Terminal for external remote indicator
- Tamper switch for monitoring of the transparent cover
- Easy function testing using a magnet or test gas

Specifications

Air velocity	1.5 to 20.3m/s
Ambient temperature	-20°C to +60°C
Protection class	IP40
Dimensions W × H × D	
Installed in rectangular form	365 × 125 × 68 (mm)
Installed in square form	197 × 229 × 68 (mm)
Weight (without detector)	730g

Cross-references	Page	Art.No.	Name Type
	40	244084	Duct Detector Bracket FI750/DDH-2/BRA
	97	244062	Duct Detector Pipe/0.3m DST1
	98	244063	Duct Detector Pipe/0.45m DST1.5
	98	244065	Duct Detector Pipe/1.5m DST5
	98	244064	Duct Detector Pipe/1m DST3
	98	244066	Duct Detector Pipe/3m DST10
	257	241124	Optical Laser Smoke Detector/Extra F-SEN-SSE
	52	241110	Optical Smoke Detector/200AP/ISM ND22051EI
	53	241111	Optical Smoke Detector/200AP ND22051E

244062 Duct Detector Pipe/0.3m DST1

The air inlet pipe is designed for use with the Duct Detector Housings DNRE and D2E and is provided with standardised air intake holes. The pipe is suitable for ventilation ducts with a depth of up to 0.45m and can be cut to the desired length.

Specifications

Material	steel, galvanised
Dimensions Ø × L	18 × 300 (mm)
Weight	140g

244063 Duct Detector Pipe/0.45m DST1.5

The air inlet pipe is designed for use with the Duct Detector Housings DNRE and D2E and is provided with standardised air intake holes. The pipe is suitable for ventilation ducts with a depth of between 0.45 and 0.6m and can be cut to the desired length.

Specifications

Material	steel, galvanised
Dimensions Ø × L	18 × 450 (mm)
Weight	210g

244064 Duct Detector Pipe/1m DST3

The air inlet pipe is designed for use with the Duct Detector Housings DNRE and D2E and is provided with standardised air intake holes. The pipe is suitable for ventilation ducts with a depth of between 0.6 and 1.5m and can be cut to the desired length.

Specifications

Material	steel, galvanised
Dimensions Ø × L	18 × 1000 (mm)
Weight	470g

244065 Duct Detector Pipe/1.5m DST5

The air inlet pipe is designed for use with the Duct Detector Housings DNRE and D2E and is provided with standardised air intake holes. The pipe is suitable for ventilation ducts with a depth of between 1.5 and 2.3m and can be cut to the desired length.

Specifications

Material	steel, galvanised
Dimensions Ø × L	18 × 1500 (mm)
Weight	700g

244066 Duct Detector Pipe/3m DST10

The air inlet pipe is designed for use with the Duct Detector Housings DNRE and D2E and is provided with standardised air intake holes. The pipe is suitable for ventilation ducts with a depth of between 2.3 and 4.5m and can be cut to the desired length.

Specifications

Material	steel, galvanised
Dimensions Ø × L	18 × 3000 (mm, delivered in two parts)
Weight	1.5kg

359045 Lid for Sounder/200/10pcs. IBS-LIDPW-10X

The white cover lid is used to cover and protect a detector base sounder Series IBS and BS if no detector is inserted, as well as to cover a detector base Series 100, 200, 300, 400 or 500 if the detector has been removed permanently.

Specifications

Dimensions Ø × H	102 × 10 (mm)
Colour	white

359060 Lid for Sounder 200/FBRI 200/FB/COVER/W

The white cover plate is used to cover and protect a Sounder 200/FBRI/SOUW if no detector base has been installed on the sounder. The cover can be permanently fixed by means of a set screw.

Specifications

Dimensions Ø × H	106 × 15 (mm)
Colour	white
Weight	18g

359061 Lid for Sounder 200/FBRI 200/FB/COVER/R

The red cover plate is used to cover and protect a Sounder 200/FBRI/SOUW if no detector base has been installed on the sounder. The cover can be permanently fixed by means of a set screw.

Specifications

Dimensions Ø × H	106 × 15 (mm)
Colour	red
Weight	18g

359051 Base Sounder/Strobe/IP44/red BRR

The base adaptor BRR is prepared to support a standard detector base B501AP and serves for the surface mounting of sounders and strobes Series WS. Due to the design of the base adaptor, cable entry is possible from the back or from the side. The standard base B501AP is delivered with the base adaptor.

Specifications

Ambient temperature	-25°C to +70°C
Protection class	IP44
Dimensions Ø × D	122 × 54 (mm)
Additional depth of signalling devices	40mm
Colour	red
Weight incl. B501AP	115g

359052 Base Sounder/Strobe/IP65/red WRR

The base adaptor WRR with protection class IP65 is prepared to support a standard detector base B501AP and serves for the indoor and outdoor wall mounting of sounders and strobes Series WS. Due to the design of the base adaptor, cable entry is possible from the back or from the side. The standard base B501AP is delivered with the base adaptor.

Specifications

Ambient temperature	-25°C to +70°C
Protection class	IP65
Dimensions Ø × D	122 × 54 (mm)
Additional depth of signalling devices	40mm
Colour	red
Weight incl. B501AP	135g

359053 Base Sounder/Strobe/IP44/white BPW

The base adaptor BPW is prepared to support a standard detector base B501AP and serves for the surface mounting of sounders, detector base sounders and strobes Series WS and BS. Due to the design of the base adaptor, cable entry is possible from the back or from the side. The standard base B501AP is delivered with the base adaptor.

Specifications

Ambient temperature	-25°C to +70°C
Protection class	IP44
Dimensions Ø × D	122 × 54 (mm)
Additional depth of signalling devices	40mm
Colour	white
Weight incl. B501AP	115g

359054 Base Sounder/Strobe/IP65/white WPW

The base adaptor WPW with protection class IP65 is prepared to support a standard detector base B501AP and serves for the indoor and outdoor wall mounting of sounders and strobes Series WS. Due to the design of the base adaptor, cable entry is possible from the back or from the side. The standard base B501AP is delivered with the base adaptor.

Specifications

Ambient temperature	-25°C to +70°C
Protection class	IP65
Dimensions Ø × D	122 × 54 (mm)
Additional depth of signalling devices	40mm
Colour	white
Weight incl. B501AP	135g

10 Conventional Detectors Series ORBIS

Conventional detectors Series 65 are still available on request.

241060 NEW

Optical Smoke Detector/Orbis OP-12001

The Optical Smoke Detector OP-12001 operates with an optical sensing chamber based on the principle of scattered light. The detector is designed for applications using conventional technology and is suitable for indoor mounting.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms. If the contamination of the sensing system is too heavy or if it is defective, the multicolour status LED on the detector will flash for approx. 4 minutes in yellow colour, after the detector line has been enabled.

Features
- Sealed electronics prevents false alarms caused by the environment
- Output for external remote indicator
- Mechanical theft protection
- Insect screen

10

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 65µA (quiescent)
Ambient temperature	-40°C to +70°C (no condensation or icing)
Relative humidity	0 to 98% (no condensation)
Dimensions Ø × H	100 × 31 (mm)
Colour	white
Weight	75g
Approval	VdS G204039 LPCB 010s/01 2531-CPR-CSP10968

Cross-references	Page	Art.No.	Name Type
	144	246042	Detector Base/Orbis MB-00001

241061 NEW

Optical-Thermal Detector/Orbis OH-13001

The Optical-Thermal Detector OH-13001 operates both with an optical sensing chamber based on the principle of scattered light as well as with a temperature sensor based on the heat principle. The detector is designed for applications using conventional technology and is suitable for indoor mounting.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms. If the contamination of the optical sensing system is too heavy or if it is defective, the multicolour status LED on the detector will flash for approx. 4 minutes in yellow colour, after the detector line has been enabled.

Features
- Sealed electronics prevents false alarms caused by the environment
- Output for external remote indicator
- Mechanical theft protection
- Insect screen

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 65µA (quiescent)
Ambient temperature	-40°C to +70°C (no condensation or icing)
Relative humidity	0 to 98% (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	80g
Approval	VdS G204040 LPCB 010t/01 2531-CPR-CSP11156

Cross-references	Page	Art.No.	Name Type
	144	246042	Detector Base/Orbis MB-00001

242030 NEW

Thermal RoR Detector/Orbis/A1R HT-11001

The Thermal RoR Detector HT-11001 reacts to temperature changes within defined periods of time (rate-of-rise principle) as well as to a maximum temperature of 57°C according to EN 54-5, Class A1R. The detector is designed for applications using conventional technology and is suitable for indoor mounting up to a maximum room height of 7.5m.

If the detector is faulty, the multicolour status LED on the detector will flash for approx. 4 minutes in yellow colour, after the detector line has been enabled.

Features
- Sealed electronics prevents false alarms caused by the environment
- Output for external remote indicator
- Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 65µA (quiescent)
Alarm temperature	57°C (maximum-heat component)
Application temperature	max. +50°C
Ambient temperature	-40°C to +70°C (no condensation or icing)
Relative humidity	0 to 98% (no condensation)
Dimensions Ø × H	100 × 36 (mm)
Colour	white
Weight	70g
Approvals	VdS G204033 LPCB 010r/01 2531-CPR-CSP10954

Cross-references	Page	Art.No.	Name Type
	144	246042	Detector Base/Orbis MB-00001

242031 NEW

Thermal Max Detector/Orbis/A2S HT-11002

The Thermal Max Detector HT-11002 reacts to a maximum temperature of 61°C according to EN 54-5, Class A2S. The detector is designed for applications using conventional technology and is suitable for indoor mounting up to a maximum room height of 6m.

If the detector is faulty, the multicolour status LED on the detector will flash for approx. 4 minutes in yellow colour, after the detector line has been enabled.

Features
- Sealed electronics prevents false alarms caused by the environment
- Output for external remote indicator
- Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 65µA (quiescent)
Alarm temperature	typ. 61°C
Application temperature	max. +50°C
Ambient temperature	-40°C to +70°C (no condensation or icing)
Relative humidity	0 to 98% (no condensation)
Dimensions Ø × H	100 × 36 (mm)
Colour	white
Weight	70g
Approvals	LPCB 010r/02 2531-CPR-CSP10959

Cross-references	Page	Art.No.	Name Type
	144	246042	Detector Base/Orbis MB-00001

242032 NEW

Thermal RoR Detector/Orbis/BR HT-11003

The Thermal RoR Detector HT-11003 reacts to temperature changes within defined periods of time (rate-of-rise principle) as well as to a maximum temperature of 75°C according to EN 54-5, Class BR. The detector is designed for applications using conventional technology and is suitable for indoor mounting up to a maximum room height of 6m.

If the detector is faulty, the multicolour status LED on the detector will flash for approx. 4 minutes in yellow colour, after the detector line has been enabled.

Features
- Sealed electronics prevents false alarms caused by the environment
- Output for external remote indicator
- Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 65µA (quiescent)
Alarm temperature	75°C (maximum-heat component)
Application temperature	max. +65°C
Ambient temperature	-40°C to +70°C (continuous operation, no condensation or icing)
Relative humidity	0 to 98% (no condensation)
Dimensions Ø × H	100 × 36 (mm)
Colour	white
Weight	70g
Approvals	LPCB 010r/03 2531-CPR-CSP10960

Cross-references	Page	Art.No.	Name Type
	144	246042	Detector Base/Orbis MB-00001

10

242033 NEW

Thermal Max Detector/Orbis/BS HT-11004

The Thermal Max Detector HT-11004 reacts to a maximum temperature of 75°C according to EN 54-5, Class BS. The detector is designed for applications using conventional technology and is suitable for indoor mounting up to a maximum room height of 6m.

If the detector is faulty, the multicolour status LED on the detector will flash for approx. 4 minutes in yellow colour, after the detector line has been enabled.

Features
- Sealed electronics prevents false alarms caused by the environment
- Output for external remote indicator
- Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 65µA (quiescent)
Alarm temperature	typ. 75°C
Application temperature	max. +65°C
Ambient temperature	-40°C to +70°C (continuous operation, no condensation or icing)
Relative humidity	0 to 98% (no condensation)
Dimensions Ø × H	100 × 36 (mm)
Colour	white
Weight	70g
Approvals	LPCB 010r/04 2531-CPR-CSP10961

Cross-references	Page	Art.No.	Name Type
	144	246042	Detector Base/Orbis MB-00001

242034 NEW

Thermal RoR Detector/Orbis/CR HT-11005

The Thermal RoR Detector HT-11005 reacts to temperature changes within defined periods of time (rate-of-rise principle) as well as to a maximum temperature of 90°C according to EN 54-5, Class CR. The detector is designed for applications using conventional technology and is suitable for indoor mounting up to a maximum room height of 6m.

If the detector is faulty, the multicolour status LED on the detector will flash for approx. 4 minutes in yellow colour, after the detector line has been enabled.

Features
- Sealed electronics prevents false alarms caused by the environment
- Output for external remote indicator
- Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 65µA (quiescent)
Alarm temperature	90°C (maximum-heat component)
Application temperature	max. +80°C
Ambient temperature	-40°C to +70°C (continuous operation, no condensation or icing)
Relative humidity	0 to 98% (no condensation)
Dimensions Ø × H	100 × 36 (mm)
Colour	white
Weight	70g
Approvals	LPCB 010r/05 2531-CPR-CSP10962

Cross-references	Page	Art.No.	Name Type
	144	246042	Detector Base/Orbis MB-00001

242035 NEW

Thermal Max Detector/Orbis/CS HT-11006

The Thermal Max Detector HT-11006 reacts to a maximum temperature of 90°C according to EN 54-5, Class CS. The detector is designed for applications using conventional technology and is suitable for indoor mounting up to a maximum room height of 6m.

If the detector is faulty, the multicolour status LED on the detector will flash for approx. 4 minutes in yellow colour, after the detector line has been enabled.

Features
- Sealed electronics prevents false alarms caused by the environment
- Output for external remote indicator
- Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 65µA (quiescent)
Alarm temperature	typ. 90°C
Application temperature	max. +80°C
Ambient temperature	-40°C to +70°C (continuous operation, no condensation or icing)
Relative humidity	0 to 98% (no condensation)
Dimensions Ø × H	100 × 36 (mm)
Colour	white
Weight	70g
Approvals	LPCB 010r/06 2531-CPR-CSP10963

Cross-references	Page	Art.No.	Name Type
	144	246042	Detector Base/Orbis MB-00001

11 Analog Detectors and Manual Call Points Series XP95/DISCOVERY/SOTERIA

241023

Optical Smoke Detector/XP95 55000-620

The Optical Smoke Detector 55000-620 operates with an optical sensing chamber based on the principle of scattered light. The detector is designed for use on the loop with Apollo protocol and is suitable for indoor mounting.

Intelligent evaluation algorithms in the respective LST fire detection control panels compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting another effective measure for preventing false alarms.

Features
- Permanent evaluation of environmental conditions
- Constant sensitivity
- Address card in the detector base for setting the physical address from 01 to 126
- Sealed electronics prevents false alarms caused by the environment
- Output for external remote indicator
- Mechanical theft protection
- Insect screen

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 340µA (quiescent)
Ambient temperature	-20°C to +60°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Protection class	IP23
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	105g
Approvals	VdS G294028 LPCB 010q/19 2531-CPR-CSP10924

Cross-references	Page	Art.No.	Name Type
	145	246025	Detector Base/XP95/Disc 45681-210
	145	246036	Isolator Detector Base/XP95/Disc 45681-284

242023

Thermal Detector/XP95 55000-420

The Thermal Detector 55000-420 can be parameterised at the fire detection control panel as Class A2R rate-of-rise detector or as Class A2S maximum heat detector. The detector is designed for use on the loop with Apollo protocol and is suitable for indoor mounting up to a maximum room height of 6m.

Note: According to the Construction Products Directive CPD, the detector has only been approved for use as maximum heat detector!

Features
- Continuous transmission of the current measured value to the fire detection control panel
- Address card in the detector base for setting the physical address from 01 to 126
- Sealed electronics prevents false alarms caused by the environment
- Output for external remote indicator
- Mechanical theft protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 250µA (quiescent)
Alarm temperature	55°C
Application temperature	max. +50°C
Ambient temperature	-20°C to +70°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Protection class	IP53
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	105g
Approvals	VdS G294029 LPCB 010p/22 2531-CPR-CSP10913

Cross-references	Page	Art.No.	Name Type
	145	246025	Detector Base/XP95/Disc 45681-210
	145	246036	Isolator Detector Base/XP95/Disc 45681-284

241027 Optical Smoke Detector/Disc 58000-600

The Optical Smoke Detector 58000-600 operates with an optical sensing chamber based on the principle of scattered light. The detector is designed for use on the loop with Apollo protocol and is suitable for indoor mounting.

Intelligent evaluation algorithms compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting another effective measure for preventing false alarms.

What is more, the response sensitivity of the detector can be adjusted via the fire detection control panel, to adapt the detector optimally to the application environment.

Features
- Permanent evaluation of environmental conditions
- Constant sensitivity
- Response sensitivity can be set in 5 steps via the fire detection control panel (1.4 to 2.8%/m)
- Address card in the detector base for setting the physical address from 01 to 126
- Sealed electronics prevents false alarms caused by the environment
- Display of activated condition via 2 LED indicators that are visible from all angles
- Output for external remote indicator
- Mechanical theft protection
- Insect screen

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 400µA (quiescent)
Ambient temperature	-20°C to +60°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Protection class	IP44
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	105g
Approvals	VdS G299037 LPCB 010q/03 2531-CPR-CSP10942

Cross-references	Page	Art.No.	Name Type
	145	246025	Detector Base/XP95/Disc 45681-210
	145	246036	Isolator Detector Base/XP95/Disc 45681-284

241022 Optical-Thermal Detector/Disc 58000-700

The Optical-Thermal Detector 58000-700 operates both with an optical sensing chamber based on the principle of scattered light as well as with a temperature sensor based on the rate-of-rise heat detection principle according to EN 54-5 class A1R. The detector is designed for use on the loop with Apollo protocol and is suitable for indoor mounting. The alarm evaluation is based on the analysis of both detection units; if only one characteristic of fire occurs, false alarms can be mostly avoided. Please note that the detector must not be used if the room height exceeds 7.5m in the thermal only mode.

Intelligent evaluation algorithms compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting another effective measure for preventing false alarms.

What is more, the response sensitivity of the detector can be adjusted via the fire detection control panel, to adapt the detector optimally to the application environment.

Features
- Permanent evaluation of environmental conditions
- Constant sensitivity
- Response sensitivity and operation mode can be set in 5 steps via the fire detection control panel (smoke only, heat only, 3 levels multisensor)
- Address card in the detector base for setting the physical address from 01 to 126
- Sealed electronics prevents false alarms caused by the environment
- Display of activated condition via 2 LED indicators that are visible from all angles
- Output for external remote indicator
- Mechanical theft protection
- Insect screen

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 500µA (quiescent)
Alarm temperature	58°C (maximum-heat component)
Application temperature	max. +50°C
Ambient temperature	-20°C to +60°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Protection class	IP44
Dimensions Ø × H	100 × 50 (mm)
Colour	white
Weight	105g
Approvals	VdS G299038 LPCB 010h/01 2531-CPR-CSP10946

Cross-references	Page	Art.No.	Name Type
	145	246025	Detector Base/XP95/Disc 45681-210
	145	246036	Isolator Detector Base/XP95/Disc 45681-284

242028 Thermal Detector/Discovery 58000-400

The Thermal Detector 58000-400 can be parameterised at the fire detection control panel as Class A1R or CR rate-of-rise detector, or as Class A2, A2S or CS maximum heat detector. The detector is designed for use on the loop with Apollo protocol and is suitable for indoor mounting. In Class A1R the maximum room height is 7.5m, else 6m.

Features
- Classification can be set in 5 steps (A1R, A2, A2S, CR and CS) via fire detection control panel
- Address card in the detector base for setting the physical address from 01 to 126
- Sealed electronics prevents false alarms caused by the environment
- Display of activated condition via 2 LED indicators that are visible from all angles
- Output for external remote indicator
- Mechanical theft protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 500µA (quiescent)
Alarm temperature	typ. 58°C with A1R typ. 61°C with A2 and A2S typ. 90°C with CR and CS
Application temperature	max. +50°C with A1R, A2 and A2S max. +80°C with CR and CS
Ambient temperature	-20°C to +80°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Protection class	IP54
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	105g
Approvals	VdS G299039 LPCB 010p/03 2531-CPR-CSP10936

Cross-references	Page	Art.No.	Name Type
	145	246025	Detector Base/XP95/Disc 45681-210
	145	246036	Isolator Detector Base/XP95/Disc 45681-284

243100

Carbon Monoxide Detector/Discovery 58000-300

The addressable CO detector contains a durable electro-chemical carbon monoxide sensor and, as a result, the detector is very suitable for the detection of smouldering fires or as supplement to optical smoke detectors. The detector is designed for application on the loop using Apollo protocol and for indoor mounting.

Features
- Sensitivity can be set in 5 steps via the fire detection control panel
- Address card in the detector base for setting the physical address from 01 to 126
- Sealed electronics prevents false alarms caused by the environment
- Display of activated condition via 2 LED indicators that are visible from all angles
- Output for external remote indicator
- Mechanical theft protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 400µA (quiescent)
Ambient temperature	0°C to +40°C (no condensation)
Relative humidity	15 to 90% (no condensation)
Protection class	IP54
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	105g

Cross-references	Page	Art.No.	Name Type
	145	246025	Detector Base/XP95/Disc 45681-210
	145	246036	Isolator Detector Base/XP95/Disc 45681-284

11

243101

CO thermal Detector/Discovery 58000-305

The addressable multisensor detector 58000-305 contains both a durable electrochemical carbon monoxide sensor as well as a temperature sensor. Therefore, the multisensor detector is very well suited for use in special applications such as garages, multi-storey car parks and as supplement to optical smoke detectors. By means of the long-living carbon monoxide sensor, even slowly developing smouldering fires can be safely detected. The thermal unit reacts to temperature changes within defined periods of time (rate-of-rise principle according to Class A1R) as well as to a maximum temperature of 58°C. The detector is designed for use on the loop with Apollo protocol and is intended for indoor mounting.

Features
- Sensitivity can be set in 5 steps via the fire detection control panel
- Address card in the detector base for setting the physical address from 01 to 126
- Sealed electronics prevents false alarms caused by the environment
- Two LEDs with 360° visibility indicate the activated condition
- Output for external remote indicator
- Mechanical theft protection in the base

Specifications

Operating voltage	supply through the loop voltage
Current consumption	typ. 400µA (quiescent)
Alarm temperature	58°C (maximum temperature)
Ambient temperature	0°C to +40°C (no condensation)
Relative humidity	15 - 90%
Protection class	IP44
Dimensions Ø × H	100 × 54 (mm)
Colour	white
Weight	105g
Approvals	VdS G215018 LPCB 010aq/01 2531-CPR-CSP10932

Cross-references	Page	Art.No.	Name Type
	145	246025	Detector Base/XP95/Disc 45681-210
	145	246036	Isolator Detector Base/XP95/Disc 45681-284

241200 NEW

Optical Smoke Detector/Core/ISM SA5100-600LST

The Optical Smoke Detector SA5100-600LST operates with an optical sensing chamber based on the principle of scattered light. The new PureLight technology ensures that smoke can be safely distinguished from noise variables. Intelligent evaluation algorithms compensate for the impact of contamination of the optical sensing system. In this way, the response sensitivity of the detector is kept constant for a long time – a further effective step to avoid false alarms.

In addition, the response sensitivity and behaviour of the detector can be set on the fire detection control panel to adjust the detector optimally to the respective application.

The detector is designed for use on the loop with Apollo protocol and is suitable for indoor mounting. The integrated dual-isolator disconnects the loop at short circuit on the loop line.

Features

- Response sensitivity and behaviour can be set by selecting one of five levels on the fire detection control panel (1.4 to 2.4%/m, 5s and 30s response time)
- Address card in the detector base for setting the detector address from 1 to 126
- Multicoloured LED with 360° visibility indicates the operating conditions
- Output for external remote indicator
- Mechanical theft protection in the base
- Insect screen

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 350µA (quiescent)
Ambient temperature	-40°C to +70°C (no icing)
Relative humidity	0 - 95% (no condensation)
Protection class	IP44
Dimensions Ø × H	100 × 36 (mm)
Colour	white
Weight	83g
Approvals	VdS G216027 LPCB 010bc/01 2531-CPR-CSP10983

Cross-references	Page	Art.No.	Name Type
	144	246060	Detector Base/XP95/Disc/Core SA5000-200

241170 NEW

Optical Smoke Detector/Core/ISM FL5100-600

The Optical Smoke Detector FL5100-600 operates with a chamberless detection technology based on the principle of scattered light. Through a combination of 3 infrared LEDs and 2 photo diodes, smoke particles are detected directly below the detector and are evaluated as alarm. With the modern design that is almost flush with the ceiling, the smoke detector meets even the highest architectural requirements.

The integrated microcontroller evaluates the measured data and ensures that smoke can be safely distinguished from noise variables. In addition, intelligent evaluation algorithms compensate for the impact of contamination of the light entrance window. In this way, the response sensitivity of the detector is kept constant for a long time - a further effective step to avoid false alarms. Furthermore, the behaviour of the detector can be set on the fire detection control panel to adjust the detector optimally to the respective application.

The smoke detector is installed by means of a plastic hollow wall box which also contains the detector base. The detector is designed for use on the loop with Apollo protocol and is suitable for indoor mounting. The integrated dual-isolator disconnects the loop at short circuit on the loop line.

Features
- Behaviour can be set by selecting one of five levels on the fire detection control panel (response time in the event of alarm 15s or 30s, in the event of fault 10s, 20s or 30s)
- Integrated self test function
- Detector address can be set in the range 1 to 126 by means of DIL switches
- Multicoloured LED indicates the operating conditions
- Output for external remote indicator
- Mechanical theft protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 1mA (quiescent)
Ambient temperature	-20°C to +55°C (no icing)
Relative humidity	0 - 95% (no condensation)
Protection class	IP55
Dimensions Ø × H	140 × 38 (mm)
Thickness of front panel	5mm
Colour	white
Weight	148g
Approvals	VdS G218020 2531-CPR-CSP10950

Cross-references	Page	Art.No.	Name Type
	145	246170	Detector Base/FLx100 FL5000-200

241171 NEW

Optical Smoke Detector/Core/ISM FL6100-600

The Optical Smoke Detector FL6100-600 is structured in the same way as the smoke detector FL5100-600. Thanks to its robust front panel made of coated stainless steel and the use of special screws, it is also protected against vandalism. Therefore, the detector is well-suited, for example, for penal institutions.

Specifications (for further specifications, see FL5100-600)

Ambient temperature	-40°C to +55°C (no icing)
Dimensions Ø × H	170 × 36.5 (mm)
Colour	light grey
Weight	321g
Approvals	VdS G218021 2531-CPR-CSP10952

Cross-references	Page	Art.No.	Name Type
	145	246170	Detector Base/FLx100 FL5000-200

241201 NEW

Optical-Thermal Detector/Core/ISM SA5100-700LST

The Optical-Thermal Detector SA5100-700LST operates both with an optical sensing chamber based on the principle of scattered light as well as with two separate thermal sensors. The new PureLight technology ensures that smoke can be safely distinguished from noise variables. Intelligent evaluation algorithms compensate for the impact of contamination of the optical sensing system. In this way, the response sensitivity of the detector is kept constant for a long time – a further effective step to avoid false alarms.

In addition, the response sensitivity and behaviour of the detector can be set on the fire detection control panel to adjust the detector optimally to the respective application. The detector has a pure smoke detector mode, a thermal-only mode according to EN 54-5 Class A1R (rate-of-rise heat detection principle), as well as 3 multisensor levels. In this case, the alarm is evaluated by analysing the measured values of both detection units. If only one of two characteristics of fire – smoke or heat – occurs, false alarms are avoided to a large extent.

The detector is designed for use on the loop with Apollo protocol and is suitable for indoor mounting. The integrated dual-isolator disconnects the loop at short circuit on the loop line.

Note: in the thermal-only mode the room height is limited to 7.5m.

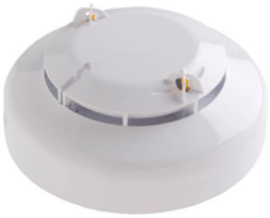
Features
- Response sensitivity and operation mode can be set by selecting one of five levels on the fire detection control panel (smoke only, heat only, and 3 multisensor levels)
- Address card in the detector base for setting the detector address from 1 to 126
- Multicoloured LED with 360° visibility indicates the operating conditions
- Output for external remote indicator
- Mechanical theft protection in the base
- Insect screen

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 350µA (quiescent)
Alarm temperature	57°C (maximum-heat component)
Application temperature	max. +50°C
Ambient temperature	-40°C to +70°C (no icing)
Relative humidity	0 - 95% (no condensation)
Protection class	IP54
Dimensions Ø × H	100 × 39 (mm)
Colour	white
Weight	83g
Approvals	VdS G216028 LPCB 010bb/01 2531-CPR-CSP10987

Cross-references	Page	Art.No.	Name Type
	144	246060	Detector Base/XP95/Disc/Core SA5000-200

242190 NEW Thermal Detector/Core/ISM SA5100-400LST



The Thermal Detector SA5100-400LST operates with two separate thermal sensors and can be parameterised on the fire detection control panel as Class A1R, A2R or CR rate-of-rise detector, or as Class A2S or CS maximum heat detector. The detector is designed for use on the loop with Apollo protocol and is suitable for indoor mounting. The integrated dual-isolator disconnects the loop at short circuit on the loop line.

Note: in Class A1R the maximum room height is 7.5m, in all other cases it is 6m.

Features
- Class according to EN 54-5 can be set by selecting one of five levels on the fire detection control panel (A1R, A2R, A2S, CR and CS)
- Address card in the detector base for setting the detector address from 1 to 126
- Multicoloured LED with 360° visibility indicates the operating conditions
- Output for external remote indicator
- Mechanical theft protection in the base

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 350µA (quiescent)
Alarm temperature	typ. 57°C with A1R typ. 60°C with A2R or A2S typ. 90°C with CR or CS
Application temperature	max. +50°C with A1R, A2R or A2S max. +80°C with CR or CS
Ambient temperature	-40°C to +70°C (no icing)
Relative humidity	0 - 95% (no condensation)
Protection class	IP54
Dimensions Ø × H	100 × 39 (mm)
Colour	white
Weight	83g
Approvals	VdS G216026 LPCB 010bd/01 2531-CPR-CSP10979

Cross-references	Page	Art.No.	Name Type
	144	246060	Detector Base/XP95/Disc/Core SA5000-200

240602 Manual Call Point/Red/XP95 HME/3000/32/H1/02

The manual call point according to EN 54-11 / type B in the aluminium die-cast design housing is implemented in loop technology. For the bi-directional loop communication, the Apollo protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The detector is activated by breaking the glass pane and pressing the button.

Features
- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Latching push button
- Easy to replace standardised glass plate
- Detector housing can be opened with key SCHL-HFM/HM (not included)
- Button in combination with LED for setting the address from 1 to 126
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54, or to IP65 through a factory upgrade
- Optional protective cover can provide additional mechanical protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 180µA (normal communication)
Protection class	IP43 (without upgrade)
Dimensions W × H × D	126 × 126 × 35 (mm)
Colour	red, similar to RAL 3000
Weight	approx. 420g
Approvals	VdS G218056 0786-CPR-21600

Cross-references	Page	Art.No.	Name Type
	166	249681	Key for Manual Call Point SU=10 SCHL-HM/10
	165	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	164	249633	Protective Cover V2A for MCP/Red WG/ROT-E-1
	166	249680	Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10

240138 NEW Manual Call Point/red/XP95/FEUER HME/3000/32/52/02/IP65

As regards the function and cross-references, this red manual call point is identical to the Manual Call Point HME/3000/32/H1/02; however, thanks to the gasket elements which have already been installed, it has protection class IP65.

Additional features
- Changeable door label with house symbol + "FEUER", house symbol on the reverse
- 2 cable glands M20×1.5mm, 1 dummy cable gland

Specifications (for further specifications, see HME/3000/32/H1/02)

Protection class	IP65
Weight	approx. 450g

240622 Manual Call Point/Blue/XP95/HAUSALARM HME/5015/32/02/02

The manual call point in the blue aluminium die-cast design housing is implemented in loop technology. For the bi-directional loop communication, the Apollo protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The detector is activated by breaking the glass pane and pressing the button.

Features
- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Door label "HAUSALARM", replaceable
- Multicoloured LED for the optical indication of the activation condition and other operating conditions
- Latching (default) or non-latching push button
- Easy to replace standardised glass plate
- Detector housing can be opened with key SCHL-HFM/HM (not included)
- Button in combination with LED for setting the address from 01 to 126
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54, or to IP65 through a factory upgrade
- Optional protective cover can provide additional mechanical protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	180µA (normal communication)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43 (without upgrade)
Dimensions W × H × D	126 × 126 × 35 (mm)
Colour	blue, similar to RAL 5015
Weight	approx. 420g

Cross-references	Page	Art.No.	Name Type
	166	249681	Key for Manual Call Point SU=10 SCHL-HM/10
	165	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	164	249634	Protective Cover V2A for MCP/Blue WG/BLAU-E-1
	166	249680	Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10
	166	249675	Special Designation HME/Sheet-10pcs. HME-BESCH-BOG

240166 NEW

Manual Call Point/blue/XP95/HAUSALARM HME/5015/32/02/02/IP65

As regards the function and cross-references, this blue manual call point is identical to the Manual Call Point HME/5015/32/02/02; however, thanks to the gasket elements which have already been installed, it has protection class IP65.

Additional features
- 2 cable glands M20×1.5mm, 1 dummy cable gland

Specifications (for further specifications, see HME/5015/32/02/02)

Protection class	IP65
Weight	approx. 450g

240632 NEW

Manual Call Point/yellow/XP95/Handauslösung HME/1021/32/17/02

The manual call point in the yellow aluminium die-cast design housing operates as electrical activation device for extinguishing systems using gaseous or other extinguishing agents and is implemented in loop technology. For the bi-directional loop communication, the Apollo protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The detector is activated by breaking the glass pane and pressing the button. The manual call point has been tested and certified according to the standards EN 54-17 and EN 12094-3.

Features
- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Changeable door label "HANDAUSLÖSUNG-Gaslöschanlage" according to EN 12094-3, with "HANDAUSLÖSUNG-Feuerlöschanlage" according to VdS 2496 on the reverse
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Latching push button
- Easy to replace standardised glass plate
- Detector housing can be opened with key SCHL-HFM/HM (not included)
- Button in combination with LED for setting the address from 1 to 126
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54, or to IP65 through a factory upgrade
- Optional protective cover can provide additional mechanical protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 180µA (normal communication)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43 (without upgrade)
Dimensions W × H × D	126 × 126 × 35 (mm)
Colour	yellow, similar to RAL 1021
Weight	approx. 420g
Approvals	VdS G218057 0786-CPR-21601

Cross-references	Page	Art.No.	Name Type
	166	249681	Key for Manual Call Point SU=10 SCHL-HM/10
	165	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	164	249636	Protective Cover V2A for MCP/Yellow WG/GELB-E-1
	166	249680	Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10
	166	249675	Special Designation HME/Sheet-10pcs. HME-BESCH-BOG

240139 NEW

Manual Call Point/yellow/XP95/HANDAUSLÖSUNG HME/1021/32/17/02/IP65

As regards the function and cross-references, this yellow manual call point is identical to the Manual Call Point HME/1021/32/17/02; however, thanks to the gasket elements which have already been installed, it has protection class IP65.

Additional features
- 2 cable glands M20×1.5mm, 1 dummy cable gland

Specifications (for further specifications, see HME/1021/32/17/02)

Protection class	IP65
Weight	approx. 450g

11

240642 NEW

Manual Call Point/blue/XP95/STOPP HME/5015/32/18/02

The manual call point in the blue aluminium die-cast design housing operates as electrical emergency hold device for extinguishing systems using gaseous or other extinguishing agents and is implemented in loop technology. For the bi-directional loop communication, the Apollo protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The detector is activated by breaking the glass pane and pressing the button. The manual call point has been tested and certified according to the standards EN 54-17 and EN 12094-3.

Features
- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Door label "STOPP-TASTER Gaslöschanlage", replaceable
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Non-latching push button
- Easy to replace standardised glass plate
- Detector housing can be opened with key SCHL-HFM/HM (not included)
- Button in combination with LED for setting the address from 1 to 126
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54, or to IP65 through a factory upgrade
- Optional protective cover can provide additional mechanical protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 180µA (normal communication)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43 (without upgrade)
Dimensions W × H × D	126 × 126 × 35 (mm)
Colour	blue, similar to RAL 5015
Weight	approx. 420g
Approvals	VdS G218058 0786-CPR-21602

Cross-references	Page	Art.No.	Name Type
	166	249681	Key for Manual Call Point SU=10 SCHL-HM/10
	165	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	164	249634	Protective Cover V2A for MCP/Blue WG/BLAU-E-1
	166	249680	Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10
	166	249675	Special Designation HME/Sheet-10pcs. HME-BESCH-BOG

240167 NEW

Manual Call Point/blue/XP95/STOPP HME/5015/32/18/02/IP65

As regards the function and cross-references, this blue manual call point is identical to the Manual Call Point HME/5015/32/18/02; however, thanks to the gasket elements which have already been installed, it has protection class IP65.

Additional features
- 2 cable glands M20×1.5mm, 1 dummy cable gland

Specifications (for further specifications, see HME/5015/32/18/02)

Protection class	IP65
Weight	approx. 450g

240690 NEW

Manual Call Point/green/XP95/STEUERUNGEN HME/6002/32/29/02

The manual call point in the green aluminium die-cast design housing is implemented in loop technology. For the bi-directional loop communication, the Apollo protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The detector is activated by breaking the glass pane and pressing the button.

Depending on which side of the replaceable door label that has text printed on both sides is visible, the manual call point can be used for the following functions:
- Door label "AUSLÖSUNG ALLE STEUERUNGEN" (delivery condition): The manual call point is required according to ÖNORM F 3001 for manually overriding fire controls. The detector is to be connected to the fire control panel.
- Door label "AUFZUG BRANDFALLSTEUERUNG" (reverse): The manual call point is required according to TRVB S 111 for actuating lifts in the event of fire. The detector is to be connected to the lift control or - if the building is equipped with a fire detection system - to the fire control panel.

Features
- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Multicoloured LED for the optical indication of the activated condition and other operating conditions
- Latching push button
- Easy to replace standardised glass plate
- Detector housing can be opened with key SCHL-HFM/HM (not included)
- Button in combination with LED for setting the address from 01 to 126
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54, or to IP65 through a factory upgrade
- Optional protective cover can provide additional mechanical protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 180µA (normal communication)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43 (without upgrade)
Dimensions W × H × D	126 × 126 × 35 (mm)
Colour	green, similar to RAL 6002
Weight	approx. 420g

Cross-references	Page	Art.No.	Name Type
	166	249681	Key for Manual Call Point SU=10 SCHL-HM/10
	165	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	164	249694	Protective Cover V2A for MCP/Green WG/GRÜN-E-1
	166	249680	Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10
	166	249675	Special Designation HME/Sheet-10pcs. HME-BESCH-BOG

240794 NEW

Manual Call Point/white/XP95/NOTFALL HME/1013/32/40/00

The manual call point in the white aluminium die-cast design housing is implemented in loop technology. For the bi-directional loop communication, the Apollo protocol is used. An integrated dual-isolator disconnects the loop at short circuit on the loop line. The detector is activated by breaking the glass pane and pressing the button.

The manual call point is designed for connection to a danger detection system and is used if quick alarming of the helping forces is required.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Blue user interface with operating instructions in the form of white symbols (EN 54-11)
- Door label "NOTFALL", replaceable
- Latching (default) or non-latching push button
- Easy to replace standardised glass plate
- Detector housing can be opened with key SCHL-HFM/HM (not included)
- Button in combination with LED for setting the address from 1 to 126
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54, or to IP65 through a factory upgrade
- Optional protective cover can provide additional mechanical protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 180µA (normal communication)
Ambient temperature	-20°C to +60°C (continuous operation)
	-25°C to +70°C (max. 12 hours)
Protection class	IP43 (without upgrade)
Dimensions W × H × D	126 × 126 × 35 (mm)
Colour	white, similar to RAL 1013
Weight	approx. 420g

Cross-references	Page	Art.No.	Name Type
	166	249681	Key for Manual Call Point SU=10 SCHL-HM/10
	165	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	166	249680	Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10
	166	249675	Special Designation HME/Sheet-10pcs. HME-BESCH-BOG

245092 NEW

Manual Call Point/Red/Core/ISM SA5900-908LST

The manual call point according to EN 54-11 / type A is designed for use on the loop with Apollo protocol. The detector is activated by pressing in the plastic pane without breaking it. The pane can be placed again into the idle position with the supplied special key, thereby resetting the detector. A multicoloured LED indicates the activation in red, a fault in yellow, and the loop polling in green.

The detector is accommodated in a red plastic housing and can be mounted either on a 60mm flush-mount installation box or on the wall, using the supplied surface-mount case.

Features

- Operating instructions in the form of symbols (EN 54-11)
- Activation by pressing in plastic pane without breaking it
- Detector housing can only be opened with a special key (provided)
- DIL switch for setting the physical address in the range 01 to 126
- Pluggable screw-terminals
- Dual-isolator

Specifications

Operating voltage	supplied through loop voltage
Current consumption	100µA (quiescent)
Ambient temperature	-40°C to +70°C (no condensation or icing)
Relative humidity	0 - 95% (no condensation)
Protection class	IP44
Dimensions W × H × D	
with surface-mount case	90 × 90 × 63 (mm)
on flush-mount installation box	90 × 90 × 28 (mm)
Colour	red, RAL 3000
Weight (with surface-mount case)	180g
Approvals	VdS G216017
	2531-CPR-CSP11022

245091 NEW

Manual Call Point/Red/Disc/ISM/IP65 58200-951

The manual call point according to EN 54-11 / type A is accommodated in a red plastic housing and is designed for use on the loop with Apollo protocol. Thanks to the dust and water protected design with protection class IP65, the manual call point is suitable for use under harsh environmental conditions. The detector is activated by pressing in the plastic pane without breaking it. The pane can be placed again into the idle position with the supplied special key, thereby resetting the detector. A multicoloured LED indicates the activation in red, the isolator operation in yellow, and the loop polling in green.

Features

- Operating instructions in the form of symbols (EN 54-11)
- Activation by pressing in plastic pane without breaking it
- DIL switch for setting the physical address in the range 01 to 126
- Pluggable screw terminals
- Dual-isolator

Specifications

Operating voltage	supplied through loop voltage
Current consumption	100µA (quiescent)
Ambient temperature	-40°C to +70°C (no condensation or icing)
Relative humidity	0 - 95% (no condensation)
Protection class	IP67
Dimensions W × H × D	110 × 110 × 74 (mm)
Colour	red, RAL 3000
Weight	180g
Approval	0905-CPR-00186

12 Modules, Optical and Acoustic Devices Series XP95/DISCOVERY/SOTERIA

249330 Input Module 1xIN/Core SA4700-100APO

The module SA4700-100APO is integrated into a loop with Apollo protocol and provides a line-monitored input for the connection of contact detectors, thus allowing easy integration of manual call points, sprinkler system contacts or supervising contacts into a fire detection system in loop technology. The built-in dual-isolator disconnects the loop at short circuit on the loop line.

Features
- Two multicoloured status LEDs indicate the activation or fault condition as well as the loop polling and the isolator function
- Input monitored for wire breakage and short circuit
- Module address can be set in the range 1 to 126 by means of DIL switches
- Optional priority mode for the connection of manual call points
- Optional alarm delay

Specifications

Operating voltage	supplied through loop voltage
Current consumption at 24V	typ. 500µA (normal communication)
Current consumption LEDs	max. 2mA
Ambient temperature	-40°C to +70°C
Relative humidity	0 - 95% (no condensation)
Protection class	IP52
Dimensions W × H × D	150 × 90 × 60 (mm)
Colour	white
Weight	240g
Approvals	VdS G217055 LPCB 010ah/11 2531-CPR-CSP10991

12

249334 Input Module 2xIN/Core SA6700-100APO

The module SA6700-100APO is integrated into a loop with Apollo protocol and consists of two separate input modules in a common housing. Each module provides a line-monitored input for the connection of contact detectors, thus allowing easy integration of manual call points, sprinkler system contacts or supervising contacts into a fire detection system in loop technology. The built-in dual-isolator disconnects the loop at short circuit on the loop line.

Features
- Two multicoloured status LEDs per module indicate the activation or fault condition as well as the loop polling and the isolator function
- Inputs monitored for wire breakage and short circuit
- By means of DIL switches, module address can be individually set for each module in the range 1 to 126
- Optional priority mode for the connection of manual call points
- Optional alarm delay

Specifications

Operating voltage	supplied through loop voltage
Current consumption at 24V	typ. 500µA (per module, normal communication)
Current consumption LEDs	max. 2mA, per module
Ambient temperature	-40°C to +70°C
Relative humidity	0 - 95% (no condensation)
Protection class	IP52
Dimensions W × H × D	150 × 90 × 60 (mm)
Colour	white
Weight	270g
Approvals	VdS G217062 LPCB 010ah/22 2531-CPR-CSP11050

249331 Module 1xIN 1xREL/Core SA4700-102APO

The module SA4700-102APO is integrated into a loop with Apollo protocol and provides a line-monitored input for the connection of contact detectors, as well as a dry relay output. By means of the input, manual call points, sprinkler system contacts or supervising contacts can be easily integrated into a fire detection system in loop technology. The output can be used to actuate external devices (e.g., fire controls). The built-in dual-isolator disconnects the loop at short circuit on the loop line.

Features

- Three multicoloured status LEDs indicate the condition of the input and of the output, as well as the loop polling and the isolator function
- Input monitored for wire breakage and short circuit
- Relay output with dry changeover contact
- Module address can be set in the range 1 to 126 by means of DIL switches

Specifications

Operating voltage	supplied through loop voltage
Current consumption at 24V	typ. 500µA (normal communication)
Current consumption LEDs	max. 3.5mA
Contact rating relay output	max. 1A at 30VDC/AC
Ambient temperature	-40°C to +70°C
Relative humidity	0 - 95% (no condensation)
Protection class	IP52
Dimensions W × H × D	150 × 90 × 60 (mm)
Colour	white
Weight	245g
Approvals	VdS G217056 LPCB 010ah/13 2531-CPR-CSP10991

12

249332 Module 2xIN 1xREL/Core SA4700-103APO

The module SA4700-103APO is integrated into a loop with Apollo protocol and provides two separate line-monitored inputs for the connection of contact detectors, as well as a dry relay output. By means of the inputs, manual call points, sprinkler system contacts or supervising contacts can be easily integrated into a fire detection system in loop technology. The output can be used to actuate external devices (e.g., fire controls). The built-in dual-isolator disconnects the loop at short circuit on the loop line.

Features

- Four multicoloured status LEDs indicate the condition of each input and of the output, as well as the loop polling and the isolator function
- Inputs monitored for wire breakage and short circuit
- Relay output with dry changeover contact 250VAC
- Module address can be set in the range 1 to 126 by means of DIL switches

Specifications

Operating voltage	supplied through loop voltage
Current consumption at 24V	typ. 700µA (normal communication)
Current consumption LEDs	max. 5.2mA
Contact rating relay output	max. 5A at 30VDC / 250VAC
Ambient temperature	-40°C to +70°C
Relative humidity	0 - 95% (no condensation)
Protection class	IP54
Dimensions W × H × D	150 × 90 × 60 (mm)
Colour	white
Weight	300g
Approvals	VdS G217057 LPCB 010ah/19 2531-CPR-CSP11049

249333 Module 2xIN 2xREL/Core SA4700-104APO

The module SA4700-104APO is integrated into a loop with Apollo protocol and consists of two separate input/output modules in a common housing. Each module provides a line-monitored input for the connection of contact detectors, as well as a dry relay output. By means of the inputs, manual call points, sprinkler system contacts or supervising contacts can be easily integrated into a fire detection system in loop technology. The outputs can be used to actuate external devices (e.g., fire controls). The built-in dual-isolator disconnects the loop at short circuit on the loop line.

Features
- Three multicoloured status LEDs per module indicate the condition of the input and of the output, as well as the loop polling and the isolator function
- Inputs monitored for wire breakage and short circuit
- Relay outputs with dry changeover contact
- By means of DIL switches, module address can be individually set for each module in the range 1 to 126

Specifications

Operating voltage	supplied through loop voltage
Current consumption at 24V	typ. 500µA (per module, normal communication)
Current consumption LEDs	max. 3.5mA per module
Contact rating relay output	max. 1A at 30VDC/AC
Ambient temperature	-40°C to +70°C
Relative humidity	0 - 95% (no condensation)
Protection class	IP52
Dimensions W × H × D	150 × 90 × 60 (mm)
Colour	white
Weight	280g
Approvals	VdS G217058 LPCB 010ah/21 2531-CPR-CSP11050

12

249079 Monitor Module/XP95/Mini 55000-760

The addressable compact mini module 55000-760 is used for the line-monitored connection of contact detectors (e.g., sprinkler system contacts, supervising contacts) to a loop with Apollo protocol.

The module can be optionally used with an interrupt mode if prioritised reporting is needed - for example, for transmitting an alarm from a manual call point. In addition to the conditions NORMAL, FAULT and ALARM, the module also processes the PRE-ALARM condition. As a result, the module supports the connection of detectors which allow separate evaluation of alarm and pre-alarm.

The monitor module is provided with an integrated dual-isolator and is designed for DIN rail mounting.

Features
- Red status LED indicates activation
- Green status LED indicates the loop communication
- Yellow status LED indicates short circuit or fault on the loop
- Switch for setting the physical address from 01 to 126
- Prepared for DIN rail mounting

Specifications

Operating voltage	supplied through loop voltage
Current consumption	200µA (quiescent)
Ambient temperature	-20°C to +70°C
Dimensions L × W × H	42 × 42 × 20 (mm)
Connection technology	screw terminals
Colour	white
Weight	30g
Approvals	VdS G210034 LPCB 010ah/09 2531-CPR-CSP11042

249073

Control Module/XP95 55000-852

The addressable module 55000-852 with integrated dual-isolator is used for the line-monitored activation of external devices (e.g., fire controls, acoustic and optical signalling devices) via the bi-directional communication on the loop with Apollo protocol. A monitored output can be used as actuation output. An external supply voltage has to be applied for the power supply of the external devices.

Features
- Monitoring of the external supply voltage
- Switch for setting the physical address from 01 to 126

Specifications

Operating voltage	supplied through loop voltage
Current consumption	1.9mA (quiescent)
External consumer voltage	max. 32VDC
Output current	max. 1A (resistive or inductive load)
Monitoring voltage	-10VDC
Ambient temperature	-20°C to +70°C
Protection class	IP54
Dimensions L × W × H	150 × 90 × 48 (mm)
Colour	white
Weight	240g
Approvals	VdS G201095 LPCB 010ah/08 2531-CPR-CSP11144

12

249075

Conventional Zone Module/XP95 55000-845

The addressable module 55000-845 with integrated dual-isolator is used for the integration of conventional detectors into the bi-directional communication on the loop with Apollo protocol.

Features
- Switch for setting the physical address from 01 to 126

Specifications

Operating voltage	supplied through loop voltage
Current consumption	4mA (quiescent)
Detector current	max. 1mA
Ambient temperature	-20°C to +70°C
Protection class	IP54
Dimensions L × W × H	150 × 90 × 48 (mm)
Colour	white
Weight	230g
Approvals	VdS G201094 LPCB 010ah/05 2531-CPR-CSP11143

249029

Isolator Module/XP95/Discovery ISM1-3

The Isolator Module ISM1-3 is used for the connection to a loop with Apollo protocol. If a short circuit appears between two isolator modules, the defective area is separated from the loop and operation of the detectors and modules outside this area is ensured. For optimum availability, the detection zones on the loop should be separated from each other by isolator modules.

Features
- LED indicates activation
- Installation in commercially available installation sockets, on a mounting bracket or on a module carrier

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 0.2mA
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	70 × 24 × 15 (mm)
Weight	20g
Approvals	VdS G212164 0786-CPD-21030

355133 Sounder/WB/XP95I/white/Alert 45681-277

The addressable loop sounder is installed in a round white plastic housing and is prepared for indoor surface mounting. The integrated detector base is suitable for accommodation of fire detectors Series XP95 and Discovery.

The sounder is actuated using Apollo protocol and powered via the loop. If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone. In case of activation, the function of the sounder is monitored by means of an integrated microphone.

Depending on the parameter setup of the fire detection control panel and the system condition, the panel can activate the sounder with tone A or B. The unit contains a dual-isolator.

Features
- Tone A: alternating tone (581Hz for 0.5s, 870Hz for 0.5s)
  Tone B: interrupted tone 870Hz (1s ON, 1s OFF)
- Low power consumption
- Sound level adjustable via DIL switch
- Simple address setting of inserted detector by code card in detector base

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 200µA (quiescent) typ. 5mA (sounder on)
Sound level	50 - 65dB(A) or 65 - 77dB(A) / 1m distance
Ambient temperature	-20°C to +60°C
Protection class	IP21
Dimensions Ø × H	115 × 38 (mm)
Colour	white
Weight	140g
Approval	2531-CPR-CSP11033

Cross-references	Page	Art.No.	Name Type
	150	359021	Lid for Detector Base Sounder/red 45681-293
	150	359020	Lid for Detector Base Sounder/white 45681-292
	150	359022	Mounting Plate for Sounder/WB/XP95 45681-311

355131 Sounder/WB/XP95I/white/SlowWhoop 45681-290

The addressable loop sounder is installed in a round white plastic housing and is prepared for indoor surface mounting. The integrated detector base is suitable for accommodation of fire detectors Series XP95 and Discovery.

The sounder is actuated using Apollo protocol and powered via the loop. If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone. In case of activation, the function of the sounder is monitored by means of an integrated microphone.

Depending on the parameter setup of the fire detection control panel and the system condition, the panel can activate the sounder with tone A or B. The unit contains a dual-isolator.

Features
- Tone A: Slow Whoop tone NEN 2575 (500 - 1200Hz over 3.5s, 0.5s pause)
  Tone B: continuous tone 870Hz
- Low power consumption
- Sound level adjustable via DIL switch
- Simple address setting of inserted detector by code card in detector base

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 200µA (quiescent) typ. 5mA (sounder on)
Sound level	50 - 65dB(A) or 65 - 78dB(A) / 1m distance
Ambient temperature	-20°C to +60°C
Protection class	IP21
Dimensions Ø × H	115 × 38 (mm)
Colour	white
Weight	140g
Approval	2531-CPR-CSP11037

Cross-references	Page	Art.No.	Name Type
	150	359021	Lid for Detector Base Sounder/red 45681-293
	150	359020	Lid for Detector Base Sounder/white 45681-292
	150	359022	Mounting Plate for Sounder/WB/XP95 45681-311

355132 Sounder/WB/XP95I/white/DIN 45681-300

The addressable loop sounder is installed in a round white plastic housing and is prepared for indoor surface mounting. The integrated detector base is suitable for accommodation of fire detectors Series XP95 and Discovery.

The sounder is actuated using Apollo protocol and powered via the loop. If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone. In case of activation, the function of the sounder is monitored by means of an integrated microphone.

Depending on the parameter setup of the fire detection control panel and the system condition, the panel can activate the sounder with tone A or B. The unit contains a dual-isolator.

Features
- Tone A: DIN tone (DIN 33404; 1200 - 500Hz over 1s)
  Tone B: continuous tone 870Hz
- Low power consumption
- Sound level adjustable via DIL switch
- Simple address setting of inserted detector by code card in detector base

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 200µA (quiescent) typ. 5mA (sounder on)
Sound level	50 - 65dB(A) or 65 - 78dB(A) / 1m distance
Ambient temperature	-20°C to +60°C
Protection class	IP21
Dimensions Ø × H	115 × 38 (mm)
Colour	white
Weight	140g
Approvals	VdS G207009 2531-CPR-CSP11040

Cross-references	Page	Art.No.	Name Type
	150	359021	Lid for Detector Base Sounder/red 45681-293
	150	359020	Lid for Detector Base Sounder/white 45681-292
	150	359022	Mounting Plate for Sounder/WB/XP95 45681-311

355156 NEW Sounder/WB/Discl/MT 45681-702

The addressable base sounder is installed in a round white plastic housing and is designed for indoor ceiling mounting. The integrated detector base can accommodate fire detectors Series XP95, Discovery and Soteria.

The sounder is actuated and powered via the loop with Apollo protocol. If several sounders are actuated in parallel, they are synchronised by the fire detection control panel to generate a uniform warning tone. In case of activation, the function of the sounder is monitored by means of an integrated microphone.

With a Fire Detection Control Panel Series BC600, tone type and sound level of the sounder are controlled via the loop protocol. For this purpose, the sound level and one of 15 different tone type combinations are selected in the parameter setup. As a result, the sounder can be activated with tone type 1 or 2 of the respective combination, depending on the parameter setup of the control panel and the system conditions. The unit has a dual-isolator.

Features
- 15 tone type combinations (e.g., DIN 33404 tone, Slow Whoop tone, continuous tone 970Hz)
- 7 sound levels
- Address of sounder is set via DIL switch
- Detector address is easily set with code card in the detector base
- Low power consumption

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 370µA (quiescent) typ. 5.5mA (sounder on)
Sound level	60 - 90dB(A) / 1m distance
Ambient temperature	-20°C to +60°C
Protection class	IP21
Dimensions Ø × H	115 × 38 (mm)
Colour	white
Weight	140g
Approvals	VdS G215029 2531-CPR-CSP11166

Cross-references	Page	Art.No.	Name Type
	150	359021	Lid for Detector Base Sounder/red 45681-293
	150	359020	Lid for Detector Base Sounder/white 45681-292
	150	359022	Mounting Plate for Sounder/WB/XP95 45681-311

355139 Sounder/WM/XP95I/red/100 55000-001

The addressable multitone sounder 55000-001 is accommodated in a red plastic housing, and thanks to its dust and water protected design with protection class IP65, it is suitable for harsh environmental conditions. The unit is actuated and supplied via the loop with Apollo protocol.

The integrated dual-isolator disconnects the loop in the event of a short circuit on the loop line. A short circuit on the loop is indicated by a yellow status LED.

If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone.

Depending on the parameter setup of the fire detection control panel and the system condition, the control panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch, with selection out of 3 combinations.

Features

- 3 different tone type combinations selectable via DIL switch (e.g., continuous tone 900Hz, DIN 33404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- Selectable sound level
- Easy address setting via DIL switch

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	max. 330µA (quiescent) max. 5mA (sounder on)
Sound level	max. 90dB(A) / 1m distance (DIN tone)
Ambient temperature	-10°C to +55°C
Relative humidity	max. 95% (no condensation)
Protection class	IP65
Dimensions Ø × D	98 × 105 (mm)
Colour	red
Weight	225g
Approvals	VdS G212187 2831-CPR-F2103

355140 Sounder/WM/XP95I/white/100 55000-002

The addressable multitone sounder 55000-002 is identical with the sounder 55000-001, except that the 55000-002 is accommodated in a white plastic housing.

355124 Sounder/WM/XP95/red/Alert/100 55000-278

The addressable loop sounder 55000-278 is integrated in a red plastic housing and is designed for indoor wall mounting. The sounder base is included.

The sounder is activated and supplied via the loop using Apollo protocol. If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone.

Depending on the parameter setup of the fire detection control panel and the system condition, the panel can activate the sounder with tone A or B.

Features
- Tone A: alternating tone (664Hz for 0.5s, 984Hz for 0.5s)
  Tone B: interrupted tone 984Hz (1s ON, 1s OFF)
- Low power consumption
- Adjustable sound level

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	max. 1.1mA (sounder off) max. 4.5mA (sounder on)
Sound level	94dB(A) / 1m distance
Ambient temperature	-20°C to +60°C
Protection class	IP21
Dimensions W × H × D	108 × 108 × 95 (mm)
Colour	red
Weight	215g
Approval	2531-CPR-CSP11134

12

355125 Sounder/WM/XP95/red/Slw/100 55000-276

The addressable loop sounder 55000-276 is integrated in a red plastic housing and is designed for indoor wall mounting. The sounder base is included.
The sounder is activated and supplied via the loop using Apollo protocol. If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone.

Depending on the parameter setup of the fire detection control panel and the system condition, the panel can activate the sounder with tone A or B.

Features
- Tone A: Slow Whoop tone NEN 2575 (500 - 1200Hz over 3.5s, 0.5s pause)
  Tone B: continuous tone 970Hz
- Low power consumption
- Adjustable sound level

Specifications

Operating voltage	Supply by loop voltage
Current consumption from loop	max. 1.2mA (sounder off) max. 5mA (sounder on)
Sound level	94dB(A) / 1m distance
Ambient temperature	-20°C to +60°C
Protection class	IP21
Dimensions W × H × D	108 × 108 × 95 (mm)
Colour	red
Weight	215g
Approval	0832-CPD-0148

355130 Sounder/WB/XP95RI/white/Alert 45681-276

The base sounder 45681-276 is integrated in a round white plastic housing and is designed for indoor mounting. The integrated detector base accommodates automatic fire detectors Series XP95 or Discovery. The sounder is supplied via the loop and activated by the remote indicator output of the detector.

Features
- Alternating tone 630/990Hz
- Signal sequence 1Hz
- Low power consumption

Specifications

Operating voltage	17 to 28VDC
Current consumption from loop	typ. 10µA (sounder off) max. 3mA (sounder on)
Sound level	81dB(A) / 1m distance
Ambient temperature	-20°C to +60°C
Protection class	IP23
Dimensions Ø × H	115 × 38 (mm)
Colour	white
Weight	140g
Approval	2531-CPR-CSP11122

Cross-references	Page	Art.No.	Name Type
	150	359022	Mounting Plate for Sounder/WB/XP95 45681-311

355134 Sounder-Str/WB/XP95I/wh/cl/re/Alt/N 45681-330

The addressable sounder with integrated red strobe 45681-330 is installed in a round white plastic housing. The unit is actuated using Apollo protocol and powered via the loop. The sounder is always activated together with the strobe. The integrated detector base is suitable for accommodation of fire detectors Series XP95 and Discovery. The unit is prepared for indoor surface mounting.

If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone. In case of activation, the function of the sounder is monitored by means of an integrated microphone.

Depending on the parameter setup of the fire detection control panel and the system condition, the panel can activate the sounder with tone A or B. The address of the sounder and strobe as well as the sound level are set via the DIL switch. The unit contains a dual-isolator.

Features

- Tone A: alternating tone (550Hz for 0.5s, 825Hz for 0.5s)
  Tone B: interrupted tone 825Hz (1s ON, 1s OFF)
- Sound level adjustable in two steps via DIL switch
- Simple address setting of inserted detector by code card in detector base
- Low power consumption due to the use of LEDs

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 300µA (quiescent) max. 8mA (sounder and strobe on)
Sound level	50 - 65dB(A) or 65 - 79dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-20°C to +60°C
Protection class	IP21
Relative humidity	max. 95% (no condensation)
Dimensions Ø × H	115 × 38 (mm)
Colour housing	white
Colour lens / light colour	clear / red
Weight	160g
Approval	2531-CPR-CSP11177

Cross-references	Page	Art.No.	Name Type
	150	359021	Lid for Detector Base Sounder/red 45681-293
	150	359020	Lid for Detector Base Sounder/white 45681-292
	150	359022	Mounting Plate for Sounder/WB/XP95 45681-311

355135 Sounder-Str/WB/XP95I/wh/cl/re/Slw/N 45681-332

The addressable sounder with integrated red strobe 45681-332 is installed in a round white plastic housing. The unit is actuated using Apollo protocol and powered via the loop. The sounder is always activated together with the strobe. The integrated detector base is suitable for accommodation of fire detectors Series XP95 and Discovery. The unit is prepared for indoor surface mounting.

If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone. In case of activation, the function of the sounder is monitored by means of an integrated microphone.

Depending on the parameter setup of the fire detection control panel and the system condition, the panel can activate the sounder with tone A or B. The address of the sounder and strobe as well as the sound level are set via the DIL switch. The unit contains a dual-isolator.

Features
- Tone A: Slow-Whoop tone NEN 2575 (500 - 1200Hz over 3.5s, 0.5s pause)
  Tone B: continuous tone 825Hz
- Sound level adjustable in two steps via DIL switch
- Simple address setting of inserted detector by code card in detector base
- Low power consumption due to the use of LEDs

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 300µA (quiescent) max. 8mA (sounder and strobe on)
Sound level	50 - 65dB(A) or 65 - 82dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-20°C to +60°C
Protection class	IP21
Relative humidity	max. 95% (no condensation)
Dimensions Ø × H	115 × 38 (mm)
Colour housing	white
Colour lens / light colour	clear / red
Weight	160g
Approval	2531-CPR-CSP11171

Cross-references	Page	Art.No.	Name Type
	150	359021	Lid for Detector Base Sounder/red 45681-293
	150	359020	Lid for Detector Base Sounder/white 45681-292
	150	359022	Mounting Plate for Sounder/WB/XP95 45681-311

355136 Sounder-Str/WB/XP95I/wh/cl/re/DIN/N 45681-334

The addressable sounder with integrated red strobe 45681-334 is installed in a round white plastic housing. The unit is actuated using Apollo protocol and powered via the loop. The sounder is always activated together with the strobe. The integrated detector base is suitable for accommodation of fire detectors Series XP95 and Discovery. The unit is prepared for indoor surface mounting.

If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone. In case of activation, the function of the sounder is monitored by means of an integrated microphone.

Depending on the parameter setup of the fire detection control panel and the system condition, the panel can activate the sounder with tone A or B. The address of the sounder and strobe as well as the sound level are set via the DIL switch. The unit contains a dual-isolator.

Features
- Tone A: DIN tone (DIN 33404; 1200 - 500Hz over 1s)
  Tone B: continuous tone 870Hz
- Sound level adjustable in two steps via DIL switch
- Simple address setting of inserted detector by code card in detector base
- Low power consumption due to the use of LEDs

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 300µA (quiescent)
	max. 8mA (sounder and strobe on)
Sound level	50 - 65dB(A) or 65 - 79dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-20°C to +60°C
Protection class	IP21
Relative humidity	max. 95% (no condensation)
Dimensions Ø × H	115 × 38 (mm)
Colour housing	white
Colour lens / light colour	clear / red
Weight	160g
Approval	0832-CPD-0401

Cross-references	Page	Art.No.	Name Type
	150	359021	Lid for Detector Base Sounder/red 45681-293
	150	359020	Lid for Detector Base Sounder/white 45681-292
	150	359022	Mounting Plate for Sounder/WB/XP95 45681-311

355152 NEW Sounder-Str/WB/XP95I/wh/cl/wh/Alt/O 45681-705

The structure of the addressable base sounder with integrated strobe 45681-705 is identical to that of the base sounder-strobe 45681-330, but the 45681-705 contains white very high-performance LEDs and has been tested according to EN 54-23 Class O.

Specifications (for further specifications, see 45681-330)

Current consumption from loop	typ. 350µA (quiescent)
	max. 14mA (sounder and strobe on)
Sound level	55 - 75dB(A) or 75 - 91dB(A) / 1m distance
Flash frequency	0.5Hz
EN 54-23 Category O - ceiling mounting	
Mounting height	max. 2.4m
Ambient temperature	-20°C to +60°C
Relative humidity	max. 95% (no condensation)
Colour lens / light colour	clear / white
Weight	168g
Approvals	LPCB 010aw/03
	2531-CPR-CSP11167

Cross-references	Page	Art.No.	Name Type
	150	359021	Lid for Detector Base Sounder/red 45681-293
	150	359020	Lid for Detector Base Sounder/white 45681-292
	150	359022	Mounting Plate for Sounder/WB/XP95 45681-311

355153 NEW Sounder-Str/WB/XP95I/wh/cl/wh/SW/O 45681-706

The structure of the addressable base sounder with integrated strobe 45681-706 is identical to that of the base sounder-strobe 45681-332, but the 45681-706 contains white very high-performance LEDs and has been tested according to EN 54-23 Class O.

Specifications (for further specifications, see 45681-332)

Current consumption from loop	typ. 350µA (quiescent)
	max. 14mA (sounder and strobe on)
Sound level	55 - 75dB(A) or 75 - 91dB(A) / 1m distance
Flash frequency	0.5Hz
EN 54-23 Category O - ceiling mounting	
Mounting height	max. 2.4m
Ambient temperature	-20°C to +60°C
Relative humidity	max. 95% (no condensation)
Colour lens / light colour	clear / white
Weight	168g
Approvals	LPCB 010aw/04
	0832-CPR-F0461

Cross-references	Page	Art.No.	Name Type
	150	359021	Lid for Detector Base Sounder/red 45681-293
	150	359020	Lid for Detector Base Sounder/white 45681-292
	150	359022	Mounting Plate for Sounder/WB/XP95 45681-311

355154 NEW

Sounder-Str/WB/XP95I/wh/cl/wh/DIN/O 45681-707

The structure of the addressable base sounder with integrated strobe 45681-707 is identical to that of the base sounder-strobe 45681-334, but the 45681-707 contains white very high-performance LEDs and has been tested according to EN 54-23 Class O.

Specifications (for further specifications, see 45681-334)

Current consumption from loop	typ. 350µA (quiescent)
	max. 14mA (sounder and strobe on)
Sound level	50 - 65dB(A) or 65 - 85dB(A) / 1m distance
Flash frequency	0.5Hz
EN 54-23 Category O - ceiling mounting	
Mounting height	max. 2.4m
Ambient temperature	-20°C to +60°C
Relative humidity	max. 95% (no condensation)
Colour lens / light colour	clear / white
Weight	168g
Approvals	LPCB 010aw/05
	2531-CPR-CSP11168

Cross-references	Page	Art.No.	Name Type
	150	359021	Lid for Detector Base Sounder/red 45681-293
	150	359020	Lid for Detector Base Sounder/white 45681-292
	150	359022	Mounting Plate for Sounder/WB/XP95 45681-311

355151 NEW

Sounder-Str/WB/Discl/wh/cl/wh/MT/O 45681-700

The addressable base sounder with integrated white strobe is installed in a round white plastic housing and is designed for indoor ceiling mounting. The integrated detector base can accommodate fire detectors Series XP95, Discovery and Soteria.

The sounder is actuated and powered via the loop with Apollo protocol. If several sounders are actuated in parallel, they are synchronised by the fire detection control panel to generate a uniform warning tone. In case of activation, the function of the sounder is monitored by means of an integrated microphone.

With a Fire Detection Control Panel Series BC600, tone type and sound level of the sounder are controlled via the loop protocol. For this purpose, the sound level and one of 15 different tone type combinations are selected in the parameter setup. As a result, the sounder can be activated with tone type 1 or 2 of the respective combination, depending on the parameter setup of the control panel and the system conditions.

With the appropriate parameter setup, the sounder and the strobe can also be activated separately. The unit has a dual-isolator.

Features

- 15 tone type combinations (e.g., DIN 33404 tone, Slow Whoop tone, continuous tone 970Hz)
- 7 sound levels
- Joint or separate activation of sounder and strobe
- Address of sounder-strobe is set via DIL switch
- Detector address is easily set with code card in the detector base

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 500µA (quiescent)
	max. 14mA (sounder and strobe on)
Sound level	60 - 90dB(A) / 1m distance
Flash frequency	0.5Hz
EN 54-23 Category O - ceiling mounting	
Mounting height	max. 2.4m
Ambient temperature	-20°C to +60°C
Protection class	IP21
Relative humidity	max. 95% (no condensation)
Dimensions Ø × H	115 × 38 (mm)
Colour housing	white
Colour lens / light colour	clear / white
Weight	168g
Approvals	VdS G218091
	2531-CPR-CSP11165

Cross-references	Page	Art.No.	Name Type
	150	359021	Lid for Detector Base Sounder/red 45681-293
	150	359020	Lid for Detector Base Sounder/white 45681-292
	150	359022	Mounting Plate for Sounder/WB/XP95 45681-311

12

355141 NEW

Sounder-Str./WM65/XP95I/red/100/N 55000-005

The addressable multitone sounder-strobe 55000-005 is accommodated in a red plastic housing with a red lens, and thanks to its dust and water protected design with protection class IP65, it is suitable for use under harsh environmental conditions. The unit is actuated and powered via the loop with Apollo protocol.

The integrated dual-isolator disconnects the loop at short circuit on the loop line. A short circuit on the loop is indicated by a yellow status LED.

If several sounder-strobes are actuated in parallel, they are synchronised by the fire detection control panel to generate a uniform warning tone and light pulse.

Depending on the parameter setup of the fire detection control panel and the system condition, the control panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch, with selection out of 3 combinations.

Features

- 3 different tone type combinations selectable via DIL switch (e.g., continuous tone 900Hz, DIN 33404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- Sound level adjustable in two steps
- Easy address setting via DIL switch
- Low power consumption due to the use of LEDs

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	max. 330µA (quiescent)
	max. 8mA (sounder on)
Sound level	max. 90dB(A) / 1m distance (DIN tone)
Flash frequency	1Hz
Ambient temperature	-10°C to +55°C
Relative humidity	max. 95% (no condensation)
Protection class	IP65
Dimensions Ø × D	98 × 105 (mm)
Colour housing / lens	red / red
Weight	260g
Approvals	LPCB 010ak/03
	2831-CPR-F2104

355142 NEW

Sounder-Str./WM65/XP95I/white/100/N 55000-006

The structure of the addressable multitone sounder-strobe 55000-006 is identical to that of the sounder-strobe 55000-005, but the 55000-006 is integrated in a white plastic housing with a white lens.

Specifications (for further specifications, see 55000-005)

Approvals	LPCB 010ak/04

355143 NEW

Sounder-Str./WM65/Discl/red/MT/100/N 58000-005

The addressable multitone sounder-strobe 58000-005 is accommodated in a red plastic housing with a red lens, and thanks to its dust and water protected design with protection class IP65, it is suitable for use under harsh environmental conditions. The unit is actuated and powered via the loop with Apollo protocol. The sounder is always activated together with the strobe.

The integrated dual-isolator disconnects the loop at short circuit on the loop line. A short circuit on the loop is indicated by a yellow status LED.

If several sounder-strobes are actuated in parallel, they are synchronised by the fire detection control panel to generate a uniform warning tone and light pulse. In case of activation, the function of the sounder is monitored by means of an integrated microphone.

Depending on the parameter setup of the fire detection control panel and the system condition, the control panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch, with selection out of 3 combinations.

With a Fire Detection Control Panel Series BC600, tone type and sound level of the sounder are controlled via the loop protocol. For this purpose, the sound level and one of 15 different tone type combinations are selected in the parameter setup. As a result, the sounder can be activated with tone type 1 or 2 of the respective combination, depending on the parameter setup of the control panel and the system conditions.

Features

- 15 tone type combinations (e.g., DIN 33404 tone, Slow Whoop tone, continuous tone 970Hz)
- 7 sound levels
- Easy address setting via DIL switch
- Low power consumption due to the use of LEDs

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	max. 450µA (quiescent) max. 8mA (sounder on)
Sound level (DIN tone)	max. 86dB(A) / 1m distance (DIN tone)
Flash frequency	1Hz
Ambient temperature	-20°C to +60°C
Relative humidity	max. 95% (no condensation)
Protection class	IP65
Dimensions Ø × D	98 × 105 (mm)
Colour housing / lens	red / red
Weight	260g
Approvals	LPCB 010ak/05 2831-CPR-F1494

355144 NEW

Sounder-Str./WM65/Discl/white/MT/100/N 58000-007

The structure of the addressable multitone sounder-strobe 58000-007 is identical to that of the sounder-strobe 58000-005, but the 58000-007 is integrated in a white plastic housing with a white lens.

Specifications (for further specifications, see 58000-005)

Approvals	LPCB 010ak/06

355137

Sounder-Str/WM/XP95I/re/re/100/N 55000-293

The addressable multitone sounder with integrated strobe 55000-293 is installed in a red plastic housing with red cap and is prepared for indoor surface mounting. The unit is actuated using Apollo protocol and powered via the loop. The sounder is always activated together with the strobe.

The integrated dual-isolator disconnects the loop at short circuit on the loop line. A short circuit on the loop is indicated by a yellow status LED.

If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone.

Depending on the parameter setup of the fire detection control panel and the system condition, the panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch, with selection out of 3 combinations.

Features

- 3 different tone type combinations selectable via DIL switch (e.g., continuous tone 900Hz, DIN 33404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- Sound level adjustable in two steps
- Easy address setting via DIL switch
- Low power consumption due to the use of LEDs

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	max. 1.2mA (quiescent) max. 9mA (sounder and strobe on)
Sound level	92dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-10°C to +55°C
Relative humidity	max. 95% (no condensation)
Protection class	IP21
Dimensions W × H × D	108 × 108 × 95 (mm)
Colour	red
Weight	209g
Approvals	VdS G210023 2531-CPR-CSP11136

355145 NEW

Sounder-Str./WM/XP95I/white/100/N 55000-294

The structure of the addressable multitone sounder-strobe 55000-294 is identical to that of the sounder-strobe 55000-293, but the 55000-294 is integrated in a white plastic housing with a white lens.

355138 Sounder-Str/WM66/XP95I/re/re/100/N 55000-298

The addressable multitone sounder with integrated strobe 55000-298 is installed in a red plastic housing with red cap and is prepared for outdoor surface mounting. The unit is actuated using Apollo protocol and powered via the loop. The sounder is always activated together with the strobe.

The integrated dual-isolator disconnects the loop at short circuit on the loop line. A short circuit on the loop is indicated by a yellow status LED.

If several sounders are actuated in parallel, they are synchronised by the control panel to generate a uniform warning tone.

Depending on the parameter setup of the fire detection control panel and the system condition, the panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch, with selection out of 3 combinations.

Features
- 3 different tone type combinations selectable via DIL switch (e.g., continuous tone 900Hz, DIN 33404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- Sound level adjustable in two steps
- Easy address setting via DIL switch
- Low power consumption due to the use of LEDs

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	max. 1.2mA (quiescent) max. 9mA (sounder and strobe on)
Sound level	93dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-20°C to +70°C
Relative humidity	max. 95% (no condensation)
Protection class	IP66
Dimensions W × H × D	110 × 110 × 105 (mm)
Colour	red
Weight	394g
Approvals	VdS G210023 2531-CPR-CSP11138

355146 NEW Sounder-Str./WM66/XP95I/white/100/N 55000-299

The structure of the addressable multitone sounder-strobe 55000-299 is identical to that of the sounder-strobe 55000-298, but the 55000-299 is integrated in a white plastic housing with a white lens.

355155 NEW Strobe/WB/XP95I/wh/cl/wh/O 45681-709

The addressable base strobe 45681-709 is installed in a round white plastic housing. The unit is actuated and powered via the loop with Apollo protocol. The integrated detector base can accommodate fire detectors Series XP95, Discovery and Soteria. The unit is designed for indoor ceiling mounting.

The strobe contains white very high-performance LEDs and has been tested according to EN 54-23 Class O. By means of an integrated test circuit, the function of the strobe is monitored in the event of activation. The unit has a dual-isolator.

Features
- Address of strobe is set via DIL switch
- Detector address is easily set with code card in the detector base
- Low power consumption due to the use of LEDs

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 350µA (quiescent)
	max. 9mA (strobe on)
Flash frequency	0.5Hz
EN 54-23 Category O - ceiling mounting	
Mounting height	max. 2.4m
Ambient temperature	-20°C to +60°C
Protection class	IP21
Relative humidity	max. 95% (no condensation)
Dimensions Ø × H	115 × 38 (mm)
Colour housing	white
Colour lens / light colour	clear / white
Weight	156g
Approvals	VdS G218093
	2531-CPR-CSP11169

Cross-references	Page	Art.No.	Name Type
	150	359021	Lid for Detector Base Sounder/red 45681-293
	150	359020	Lid for Detector Base Sounder/white 45681-292
	150	359022	Mounting Plate for Sounder/WB/XP95 45681-311

356020 Strobe/XP95/white/red/N 55000-877

The addressable loop-powered strobe 55000-877 with a red cap is integrated in a white plastic housing. It is triggered and supplied like a module via the loop using Apollo protocol. The strobe is designed to be inserted into a detector base Series XP95/Discovery and is suitable for indoor mounting.

Features
- Low power consumption due to use of LEDs
- Suitable for surface mounting

Specifications

Operating voltage	supply through the loop voltage
Current consumption	typ. 150µA (quiescent)
	max. 3mA (active)
Ambient temperature	-10°C to +60°C
Protection class	IP42
Dimensions Ø × H	100 × 52 (mm)
Colour	white / red
Weight	85g

Cross-references	Page	Art.No.	Name Type
	145	246025	Detector Base/XP95/Disc 45681-210
	150	359023	Housing IP67 for Strobe/XP95 29600-318
	145	246036	Isolator Detector Base/XP95/Disc 45681-284

356022 Strobe/XP95/white/clear/red/N 55000-878

The addressable loop-powered strobe 55000-878 with a clear cap and red LEDs is integrated in a white plastic housing. It is triggered and supplied like a module via the loop using Apollo protocol. The strobe is designed to be inserted into a detector base and is suitable for indoor mounting.

Features
- Low power consumption due to use of LEDs
- Suitable for surface mounting

Specifications

Operating voltage	supply through the loop voltage
Current consumption	typ. 150µA (quiescent)
	max. 3mA (active)
Ambient temperature	-10°C to +60°C
Protection class	IP42
Dimensions Ø × H	100 × 52 (mm)
Colour	white / clear
Weight	85g

Cross-references	Page	Art.No.	Name Type
	145	246025	Detector Base/XP95/Disc 45681-210
	150	359023	Housing IP67 for Strobe/XP95 29600-318
	145	246036	Isolator Detector Base/XP95/Disc 45681-284

356023 Strobe/XP95/white/amber/N 55000-879

The addressable loop-powered strobe 55000-879 with an orange cap is integrated in a white plastic housing. It is triggered and supplied like a module via the loop using Apollo protocol. The strobe is designed to be inserted into a detector base and is suitable for indoor mounting.

Features
- Low power consumption due to use of LEDs
- Suitable for surface mounting

Specifications

Operating voltage	supply through the loop voltage
Current consumption	typ. 150µA (quiescent)
	max. 3mA (active)
Ambient temperature	-10°C to +60°C
Protection class	IP42
Dimensions Ø × H	100 × 52 (mm)
Colour	white / orange
Weight	85g

Cross-references	Page	Art.No.	Name Type
	145	246025	Detector Base/XP95/Disc 45681-210
	150	359023	Housing IP67 for Strobe/XP95 29600-318
	145	246036	Isolator Detector Base/XP95/Disc 45681-284

12

356025 NEW Strobe/Core/re/cl/ws/W 55000-741

The addressable strobe with white light is integrated in a red plastic housing with a clear lens. It is actuated and powered via the loop with Apollo protocol. The unit is designed to be inserted into a standard detector base 45681-210 and is suitable for indoor and outdoor mounting.

The strobe has been tested according to EN 54-23 Class W (wall). It is used if optical alarming according to EN 54-23 is required.

If a Fire Detection Control Panel Series BC600 actuates several strobes in parallel, they are synchronised by the control panel to generate a uniform light pulse.

Features
- White very high-performance LEDs
- Address is easily set with code card in the detector base
- Protection class IP54 with standard detector base

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	max. 280µA (quiescent)
	max. 16mA (strobe active)
Flash frequency	0.5Hz
EN 54-23 Category W-2.4-6 – wall mounting	
Mounting height	max. 2.4m
Room size	max. 6m × 6m
Ambient temperature	-10°C to +55°C
Relative humidity	max 95% (no condensation)
Protection class	IP54 (with base 45681-210 or -284)
Dimensions Ø × D	100 × 48 (mm)
Colour housing	red
Colour lens / light colour	clear / white
Weight	105g
Approvals	VdS G217032
	2831-CPR-F0607

Cross-references	Page	Art.No.	Name Type
	145	246025	Detector Base/XP95/Disc 45681-210
	145	246036	Isolator Detector Base/XP95/Disc 45681-284

356026 NEW

Strobe/Core/re/cl/ws/C 55000-742

The addressable strobe with white light is integrated in a red plastic housing with a clear lens. It is actuated and powered via the loop with Apollo protocol. The unit is designed to be inserted into a standard detector base 45681-210 and is suitable for indoor and outdoor mounting.

The strobe has been tested according to EN 54-23 Class C (ceiling). It is used if optical alarming according to EN 54-23 is required. Thanks to the optimised design of the lens, the strobe evenly emits light in all directions, and therefore it can be mounted in any orientation.

If a Fire Detection Control Panel Series BC600 actuates several strobes in parallel, they are synchronised by the control panel to generate a uniform light pulse.

Features
- White very high-performance LEDs
- Address is easily set with code card in the detector base
- Protection class IP54 with standard detector base

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	max. 280µA (quiescent)
	max. 12mA (strobe active)
Flash frequency	0.5Hz
EN 54-23 Category C-3-8.5 – ceiling mounting	
Mounting height	max. 3m
Room size	max. Ø 8.5m, equals max. 6m × 6m
Ambient temperature	-10°C to +55°C
Relative humidity	max 95% (no condensation)
Protection class	IP54 (with base 45681-210 or -284)
Dimensions Ø × D	100 × 48 (mm)
Colour housing	red
Colour lens / light colour	clear / white
Weight	105g
Approvals	VdS G217033
	2831-CPR-F0608

Cross-references	Page	Art.No.	Name Type
	145	246025	Detector Base/XP95/Disc 45681-210
	145	246036	Isolator Detector Base/XP95/Disc 45681-284

356028 NEW

Strobe/Core/wh/cl/ws/W 55000-744

The structure of the addressable Strobe 55000-744 is identical to that of the Strobe 55000-741, but the 55000-744 is integrated in a white housing.

Specifications (for further specifications, see 55000-741)

Colour housing	white
Approvals	VdS G217035
	2831-CPR-F0610

356029 NEW

Strobe/Core/wh/cl/ws/C 55000-745

The structure of the addressable Strobe 55000-745 is identical to that of the Strobe 55000-742, but the 55000-745 is integrated in a white housing.

Specifications (for further specifications, see 55000-742)

Colour housing	white
Approvals	VdS G217036 2831-CPR-F0611

13 Accessories for Series ORBIS/XP95/DISCOVERY/SOTERIA

246042 NEW

Detector Base/Orbis MB-00001

The Detector Base MB-00001 is designed to accommodate automatic fire detectors Series Orbis and is suitable for indoor surface mounting.

Features
- Multi-wire terminals with secure screw fitting
- Terminal for external remote indicator

Specifications

Ambient temperature	-40°C to +70°C
Relative humidity	0 to 98% (no condensation)
Dimensions Ø × H	100 × 23 (mm)
Colour	white
Weight	60g

Cross-references	Page	Art.No.	Name Type
	147	246030	Backplate/Apo 45681-233
	146	246029	Conduit Box/Apo 45681-204

246041 NEW

Detector Base/Orbis/Relay RB-10004

The Detector Base RB-10004 is designed to accommodate automatic fire detectors Series Orbis and is suitable for indoor surface mounting. The integrated relay output is active as long as the detector remains in the alarm state. Application must comply with the LST Connection of Detectors.

Features
- Multi-wire terminals with secure screw fitting
- Relay output with dry changeover contact

Specifications

Current consumption	max. 7mA (active)
Contact rating	1A at 30VDC
Ambient temperature	-40°C to +70°C
Relative humidity	0 to 98% (no condensation)
Dimensions Ø × H	100 × 31 (mm)
Colour	white
Weight	80g

Cross-references	Page	Art.No.	Name Type
	147	246030	Backplate/Apo 45681-233
	146	246029	Conduit Box/Apo 45681-204

246060

Detector Base/XP95/Disc/Core SA5000-200

The Detector Base SA5000-200 is designed to accommodate automatic fire detectors Series XP95, Discovery and Soteria and is suitable for indoor surface mounting. The base comes with an address card by means of which the detector address can be set.

Features
- Connection to the loop using Apollo protocol
- Easy detector addressing in the range 1 to 254 through address card XPERT 8 in mounting base
- Multi-wire terminal with secure screw fitting
- Terminal for external remote indicator
- Mechanical theft protection can be activated

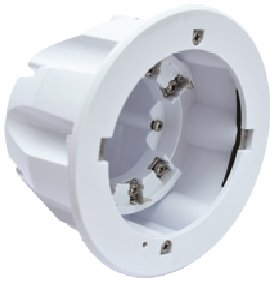
Specifications

Ambient temperature	-40°C to +70°C (no condensation or icing)
Relative humidity	max. 95% (no condensation)
Dimensions Ø × H	100 × 20 (mm)
Colour	white
Weight	63g

Cross-references	Page	Art.No.	Name Type
	149	249338	Address Card/XP95/Core/Discovery 38532-064
	147	246030	Backplate/Apo 45681-233
	146	246029	Conduit Box/Apo 45681-204

246170 NEW

Detector Base/FLx100 FL5000-200



The plastic hollow wall box with integrated detector base is needed for mounting the Optical Smoke Detectors FL5100-600 and FL6100-600 flush with the ceiling and for their electrical connection.

Specifications

Dimensions Ø × H	132 × 71 (mm)
Ceiling cut-out Ø	min. 114mm
Thickness of inserted ceiling	min. 9mm
Weight	125g

246025

Detector Base/XP95/Disc 45681-210

The Detector Base 45681-210 is designed to accommodate automatic fire detectors Series XP95 and Discovery and is suitable for indoor surface mounting. The detector address is set by means of a code card, which is delivered with the base.

Features
- Connection to loop using Apollo protocol
- Easy detector addressing through address card in mounting base
- Multi-wire terminals with secure screw fitting
- Terminal for external remote indicator
- Mechanical theft protection can be activated

Specifications

Ambient temperature	-20°C to +60°C (no condensation or icing)
Relative humidity	10 to 95% (no condensation)
Dimensions Ø × H	100 × 15 (mm)
Colour	white
Weight	50g

Cross-references	Page	Art.No.	Name Type
	149	249039	Address Cards/100pcs./XP95/Discovery 38531-771
	147	246030	Backplate/Apo 45681-233
	146	246029	Conduit Box/Apo 45681-204

246036

Isolator Detector Base/XP95/Disc 45681-284

The mounting base with integrated dual-isolator is used to accommodate automatic fire detectors Series XP95 and Discovery and is suitable for indoor surface mounting. The base is delivered with a code card for the setting of the detector address.

Features
- Connection to loop using Apollo protocol
- Wiring of the loop across several fire areas
- Easy detector addressing through address card in mounting base
- Full operation of all loop elements not affected by the short circuit
- Multi-wire terminals with secure screw fitting
- Terminal for external remote indicator
- Mechanical theft protection can be activated

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 43µA
Ambient temperature	-20°C to +60°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	100 × 24 (mm)
Colour	white
Weight	100g
Approvals	VdS G210033 LPCB 010aa/01 2531-CPR-CSP11176

Cross-references	Page	Art.No.	Name Type
	149	249039	Address Cards/100pcs./XP95/Discovery 38531-771
	147	246030	Backplate/Apo 45681-233
	146	246029	Conduit Box/Apo 45681-204

246044 Detector Base/XP95/Disc 45681-219

The Detector Base 45681-219 is designed to accommodate optical smoke detectors and ionisation smoke detectors Series XP95 and Discovery. Thanks to the integrated heating elements, the base is suitable for surface mounting in very moist areas (loading ramps, cable ducts, etc.). The heating elements are powered by an external power supply. The detector address is set by means of a code card, which is delivered with the base.

Features

- Connection to the loop using Apollo protocol
- Easy detector addressing through address card in mounting base
- Multi-wire terminals with secure screw fitting
- Terminal for external remote indicator
- Mechanical theft protection can be activated

Specifications

Operating voltage for heating	20 to 30VAC/DC
Current consumption at 24V	typ. 125mA
Ambient temperature	-30°C to +40°C
Dimensions Ø × H	100 × 24 (mm)
Colour	white
Weight	100g

Cross-references	Page	Art.No.	Name Type
	149	249039	Address Cards/100pcs./XP95/Discovery 38531-771

246029 Conduit Box/Apo 45681-204

The supplement base is needed in addition to the detector bases Series 65, Orbis, XP95, Discovery and Soteria when they are surface mounted using cable conduits or thick cables. The supplement base is prepared for the use of cable glands M16 or M20.

Specifications

Dimensions Ø × H	100 × 30 (mm)
Colour	white
Weight	60g

Cross-references	Page	Art.No.	Name Type
	144	246041	Detector Base/Orbis/Relay RB-10004
	144	246042	Detector Base/Orbis MB-00001
	144	246060	Detector Base/XP95/Disc/Core SA5000-200
	145	246025	Detector Base/XP95/Disc 45681-210
	195	246027	Detector Base/XP95/Ex 45681-215
	145	246036	Isolator Detector Base/XP95/Disc 45681-284

246030 Backplate/Apo 45681-233

The supplement base is needed in addition to the detector bases Series 65, Orbis, XP95, Discovery and Soteria when they are surface mounted, as well as to protect the mounting area against dust or dirt.

Specifications

Dimensions Ø × H	112 × 15 (mm)
Colour	white
Weight	40g

Cross-references	Page	Art.No.	Name Type
	144	246041	Detector Base/Orbis/Relay RB-10004
	144	246042	Detector Base/Orbis MB-00001
	144	246060	Detector Base/XP95/Disc/Core SA5000-200
	145	246025	Detector Base/XP95/Disc 45681-210
	195	246027	Detector Base/XP95/Ex 45681-215
	145	246036	Isolator Detector Base/XP95/Disc 45681-284

246046 Recessed Mounting Kit/APO-Detector 45681-309

The Recessed Mounting Kit 45681-309 is used for flush mounting of an automatic fire detector Series XP95, Discovery or Soteria on an inserted ceiling made of mineral fibre. The recessed mounting kit consists of the installation box with knock-out openings for the cabling, as well as the cover plate. The detector base is mounted on the installation box, flush with the inserted ceiling.

Specifications

Dimensions Ø × H	160 × 44 (mm)
Cover plate Ø	151mm
Ceiling cut-out Ø	127mm
Colour	white
Weight	152g

246047 Recessed Mounting Kit/APO-Sounder 45681-310

The Recessed Mounting Kit 45681-310 is used for flush mounting of a detector base sounder Series XP95 on an inserted ceiling made of mineral fibre. The recessed mounting kit consists of the installation box with knock-out openings for the cabling, as well as the cover plate. The detector base sounder is mounted on the installation box, flush with the inserted ceiling.

Specifications

Dimensions Ø × H	160 × 44 (mm)
Cover plate Ø	151mm
Ceiling cut-out Ø	127mm
Colour	white
Weight	144g

246050 Duct Detector Housing/XP95 53546-022

The Duct Detector 53546-022 monitors ventilation ducts with a depth of between 300 and 3000mm. The detector housing contains a base which accommodates an Optical Smoke Detector 55000-620 (Series XP) or 58000-600 (Series Discovery). The detector is connected to the fire detection control panel via the loop and communicates by means of the Apollo protocol.

The status LED of the smoke detector can be seen through the transparent cover of the housing. Thanks to the test port in the case cover, the detector can easily be tested with test gas.

An air inlet pipe for ducts with a depth of up to 540mm as well as the air escape pipe are included in the delivery. For deeper ducts, longer air inlet pipes are available as accessories.

Specifications

Ambient temperature	0°C to +50°C
Air velocity	0.5m/s to 20m/s
Dimensions W × H × D	
without inlet and outlet nozzles	370 × 118 × 65 (mm)
overall	370 × 118 × 96 (mm)
Air inlet pipe Ø × L	18 × 360 (mm)
Colour	transparent, mouse grey, RAL 7005
Weight	940g (including pipes)

Cross-references	Page	Art.No.	Name Type
	148	246051	Duct Detector Pipe/0.75m 53541-170
	148	246052	Duct Detector Pipe/1.5m 53541-171
	148	246053	Duct Detector Pipe/3.0m 53541-172
	109	241027	Optical Smoke Detector/Disc 58000-600
	108	241023	Optical Smoke Detector/XP95 55000-620

246051 Duct Detector Pipe/0.75m 53541-170

The air inlet pipe is used together with the Duct Detector 53546-022 to monitor ventilation ducts with a depth of between 0.15 and 0.75m.

Specifications

Material	steel, galvanised
Dimensions Ø × L	18 × 762 (mm)
Weight	330g

13

246052 Duct Detector Pipe/1.5m 53541-171

The air inlet pipe is used together with the Duct Detector 53546-022 to monitor ventilation ducts with a depth of between 0.75 and 1.5m.

Specifications

Material	steel, galvanised
Dimensions Ø × L	18 × 1524 (mm)
Weight	660g

246053 Duct Detector Pipe/3.0m 53541-172

The air inlet pipe is used together with the Duct Detector 53546-022 to monitor ventilation ducts with a depth of between 1.5 and 3m.

Specifications

Material	steel, galvanised
Dimensions Ø × L	18 × 3048 (mm)
Weight	1.3kg

246033 Detector Heater/XP95/Disc MH95-1

The mounting base MH95-1 with included heating is used for the application of an Apollo Series XP95 or Discovery optical smoke detector in extremely moist areas (e.g., loading ramps, cable ducts). A detector base with area heater and an installation box with connection terminals and a remote indicator are mounted together on a mounting plate.

Features

- Connection terminals for all incoming and outgoing cables
- Detector base pre-wired on the terminals
- Additional remote indicator on the installation box

Specifications

Operating voltage	max. 48VAC
Power consumption	12W
Dimensions L × W × H	310 × 175 × 120 (mm)
Weight	1.3kg

Cross-references	Page	Art.No.	Name Type
	109	241027	Optical Smoke Detector/Disc 58000-600
	108	241023	Optical Smoke Detector/XP95 55000-620
	154	249014	PSU For Detector Heater MH-TR1

249028 DISCON. Address Module Conventional/60/65 NG60-1

The electronic component is needed for the application in addressable conventional technology and serves for the individual or group identification of Series 65 and Orbis automatic conventional detectors as well as manual call points, special detectors and other contact-activating devices.

Features
- Double-digit indication of the detector number and parameterised clear text on the display of a compatible fire detection control panel
- Detector number setting from 0 to 63
- Open-collector output for triggering a remote indicator
- Alternatively applicable for individual detector addressing or identification of a detector group

Specifications

Current consumption at 24V	18mA (active)
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	38 × 19 × 5 (mm) without leads
Weight	10g

249338 Address Card/XP95/Core/Discovery 38532-064

The address card XPERT 8 is used for setting the physical address in the detector base of an automatic fire detector Series XP95, Discovery or Soteria, as well as of a loop strobe. The address is set in the range 1 to 254 by breaking off the binary coded "pips".

Note: one address card is included in each detector base.

Features
- No electronics contained
- Easy programming
- Easy to replace

Specifications

Address range	01 to 254
Dimensions L × W × H	55 × 20 × 4 (mm)
Colour	white
Weight	2g

249039 Address Cards/100pcs./XP95/Discovery 38531-771

The address card is used for setting the physical address in the detector base of an automatic fire detector Series XP95 or Discovery or a loop strobe. 100 pieces of unprogrammed address card are included in the packing unit.

Note: an address card is included in each detector base.

Features
- No electronics contained
- Easy programming
- Easy to replace

Specifications

Address range	01 to 126
Dimensions L × W × H	55 × 20 × 4 (mm)
Colour	white
Weight per card	2g

359020 Lid for Detector Base Sounder/white 45681-292

The white cover lid serves for the protection of a loop base signalling device Series XP95 or Discovery, if no detector is inserted.

Specifications

Colour	white
Dimensions Ø × H	100 × 9 (mm)
Weight	20g

359021 Lid for Detector Base Sounder/red 45681-293

The red cover lid serves for the protection of a loop base signalling device Series XP95 or Discovery, if no detector is inserted.

Specifications

Colour	red
Dimensions Ø × H	100 × 9 (mm)
Weight	20g

359022 Mounting Plate for Sounder/WB/XP95 45681-311

The white mounting plate is used for surface-mount cabling of a loop base signalling device Series FI750, FI700, XP95 or Discovery.

Specifications

Colour	white
Dimensions Ø × H	116 × 11 (mm)
Weight	28g

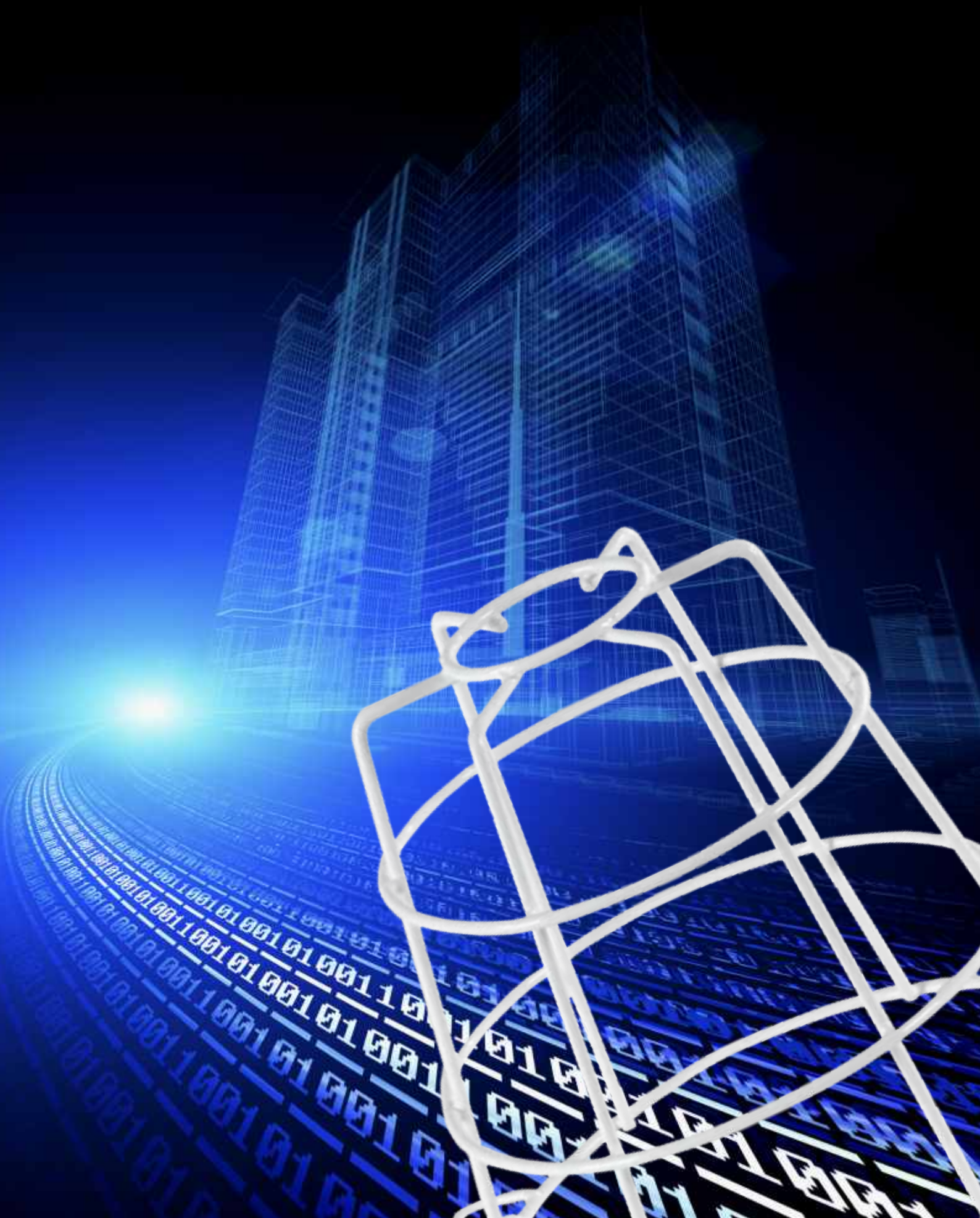
359023 Housing IP67 for Strobe/XP95 29600-318

The protection housing 29600-318 consists of a grey bottom part made of plastic and a transparent cover. The housing protects an addressable loop-powered strobe Series XP95 from dust and humidity.

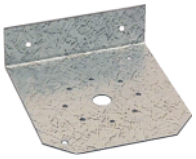
Specifications

Ambient temperature	-40°C to +80°C
Protection class	IP67
Dimensions W × H × D	125 × 125 × 100 (mm)
Weight	292g

14 Accessories for Detectors - general



249044 Detector Mounting Bracket MMW1-1

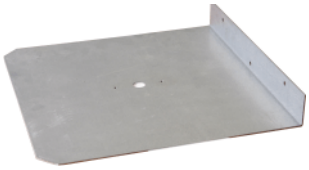


The metal bracket is made of galvanised steel sheet and serves for the lateral mounting of an automatic fire detector, for example in inserted floors, elevator shafts or shelves. The bracket is provided with two M4 threaded holes for easy mounting of a detector base.

Specifications

Dimensions L × W × H	120 × 120 × 40 (mm)
Weight	300g

249081 Detector Mounting Bracket MMW2-1



The metal bracket is made of galvanised steel sheet and serves for the lateral mounting of an automatic fire detector in elevator shafts or in shelves. As a result of its size, the detector mounting bracket improves the inflow of smoke to the detector. The detector mounting bracket corresponds to TRVB 123. The bracket is provided with two M4 threaded holes for easy mounting of a detector base.

Specifications

Dimensions L × W × H	300 × 300 × 40 (mm)
Weight	1.55kg

249635 Trapeze Bracket TBH800-1

The trapezoid steel bracket is used for mounting a detector base on a trapezoid ceiling. The bracket is suitable for mounting of various detector series in conventional or loop technology.

Specifications

Dimensions L × W × H	35 × 95 × 95 (mm)
Weight	150g

246604 False Floor Mounting Bracket DBK-VAR

The false floor mounting bracket is needed to mount an automatic fire detector on the framework of a false floor. The clip allows mounting at a variable height on tubes with a diameter of up to 50mm. It does not come with a base.

Specifications

Dimensions L × W × H	375 × 30 × 40 (mm)
Colour	grey white, RAL 9002
Weight	310g

249711 Detector Mounting Bracket/Ceiling MMK-90

The Detector Mounting Bracket MMK-90 is used to align an automatic detector when it is mounted on a sloping ceiling. The mounting material is included in the delivery.

Specifications

Material	powder coated sheet steel
Dimensions L × W × H	150 × 110 × 11 (mm)
Angle of tilt	0 to 90°
Colour	pure white, RAL 9010
Weight	400g

249712

Detector Mounting Bracket/Floor/Ceiling MMK-200/350

The tiltable Detector Mounting Bracket MMK-200/350 is used for mounting automatic detectors on the floor or ceiling. The length is continuously adjustable between 200 and 350mm, depending on the application.

Specifications

Material	powder coated sheet steel
Dimensions W × H × D	105 × 350 × 82 (mm)
Length (adjustable)	200 to 350mm
Angle of tilt	0 to 90°
Colour	pure white, RAL 9010
Weight	800g

249713

Detector Mounting Bracket/Floor/Ceiling MMK-400/550

The tiltable Detector Mounting Bracket MMK-400/550 is used for mounting automatic detectors on the floor or ceiling. The length is continuously adjustable between 400 and 550mm, depending on the application.

Specifications

Material	powder coated sheet steel
Dimensions W × H × D	105 × 445 × 82 (mm)
Length (adjustable)	400 to 550mm
Angle of tilt	0 to 90°
Colour	pure white, RAL 9010
Weight	1.2kg

249277

Auxiliary Plate False Ceiling ZP-ZD-1

The auxiliary plate ZP-ZD-1 makes it easier to mount a detector base of any brand on false ceilings, for example if they are made of mineral fibre boards. The auxiliary plate is placed above the ceiling panel and screwed together with the detector base below the panel.

249648

Protective Cage BWS-3/D1

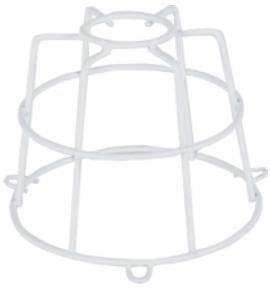
The protective cage is used to protect a detector against mechanical impacts (e.g., ball shots) and unauthorised removal.

Specifications

Material	steel wire ST37
Dimensions Ø × H	
Protective cage	145 × 142 (mm)
Protected device	max. 130 × 130 (mm)
Colour	white
Weight	153g

249647

Protective Cage/small/conical BWS-2/D1



The protective cage is used to protect a detector against mechanical impacts (e.g., ball shots) and unauthorised removal.

Specifications

Material	steel wire ST37
Dimensions Ø × H	
Protective cage	131 × 100 (mm)
Protected device	max. 110 × 88 (mm)
Colour	white
Weight	97g

249014

PSU For Detector Heater MH-TR1

The power supply unit serves for generating the heating voltage for the detector heaters MH750-1, MH500-1, MH60-1 and MH95-1.

Features

- Power supply for up to ten detector heaters
- Optical indication for operation and fault
- Monitored heating voltage, the malfunction can be forwarded to the fire detection control panel as fault message
- Wall-mount cabinet for surface mounting

Specifications

Mains voltage	230VAC +10/-15%, 50Hz
Power consumption	200VA
Heating voltage	40VAC
Output current	5A
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	200 × 300 × 155 (mm)
Colour	light grey, RAL 7035
Weight	9kg

Cross-references	Page	Art.No.	Name Type
	95	249027	Detector Base/500/200/Heater MH500-1
	39	249279	Detector Base/7500/Heater MH750-1
	148	246033	Detector Heater/XP95/Disc MH95-1

15 Manual Call Points, conventional

240302 Manual Call Point/Red/Conventional HME/3000/11/H1/02

The manual call point according to EN 54-11 / type B in the aluminium die-cast design housing is implemented in addressable conventional technology. The detector is activated by breaking the glass pane and pressing the button.

Features
- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Red LED for the optical indication of the activation condition
- Latching push button
- Easy to replace standardised glass plate
- Detector housing can be opened with key SCHL-HFM/HM (not included)
- Individual detector addressing by connecting an optional address module
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54, or to IP65 through a factory upgrade
- Optional protective cover can provide additional mechanical protection

Specifications

Operating voltage	supplied through detector line voltage
Ambient temperatur	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43 (without upgrade)
Dimensions W × H × D	126 × 126 × 35 (mm)
Colour	red, similar to RAL 3000
Weight	approx. 420g
Approvals	VdS G218045 0786-CPR-21594

Cross-references	Page	Art.No.	Name Type
	95	249020	Address Module Conventional NG58-1
	166	249681	Key for Manual Call Point SU=10 SCHL-HM/10
	165	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	164	249633	Protective Cover V2A for MCP/Red WG/ROT-E-1
	166	249680	Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10

15

240108 NEW Manual Call Point/red/Conventional/FEUER HME/3000/12/52/02/IP65

As regards the function and cross-references, this red manual call point is identical to the Manual Call Point HME/3000/11/H1/02; however, thanks to the gasket elements which have already been installed, it has protection class IP65.

Additional features
- Changeable door label with house symbol + "FEUER", house symbol on the reverse
- Second change-over contact by means of which additional switching actions can be carried out in the event of activation
- 2 cable glands M20×1.5mm, 1 dummy cable gland

Specifications (for further specifications, see HME/3000/11/H1/02)

Contact rating 2nd change-over c.	max. 2A/25VAC or 2A/60VDC
Protection class	IP65
Weight	approx. 450g

240322 Manual Call Point/Blue/Conventional/HAUSALARM HME/5015/11/02/02

The manual call point in the blue aluminium die-cast design housing is implemented in addressable conventional technology. The detector is activated by breaking the glass pane and pressing the button.

Features
- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Door label "HAUSALARM", replaceable
- Red LED for the optical indication of the activation condition
- Latching (default) or non-latching push button
- Easy to replace standardised glass plate
- Detector housing can be opened with key SCHL-HFM/HM (not included)
- Individual detector addressing by connecting an optional address module
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54, or to IP65 through a factory upgradeOptional protective cover can provide additional mechanical protection

Specifications

Operating voltage	supplied through detector line voltage
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43 (without upgrade)
Dimensions W × H × D	126 × 126 × 35 (mm)
Colour	blue, similar to RAL 5015
Weight	approx. 420g

Cross-references	Page	Art.No.	Name Type
	95	249020	Address Module Conventional NG58-1
	166	249681	Key for Manual Call Point SU=10 SCHL-HM/10
	165	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	164	249634	Protective Cover V2A for MCP/Blue WG/BLAU-E-1
	166	249680	Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10
	166	249675	Special Designation HME/Sheet-10pcs. HME-BESCH-BOG

240160 NEW Manual Call Point/blue/Grenzwert/HAUSALARM HME/5015/12/02/02/IP65

As regards the function and cross-references, this blue manual call point is identical to the Manual Call Point HME/5015/11/02/02; however, thanks to the gasket elements which have already been installed, it has protection class IP65.

Additional features
- Second change-over contact by means of which additional switching actions can be carried out in the event of activation
- 2 cable glands M20×1.5mm, 1 dummy cable gland

Specifications (for further specifications, see HME/5015/11/02/02)

Contact rating 2nd change-over c.	max. 2A/25VAC or 2A/60VDC
Protection class	IP65
Weight	approx. 450g

240332 NEW

Manual Call Point/yellow/Conv/HANDAUSL HME/1021/11/17/02

The manual call point in the yellow aluminium die-cast design housing operates as electrical activation device for extinguishing systems using gaseous or other extinguishing agents and is implemented in addressable conventional technology. The detector is activated by breaking the glass pane and pressing the button. The manual call point has been tested and certified according to the standards EN 54-17 and EN 12094-3.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Changeable door label "HANDAUSLÖSUNG-Gaslöschanlage" according to EN 12094-3, with "HANDAUSLÖSUNG-Feuerlöschanlage" according to VdS 2496 on the reverse
- Red LED for the optical indication of the activation condition
- Latching push button
- Easy to replace standardised glass plate
- Detector housing can be opened with key SCHL-HFM/HM (not included)
- Individual detector addressing by connecting an optional address module
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54, or to IP65 through a factory upgrade
- Optional protective cover can provide additional mechanical protection

Specifications

Operating voltage	supplied through detector line voltage
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43 (without upgrade)
Dimensions W × H × D	126 × 126 × 35 (mm)
Colour	yellow, similar to RAL 1021
Weight	approx. 420g
Approvals	VdS G218046 0786-CPR-21595

Cross-references	Page	Art.No.	Name Type
	95	249020	Address Module Conventional NG58-1
	166	249681	Key for Manual Call Point SU=10 SCHL-HM/10
	165	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	164	249636	Protective Cover V2A for MCP/Yellow WG/GELB-E-1
	166	249680	Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10
	166	249675	Special Designation HME/Sheet-10pcs. HME-BESCH-BOG

240109 NEW

Manual Call Point/yellow/Conv/HANDAUSL HME/1021/12/17/02/IP65

As regards the function and cross-references, this yellow manual call point is identical to the Manual Call Point HME/1021/11/17/02; however, thanks to the gasket elements which have already been installed, it has protection class IP65.

Additional features

- Second change-over contact by means of which additional switching actions can be carried out in the event of activation
- 2 cable glands M20×1.5mm, 1 dummy cable gland

Specifications (for further specifications, see HME/1021/11/17/02)

Contact rating 2nd change-over c.	max. 2A/25VAC or 2A/60VDC
Protection class	IP65
Weight	approx. 450g

240342 NEW

Manual Call Point/blue/Conventional/STOPP HME/5015/11/18/02

The manual call point in the blue aluminium die-cast design housing operates as electrical emergency hold device for extinguishing systems using gaseous or other extinguishing agents and is implemented in addressable conventional technology. The detector is activated by breaking the glass pane and pressing the button. The manual call point has been tested and certified according to the standards EN 54-17 and EN 12094-3.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Door label "STOPP-TASTER Gaslöschanlage", replaceable
- Red LED for the optical indication of the activation condition
- Non-latching push button
- Easy to replace standardised glass plate
- Detector housing can be opened with key SCHL-HFM/HM (not included)
- Individual detector addressing by connecting an optional address module
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54, or to IP65 through a factory upgrade
- Optional protective cover can provide additional mechanical protection

Specifications

Operating voltage	supplied through detector line voltage
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43 (without upgrade)
Dimensions W × H × D	126 × 126 × 35 (mm)
Colour	blue, similar to RAL 5015
Weight	approx. 420g
Approvals	VdS G218047 0786-CPR-21596

Cross-references	Page	Art.No.	Name Type
	95	249020	Address Module Conventional NG58-1
	166	249681	Key for Manual Call Point SU=10 SCHL-HM/10
	165	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	164	249634	Protective Cover V2A for MCP/Blue WG/BLAU-E-1
	166	249680	Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10
	166	249675	Special Designation HME/Sheet-10pcs. HME-BESCH-BOG

240161 NEW

Manual Call Point/blue/Grenzwert/STOPP HME/5015/12/18/02/IP65

As regards the function and cross-references, this blue manual call point is identical to the Manual Call Point HME/5015/11/18/02; however, thanks to the gasket elements which have already been installed, it has protection class IP65.

Additional features

- Second change-over contact by means of which additional switching actions can be carried out in the event of activation
- 2 cable glands M20×1.5mm, 1 dummy cable gland

Specifications (for further specifications, see HME/5015/11/18/02)

Contact rating 2nd change-over c.	max. 2A/25VAC or 2A/60VDC
Protection class	IP65
Weight	approx. 450g

240679 NEW

Manual Call Point/green/Conv/STEUERUNGEN HME/6002/12/29/00/N

The manual call point in the green aluminium die-cast design housing is implemented in addressable conventional technology. By means of a second change-over contact which is specified for mains voltage, additional switching actions can be carried out in the event of activation. The detector is activated by breaking the glass pane and pressing the button.

Depending on which side of the replaceable door label that has text printed on both sides is visible, the manual call point can be used for the following functions:

- Door label "AUSLÖSUNG ALLE STEUERUNGEN" (delivery condition): The manual call point is required according to ÖNORM F 3001 for manually overriding fire controls. The detector is to be connected to the fire control panel.
- Door label "AUFZUG BRANDFALLSTEUERUNG" (reverse): The manual call point is required according to TRVB S 111 for actuating lifts in the event of fire. The detector is to be connected to the lift control or - if the building is equipped with a fire detection system - to the fire control panel.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Red LED for the optical indication of the activation condition
- Latching (default) or non-latching push button
- Easy to replace standardised glass plate
- Detector housing can be opened with key SCHL-HFM/HM (not included)
- Individual detector addressing by connecting an optional address module
- Second switch with change-over contact
- Terminal for protective earthing in case of mains voltage operation of the change-over contact
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54, or to IP65 through a factory upgrade
- Optional protective cover can provide additional mechanical protection

Specifications

Operating voltage	supplied through detector line voltage
Contact rating 2nd change-over c.	max. 2A/250VAC or 2A/60VDC
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43 (without upgrade)
Dimensions W × H × D	126 × 126 × 35 (mm)
Colour	green, similar to RAL 6002
Weight	approx. 420g

Cross-references	Page	Art.No.	Name Type
	95	249020	Address Module Conventional NG58-1
	166	249681	Key for Manual Call Point SU=10 SCHL-HM/10
	165	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	164	249694	Protective Cover V2A for MCP/Green WG/GRÜN-E-1
	166	249680	Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10
	166	249675	Special Designation HME/Sheet-10pcs. HME-BESCH-BOG

15

240800 NEW

Manual Call Point/white/S2/NOTFALL HME/1013/92/40/00

The manual call point in the white aluminium die-cast design housing contains two independent switches with one change-over contact each. The detector is activated by breaking the glass pane and pressing the button.

The manual call point is designed for connection to a danger detection system and is used if quick alarming of the helping forces is required.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Blue user interface with operating instructions in the form of white symbols (EN 54-11)
- Door label "NOTFALL", replaceable
- Latching (default) or non-latching push button
- Easy to replace standardised glass plate
- Detector housing can be opened with key SCHL-HFM/HM (not included)
- Two switches with change-over contact
- Protection class can be upgraded to IP54 by using the optional Protection Kit for Manual Call Point HME-ZS-IP54, or to IP65 through a factory upgrade
- Optional protective cover can provide additional mechanical protection

Specifications

Contact rating of switches	max. 2A/25VAC or 2A/60VDC
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43 (without upgrade)
Dimensions W × H × D	126 × 126 × 35 (mm)
Colour	white, similar to RAL 1013
Weight	approx. 420g

Cross-references	Page	Art.No.	Name Type
	95	249020	Address Module Conventional NG58-1
	166	249681	Key for Manual Call Point SU=10 SCHL-HM/10
	165	249670	Protection Kit IP54 for MCP HME-ZS-IP54
	166	249680	Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10
	166	249675	Special Designation HME/Sheet-10pcs. HME-BESCH-BOG

245047

Key Switch K20SWS-11

The key switch with 2 switch positions is integrated in a white plastic case. By means of the switch, operating conditions of fire detection systems or extinguishing systems which require authorization through a key, can be switched. For example, it is possible to switch between day and night operation or between automatic and manual mode in this way.

The key switch is designed for indoor surface mounting.

Features

- 2 positions, key can be taken out in both positions
- 2 keys included in the delivery

Specifications

Contact rating	max. 6A/24VDC or 2A/250VAC
Ambient temperature	-20°C to +55°C
Protection class	IP24
Dimensions W × H × D	87 × 87 × 52 (mm)
Colour	pure white, RAL 9010
Weight	160g

16 Accessories for Manual Call Points

249633 Protective Cover V2A for MCP/Red WG/ROT-E-1

The red protective cover made of V2A stainless steel is used to protect a red manual call point Series HFM, Series HM or Series HME under harsh environmental conditions.

Features
- Top-side and lateral rain protection
- Additional mechanical protection
- Cable entry from back side or bottom side possible

Specifications

Dimensions W × H × D	130 × 145 × 55 (mm)
Colour	red, RAL 3000
Weight	250g

249634 Protective Cover V2A for MCP/Blue WG/BLAU-E-1

The blue protective cover made of V2A stainless steel is used to protect a blue manual call point Series HM or Series HME under harsh environmental conditions.

Features
- Top-side and lateral rain protection
- Additional mechanical protection
- Cable entry from back side or bottom side possible

Specifications

Dimensions W × H × D	130 × 145 × 55 (mm)
Colour	blue, RAL 5015
Weight	250g

249636 Protective Cover V2A for MCP/Yellow WG/GELB-E-1

The yellow protective cover made of V2A stainless steel is used to protect a yellow manual call point Series HM or Series HME under harsh environmental conditions.

Features
- Top-side and lateral rain protection
- Additional mechanical protection
- Cable entry from back side or bottom side possible

Specifications

Dimensions W × H × D	130 × 145 × 55 (mm)
Colour	yellow, RAL 1021
Weight	250g

249694 NEW Protective Cover V2A for MCP/Green WG/GRÜN-E-1

The green protective cover made of V2A stainless steel is used to protect a green manual call point Series HM or Series HME under harsh environmental conditions.

Features
- Top-side and lateral rain protection
- Additional mechanical protection
- Cable can be entered from behind or from below

Specifications

Dimensions W × H × D	130 × 145 × 55 (mm)
Colour	leaf green, RAL 6002
Weight	250g

249691 Protective Cover V2A for MCP/Orange WG/ORANGE-E-1

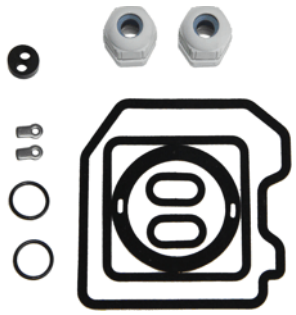
The orange protective cover made of V2A stainless steel is used to protect an orange manual call point Series HM or Series HME under harsh environmental conditions.

Features
- Top-side and lateral rain protection
- Additional mechanical protection
- Cable can be entered from behind or from below

Specifications

Dimensions W × H × D	130 × 145 × 55 (mm)
Colour	deep orange, RAL 2011
Weight	250g

249670 Protection Kit IP54 for MCP HME-ZS-IP54



The accessory kit is used for increasing the protection class of manual call points Series HME to IP54. The kit includes various gasket elements, two plastic cable glands M20×1.5, a multi-part seal insert, two oval head screws M3×5 with the holders that belong to them, a label as well as the mounting instruction.

249674 Factory Upgrade IP65 for MCP HME-ZS-IP65

----- Available on request -----

When Manual Call Points Series HME are upgraded at the factory to protection class IP65, the door is coated with foamed seals. The glass pane is provided with the additional mounting elements at the factory. The delivery scope also includes two threaded cable glands M20×1.5 made of plastic, a seal insert, a label as well as the mounting instruction.

249071 Protection Cover HFM/HM 3150

The robust outer housing is made of crystal-clear plastic and is used to protect a manual call point Series HME or HFM/HM against splashing water or mechanical damage. Therefore the detector can be used, for example, in areas which are cleaned with high-pressure water blasters. The manual call point can be activated after lifting the upper part of the outer housing.

Specifications

Protection class	IP54
Dimensions W × H × D	241 × 193 × 99 (mm)
Weight	450g

249721 NEW Protection Cover HME/HFM E-COVER/OAL/WS

The robust outer housing is made of crystal-clear plastic and is used to protect a manual call point Series HME or HFM/HM against mechanical damage (for example, in sports halls). The manual call point can be activated after lifting the upper part of the outer housing.

The bottom part of the outer housing is screwed to the wall. The mounting accessories are included in the delivery scope. Versions in other colours, with higher protection class, or with an alarm that is activated when they are opened are available on request.

Specifications

Material	Polycarbonate
Dimensions W × H × D	176 × 246 × 53 (mm)
Colour of bottom part	white
Weight	650g

249152 Protection Cover MCP MCP-COVER-1

The robust housing is made of crystal-clear plastic and is used to protect a manual call point Series MCP against splashing water or mechanical damage. Therefore the detector can be used, for example, in areas which are cleaned with high-pressure water blasters. The manual call point can be activated after lifting the upper part of the housing.

The housing is screwed to the wall and sealed to the wall by means of the supplied foam gasket.

Specifications

Protection class	IPx5
Dimensions W × H × D	123 × 191 × 80 (mm)
Weight	425g

16

249681 Key for Manual Call Point SU=10 SCHL-HM/10

The key is used for opening the doors of various components of fire alarm technology, such as manual call points Series HFM, Series HM and Series HME, Fire Brigade Control Units FBF58-2, Fire Brigade Key Safe Adapters AD800-1, as well as Fire Brigade Map Boxes FWP-1 and FWP-3. One package unit contains 10 keys.

249680 Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10

The standardised replacement glass without marking is required for Manual Call Points Series HFM, Series HM and Series HME. One package unit contains 10 pieces.

Specifications

Dimensions W × H × D	80 × 80 × 0.9 (mm)

249675 Special Designation HME/Sheet-10pcs. HME-BESCH-BOG

If required, the labelling of a manual call point Series HME can be chosen freely.

The desired text has to be specified when ordering. One sheet always contains 10 labelling tags. Each tag can have a different text. Upper case and lower case letters have to be specified exactly!

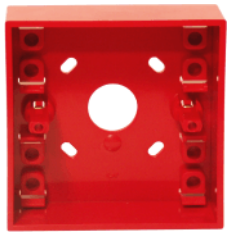
245083 Plexi Glass Cover for FI700/MCP CI700-1

The Plexiglas cover can be optionally installed on a Manual Call Point FI700/MCP or FI700/RF/MCP. In order to activate the manual call point, the cover must be lifted first. In this way, an unintentional activation is prevented.

245024 Hinged Cover for MCP/WCP PS200

The Plexiglas cover can be optionally installed on a Manual Call Point Series MCP5A or WCP5A. In order to activate the manual call point, the cover must be lifted first. In this way, an unintentional activation is prevented.

245019 Surface Mount Box/MCP5A SR

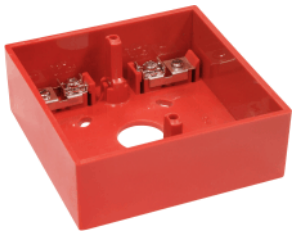


The red plastic box is used for surface mounting of Manual Call Points MCP5A-RP07Fx and MCP5A-RP08Fx.

Specifications

Protection class	IP24
Dimensions W × H × D	87 × 87 × 32 (mm)
Colour	red, RAL 3000
Weight	52g

245012 Surface Mount Box/MCP5A SR3T



The red plastic box is used for surface mounting of the Manual Call Points MCP5A-RP07Fx and MCP5A-RP08Fx. The box is provided with 3 auxiliary terminals for simple wiring.

Specifications

Protection class	IP24
Dimensions W × H × D	87 × 87 × 32 (mm)
Colour	red, RAL 3000
Weight	60g

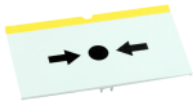
249219 Reset Key For Manual Call Point-Pack of 10 pieces M210

The key is used to reset a manual call point Series FI700. One package unit contains 10 keys.

249213 Glass Pane for MCP Series/10pcs. G21140

The printed glass pane for replacement is inserted for resetting a manual call point MCP5A-RP0xFG or Series WCP5A after activation.

245018 Flexi Element for MCP/WCP PS210



The replacement plastic pane is needed for the Manual Call Point MCP5A-RP0xFF if the original pane has been broken upon activation. Furthermore, the flexi element can be inserted instead of the glass pane in the Manual Call Points MCP5A-RP0xFG and Series WCP5A.

245918 Replacement Glass for EX HM E-G/DC21

The replacement glass with red marking is required for the Ex-protected Manual Call Point dC21.

Specifications

Dimensions W × H × D	95 × 95 × 0.9 (mm)

245919 Replacement Glass for EX HM SU=10 Pieces E-G/DC31/10

The package unit contains 10 units of the replacement glass without marking for Ex-protected Manual Call Points dC31.

Specifications

Dimensions W × H × D	95 × 95 × 0.9 (mm)

17 Optical and Acoustic Devices, conventional

355280 Sounder/WM/DC/red/107 CWSO-RR-S1

The multitone sounder CWSO-RR-S1 has 32 different tones, all of which have been tested according to EN 54-3. The tone is selected via DIL switches. If the sounder is actuated via 2 control panel outputs, it can also be operated with an alternative tone. In this way, multi-stage alarming with 2 different tones can be implemented.

The sound level is adjusted in 2 steps, by means of a DIL switch. If multiple sounders are used, the tones of all signalling devices on a line are synchronised in order to generate a uniform warning tone. The current consumption of the sounder depends on the tone and the operating voltage.

The sounder is integrated in a red plastic housing and is designed for indoor mounting. The unit comes with a standard base, the cables are entered from the back or – in the case of surface mounted cabling – from the side.

Features
- 32 different tones (e.g., Slow Whoop tone, DIN 33404 tone, continuous tone 800Hz)
- Alternative tone for two-stage alarming possible
- High sound level of more than 100dB, 2 selectable levels
- Synchronisation of the sounder tones
- Wide operating voltage range
- Optional theft protection by means of screw
- Suitable for surface mounting

Specifications

Operating voltage	9 - 29VDC
Tested according to EN 54-3	9 - 14VDC and 18 - 29VDC
Current consumption at 24V	typ. 25mA (DIN tone)
Sound level	typ. 102dB(A) / 1m distance (DIN tone)
Ambient temperature	-25°C to +70°C
Protection class	IP21
Dimensions Ø × D	100 × 77 (mm)
Colour housing	flame red, RAL 3000
Weight	190g
Approvals	VdS G215015 LPCB 166h/05 2831-CPR-F0254

355281 Sounder/WM65/DC/red/107 CWSO-RR-W1

The structure of the multitone sounder CWSO-RR-W1 is identical to that of the Sounder CWSO-RR-S1, but the CWSO-RR-W1 comes with a deep base. On the two flattened sides of the base, 3 openings (Ø 19mm) can be broken out so that cable glands can be inserted. Thanks to the robust design, the sounder is suitable for use under harsh environmental conditions.

Specifications (for further specifications, see CWSO-RR-S1)

Sound level	typ. 98dB(A) / 1m distance (DIN tone)
Protection class	IP65
Dimensions Ø × D	100 × 102 (mm)
Weight	200g

355282 Sounder/WM/DC/white/107 CWSO-WW-S1

The structure of the multitone sounder CWSO-WW-S1 is identical to that of the Sounder CWSO-RR-S1, but the CWSO-WW-S1 is integrated in a white plastic housing.

Specifications (for further specifications, see CWSO-RR-S1)

Colour housing	signal white, RAL 9003
Approvals	VdS G215015 LPCB 166h/06 2831-CPR-F0254

355283 Sounder/WM65/DC/white/107 CWSO-WW-W1

The structure of the multitone sounder CWSO-WW-W1 is identical to that of the Sounder CWSO-RR-S1, but the CWSO-WW-W1 is integrated in a white plastic housing and comes with a deep base. On the two flattened sides of the base, 3 openings (Ø 19mm) can be broken out so that cable glands can be inserted. Thanks to the robust design, the sounder is suitable for use under harsh environmental conditions.

Specifications (for further specifications, see CWSO-RR-S1)

Sound level	typ. 98dB(A) / 1m distance (DIN tone)
Protection class	IP65
Dimensions Ø × D	100 × 102 (mm)
Colour housing	signal white, RAL 9003
Weight	200g
Approvals	VdS G215015 LPCB 166h/06 2831-CPR-F0254

355114 Sounder/FB/DC/white DBS1224B4W-D

The multitone sounder DBS1224B4W-D is integrated in a round white plastic housing and is suitable for indoor use. The sounder is designed for installation underneath a detector base. Alternatively, the sounder can be used independent of a base, on the ceiling or on a wall. In this case an additional front lid DBSLID is needed.

Thanks to a built-in serial diode, the sounder can be connected directly to a line-monitored output with negative monitoring voltage.

Features
- 3 different tones (continuous tone 800Hz, Slow Whoop tone, DIN 33404 tone)
- Wide operating voltage range
- Low power consumption
- Adjustable sound level
- Suitable for surface mounting

Specifications

Operating voltage	12VDC (10V to 14V) 24VDC (19.5V to 28V)
Current consumption at 24V	typ. 8mA
Sound level	90dB(A) at 1m distance (DIN tone)
Ambient temperature	-30°C to +70°C
Protection class	IP21
Dimensions Ø × H	117 × 30 (mm)
Colour	white
Weight	150g
Approvals	VdS G211048 LPCB 166c/40 0832-CPD-0393

Cross-references	Page	Art.No.	Name Type
	184	359005	Lid for Detector Base Sounder/red DBSLIDR
	184	359006	Lid for Detector Base Sounder/white DBSLIDW

355660 NEW Sounder/FB/DC/red SQ/SV/08/R/S/C

The multitone sounder SQ/SV/08/R/S/C is accommodated in a red plastic housing and is designed for indoor wall or ceiling mounting. In the case of ceiling mounting, the sounder can be installed underneath an automatic fire detector and can be actuated via the remote indicator output of the detector.

One of 32 different tone types is selected via DIL switches. If the sounder is actuated via 2 control panel outputs, it can also be operated with an alternative tone. In this way, multi-stage alarming with 2 different tones can be implemented. The sound level can be attenuated by 10dB(A) with a DIL switch. If multiple sounders are used, the tones of all signalling devices on a line are synchronised in order to generate a uniform warning tone.

Features
- 32 different tones (e.g., Slow Whoop tone, DIN 33404 tone, continuous tone 970Hz), including 6 tones that have been tested according to EN 54-3
- Alternative tone for two-stage alarming possible
- High sound level, can be attenuated with DIL switch
- Synchronisation of the sounder tones
- Wide operating voltage range
- Low power consumption, depending on tone and operating voltage
- Suitable for surface mounting on the wall or ceiling
- Comes with a plastic plate that can be used as cover if no detector base is installed on the sounder

Specifications

Operating voltage	9 - 28VDC
according to EN 54-3	9 - 15VDC and 18 - 28VDC
Current consumption at 24V	max. 16mA (DIN tone)
Sound level	91dB(A) / 1m distance (DIN tone)
Ambient temperature	-10°C to +55°C
Protection class	IP21
Dimensions Ø × H	113 × 27 (mm)
Colour	flame red, RAL 3000
Weight	150g
Approvals	VdS G206022 0832-CPD-1655

355661 NEW

Sounder/FB/DC/white SQ/SV/08/GW/S/C

The structure of the multitone sounder SQ/SV/08/GW/S/C is identical to that of the Sounder SQ/SV/08/R/S/C, but the SQ/SV/08/GW/S/C is integrated in a white plastic housing.

Specifications (for further specifications, see SQ/SV/08/R/S/C)

Colour	signal white, RAL 9003

355700

Sounder/Flush/DC/white AC/SV/GW/S/8

The multitone sounder AC/SV/W1/S is integrated in a white square plastic housing and is designed for indoor flush mounting.

One of 32 different tone types is selected via DIL switches. If the sounder is actuated via 2 control panel outputs, it can also be operated with an alternative tone. In this way, multi-stage alarming with 2 different tones can be implemented. The sound level can be attenuated by 10dB(A) via a DIL switch. If multiple sounders are used, the tones of all signalling devices on a line are synchronised in order to generate a uniform warning tone.

Features
- 32 different tones (e.g., Slow Whoop tone, DIN 33404 tone, continuous tone), 6 tones thereof tested according to EN 54-3
- Alternative tone for two-stage alarming possible
- High sound level, can be attenuated by means of a DIL switch
- Synchronisation of the sounder tones
- Wide operating voltage range
- Low power consumption, depending on tone type and operating voltage
- Suitable for flush mounting, with optional housing also for surface mounting

Specifications

Operating voltage	9 - 28VDC
according to EN 54-3	9 - 15VDC and 18 - 28VDC
Current consumption at 24VDC	max. 16mA (DIN tone)
Sound level	95dB(A) / 1m distance (DIN tone)
Ambient temperature	-10°C to +55°C
Protection class	IP21
Dimensions W × H × D	
flush mounted	86 × 86 × 12 (mm)
surface mounted	86 × 86 × 42 (mm, incl. housing)
Colour	signal white, RAL 9003
Weight	110g
Approvals	VdS G206025 0832-CPD-1653

Cross-references	Page	Art.No.	Name Type
	39	249270	Module Box 30mm/700 FI700/MB

355701 Sounder/Flush/DC/red AC/SV/R/S

The structure of the multitone sounder AC/SV/R/S is identical to that of the Sounder AC/SV/W1/S, but the AC/SV/R/S is integrated in a red square plastic housing.

Specifications (for further specifications, see AC/SV/W1/S)

Colour	flame red, RAL 3000

Cross-references	Page	Art.No.	Name Type
	167	245019	Surface Mount Box/MCP5A SR

355286 Sounder-Str/WM/DC/re/cl/re/107/WC CWSS-RR-S5

The combined Sounder-Strobe CWSS-RR-S5 has 32 different tones, all of which have been tested according to EN 54-3. The tone is selected via DIL switches. If the sounder is actuated via 2 control panel outputs, it can also be operated with an alternative tone. In this way, multi-stage alarming with 2 different tones can be implemented. The sound level is adjusted in 2 steps, by means of a DIL switch.

Thanks to the use of LEDs, the strobe with clear cap and red light has a low power consumption. The strobe has been tested according to EN 54-23 Classes W+C (wall+ceiling) and therefore this single type is suitable both for wall mounting as well as for ceiling mounting. The signalling device is used if optical alarming according to EN 54-23 is required. Thanks to the optimised design of the cap, the strobe evenly emits light in all directions, and therefore it can be mounted in any orientation.

If multiple sounder-strobes are used, the tones as well as the flash periods of all signalling devices on a line are synchronised in order to generate a uniform warning tone and light pulse. The current consumption of the combi signalling device depends on the tone and the operating voltage.

The sounder-strobe is integrated in a red plastic housing and is designed for indoor mounting. The unit comes with a standard base, the cables are entered from the back or – in the case of surface mounted cabling – from the side.

Features
- 32 different tones (e.g., Slow Whoop tone, DIN 33404 tone, continuous tone 800Hz)
- Alternative tone for two-stage alarming possible
- High sound level of more than 100dB, 2 selectable levels
- Red very high-performance LEDs
- Synchronisation of the sounder tones and flash pulses
- Wide operating voltage range
- Optional theft protection by means of screw
- Suitable for surface mounting

Specifications

Operating voltage	12 - 29VDC
Tested according to EN 54-3	12 - 14VDC and 18 - 29VDC
Tested according to EN 54-23	12 - 29VDC
Current consumption at 24V	typ. 60mA (DIN tone)
Sound level	typ. 102dB(A) / 1m distance (DIN tone)
Flash frequency	0.5Hz
EN 54-23 Category W-2.4-6.0 – wall mounting	
Mounting height	max. 2.4m
Room size	max. 6m × 6m
EN 54-23 Category C-3-8.9 – ceiling mounting	
Mounting height	max. 3m
Room size	max. Ø 8.9m, equals max. 6.3m × 6.3m
EN 54-23 Category C-6-8.2 – ceiling mounting	
Mounting height	max. 6m
Room size	max. Ø 8.2m, equals max. 5.8m × 5.8m
Ambient temperature	-25°C to +70°C
Protection class	IP21
Dimensions Ø × D	100 × 98 (mm)
Colour housing	flame red, RAL 3000
Colour cap / light colour	clear / red
Weight	250g
Approvals	VdS G215013 LPCB 166p/03 2831-CPR-F0262

355287 Sounder-Str/WM65/DC/re/cl/re/107/WC CWSS-RR-W5

The structure of the combined Sounder-Strobe CWSS-RR-W5 is identical to that of the Sounder-Strobe CWSS-RR-S5, but the CWSS-RR-W5 comes with a deep base. On the two flattened sides of the base, 3 openings (Ø 19mm) can be broken out so that cable glands can be inserted. Thanks to the robust design, the sounder-strobe is suitable for use under harsh environmental conditions.

Specifications (for further specifications, see CWSS-RR-S5)

Sound level	typ. 98dB(A) / 1m distance (DIN tone)
Protection class	IP65
Dimensions Ø × D	100 × 122 (mm)
Weight	260g

355284 Sounder-Str/WM/DC/re/cl/re/107/O CWSS-RR-S3

The combined Sounder-Strobe CWSS-RR-S3 has 32 different tones, all of which have been tested according to EN 54-3. The tone is selected via DIL switches. If the sounder is actuated via 2 control panel outputs, it can also be operated with an alternative tone. In this way, multi-stage alarming with 2 different tones can be implemented. The sound level is adjusted in 2 steps, by means of a DIL switch.

Thanks to the use of LEDs, the strobe with clear cap and red light has a low power consumption. The strobe has been tested according to EN 54-23 Class O ("open class"). Due to the lower illuminated room volume, as compared to classes W+C, the signalling device is not suitable for two sense evacuation. It is used for applications where additional optical alarming is desired. Thanks to the optimised design of the cap, the strobe evenly emits light in all directions, and therefore it can be mounted in any orientation.

If multiple sounder-strobes are used, the tones as well as the flash periods of all signalling devices on a line are synchronised in order to generate a uniform warning tone and light pulse. The current consumption of the combi signalling device depends on the tone and the operating voltage.

The sounder-strobe is integrated in a red plastic housing and is designed for indoor wall or ceiling mounting. The unit comes with a standard base, the cables are entered from the back or – in the case of surface mounted cabling – from the side.

Features
- 32 different tones (e.g., Slow Whoop tone, DIN 33404 tone, continuous tone 800Hz)
- Alternative tone for two-stage alarming possible
- High sound level of more than 100dB, 2 selectable levels
- Synchronisation of the sounder tones and flash pulses
- Wide operating voltage range
- Optional theft protection by means of screw
- Suitable for surface mounting

Specifications

Operating voltage	12 - 29VDC
Tested according to EN 54-3	12 - 14VDC and 18 - 29VDC
Tested according to EN 54-23	24 - 29VDC
Current consumption at 24V	typ. 28mA (DIN tone)
Sound level	typ. 102dB(A) / 1m distance (DIN tone)
Flash frequency	0.5Hz
EN 54-23 Category O-Wall – wall mounting	
Mounting height	max. 2.4m
EN 54-23 Category O-Ceiling – ceiling mounting	
Mounting height	max. 3m
Ambient temperature	-25°C to +70°C
Protection class	IP21
Dimensions Ø × D	100 × 98 (mm)
Colour housing	flame red, RAL 3000
Colour cap / light colour	clear / red
Weight	250g
Approvals	VdS G215014 LPCB 166p/07 2831-CPR-F0259

355285 Sounder-Str/WM65/DC/re/cl/re/107/O CWSS-RR-W3

The structure of the combined Sounder-Strobe CWSS-RR-W3 is identical to that of the Sounder-Strobe CWSS-RR-S3, but the CWSS-RR-W3 comes with a deep base. On the two flattened sides of the base, 3 openings (Ø 19mm) can be broken out so that cable glands can be inserted. Thanks to the robust design, the sounder-strobe is suitable for use under harsh environmental conditions.

Specifications (for further specifications, see CWSS-RR-S3)

Sound level	typ. 98dB(A) / 1m distance (DIN tone)
Protection class	IP65
Dimensions Ø × D	100 × 122 (mm)
Weight	260g

355288 Sounder-Strobe/WM/DC/re/re/107/N CWSS-RB-S7

The combined Sounder-Strobe CWSS-RB-S7 has 32 different tones, all of which have been tested according to EN 54-3. The tone is selected via DIL switches. If the sounder is actuated via 2 control panel outputs, it can also be operated with an alternative tone. In this way, multi-stage alarming with 2 different tones can be implemented. The sound level is adjusted in 2 steps, by means of a DIL switch.

Thanks to the use of LEDs, the strobe with red cap has a low power consumption. Since the strobe does not comply with EN 54-23, the signalling device has not been approved for two sense evacuation. Therefore it is used for applications where additional optical alarming is desired.

If multiple sounder-strobes are used, the tones as well as the flash periods of all signalling devices on a line are synchronised in order to generate a uniform warning tone and light pulse. The current consumption of the combi signalling device depends on the tone and the operating voltage.

The sounder-strobe is integrated in a red plastic housing and is designed for indoor wall or ceiling mounting. The unit comes with a standard base, the cables are entered from the back or – in the case of surface mounted cabling – from the side.

Features
- 32 different tones (e.g., Slow Whoop tone, DIN 33404 tone, continuous tone 800Hz)
- Alternative tone for two-stage alarming possible
- High sound level of more than 100dB, 2 selectable levels
- Synchronisation of the sounder tones and flash pulses
- Wide operating voltage range
- Optional theft protection by means of screw
- Suitable for surface mounting

Specifications

Operating voltage	12 - 29VDC
Tested according to EN 54-3	12 - 14VDC and 18 - 29VDC
Current consumption at 24V	typ. 28mA (DIN tone)
Sound level	typ. 102dB(A) / 1m distance (DIN tone)
Flash frequency	0.5Hz
Ambient temperature	-25°C to +70°C
Protection class	IP21
Dimensions Ø × D	100 × 98 (mm)
Colour housing	flame red, RAL 3000
Colour cap	red
Weight	250g
Approvals	VdS G215017 LPCB 166h/09 2831-CPR-F0256

355289 Sounder-Str/WM65/DC/re/re/107/N CWSS-RB-W7

The structure of the combined Sounder-Strobe CWSS-RB-W7 is identical to that of the Sounder-Strobe CWSS-RB-S7, but the CWSS-RB-W7 comes with a deep base. On the two flattened sides of the base, 3 openings (Ø 19mm) can be broken out so that cable glands can be inserted. Thanks to the robust design, the sounder-strobe is suitable for use under harsh environmental conditions.

Specifications (for further specifications, see CWSS-RB-S7)

Sound level	typ. 98dB(A) / 1m distance (DIN tone)
Protection class	IP65
Dimensions Ø × D	100 × 122 (mm)
Weight	260g

355290 Sounder-Strobe/WM/DC/re/am/107/N CWSS-RA-S7

The structure of the combined Sounder-Strobe CWSS-RA-S7 is identical to that of the Sounder-Strobe CWSS-RB-S7, but the CWSS-RA-S7 has an orange cap.

Specifications (for further specifications, see CWSS-RB-S7)

Colour cap	orange
Approvals	VdS G215017 LPCB 166h/07 2831-CPR-F0255

355291 Sounder-Str/WM65/DC/re/am/107/N CWSS-RA-W7

The structure of the combined Sounder-Strobe CWSS-RA-W7 is identical to that of the Sounder-Strobe CWSS-RB-S7, but the CWSS-RA-W7 has an orange cap and comes with a deep base. On the two flattened sides of the base, 3 openings (Ø 19mm) can be broken out so that cable glands can be inserted. Thanks to the robust design, the sounder-strobe is suitable for use under harsh environmental conditions.

Specifications (for further specifications, see CWSS-RB-S7)

Sound level	typ. 98dB(A) / 1m distance (DIN tone)
Protection class	IP65
Dimensions Ø × D	100 × 122 (mm)
Colour cap	orange
Weight	260g
Approvals	VdS G215017 LPCB 166h/07 2831-CPR-F0255

355294 Sounder-Str/WM/DC/wh/cl/re/107/WC CWSS-WR-S5

The structure of the combined Sounder-Strobe CWSS-WR-S5 is identical to that of the Sounder-Strobe CWSS-RR-S5, but the CWSS-WR-S5 is integrated in a white plastic housing.

Specifications (for further specifications, see CWSS-RR-S5)

Colour housing	signal white, RAL 9003
Approvals	VdS G215013 LPCB 166p/04 2831-CPR-F0262

355295 Sounder-Str/WM65/DC/wh/cl/re/107/WC CWSS-WR-W5

The structure of the combined Sounder-Strobe CWSS-WR-W5 is identical to that of the Sounder-Strobe CWSS-RR-S5, but the CWSS-WR-W5 is integrated in a white plastic housing and comes with a deep base. On the two flattened sides of the base, 3 openings (Ø 19mm) can be broken out so that cable glands can be inserted. Thanks to the robust design, the sounder-strobe is suitable for use under harsh environmental conditions.

Specifications (for further specifications, see CWSS-RR-S5)

Sound level	typ. 98dB(A) / 1m distance (DIN tone)
Protection class	IP65
Dimensions Ø × D	100 × 122 (mm)
Colour housing	signal white, RAL 9003
Weight	260g
Approvals	VdS G215013 LPCB 166p/04 2831-CPR-F0262

355292 Sounder-Str/WM/DC/wh/cl/re/107/O CWSS-WR-S3

The structure of the combined Sounder-Strobe CWSS-WR-S3 is identical to that of the Sounder-Strobe CWSS-RR-S3, but the CWSS-WR-S3 is integrated in a white plastic housing.

Specifications (for further specifications, see CWSS-RR-S3)

Colour housing	signal white, RAL 9003
Approvals	VdS G215014 LPCB 166p/06 2831-CPR-F0259

355293 Sounder-Str/WM65/DC/wh/cl/re/107/O CWSS-WR-W3

The structure of the combined Sounder-Strobe CWSS-WR-W3 is identical to that of the Sounder-Strobe CWSS-RR-S3, but the CWSS-WR-W3 is integrated in a white plastic housing and comes with a deep base. On the two flattened sides of the base, 3 openings (Ø 19mm) can be broken out so that cable glands can be inserted. Thanks to the robust design, the sounder-strobe is suitable for use under harsh environmental conditions.

Specifications (for further specifications, see CWSS-RR-S3)

Sound level	typ. 98dB(A) / 1m distance (DIN tone)
Protection class	IP65
Dimensions Ø × D	100 × 122 (mm)
Colour housing	signal white, RAL 9003
Weight	260g
Approvals	VdS G215014 LPCB 166p/06 2831-CPR-F0259

355296 Sounder-Strobe/WM/DC/wh/re/107/N CWSS-WB-S7

The structure of the combined Sounder-Strobe CWSS-WB-S7 is identical to that of the Sounder-Strobe CWSS-RB-S7, but the CWSS-WB-S7 is integrated in a white plastic housing.

Specifications (for further specifications, see CWSS-RB-S7)

Colour housing	signal white, RAL 9003
Approvals	VdS G215017 LPCB 166h/10 2831-CPR-F0256

355297 Sounder-Str/WM65/DC/wh/re/107/N CWSS-WB-W7

The structure of the combined Sounder-Strobe CWSS-WB-W7 is identical to that of the Sounder-Strobe CWSS-RB-S7, but the CWSS-WB-W7 is integrated in a white plastic housing and comes with a deep base. On the two flattened sides of the base, 3 openings (Ø 19mm) can be broken out so that cable glands can be inserted. Thanks to the robust design, the sounder-strobe is suitable for use under harsh environmental conditions.

Specifications (for further specifications, see CWSS-RB-S7)

Sound level	typ. 98dB(A) / 1m distance (DIN tone)
Protection class	IP65
Dimensions Ø × D	100 × 122 (mm)
Colour housing	signal white, RAL 9003
Weight	260g
Approvals	VdS G215017 LPCB 166h/10 2831-CPR-F0256

355298 Sounder-Strobe/WM/DC/wh/am/107/N CWSS-WA-S7

The structure of the combined Sounder-Strobe CWSS-WA-S7 is identical to that of the Sounder-Strobe CWSS-RB-S7, but the CWSS-WA-S7 is integrated in a white plastic housing and has an orange cap.

Specifications (for further specifications, see CWSS-RB-S7)

Colour housing	signal white, RAL 9003
Colour cap	orange
Approvals	VdS G215017 LPCB 166h/08 2831-CPR-F0255

355299 Sounder-Str/WM65/DC/wh/am/107/N CWSS-WA-W7

The structure of the combined Sounder-Strobe CWSS-WA-W7 is identical to that of the Sounder-Strobe CWSS-RB-S7, but the CWSS-WA-W7 is integrated in a white plastic housing, has an orange cap and comes with a deep base. On the two flattened sides of the base, 3 openings (Ø 19mm) can be broken out so that cable glands can be inserted. Thanks to the robust design, the sounder-strobe is suitable for use under harsh environmental conditions.

Specifications (for further specifications, see CWSS-RB-S7)

Sound level	typ. 98dB(A) / 1m distance (DIN tone)
Protection class	IP65
Dimensions Ø × D	100 × 122 (mm)
Colour housing	signal white, RAL 9003
Colour cap	orange
Weight	260g
Approvals	VdS G215017 LPCB 166h/08 2831-CPR-F0255

355301 Sounder-Str/WM/DC/wh/cl/wh/107/WC CWSS-WW-S5

The combined Sounder-Strobe CWSS-WW-S5 has 32 different tones, all of which have been tested according to EN 54-3. The tone is selected via DIL switches. If the sounder is actuated via 2 control panel outputs, it can also be operated with an alternative tone. In this way, multi-stage alarming with 2 different tones can be implemented. The sound level is adjusted in 2 steps, by means of a DIL switch.

Thanks to the use of LEDs, the strobe with clear cap and white light has a low power consumption. The strobe has been tested according to EN 54-23 Classes W+C (wall+ceiling) and therefore this single type is suitable both for wall mounting as well as for ceiling mounting. The signalling device is used if optical alarming according to EN 54-23 is required. Thanks to the optimised design of the cap, the strobe evenly emits light in all directions, and therefore it can be mounted in any orientation.

If multiple sounder-strobes are used, the tones as well as the flash periods of all signalling devices on a line are synchronised in order to generate a uniform warning tone and light pulse. The current consumption of the combi signalling device depends on the tone and the operating voltage.

The sounder-strobe is integrated in a white plastic housing and is designed for indoor mounting. The unit comes with a standard base, the cables are entered from the back or – in the case of surface mounted cabling – from the side.

Features

- 32 different tones (e.g., Slow Whoop tone, DIN 33404 tone, continuous tone 800Hz)
- Alternative tone for two-stage alarming possible
- High sound level of more than 100dB, 2 selectable levels
- White very high-performance LEDs
- Synchronisation of the sounder tones and flash pulses
- Wide operating voltage range
- Optional theft protection by means of screw
- Suitable for surface mounting

Specifications

Operating voltage	12 - 29VDC
Tested according to EN 54-3	12 - 14VDC and 18 - 29VDC
Tested according to EN 54-23	12 - 29VDC
Current consumption at 24V	typ. 60mA (DIN tone)
Sound level	typ. 102dB(A) / 1m distance (DIN tone)
Flash frequency	0.5Hz
EN 54-23 Category W-2.4-8.9 – wall mounting	
Mounting height	max. 2.4m
Room size	max. 8.9m × 8.9m
EN 54-23 Category C-3-10 – ceiling mounting	
Mounting height	max. 3m
Room size	max. Ø 10m, equals max. 7.1m × 7.1m
EN 54-23 Category C-6-10 – ceiling mounting	
Mounting heigth	max. 6m
Room size	max. Ø 10m, equals max. 7.1m × 7.1m
Ambient temperature	-25°C to +70°C
Protection class	IP21
Dimensions Ø × D	100 × 98 (mm)
Colour housing	signal white, RAL 9003
Colour cap / light colour	clear / white
Weight	250g
Approvals	VdS G215013 LPCB 166p/02 2831-CPR-F0261

356080 Strobe/WM/DC/red/clear/red/WC CWST-RR-S5

Thanks to the use of LEDs, the Strobe CWST-RR-S5 with clear cap and red light has a low power consumption. The strobe has been tested according to EN 54-23 Classes W+C (wall+ceiling) and therefore this single type is suitable both for wall mounting as well as for ceiling mounting. The signalling device is used if optical alarming according to EN 54-23 is required. Thanks to the optimised design of the cap, the strobe evenly emits light in all directions, and therefore it can be mounted in any orientation.

If multiple strobes are used, the flash periods of all signalling devices on a line are synchronised in order to generate a uniform light pulse. The current consumption of the signalling device depends on the operating voltage.

The strobe is integrated in a red plastic housing and is designed for indoor mounting. The unit comes with a standard base, the cables are entered from the back or – in the case of surface mounted cabling – from the side.

Features
- Red very high-performance LEDs
- Synchronisation of the flash pulses
- Wide operating voltage range
- Optional theft protection by means of screw
- Suitable for surface mounting

Specifications

Operating voltage	12 - 29VDC
Current consumption at 24V	typ. 25mA
Flash frequency	0.5Hz
EN 54-23 Category W-2.4-6.2 – wall mounting	
Mounting height	max. 2.4m
Room size	max. 6.2m × 6.2m
EN 54-23 Category C-3-9.4 – ceiling mounting	
Mounting height	max. 3m
Room size	max. Ø 9.4m, equals max. 6.6m × 6.6m
EN 54-23 Category C-6-8.2 – ceiling mounting	
Mounting height	max. 6m
Room size	max. Ø 8.2m, equals max. 5.8m × 5.8m
Ambient temperature	-25°C to +70°C
Protection class	IP21
Dimensions Ø × D	100 × 72 (mm)
Colour housing	flame red, RAL 3000
Colour cap / light colour	clear / red
Weight	160g
Approvals	VdS G215016 LPCB 166n/03 2831-CPR-F0258

356081 Strobe/WM65/DC/red/clear/red/WC CWST-RR-W5

The structure of the Strobe CWST-RR-W5 is identical to that of the Strobe CWST-RR-S5, but the CWST-RR-W5 comes with a deep base. On the two flattened sides of the base, 3 openings (Ø 19mm) can be broken out so that cable glands can be inserted. Thanks to the robust design, the strobe is suitable for use under harsh environmental conditions.

Specifications (for further specifications, see CWST-RR-S5)

Protection class	IP65
Dimensions Ø × D	100 × 97 (mm)
Weight	170g

356082 Strobe/WM/DC/white/clear/red/WC CWST-WR-S5

The structure of the Strobe CWST-WR-S5 is identical to that of the Strobe CWST-RR-S5, but the CWST-WR-S5 is integrated in a white plastic housing.

Specifications (for further specifications, see CWST-RR-S5)

Colour housing	signal white, RAL 9003
Approvals	VdS G215016 LPCB 166n/04 2831-CPR-F0258

356083 Strobe/WM65/DC/white/clear/red/WC CWST-WR-W5

The structure of the Strobe CWST-WR-W5 is identical to that of the Strobe CWST-RR-S5, but the CWST-WR-W5 is integrated in a white plastic housing and comes with a deep base. On the two flattened sides of the base, 3 openings (Ø 19mm) can be broken out so that cable glands can be inserted. Thanks to the robust design, the strobe is suitable for use under harsh environmental conditions.

Specifications (for further specifications, see CWST-RR-S5)

Protection class	IP65
Dimensions Ø × D	100 × 97 (mm)
Colour housing	signal white, RAL 9003
Weight	170g
Approvals	VdS G215016 LPCB 166n/04 2831-CPR-F0258

356086 Strobe/WM/DC/red/clear/white/WC CWST-RW-S5

Thanks to the use of LEDs, the Strobe CWST-RW-S5 with clear cap and white light has a low power consumption. The strobe has been tested according to EN 54-23 Classes W+C (wall+ceiling) and therefore this single type is suitable both for wall mounting as well as for ceiling mounting. The signalling device is used if optical alarming according to EN 54-23 is required. Thanks to the optimised design of the cap, the strobe evenly emits light in all directions, and therefore it can be mounted in any orientation.

If multiple strobes are used, the flash periods of all signalling devices on a line are synchronised in order to generate a uniform light pulse. The current consumption of the signalling device depends on the operating voltage.

The strobe is integrated in a red plastic housing and is designed for indoor mounting. The unit comes with a standard base, the cables are entered from the back or – in the case of surface mounted cabling – from the side.

Features
- White very high-performance LEDs
- Synchronisation of the flash pulses
- Wide operating voltage range
- Optional theft protection by means of screw
- Suitable for surface mounting

Specifications

Operating voltage	12 - 29VDC
Current consumption at 24V	typ. 25mA
Flash frequency	0.5Hz
EN 54-23 Category W-2.4-9.0 – wall mounting	
Mounting height	max. 2.4m
Room size	max. 9.0m × 9.0m
EN 54-23 Category C-3-9.5 – ceiling mounting	
Mounting height	max. 3m
Room size	max. Ø 9.5m, equals max. 6.7m × 6.7m
EN 54-23 Category C-6-9.5 – ceiling mounting	
Mounting height	max. 6m
Room size	max. Ø 9.5m, equals max. 6.7m × 6.7m
EN 54-23 Category C-9-9.5 – ceiling mounting	
Mounting height	max. 9m
Room size	max. Ø 9.5m, equals max. 6.7m × 6.7m
Ambient temperature	-25°C to +70°C
Protection class	IP21
Dimensions Ø × D	100 × 72 (mm)
Colour housing	flame red, RAL 3000
Colour cap / light colour	clear / white
Weight	160g
Approvals	VdS G215016 LPCB 166n/05 2831-CPR-F0257

356087 Strobe/WM65/DC/red/clear/white/WC CWST-RW-W5

The structure of the Strobe CWST-RW-W5 is identical to that of the Strobe CWST-RW-S5, but the CWST-RW-W5 comes with a deep base. On the two flattened sides of the base, 3 openings (Ø 19mm) can be broken out so that cable glands can be inserted. Thanks to the robust design, the strobe is suitable for use under harsh environmental conditions.

Specifications (for further specifications, see CWST-RW-S5)

Protection class	IP65
Dimensions Ø × D	100 × 97 (mm)
Weight	170g

356084 Strobe/WM/DC/white/clear/white/WC CWST-WW-S5

The structure of the Strobe CWST-WW-S5 is identical to that of the Strobe CWST-RW-S5, but the CWST-WW-S5 is integrated in a white plastic housing.

Specifications (for further specifications, see CWST-RW-S5)

Colour housing	signal white, RAL 9003
Approvals	VdS G215016 LPCB 166n/02 2831-CPR-F0257

356085 Strobe/WM65/DC/white/cl/white/WC CWST-WW-W5

The structure of the Strobe CWST-WW-W5 is identical to that of the Strobe CWST-RW-S5, but the CWST-WW-W5 is integrated into a white plastic housing and comes with a deep base. On the two flattened sides of the base, 3 openings (Ø 19mm) can be broken out so that cable glands can be inserted. Thanks to the robust design, the strobe is suitable for use under harsh environmental conditions.

Specifications (for further specifications, see CWST-RW-S5)

Protection class	IP65
Dimensions Ø × D	100 × 97 (mm)
Colour housing	signal white, RAL 9003
Weight	170g
Approvals	VdS G215016 LPCB 166n/02 2831-CPR-F0257

356682 Strobe/WM/DC/white/amber/N SOLEX10A

The Strobe SOLEX10A has an orange cap and is suitable for indoor and outdoor mounting. The strobe comes with a base. A deep base version is available by means of which the protection class can be increased to IP65.

Features
- Very high flash energy
- Wide operating voltage range
- Suitable for surface mounting
- Easy to mount due to bayonet lock
- Locking base

Specifications

Operating voltage	9 - 60VDC
Current consumption at 24V	80mA
Flash frequency	1Hz
Luminous intensity	10Cd
Ambient temperature	-25°C to +70°C
Protection class	IP54 (with standard base) IP65 (with base SW-IP65-SQ/RO)
Dimensions Ø × H	93 x 63 (mm)
Colour base	signal white, RAL 9003
Colour cap	orange
Weight	150g
Approval	VdS G207018

Cross-references	Page	Art.No.	Name Type
	184	355675	Base for Sounder/Strobe/IP65/white SW-IP65-SQ/RO

359005 Lid for Detector Base Sounder/red DBSLIDR

The red cover plate DBSLIDR is used for mounting a sounder Series DBS without detector base.

Specifications

Dimensions Ø × H	103 × 2 (mm)
Colour	flame red, RAL 3000

359006 Lid for Detector Base Sounder/white DBSLIDW

The white cover plate DBSLIDW is used for mounting a sounder Series DBS without detector base.

Specifications

Dimensions Ø × H	103 × 2 (mm)
Colour	cream, RAL 9001

355675 Base for Sounder/Strobe/IP65/white SW-IP65-SQ/RO

The base SW-IP65-SQ/RO serves for mounting of sounders Series Roshni and of strobes Series Solex. The design of the base allows the cable to be entered from the back or from the side.

Specifications

Ambient temperature	-25°C to +70°C
Protection class	IP65
Dimensions Ø × D	93 × 48 (mm)
Colour	white
Weight	50g

18 Devices for Hazardous Areas

241090 Optical Smoke Detector/Conventional IS SLR-E-IS

The Optical Smoke Detector SLR-E-IS for hazardous areas operates with an optical sensing chamber based on the principle of scattered light. The detector is designed for applications using conventional technology and is suitable for indoor mounting. The detector SLR-E-IS must always be connected via a safety barrier approved for the respective detector. Particular attention must be paid to the compliance with country-specific regulations.

Features
- Output for external remote indicator
- Insect screen

Specifications

Ignition protection	intrinsically safe
Ex classification	Ex II 1 G EEx ia IIC T5
Current consumption at 24V	typ. 50µA (quiescent)
Ambient temperature	-10°C to +50°C
Relative humidity	10 to 95% (no condensation)
Protection class IP42	
Dimensions Ø × H (incl. base)	100 × 46 (mm)
Colour	cream
Weight	115g
Approvals	BAS01ATEX1281 LPCB 164g/02 0832-CPD-0113

Cross-references	Page	Art.No.	Name Type
	186	246090	Detector Base/Conv/Ex YBN-R/4IS
	192	228003	Safety Barrier ES58-2

246090 Detector Base/Conv/Ex YBN-R/4IS

The Detector Base YBN-R/4IS for hazardous areas is used to accommodate an intrinsically safe smoke detector SLR-E-IS and is suitable for indoor surface mounting.

Features
- No electronics contained
- Multi-wire terminals with secure screw fitting

Specifications

Ambient temperature	-10°C to +55°C (no condensation or icing)
Relative humidity	10 to 95% (no condensation)
Dimensions Ø × H	100 × 15 (mm)
Colour	white
Weight	45g

241062 Optical Smoke Detector/Orbis/IS OP-52027

The Optical Smoke Detector OP-52027 for hazardous areas operates with an optical sensing chamber based on the scattered light principle. The detector is designed for applications using conventional technology and is suitable for indoor mounting. The detector OP-52027 must always be connected via a safety barrier that has been approved for this detector. Particular attention must be paid to the compliance with country-specific regulations.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms. If the contamination of the optical sensing system is too heavy or if the system is defective, the multicoloured status LED on the detector will flash in yellow for approx. 4 minutes after enablement of the detector line.

Features
- Sealed electronics prevents false alarms caused by the environment
- Mechanical theft protection
- Insect screen

Specifications

Ignition protection	intrinsically safe
Ex classification	Ex II 1 G Ex ia IIC
Current consumption at 24V	typ. 85µA (quiescent)
Ambient temperature	
Class T5	-40°C to +40°C (no icing)
Class T4	-40°C to +60°C (no icing)
Relative humidity	0 to 98% (no condensation)
Protection class	IP23
Dimensions Ø × H	100 × 31 (mm)
Colour	white
Weight	75g
Approvals	Baseefa 06 ATEX 0007X VdS G207027 LPCB 010s/02 2531-CPR-CSP11158

Cross-references	Page	Art.No.	Name Type
	190	246043	Detector Base/Orbis/IS MB-50018
	192	228003	Safety Barrier ES58-2

241063 Optical-Thermal Detector/Orbis/IS OH-53027

The Optical-Thermal Detector OH-53027 for hazardous areas operates both with an optical sensing chamber based on the principle of scattered light as well as with a temperature sensor based on the heat detection principle. The detector is designed for applications using conventional technology and is suitable for indoor mounting. The detector OH-53027 must always be connected via a safety barrier that has been approved for this detector. Particular attention must be paid to the compliance with country-specific regulations.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms. If the contamination of the optical sensing system is too heavy or if the system is defective, the multicoloured status LED on the detector will flash in yellow for approx. 4 minutes after enablement of the detector line.

Features

- Sealed electronics prevents false alarms caused by the environment
- Mechanical theft protection
- Insect screen

Specifications

Ignition protection	intrinsically safe
Ex classification	Ex II 1 G Ex ia IIC
Current consumption at 24V	typ. 85µA (quiescent)
Ambient temperature	
Class T5	-40°C to +40°C (no icing)
Class T4	-40°C to +60°C (no icing)
Relative humidity	0 to 98% (no condensation)
Protection class	IP23
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	80g
Approvals	Baseefa 06 ATEX 0007X VdS G207028 LPCB 010t/02 2531-CPR-CSP11157

Cross-references	Page	Art.No.	Name Type
	190	246043	Detector Base/Orbis/IS MB-50018
	192	228003	Safety Barrier ES58-2

242037

Thermal RoR Detector/Orbis/A1R/IS HT-51145

The Thermal RoR Detector HT-51145 for hazardous areas reacts to temperature changes within defined periods of time (rate-of-rise principle) as well as to a maximum temperature of 57°C according to EN 54-5, Class A1R. The detector is designed for applications using conventional technology and is suitable for indoor mounting up to a room height of 7.5m. The detector HT-51145 must always be connected via a safety barrier that has been approved for this detector. Particular attention must be paid to the compliance with country-specific regulations.

If the detector experiences a fault, the multicoloured status LED on the detector will flash in yellow for approx. 4 minutes after enablement of the detector line.

Features
- Sealed electronics prevents false alarms caused by the environment
- Mechanical theft protection

Specifications

Ignition protection	intrinsically safe
Ex classification	Ex II 1 G Ex ia IIC
Current consumption at 24V	typ. 85µA (quiescent)
Alarm temperature	57°C (maximum-heat component)
Application temperature	max. +50°C
Ambient temperature	
Class T5	-40°C to +40°C (no icing)
Class T4	-40°C to +60°C (no icing)
Relative humidity	0 to 98% (no condensation)
Protection class	IP23
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	70g
Approvals	Baseefa06ATEX0007X VdS G207020 LPCB 010r/08 2531-CPR-CSP11149

Cross-references	Page	Art.No.	Name Type
	190	246043	Detector Base/Orbis/IS MB-50018
	192	228003	Safety Barrier ES58-2

18

242038

Thermal Max Detector/Orbis/A1S/IS HT-51157

The Thermal Max Detector HT-51157 for hazardous areas reacts to a maximum temperature of 57°C according to EN 54-5, Class A1S. The detector is designed for applications using conventional technology and is suitable for indoor mounting up to a room height of 7.5m. The detector HT-51157 must always be connected via a safety barrier that has been approved for this detector. Particular attention must be paid to the compliance with country-specific regulations.

If the detector experiences a fault, the multicoloured status LED on the detector will flash in yellow for approx. 4 minutes after enablement of the detector line.

Features
- Sealed electronics prevents false alarms caused by the environment
- Mechanical theft protection

Specifications

Ignition protection	intrinsically safe
Ex classification	Ex II 1 G Ex ia IIC
Current consumption at 24V	typ. 85µA (quiescent)
Alarm temperature	57°C
Application temperature	max. +50°C
Ambient temperature	
Class T5	-40°C to +40°C (no icing)
Class T4	-40°C to +60°C (no icing)
Relative humidity	0 to 98% (no condensation)
Protection class	IP23
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	70g

Approvals	Baseefa06ATEX0007X LPCB 010r/14 2531-CPR-CSP11155

Cross-references	Page	Art.No.	Name Type
	190	246043	Detector Base/Orbis/IS MB-50018
	192	228003	Safety Barrier ES58-2

242061 Thermal Max Detector/Orbis/A2S/IS HT-51147

The Thermal Max Detector HT-51147 for hazardous areas is identical with the maximum heat detector HT-51157, except the HT-51147 reacts to a maximum temperature of 61°C according to EN 54-5, Class A2S. The detector is suitable for indoor mounting up to a maximum room height of 6m.

Specifications (for further specifications, see HT-51157)

Alarm temperature	61°C
Application temperature	max. +50°C
Approvals	Baseefa06ATEX0007X LPCB 010r/09 2531-CPR-CSP11150

Cross-references	Page	Art.No.	Name Type
	190	246043	Detector Base/Orbis/IS MB-50018
	192	228003	Safety Barrier ES58-2

242062 Thermal RoR Detector/Orbis/BR/IS HT-51149

The Thermal RoR Detector HT-51149 for hazardous areas is identical with the RoR detector HT-51145, except the HT-51149 reacts to a maximum temperature of 75°C according to EN 54-5, Class BR. The detector is suitable for indoor mounting up to a maximum room height of 6m.

Specifications (for further specifications, see HT-51145)

Alarm temperature	75°C (maximum-heat component)
Application temperature	max. +65°C
Approvals	Baseefa06ATEX0007X LPCB 010r/10 2531-CPR-CSP11151

Cross-references	Page	Art.No.	Name Type
	190	246043	Detector Base/Orbis/IS MB-50018
	192	228003	Safety Barrier ES58-2

242063 Thermal Max Detector/Orbis/BS/IS HT-51151

The Thermal Max Detector HT-51151 for hazardous areas is identical with the maximum heat detector HT-51157, except the HT-51151 reacts to a maximum temperature of 75°C according to EN 54-5, Class BS. The detector is suitable for indoor mounting up to a maximum room height of 6m.

Specifications (for further specifications, see HT-51157)

Alarm temperature	75°C
Application temperature	max. +65°C
Approvals	Baseefa06ATEX0007X LPCB 010r/11 2531-CPR-CSP11152

Cross-references	Page	Art.No.	Name Type
	190	246043	Detector Base/Orbis/IS MB-50018
	192	228003	Safety Barrier ES58-2

242064 Thermal RoR Detector/Orbis/CR/IS HT-51153

The Thermal RoR Detector HT-51153 for hazardous areas is identical with the RoR detector HT-51145, except the HT-51153 reacts to a maximum temperature of 90°C according to EN 54-5, Class CR. The detector is suitable for indoor mounting up to a maximum room height of 6m.

Specifications (for further specifications, see HT-51145)

Alarm temperature	90°C (maximum-heat component)
Application temperature	max. +80°C
Approvals	Baseefa06ATEX0007X LPCB 010r/12 2531-CPR-CSP11153

Cross-references	Page	Art.No.	Name Type
	190	246043	Detector Base/Orbis/IS MB-50018
	192	228003	Safety Barrier ES58-2

242065 Thermal Max Detector/Orbis/CS/IS HT-51155

The Thermal Max Detector HT-51155 for hazardous areas is identical with the maximum heat detector HT-51157, except the HT-51155 reacts to a maximum temperature of 90°C according to EN 54-5, Class CS. The detector is suitable for indoor mounting up to a maximum room height of 6m.

Specifications (for further specifications, see HT-51157)

Alarm temperature	90°C
Application temperature	max. +80°C
Approvals	Baseefa06ATEX0007X VdS G207025 LPCB 010r/13 2531-CPR-CSP11154

Cross-references	Page	Art.No.	Name Type
	190	246043	Detector Base/Orbis/IS MB-50018
	192	228003	Safety Barrier ES58-2

246043 Detector Base/Orbis/IS MB-50018

The Detector Base MB-50018 for hazardous areas is designed to accommodate a Series Orbis/IS intrinsically safe automatic fire detector and is suitable for indoor surface mounting.

Features
- No electronics contained
- Multi-wire terminals with secure screw fitting
- Mechanical theft protection can be activated

Specifications

Ambient temperature	-40°C to +70°C
Relative humidity	0 to 98% (no condensation)
Dimensions Ø × H	100 × 23 (mm)
Colour	white
Weight	60g

242150 Thermal Detector/IP67/Conv/MAX/A2S 6295

The maximum heat detector 6295 uses a bimetal element as thermal sensor and is tested according to EN 54-5 class A2S. If the alarm temperature is reached, the bimetal contact is closed. An activation will be stored until the detector is reset by the fire detection control panel.

Conventional technology is used for alarm transmission to the fire detection control panel. The activated condition of the detector is indicated by an integrated LED. The detector can be connected to a loop by using a conventional zone module.

The detector is integrated in a plastic housing and is suitable for application in moist areas (e.g., loading ramps, production areas, food processing) as well as in intrinsically safe areas.

Features
- Alarm LED on detector housing
- Output for external remote indicator
- 3 cable glands for dust and water proof insertion of the connection cables

Specifications

Operating voltage	supplied through detector line voltage
Quiescent current	0
Permissible alarm current	max. 40mA
Alarm resistance	400 Ohm
Alarm temperature	typ. 57°C
Ambient temperature	-40°C to +50°C
Protection class	IP67
Ignition protection	intrinsically safe
Ex classification	Ex II 3 G Ex ic IIC T5 Gc Ex II 3 D Ex ic IIIC T100°C Dc
Dimensions Ø × H	100 × 75 (mm)
Colour	light grey
Weight	215g
Approval	0845-CPD-0232.1192

Cross-references	Page	Art.No.	Name Type
	192	228003	Safety Barrier ES58-2

242151 Thermal Detector/IP67/Conv/MAX/BS 6296

The maximum heat detector 6296 uses a bimetal element as thermal sensor and is tested according to EN 54-5 class BS. If the alarm temperature is reached, the bimetal contact is closed. An activation will be stored until the detector is reset by the fire detection control panel.

Conventional technology is used for alarm transmission to the fire detection control panel. The activated condition of the detector is indicated by an integrated LED. The detector can be connected to a loop by using a conventional zone module.

The detector is integrated in a plastic housing and is suitable for application in moist areas (e.g., loading ramps, production areas, food processing) as well as in intrinsically safe areas.

Features
- Alarm LED on detector housing
- Output for external remote indicator
- 3 cable glands for dust and water proof insertion of the connection cables

Specifications

Operating voltage	supplied through detector line voltage
Quiescent current	0
Permissible alarm current	max. 40mA
Alarm resistance	400 Ohm
Alarm temperature	typ. 72°C
Ambient temperature	-40°C to +65°C
Protection class	IP67
Ignition protection	intrinsically safe
Ex classification	Ex II 3 G Ex ic IIC T5 Gc Ex II 3 D Ex ic IIIC T100°C Dc
Dimensions Ø × H	100 × 75 (mm)
Colour	light grey
Weight	215g
Approval	0845-CPD-0232.1193

Cross-references	Page	Art.No.	Name Type
	192	228003	Safety Barrier ES58-2

228003 Safety Barrier ES58-2

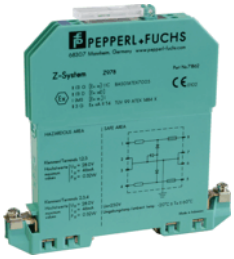
The safety barrier with galvanic separation is used for the build-up of an intrinsically safe circuit for the connection of fire detectors in hazardous areas. Due to the galvanic separation, the earth fault monitoring of the fire detection control panel can remain active. The relevant regulations for installations in hazardous areas must be observed.

Features
- Connection of automatic detectors
- Limitation of the possible short circuit current, of the idle voltage and of the energy stored in the intrinsically safe circuit
- Plastic surface mount case

Specifications

Ignition protection	intrinsically safe
Ex classification	Ex II (1) G D [EEx ia] IIC
Operating voltage	supplied through detector line voltage
Quiescent current	approx. 5mA
Ambient temperature	-20°C to +60°C
Dimensions W × H × D	120 × 160 × 90 (mm)
Colour	light grey, similar to RAL 7035
Weight	515g
Approval	BAS98ATEX7343

228008 Zener Barrier Z978



The Zener Barrier Z978 is used for the build-up of an intrinsically safe circuit for the connection of fire detectors in hazardous areas. The zener barrier must be connected to the equipotential busbar of the intrinsically safe area. The relevant regulations for installations in hazardous areas must be observed.

Features
- Connection of up to 32 detectors that do not store energy - e.g., Thermal Max Detectors SWM-1KL or manual call points
- Limitation of the possible short circuit current, of the idle voltage and of the electrical energy stored in the intrinsically safe circuit
- Plastic surface mount case for DIN rail mounting

Specifications

Ignition protection	intrinsically safe
Ex classification	Ex II (1) G D [Ex ia] IIC
Operating voltage	supplied through detector line voltage
Ambient temperature	-20°C to +55°C
Dimensions W × H × D	13 × 115 × 110 (mm)
Colour	green
Weight	125g
Approval	BAS01ATEX7005

Cross-references	Page	Art.No.	Name Type
	196	228009	Enclosure for Safety Barrier 29600-239

241102 Optical Smoke Detector/200/IS 22051EISE

The Optical Smoke Detector 22051EISE operates with an optical sensing chamber based on the principle of scattered light. The detector is designed for use in hazardous areas and is suitable for indoor mounting.

The detector is integrated into a loop with System Sensor protocol via the Safety Barrier Y2 and the Protocol Interface IST200. Particular attention must be paid to the compliance with country-specific regulations.

By means of intelligent evaluation algorithms in the respective LST fire detection control panels, the influence of contamination on the optical measurement system is compensated for. With that, the response sensitivity of the detector is kept constant for a long time – a further effective step to avoid false alarms.

Features
- Physical address can be set in the range 01 to 99 by means of 2 decadic rotary switches
- Mechanical theft protection in the base
- Insect screen
- Easy function testing by means of magnet

Specifications

Operating voltage	supplied through loop voltage
Ignition protection	intrinsically safe
Ex classification	Ex II 1 G Ex ia IIC T5 / T4 Ga
Current consumption	330µA at 24V
Ambient temperature	-10°C to +60°C
Relative humidity	5 - 95% (no condensation)
Protection class	IP40 (IP43 with wet base WB-1AP)
Dimensions Ø × H	102 × 35 (mm)
Colour	white
Weight	110g
Approvals	Baseefa08ATEX0278X VdS G209129 LPCB 199m/07 2831-CPR-F1956

Cross-references	Page	Art.No.	Name Type
	89	246039	Detector Base/500/200AP B501AP
	194	228007	Protocol Interface/200 IST200
	193	228006	Safety Barrier/200 Y2

241101 Optical Smoke Detector/200/IS/Ivory 22051EISE-IV

The Optical Smoke Detector 22051EISE-IV for use in hazardous areas is identical to the smoke detector 22051EISE, but the 22051EISE-IV is integrated in a cream-coloured case.

Cross-references	Page	Art.No.	Name Type
	194	228007	Protocol Interface/200 IST200
	193	228006	Safety Barrier/200 Y2

228006 Safety Barrier/200 Y2

The zener barrier Y2 with galvanic separation is used for the build-up of an intrinsically safe circuit for the connection of analogue fire detectors in hazardous areas to loops using System Sensor protocol. The relevant regulations for installations in hazardous areas must be observed.

Features
- Connection of up to 15 automatic detectors of type 22051EISE
- Limitation of the possible short circuit current, of the idle voltage and of the energy stored in the intrinsically safe circuit
- DIN rail mounting

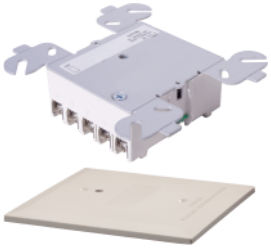
Specifications

Ignition protection	intrinsically safe
Ex classification	Ex II (1) G [Ex ia Ga] IIC Ex II (1) D [Ex ia Da] IIIC Ex I (M1) [Ex ia Ma] I
Operating voltage	supplied through loop voltage
Ambient temperature	-20°C to +60°C
Dimensions W × H × D	20 × 107.5 × 110 (mm)
Colour	green
Weight	100g
Approval	BAS00ATEX7087

Cross-references	Page	Art.No.	Name Type
	196	228009	Enclosure for Safety Barrier 29600-239
	194	228007	Protocol Interface/200 IST200

228007

Protocol Interface/200 IST200



The protocol interface is always used together with the Safety Barrier/200 and allows for the bi-directional data exchange of analogue fire detectors in hazardous areas on the loop using System Sensor protocol.

Features
- Connection of up to 15 automatic detectors of type 22051EISE
- Designed to be integrated into the Surface Mounting Box SMB500

Specifications

Operating voltage	supplied through loop voltage
Ambient temperature	0°C to +60°C
Relative humidity	5 to 95% (no condensation)
Dimensions W × H × D	70 × 70 × 32 (mm)
Weight	155g

Cross-references	Page	Art.No.	Name Type
	193	228006	Safety Barrier/200 Y2
	95	249004	Surface Mounting Box SMB500

241024

Optical Smoke Detector/XP95/Ex 55000-640

The Optical Smoke Detector 55000-640 for hazardous areas operates with an optical sensing chamber based on the principle of scattered light. The detector is designed for use on the loop with Apollo protocol and is suitable for indoor mounting.

Intelligent evaluation algorithms in the respective LST fire detection control panels compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting another effective measure for preventing false alarms.

The detector must always be connected via a Safety Barrier/XP95 approved for the respective detector and a Protocol Interface/XP95. Particular attention must be paid to the compliance with country-specific regulations.

Features
- Permanent evaluation of environmental conditions
- Continuous transmission of the current measured value to the fire detection control panel
- Constant sensitivity
- Address card in the detector base for setting the physical address from 01 to 126
- Sealed electronics prevents false alarms caused by the environment
- Mechanical theft protection
- Insect screen

Specifications

Operating voltage	supplied through loop voltage
Ex classification	Ex II 1 G Ex ia IIC T5 Ga (T4 Ga)
Current consumption	typ. 340µA (quiescent)
Ambient temperature	-20°C to +40°C (class T5, no icing)
	-20°C to +60°C (class T4, no icing)
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	100g
Approvals	BAS02ATEX1289
	LPCB 010q/22
	2531-CPR-CSP10929

Cross-references	Page	Art.No.	Name Type
	195	246027	Detector Base/XP95/Ex 45681-215
	196	228005	Protocol Interface/XP95 55000-855
	196	228004	Safety Barrier/XP95 29600-098

242036 Thermal Detector/XP95/Ex 55000-440

The Thermal Detector 55000-440 for hazardous areas can be parameterised at the fire detection control panel as rate-of-rise detector with a maximum temperature of 55°C (Class A2R) or as maximum heat detector with an alarm temperature of 55°C (Class A2S). The detector is designed for use on the loop with Apollo protocol and is suitable for indoor mounting up to a maximum room height of 6m.

The thermal detector must always be connected via a Safety Barrier/XP95 approved for the respective detector and a Protocol Interface/XP95. Particular attention must be paid to the compliance with country-specific regulations.

Features
- Continuous transmission of the current measured value to the fire detection control panel
- Address card in the detector base for setting the physical address from 01 to 126
- Sealed electronics prevents false alarms caused by the environment
- Mechanical theft protection

Specifications

Operating voltage	supplied through loop voltage
Ex classification	Ex II 1 G Ex ia IIC T5 Ga (T4 Ga)
Current consumption	typ. 300µA (quiescent)
Alarm temperature	55°C
Application temperature	max. +50°C
Ambient temperature	-20°C to +40°C (class T5, no icing) -20°C to +60°C (class T4, no icing)
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	100g
Approvals	BAS02ATEX1289 VdS G216018 LPCB 010p/23 2531-CPR-CSP10920

Cross-references	Page	Art.No.	Name Type
	195	246027	Detector Base/XP95/Ex 45681-215
	196	228005	Protocol Interface/XP95 55000-855
	196	228004	Safety Barrier/XP95 29600-098

246027 Detector Base/XP95/Ex 45681-215

The Detector Base 45681-215 for hazardous areas is designed to accommodate a Series XP95 intrinsically safe analogue smoke detector and is suitable for indoor surface mounting.

Features
- Connection to the loop using Apollo protocol
- Easy detector addressing through address card in mounting base
- No electronics contained
- Multi-wire terminals with secure screw fitting
- Mechanical theft protection can be activated

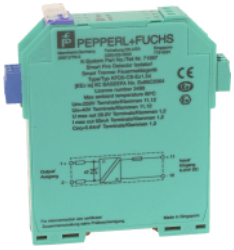
Specifications

Ambient temperature	-20°C to +60°C (no condensation or icing)
Relative humidity	10 to 95% (no condensation)
Dimensions Ø × H	100 × 15 (mm)
Colour	white
Weight	50g

Cross-references	Page	Art.No.	Name Type
	147	246030	Backplate/Apo 45681-233
	146	246029	Conduit Box/Apo 45681-204

228004

Safety Barrier/XP95 29600-098



The Safety Barrier 29600-098 with galvanic separation is used for the build-up of an intrinsically safe circuit for the connection of analogue fire detectors in hazardous areas to loops using Apollo protocol. Due to the galvanic separation, the earth fault monitoring of the fire detection control panel can remain active. The relevant regulations for installations in hazardous areas must be observed.

Features
- Connection of up to 5 detectors to one safety barrier
- Limitation of the possible short circuit current, of the idle voltage and of the energy stored in the intrinsically safe circuit
- DIN rail mounting

Specifications

Ignition protection	intrinsically safe
Ex classification	Ex II (1) G D [EEx ia] IIC
Operating voltage	supplied through loop voltage
Ambient temperature	-10°C to +60°C
Dimensions W × H × D	20 × 107.5 × 110 (mm)
Colour	green
Weight	100g
Approval	BAS00ATEX7087

Cross-references	Page	Art.No.	Name Type
	196	228009	Enclosure for Safety Barrier 29600-239
	196	228005	Protocol Interface/XP95 55000-855

228005

Protocol Interface/XP95 55000-855

The protocol interface is always used together with a Safety Barrier/XP95 and allows for the bi-directional data exchange of analogue fire detectors in hazardous areas on the loop using Apollo protocol. The number of detectors, that can be connected to the protocol interface, is limited by the safety barrier.

The protocol interface is suitable for snap-on to a 35mm DIN rail.

Specifications

Operating voltage	supplied through loop voltage
Current consumption at 24V	1mA
Ambient temperature	-10°C to +60°C
Relative humidity	10 - 95%
Dimensions L × W × H	93 × 20 × 110 (mm)
Colour	green
Weight	100g

Cross-references	Page	Art.No.	Name Type
	196	228009	Enclosure for Safety Barrier 29600-239
	196	228004	Safety Barrier/XP95 29600-098

228009

Enclosure for Safety Barrier 29600-239

The enclosure can accommodate a Zener Barrier Z928, a Zener Barrier Z978, a Safety Barrier Y2, a Safety Barrier 29600-098 as well as a Protocol Interface 55000-855. If two devices are to be installed in the enclosure, a minimum distance of 50mm between the two devices must be maintained in order to comply with the Ex class. The enclosure is equipped with a 35mm DIN rail for the easy mounting of the devices.

Specifications

Dimensions W × H × D	125 × 180 × 130 (mm)

Cross-references	Page	Art.No.	Name Type
	196	228005	Protocol Interface/XP95 55000-855
	193	228006	Safety Barrier/200 Y2
	196	228004	Safety Barrier/XP95 29600-098
	192	228008	Zener Barrier Z978

245683 Manual Call Point/Red/Conventional/IS DC31/55.130

The Manual Call Point dC31 is integrated in a red plastic housing and is used for application in hazardous areas in conventional technology. The detector contains a change-over contact and is delivered with an alarm resistor and an end-of-line resistor of your choice. The desired resistance value must be specified when ordering, because the entire inner circuitry is sealed.

Thanks to the encapsulated and sealed-in design, a safety barrier is not required if the detector is cabled in compliance with the relevant regulations. The detector can be connected to a loop by using a conventional zone module.

Note: the manual call point is also available in other colours, on request.

Features
- Robust dust-proof and water-proof plastic housing with a door aperture angle of more than 160°
- Low flammability and UV resistant
- Operating instructions in the form of symbols (European standard)
- Latching push button
- Replaceable standardised glass plate
- Plenty of room for cabling

Specifications

Ignition protection	protection by enclosures encapsulation increased safety
Operating voltage	supplied through detector line voltage
Ambient temperature	-20°C to +60°C
Protection class	IP66
Dimensions W × H × D	135 × 135 × 61 (mm, without cable glands)
Colour	red, RAL 3000
Weight	500g
Approvals	VdS G206113 0786-CPD-20309 BVS 09 ATEX E 016 X
Ex classification	Ex II 2G Ex emb IIC T6 Ex II 2D Ex tD A21 IP6X T80°C

Cross-references	Page	Art.No.	Name	Type
	168	245919	Replacement Glass for EX HM SU=10 Pieces	E-G/DC31/10

355662 Sounder/WM66/DCEx/red/105 IS-A105N

The intrinsically safe multitone sounder IS-A105N consists of a red plastic housing and is intended for mounting in areas with a potentially explosive atmosphere. Thanks to the high protection class IP66, the sounder is also suitable for outdoor use.

One of 49 different tone types is selected via DIL switches. By means of external contacts, the sounder can be switched to up to 2 alternative tones. In this way, multi-stage alarming with different tones can be implemented. By means of a potentiometer, the sound level can be reduced by up to 15dB(A).

For the cable entry, two openings can be broken out from the sounder so that PG screw connections can be inserted.

Features
- 49 different tones (e.g., Slow Whoop tone, DIN 33404 tone, continuous tone 800Hz)
- 2 alternative tones for multi-stage alarming possible
- High sound level up to 105dB, can be reduced by 15dB
- Wide operating voltage range
- Suitable for surface mounting in hazardous areas

Specifications

Ignition protection	intrinsically safe
Ex classification	Ex II 1G Ex ia IIC T4 Ga (Ta -40°C ... +60°C)
Operating voltage	10 - 28VDC
Current consumption at 24V	typ. 25mA
Sound level	max. 105dB(A) / 1m distance
Ambient temperature	-40°C to +60°C
Protection class	IP66
Dimensions W × H × D	130 × 130 × 132 (mm)
Colour housing	flame red, RAL 3000
Weight	750g
Approval	SIRA 04 ATEX 2301 X

355663 NEW Sounder/WM66/DCEx/red/105 IS-A105N/HÖCHST

The structure of the intrinsically safe multitone sounder IS-A105N/HÖCHST is identical to that of the Sounder IS-A105N, but the IS-A105N/HÖCHST only has 3 permanently set tones (including the "Gas alarm" tone).

Features (which differ from the IS-A105N)

- Tone 1: DIN 33404 tone
- Tone 2: special "Gas alarm" tone for Hoechst:
  150 - 1000Hz (10s),
  1000Hz (40s),
  1000 - 150Hz (10s),
  150Hz (20s),
  after that repeating (total cycle duration 80s)
- Tone 3: interrupted tone 660Hz (0.875s ON, 0.875s OFF)

355696 NEW Sounder/WM67/DCEx/red/105 DS5-3G/3D-24VDC

The multitone sounder DS5-3G/3D-24VDC consists of a red aluminium die-cast housing and is suitable for mounting in areas with a potentially explosive atmosphere Zone 2 and Zone 22. The sounder can be used for gases of temperature classes T1, T2, T3 and T4 and in environments with non-conductive dusts. Thanks to the high protection class IP67, outdoor use is also possible.

One of 31 different tone types is selected via a DIL switch. By means of external contacts, the sounder can be switched to up to 3 alternative tones. In this way, multi-stage alarming with different tones can be implemented. Due to the ignition protection classes nA and tD, a zener barrier is not required for the connection of the sounder.

A tested threaded cable gland M20×1.5 is included in the delivery scope.

Features

- 31 different tones (e.g., DIN 33404 tone, special tone "Gas alarm" Hoechst)
- 3 alternative tones for multi-stage alarming
- High sound level up to 105dB
- Suitable for surface mounting in hazardous areas

Specifications

Operating voltage	19 - 29VDC
Current consumption at 24VDC	typ. 280mA
Ex classification	II 3G Ex nA II T4 II 3D Ex tD A22 IP67 T135°C
Sound level	max. 105dB (A) / 1m distance
Ambient temperature	-25°C to +55°C
Protection class	IP67
Dimensions W × H × D	133.5 × 143 × 133.5 (mm)
Colour	flame red, RAL 3000
Weight	1.95kg
Approvals	VdS G28609 0786-CPD-20005 PDG 03.0001 X

355697 NEW

Sounder/WM67/DCEx/red/110 DS10-3G/3D-24VDC

The structure of the multitone sounder DS10-3G/3D-24VDC is identical to that of the sounder DS5-3G/3D-24VDC, but the DS10-3G/3D-24VDC generates a maximum sound pressure level of 110dB (A).

Specifications

Current consumption at 24VDC	typ. 420mA
Sound level	max. 110dB (A) / 1m distance
Approvals	VdS G28609
	0786-CPD-20005
	PDG 03.0001 X

356698 NEW

Strobe/WM66/DCEx/grey/clear/white F12-3G/3D-24VDC-W

The strobe F12-3G/3D-24VDC-W with a clear lens and a white flash is suitable for mounting in areas with a potentially explosive atmosphere Zone 2 and Zone 22. The strobe can be used for gases of temperature classes T1, T2, T3 and T4 and in environments with non-conductive dusts. Thanks to the high protection class IP67, outdoor use is also possible. Due to the ignition protection classes nR and tD, a zener barrier is not required for the connection of the strobe.

A tested threaded cable gland M20×1.5 has been installed at the factory.

Features

- Very high flash energy (7.5J)
- Wide operating voltage range
- Suitable for surface mounting in hazardous areas

Specifications

Operating voltage	18 - 30VDC
Current consumption at 24VDC	typ. 360mA
Ex classification	II 3G Ex nR IIC T4
	II 3D Ex tD A22 IP66 T105°C
Flash frequency	0.83Hz
Luminous intensity	84cd (with clear lens)
Signalling area, following the example of EN 54-23	
Base area	18m × 19m
Height	8.5m
Ambient temperature	-20°C to +45°C
Protection class	IP66
Dimensions W × H × D	130 × 130 × 130 (mm)
Colour housing	grey, RAL 7035
Colour lens / light colour	clear / white
Weight	600g
Approval	PDG 04.0002 X

356699 NEW

Strobe/WM66/DCEx/grey/red F12-3G/3D-24VDC-R

The structure of the Strobe F12-3G/3D-24VDC-R is identical to that of the Strobe F12-3G/3D-24VDC-W, but the F12-3G/3D-24VDC-R has a red lens and therefore its flash colour is red.

Specifications

Signalling area, following the example of EN 54-23	
Base area	13.5m × 14m
Height	5.7m
Colour housing	grey, RAL 7035
Colour lens	red
Approval	PDG 04.0002 X

19 RF Devices Series FI720/FI700/RF

249308 RF Interface/720 FI720/RF/W2W

The RF Interface FI720/RF/W2W serves as a gateway between a Fire Detection Control Panel Series BC600 or Series BC216 and wireless devices Series FI720/RF or Series FI700/RF. The RF interface communicates with the control panel via the loop with Labor Strauss protocol.

The RF interface can administrate up to 32 wireless elements (automatic detectors Series FI720/RF as well as manual call points, modules or signalling devices Series FI700/RF). The gateway itself occupies one module address on the loop. The device addresses are set either through the operation menu of the RF interface or through the PC software WirelEx. In addition to the parameterisation of the RF system, this program also allows the analysis and graphical indication of signal strength and transmission quality.

The range of up to 200m can be increased to more than 3km by using RF expanders FI720/RF/WE. The RF interface can be linked with a maximum of 7 RF expanders.

Features
- Menu operation by means of buttons and display
- Configuration through menu or PC software
- Status indication via 3 LEDs (communication, fault, battery replacement)
- Integrated dual-isolator
- 2 orthogonal antennas for safe radio communication
- 7 bi-directional data channels
- High range of radio transmission

Specifications

Operating voltage	supplied through loop voltage
Current consumption from loop	max. 25mA
Frequency band	868MHz
Radio transmission range	max. 200m (to detectors/modules, in free air) max. 600m (to RF expanders, in free air)
Ambient temperature	-30°C to +50°C
Protection class	IP51
Dimensions W × H × D	120 × 160 × 50 (mm, without antennas)
Colour	white
Weight	310g
Approvals	LPCB 928n/01 2831-CPR-F1939

Cross-references	Page	Art.No.	Name	Type
	202	249309	RF Expander/720 FI720/RF/WE	

249309 RF Expander/720 FI720/RF/WE

By means of RF Expanders FI720/RF/WE, the range of a Loop RF Interface FI720/RF/W2W or a Conventional RF Expander FI720/RF/CWE can be increased to more than 3km. The expander serves as a gateway between the RF interface and the wireless devices Series FI720/RF or FI700/RF.

The expander can administrate up to 32 wireless elements (automatic detectors Series FI720/RF as well as manual call points, modules or signalling devices Series FI700/RF) and 3 additional expanders FI720/RF/WE. In this way, a hierarchical RF system with a maximum of 6 levels can be created. The expander itself does not occupy an address. The RF system is configured through the PC software WirelEx.

Features
- 2 orthogonal antennas for safe radio communication
- 7 bi-directional data channels
- High range of radio transmission

Specifications

Supply voltage	9 - 29VDC
Current consumption at 24V	typ. 50mA
Frequency band	868MHz
Radio transmission range	max. 200m (to detectors/modules, in free air) max. 600m (to RF interface/further expanders, in free air)
Ambient temperature	-30°C to +50°C
Protection class	IP51
Dimensions W × H × D	120 × 160 × 50 (mm, without antennas)
Colour	white
Weight	330g
Approvals	LPCB 928r/02 2831-CPR-F2012

Cross-references	Page	Art.No.	Name Type
	203	249311	RF Expander Conventional/720 FI720/RF/CWE
	202	249308	RF Interface/720 FI720/RF/W2W

249311 RF Expander Conventional/720 FI720/RF/CWE

The Conventional RF Expander FI720/RF/CWE serves as a gateway between a conventional fire detection system and wireless devices Series FI720/RF and Series FI700/RF.

The RF interface can administrate up to 32 wireless elements (automatic detectors Series FI720/RF as well as manual call points, modules or signalling devices Series FI700/RF). The range of up to 200m can be increased to more than 3km by using RF expanders FI720/RF/WE. The RF interface can be linked with a maximum of 15 RF expanders. In this way, a hierarchical RF system with a maximum of 6 levels can be created. The alarm is transmitted to the fire detection control panel by means of a relay contact. The configuration of the RF system is carried out through the PC software WirelEx. In addition to the parameterisation of the RF system, this program also allows the analysis and graphical indication of signal strength and transmission quality.

Features

- 2 orthogonal antennas for safe radio communication
- 7 bi-directional data channels
- High range of radio transmission

Specifications

Operating voltage	9 - 29VDC
Current consumption at 24V	typ. 30mA (alarm condition)
Frequency band	868MHz
Radio transmission range	max. 200m (to detectors/modules, in free air) max. 600m (to RF expanders, in free air)
Ambient temperature	-30°C to +50°C
Protection class	IP51
Dimensions W × H × D	120 × 160 × 50 (mm, without antennas)
Colour	white
Weight	350g
Approvals	LPCB 928r/01 2831-CPR-F2533

Cross-references	Page	Art.No.	Name Type
	202	249309	RF Expander/720 FI720/RF/WE

241192 Detector/720/RF/complete FI720/RF/O

The wireless optical smoke detector FI720/RF/O operates by means of an optical sensing chamber based on the principle of scattered light. A fine-meshed protective grid protects the sensing chamber against ingress of dust and insects. In addition, the design of the housing makes it more difficult for dust to settle inside the sensing chamber.

The detector communicates with a fire detection control panel in loop technology (Labor Strauss protocol) via the Loop RF Interface FI720/RF/W2W. Alternatively, the Conventional RF Expander FI720/RF/CWE serves as gateway in a conventional fire detection system. In the configuration of the RF interface, one of 3 sensitivity levels can be selected, thereby adapting the detector optimally to the respective application.

In the detector, two batteries are accommodated which reliably power the detector over a long time. The two multicoloured LED indicators with 360° visibility indicate the activated condition of the detector as well as further operating conditions.

The wireless detector is particularly suitable for applications where cabling is impossible or uneconomical. The detector is integrated in a white housing and is designed for indoor mounting. The base and both batteries are included in the delivery.

Features
- Long battery life of typ. 8 years
- High range of radio transmission
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software WirelEx
- Optional theft protection by means of setscrew in the base
- Removal of detector monitored by tamper switch
- Double dust protection and insect screen
- Easy function testing by means of magnet or test gas

Specifications

Power supply	2 lithium batteries CR123
Battery lifespan	typ. 8 years
Frequency band	868MHz
Radio transmission range	max. 200m (free air)
Sensitivity	
Level 1	3.1%/m
Level 2	3.8%/m
Level 3	4.4%/m
Ambient temperature	-10°C to +55°C
Protection class	IP40
Dimensions Ø × D	110 × 65 (mm, incl. base)
Colour	white
Weight	190g (with batteries and base)
Approvals	LPCB 928k/02 2831-CPR-F1937

Cross-references	Page	Art.No.	Name Type
	216	249215	Lithium Battery 3V CR123
	203	249311	RF Expander Conventional/720 FI720/RF/CWE
	202	249308	RF Interface/720 FI720/RF/W2W

241193 Detector/720/RF/complete FI720/RF/OT

The wireless optical-thermal detector FI720/RF/OT operates both with an optical sensing chamber based on the principle of scattered light as well as with a thermal unit according to EN 54-5 Class A1R. A fine-meshed protective grid protects the sensing chamber against ingress of dust and insects. In addition, the design of the housing makes it more difficult for dust to settle inside the sensing chamber.

The detector communicates with a fire detection control panel in loop technology (Labor Strauss protocol) via the Loop RF Interface FI720/RF/W2W. Alternatively, the Conventional RF Expander FI720/RF/CWE serves as gateway in a conventional fire detection system. In the configuration of the RF interface, one of 3 sensitivity levels of the optical chamber can be selected, thereby adapting the detector optimally to the respective application.

In the detector, two batteries are accommodated which reliably power the detector over a long time. The two multicoloured LED indicators with 360° visibility indicate the activated condition of the detector as well as further operating conditions.

The wireless detector is particularly suitable for applications where cabling is impossible or uneconomical. The detector is integrated in a white housing and is designed for indoor mounting. The base and both batteries are included in the delivery.

Features
- Long battery life of typ. 8 years
- High range of radio transmission
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software WirelEx
- Optional theft protection by means of setscrew in the base
- Removal of detector monitored by tamper switch
- Double dust protection and insect screen
- Easy function testing by means of magnet or test gas, or tester for thermal detectors

Specifications

Power supply	2 lithium batteries CR123
Battery lifespan	typ. 8 years
Frequency band	868MHz
Radio transmission range	max. 200m (free air)
Sensitivity smoke detection unit	
Level 1	3.1%/m
Level 2	3.8%/m
Level 3	4.4%/m
Alarm temperature	+58°C (Class A1R)
Application temperature	max. +50°C
Ambient temperature	-10°C to +55°C
Protection class	IP40
Dimensions Ø × D	110 × 65 (mm, incl. base)
Colour	white
Weight	190g (with batteries and base)
Approvals	LPCB 928m/02 2831-CPR-F1938

Cross-references	Page	Art.No.	Name Type
	216	249215	Lithium Battery 3V CR123
	203	249311	RF Expander Conventional/720 FI720/RF/CWE
	202	249308	RF Interface/720 FI720/RF/W2W

242087 Detector/720/RF/complete FI720/RF/T

The wireless thermal detector FI720/RF/T operates with a thermal unit according to EN 54-5 Class A1R or BS. The detector communicates with a fire detection control panel in loop technology (Labor Strauss protocol) via the Loop RF Interface FI720/RF/W2W. Alternatively, the Conventional RF Expander FI720/RF/CWE serves as gateway in a conventional fire detection system. In the configuration of the RF interface, the characteristic of the thermal unit can be selected, thereby adapting the detector optimally to the respective application.

In the detector, two batteries are accommodated which reliably power the detector over a long time. The two multicoloured LED indicators with 360° visibility indicate the activated condition of the detector as well as further operating conditions.

The wireless detector is particularly suitable for applications where cabling is impossible or uneconomical. The detector is integrated in a white housing and is designed for indoor mounting. The base and both batteries are included in the delivery.

Features
- Long battery life of typ. 8 years
- High range of radio transmission
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software WirelEx
- Optional theft protection by means of setscrew in the base
- Removal of detector monitored by tamper switch
- Easy function testing by means of magnet or tester for thermal detectors

Specifications

Power supply	2 lithium batteries CR123
Battery lifespan	typ. 8 years
Frequency band	868MHz
Radio transmission range	max. 200m (free air)
Alarm temperature	+58°C (Class A1R) +78°C (Class BS)
Application temperature	max. +50°C (Class A1R) max. +65°C (Class BS)
Ambient temperature	-10°C to +55°C
Protection class	IP40
Dimensions Ø × D	110 × 65 (mm, incl. base)
Colour	white
Weight	190g (with batteries and base)
Approvals	LPCB 928j/02 2831-CPR-F1936

Cross-references	Page	Art.No.	Name Type
	216	249215	Lithium Battery 3V CR123
	203	249311	RF Expander Conventional/720 FI720/RF/CWE
	202	249308	RF Interface/720 FI720/RF/W2W

249066 Surcharge for special colouring FC650/FI700/SPECIAL

The automatic detectors Series FC650, FI700, FI750, FI720/RF and FI700/RF (optical smoke detectors, optical-thermal detectors and thermal detectors) are available in 16 different design finishes. You can choose from among: Black, Pink, Briar Root, Durmast Oak, Alder, Ash, Cherry, Carrara Marble, Green Alps, Green Marble, Obirho, Black Marble, Aluminium, Gold, Carbon Fibre and Gold Fibre. The appropriate detector base in the same design is included in delivery.

The desired design must be specified when ordering.

Note: for detectors in the special colouring there is a minimum order quantity of 50 pieces per design version.

245082 Manual Call Point/Red/700/RF/Flexi FI700/RF/MCP

The wireless manual call point according to EN 54-11 / type A is accommodated in a red plastic housing and communicates with a fire detection control panel in loop technology (Labor Strauss protocol) via the Loop RF Interface FI7x0/RF/W2W. Alternatively, the Conventional RF Expander FI7x0/RF/CWE serves as gateway in a conventional fire detection system. The detector is activated by pressing in the plastic pane without breaking it. The pane can be placed again into the idle position with a special key, thereby resetting the detector.

Two batteries are accommodated in the manual call point. Normally, the detector is powered by the main battery. In the event of a failure of the main battery, the secondary battery powers the detector. A two-coloured LED indicates the activated condition of the detector as well as further operating conditions.

The wireless detector is particularly suitable for applications where cabling is impossible or uneconomical. The mounting box, both batteries as well as the special key are included with the manual call point.

Features

- Operating instructions in the form of symbols (EN 54-11)
- Activation by pressing in plastic pane without breaking it
- Long battery life of up to 5 years
- High range of radio transmission
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software WirelEx
- Plastic pane easy to reset

Specifications

Power supply	lithium battery CR123 as main battery lithium battery CR2032 as secondary battery
Battery lifespan	max. 5 years (main battery) approx. 2 months (secondary battery, after failure of the main battery)
Frequency band	868MHz
Radio transmission range	max. 200m (free air)
Ambient temperature	-30°C to +55°C
Protection class	IP21
Dimensions W × H × D	87 × 87 × 58 (mm, with mounting box)
Colour	flame red, RAL 3000
Weight	200g (without batteries, with mounting box)
Approvals	LPCB 928p/01 0832-CPD-1683

Cross-references	Page	Art.No.	Name Type
	216	249215	Lithium Battery 3V CR123
	216	249218	Lithium Battery 3V CR2032
	167	245083	Plexi Glass Cover for FI700/MCP CI700-1
	166	249152	Protection Cover MCP MCP-COVER-1
	167	249219	Reset Key For Manual Call Point-Pack of 10 pieces M210
	203	249311	RF Expander Conventional/720 FI720/RF/CWE
	202	249308	RF Interface/720 FI720/RF/W2W

245695 Manual Call Point/Red/700/RF HFM/3/73/00

The wireless manual call point according to EN 54-11 / type B is accommodated in a red aluminium die-cast housing and communicates with Fire Detection Control Panels Series BC216 and BC600 via an RF Interface FI7x0/RF/W2W. Alternatively, the Conventional RF Expander FI7x0/RF/CWE serves as gateway in a conventional fire detection system.

Two batteries are accommodated in the manual call point. Normally, the detector is powered by the main battery. In the event of a failure of the main battery, the secondary battery powers the detector. The two-coloured LED indicates the activated condition of the detector as well as further operating conditions.

The wireless detector is particularly suitable for applications where cabling is impossible or uneconomical. The mounting material and both batteries are included in the delivery.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Latching push button
- Long battery life of up to 5 years
- High range of radio transmission
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software WirelEx
- Easy to replace standardised glass plate
- Detector housing can be opened with key SCHL-HFM/HM (not included)
- Increasing the protection class to IP54 by using the optional Protection Kit for Manual Call Point HFM/HM-ZS-IP54

Specifications

Power supply	lithium battery CR123 as main battery lithium battery CR2032 as secondary battery
Battery lifespan	max. 5 years (main battery) approx. 2 months (secondary battery, after failure of the main battery)
Frequency band	868MHz
Radio transmission range	max. 200m (free air)
Ambient temperature	-20°C to +60°C
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm, without antenna)
Colour	red, RAL 3000
Weight	430g (without batteries)
Approvals	LPCB 928u/01 2811-CPR-F0039

Cross-references	Page	Art.No.	Name Type
	166	249681	Key for Manual Call Point SU=10 SCHL-HM/10
	216	249215	Lithium Battery 3V CR123
	216	249218	Lithium Battery 3V CR2032
	166	249680	Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10
	203	249311	RF Expander Conventional/720 FI720/RF/CWE
	202	249308	RF Interface/720 FI720/RF/W2W

245698 Manual Call Point/Blue/700/RF/Hausalarm HM/5/73/02/00

The wireless manual call point is accommodated in a blue aluminium die-cast housing and communicates with Fire Detection Control Panels Series BC216 and BC600 via an RF Interface FI7x0/RF/W2W. Alternatively, the Conventional RF Expander FI7x0/RF/CWE serves as gateway in a conventional fire detection system.

Two batteries are accommodated in the manual call point. Normally, the detector is powered by the main battery. In the event of a failure of the main battery, the secondary battery powers the detector. The two-coloured LED indicates the activated condition of the detector as well as further operating conditions.

The wireless detector is particularly suitable for applications where cabling is impossible or uneconomical. The mounting material and both batteries are included in the delivery.

Features

- Robust aluminium die-cast housing with a door aperture angle of more than 180°
- Operating instructions in the form of symbols (EN 54-11)
- Function marking "HAUSALARM", replaceable
- Latching push button
- Long battery life of up to 5 years
- High range of radio transmission
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software WirelEx
- Easy to replace standardised glass plate
- Detector housing can be opened with key SCHL-HFM/HM (not included)
- Increasing the protection class to IP54 by using the optional Protection Kit for Manual Call Point HFM/HM-ZS-IP54

Specifications

Power supply	lithium battery CR123 as main battery lithium battery CR2032 as secondary battery
Battery lifespan	max. 5 years (main battery) approx. 2 months (secondary battery, after failure of the main battery)
Frequency band	868MHz
Radio transmission range	max. 200m (free air)
Ambient temperature	-20°C to +60°C
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm, without antenna)
Colour	blue, RAL 5015
Weight	430g (without batteries)
Approvals	LPCB 928v/01 2811-CPR-F0040

Cross-references	Page	Art.No.	Name Type
	166	249681	Key for Manual Call Point SU=10 SCHL-HM/10
	216	249215	Lithium Battery 3V CR123
	216	249218	Lithium Battery 3V CR2032
	166	249680	Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10
	203	249311	RF Expander Conventional/720 FI720/RF/CWE
	202	249308	RF Interface/720 FI720/RF/W2W

249267 Monitor Module 1xIN/700/RF FI700/RF/M1IN

The wireless monitor module FI700/RF/M1IN provides a line-monitored input for the connection of contact detectors. With that, manual call points, sprinkler system contacts or supervising contacts can be easily integrated into a fire detection system with radio transmission. The module communicates with a fire detection control panel in loop technology (Labor Strauss protocol) via the Loop RF Interface FI7x0/RF/W2W. Alternatively, the Conventional RF Expander FI7x0/RF/CWE serves as gateway in a conventional fire detection system.

Two batteries are accommodated in the housing of the module. Normally, the module is powered by the main battery. In the event of a failure of the main battery, the secondary battery powers the module. The two-coloured status LED indicates the alarm condition and the fault condition of the module.

The wireless module is particularly suitable for applications where cabling is impossible or uneconomical. The module is integrated in a compact white housing and is designed for indoor mounting. Both batteries are included in the delivery.

Features
- Long battery life of up to 5 years
- High range of radio transmission
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software WirelEx
- Input monitored for wire breakage and short circuit

Specifications

Power supply	lithium battery CR123 as main battery lithium battery CR2032 as secondary battery
Battery lifespan	max. 5 years (main battery) approx. 2 months (secondary battery, after failure of the main battery)
Frequency band	868MHz
Radio transmission range	max. 200m (free air)
Ambient temperature	-30°C to +55°C
Protection class	IP65
Dimensions L × W × H	135 × 95 × 57 (mm)
Colour	light grey, RAL 7035
Weight (without batteries)	210g
Approval	LPCB pending, according to EN 54-25

Cross-references	Page	Art.No.	Name Type
	216	249215	Lithium Battery 3V CR123
	216	249218	Lithium Battery 3V CR2032
	203	249311	RF Expander Conventional/720 FI720/RF/CWE
	202	249308	RF Interface/720 FI720/RF/W2W

249292 Control Module 1xRel/Batt/700/RF FI700/RF/M1REL/BATT

The battery-operated wireless control module FI700/RF/M1REL/BATT provides a dry relay output as well as a non-monitored voltage output (12/24VDC, 40/20mA) for the actuation of external devices. With that, ancillary devices can be easily integrated into a fire detection system with radio transmission, without monitoring the line. The module communicates with a fire detection control panel in loop technology (Labor Strauss protocol) via the Loop RF Interface FI7x0/RF/W2W. Alternatively, the Conventional RF Expander FI7x0/RF/CWE serves as gateway in a conventional fire detection system.

Two batteries are accommodated in the housing of the module. Normally, the module is powered by the main battery. In the event of a failure of the main battery, the secondary battery powers the module. The two-coloured status LED indicates the activated condition and the fault condition of the module.

The wireless module is particularly suitable for applications where cabling is impossible or uneconomical. The module is integrated in a white housing and is designed for indoor mounting. Both batteries are included in the delivery.

Features
- Long battery life of up to 5 years
- High range of radio transmission
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software WirelEx

Specifications

Power supply	2 lithium batteries CR123
Battery lifespan	max. 5 years (main battery, in the normal condition)
	approx. 2 months (secondary battery, after failure of the main battery)
Frequency band	868MHz
Radio transmission range	max. 200m (free air)
Contact rating relay output	max. 2A at 30VDC
Output current voltage output	max. 40mA (at 12V)
	max. 20mA (at 24V)
Ambient temperature	-30°C to +55°C
Protection class	IP65
Dimensions L × W × D	135 × 95 × 57 (mm)
Colour	light grey, RAL 7035
Weight	210g (without batteries)

Cross-references	Page	Art.No.	Name Type
	216	249215	Lithium Battery 3V CR123
	203	249311	RF Expander Conventional/720 FI720/RF/CWE
	202	249308	RF Interface/720 FI720/RF/W2W

249310 Module/RF/720-Sounder-Strobe FI720/RF/M/SST

The battery-powered wireless control module FI720/RF/M/SST is used to actuate a conventional signalling device CWS/SOUx or CWS/SOUx/STRC in a wireless fire detection system FI720/RF or FI700/RF. The module is designed for insertion into the bottom of the signalling device's housing. The module is connected to the signalling device via a connector. The tone and the sound level are set on the signalling device by means of a DIL switch.

The module communicates with a fire detection control panel in loop technology (Labor Strauss protocol) via the Loop RF Interface FI7x0/RF/W2W. Alternatively, the Conventional RF Expander FI7x0/RF/CWE serves as gateway in a conventional fire detection system. In the housing of the module, two batteries are accommodated which reliably power the module and the signalling device over a long time. The two-coloured LED indicator displays the system conditions of the module.

In combination with the wireless module, the signalling device is particularly suitable for applications where cabling is impossible or uneconomical. Both batteries are included in the delivery.

Features

- Long battery life of typ. 3 years
- High range of radio transmission
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software WirelEx

Specifications

Power supply	2 lithium batteries CR123
Battery lifespan	typ. 3 years
Frequency band	868MHz
Radio transmission range	max. 200m (free air)
Ambient temperature	-25°C to +55°C (no icing)
Relative humidity	max. 85% (no condensation)
Protection class	IP65 (installed in signalling device)
Dimensions L × W × H	82 × 76 × 35 (mm)
Weight	55g (without batteries)
Approvals (in combination with Sounder CWS/SOUR)	
	LPCB pending
	0051-CPR-0617
Approvals (in combination with Sounder-Strobe CWS/SOUR/STRC)	
	LPCB pending
	0051-CPR-0618

Cross-references	Page	Art.No.	Name Type
	216	249215	Lithium Battery 3V CR123
	203	249311	RF Expander Conventional/720 FI720/RF/CWE
	202	249308	RF Interface/720 FI720/RF/W2W
	212	355209	Sounder-Str/WM65/DC/re/cl/wh/100/W CWS/SOUR/STRC
	213	355211	Sounder-Str/WM65/DC/wh/cl/wh/100/W CWS/SOUW/STRC
	27	355208	Sounder/WM65/DC/red/100 CWS/SOUR
	211	355210	Sounder/WM65/DC/white/100 CWS/SOUW

355208 Sounder/WM65/DC/red/100 CWS/SOUR

The conventional multitone sounder CWS/SOUR consists of a round, red plastic housing and is suitable for outdoor and indoor mounting. In combination with the optional module FI750/M/SST, the sounder can be connected to a loop with Labor Strauss protocol. Alternatively, the sounder can be operated by installing the wireless module FI720/RF/M/SST in a wireless fire detection system FI720/RF or FI700/RF. One of the two modules can be installed into the bottom part of the housing of the sounder.

One of 32 different tone type combinations is selected via DIL switches. Depending on the parameter setup of the control panel and the system condition, this allows the sounder to be actuated with two different tones. In this way, multi-stage alarming with 2 different tones can be implemented. By means of two DIL switches, one of four sound levels can be selected.

Features

- 32 different tones (e.g., Slow Whoop tone, DIN 33404 tone, continuous tone 970Hz), 4 of which have been tested according to EN 54-3
- Alternative tone for two-stage alarming possible
- High sound level, 4 levels selectable with DIL switches
- Synchronisation of the sounder tones
- Wide operating voltage range
- Low power consumption, depending on tone type and operating voltage
- Optional theft protection by means of 2 setscrews
- Cable can be entered from behind or from the side

Specifications

Operating voltage	15 - 40VDC
Current consumption at 24V	max. 5mA (high sound level)
Sound level	max. 100dB(A) / 1m distance (high sound level)
Ambient temperature	-10°C to +55°C
Protection class	IP65
Dimensions Ø × D	130 × 90 (mm)
Colour	flame red, RAL 3000
Weight	270g
Approvals	LPCB 928w/07
	2831-CPR-F1426
Approvals (in combination with module FI750/M/SST)	
	LPCB 928ah/01
	2831-CPR-F1428
Approvals (in combination with module FI720/RF/M/SST)	
	LPCB pending
	0051-CPR-0617

Cross-references	Page	Art.No.	Name Type
	210	249310	Module/RF/720-Sounder-Strobe FI720/RF/M/SST

355210 Sounder/WM65/DC/white/100 CWS/SOUW

The multitone sounder CWS/SOUW is identical with the sounder CWS/SOUR, except that it consists of a white plastic housing.

Specifications (for further specifications, see CWS/SOUR)

Colour	signal white, RAL 9003

355209 Sounder-Str/WM65/DC/re/cl/wh/100/W CWS/SOUR/STRC

The conventional combined sounder-strobe CWS/SOUR/STRC consists of a round, red plastic housing and is suitable for outdoor and indoor mounting. The signalling device is used if in addition to the acoustic alarming, optical alarming according to EN 54-23 is required. In combination with the optional module FI750/M/SST, the sounder-strobe can be connected to a loop with Labor Strauss protocol. Alternatively, the sounder-strobe can be operated by installing the wireless module FI720/RF/M/SST in a wireless fire detection system FI720/RF or FI700/RF. One of the two modules can be installed into the bottom part of the housing of the sounder-strobe.

One of 32 different tone type combinations is selected via DIL switches. Depending on the parameter setup of the control panel and the system condition, this allows the sounder to be actuated with two different tones. In this way, multi-stage alarming with 2 different tones can be implemented. By means of two DIL switches, one of four sound levels can be selected.

Thanks to the use of light emitting diodes, the strobe with clear lens and white light has a low current consumption. The optimised design of the lens ensures very high illumination of the room. The strobe has been tested according to EN 54-23 Class W (wall). The strobe can operate alone, for which purpose the tone of the sounder has to be set to "silent".

Features

- 32 different tones (e.g., Slow Whoop tone, DIN 33404 tone, continuous tone 970Hz), 4 of which have been tested according to EN 54-3
- Alternative tone for two-stage alarming possible
- High sound level, 4 levels selectable with DIL switches
- Very high-performance LEDs
- Synchronisation of the sounder tones and flash pulses
- Wide operating voltage range
- Low power consumption, depending on tone type and operating voltage
- Optional theft protection by means of 2 setscrews
- Cable can be entered from behind or from the side

Specifications

Operating voltage	15 - 40VDC
Current consumption at 24V	max. 17mA (high sound level)
Sound level	max. 100dB(A) / 1m distance (high sound level)
Flash frequency	0.5Hz
EN 54-23 Category W-2.5-7 – wall mounting	
Mounting height	max. 2.5m
Room size	max. 7m × 7m
Ambient temperature	-10°C to +55°C
Protection class	IP65
Dimensions Ø × D	130 × 92 (mm)
Colour housing	flame red, RAL 3000
Colour lens / light colour	clear, white
Weight	290g
Approvals	LPCB 928y/01 2831-CPR-F1427
Approvals (in combination with module FI750/M/SST)	LPCB 928z/01 2831-CPR-F1429
Approvals (in combination with module FI720/RF/M/SST)	LPCB pending 0051-CPR-0618

Cross-references	Page	Art.No.	Name Type
	210	249310	Module/RF/720-Sounder-Strobe FI720/RF/M/SST

355211 Sounder-Str/WM65/DC/wh/cl/wh/100/W CWS/SOUW/STRC

The combined Sounder-Strobe CWS/SOUW/STRC is identical with the signalling device CWS/SOUR/STRC, except that it consists of a white plastic housing.

Specifications (for further specifications, see CWS/SOUR/STRC)

Colour housing	signal white, RAL 9003

355218 Sounder/WB/720RF/white FI720/RF/WB/SOUW

The wireless sounder FI720/RF/WB/SOUW communicates with a fire detection control panel in loop technology (Labor Strauss protocol) via the Loop RF Interface FI7x0/RF/W2W. Alternatively, the Conventional RF Expander FI7x0/RF/CWE serves as gateway in a conventional fire detection system.

Two batteries are accommodated in the sounder, which reliably power the unit over a long time. The tone is set by means of a DIL switch.

The wireless sounder is particularly suitable for applications where cabling is impossible or uneconomical. The sounder is built into a white plastic housing. The integrated base can accommodate an automatic wireless detector Series FI720/RF. The 2 batteries are included with the sounder.

Features

- Selectable tone (e.g., Slow Whoop tone, DIN tone, alternating tone 800/1000Hz, continuous tone 970Hz, interrupted tone 970Hz)
- Long battery life of up to 5 years
- Sound level adjustable in 2 steps
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software WirelEx

Specifications

Power supply	2 lithium batteries CR123
Battery lifespan	max. 5 years (in the normal condition)
Frequency band	868MHz
Radio transmission range	max. 200m (free air)
Sound level	91dB(A) / 1m distance
Ambient temperature	-10°C to +55°C
Protection class	IP21C
Dimensions Ø × H	116 × 51 (mm)
Colour	white
Weight	150g (without batteries)
Approvals	0051-CPR-1880

Cross-references	Page	Art.No.	Name Type
	41	359075	Lid for Sounder FI7x0/WB FI720/750/COVER/R
	41	359074	Lid for Sounder FI7x0/WB FI720/750/COVER/W
	216	249215	Lithium Battery 3V CR123
	203	249311	RF Expander Conventional/720 FI720/RF/CWE
	202	249308	RF Interface/720 FI720/RF/W2W

355219 Sounder-Str/WB/720RF/wh/cl/re/N FI720/RF/WB/SOUW/STRC

The wireless sounder-strobe FI720/RF/WB/SOUW/STRC communicates with a fire detection control panel in loop technology (Labor Strauss protocol) via the Loop RF Interface FI7x0/RF/W2W. Alternatively, the Conventional RF Expander FI7x0/RF/CWE serves as gateway in a conventional fire detection system.

Two batteries are accommodated in the sounder, which reliably power the unit over a long time. The tone is set by means of a DIL switch. The sounder is always activated together with the strobe.

The wireless sounder-strobe is particularly suitable for applications where cabling is impossible or uneconomical. The unit is built into a white plastic housing with a colourless cap. The integrated base can accommodate an automatic wireless detector Series FI720/RF. The 2 batteries are included with the sounder-strobe.

Features
- Selectable tone (e.g., Slow Whoop tone, DIN tone, alternating tone 800/1000Hz, continuous tone 970Hz, interrupted tone 970Hz)
- Strobe with clear cap and red LEDs
- Low power consumption due to the use of LEDs
- Long battery life of up to 5 years
- Sound level adjustable in 2 steps
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software WirelEx

Specifications

Power supply	2 lithium batteries CR123
Battery lifespan	max. 5 years (in the normal condition)
Frequency band	868MHz
Radio transmission range	max. 200m (free air)
Sound level	92dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-10°C to +55°C
Protection class	IP21C
Dimensions Ø × H	142 × 66 (mm)
Colour	white
Weight	260g (without batteries)
Approvals	0051-CPR-1880

Cross-references	Page	Art.No.	Name Type
	41	359075	Lid for Sounder FI7x0/WB FI720/750/COVER/R
	41	359074	Lid for Sounder FI7x0/WB FI720/750/COVER/W
	216	249215	Lithium Battery 3V CR123
	203	249311	RF Expander Conventional/720 FI720/RF/CWE
	202	249308	RF Interface/720 FI720/RF/W2W

251021 Remote Indicator/700/RF FI700/RF/PA-2

The RF Remote Indicator FI700/RF/PA-2 is designed for the remote indication of a detector activation in the wireless fire detection system FI720/RF or FI700/RF. As the activation can be freely parameterised, the remote indicator can indicate the activation of any combination of detectors. The indicator communicates with a fire detection control panel in loop technology (Labor Strauss protocol) via the Loop RF Interface FI7x0/RF/W2W. Alternatively, the Conventional RF Expander FI7x0/RF/CWE serves as gateway in a conventional fire detection system.

The RF remote indicator is particularly suitable for applications where cabling is impossible or uneconomical. The indicator is integrated in a white housing and is designed for indoor mounting. Both batteries are included in the delivery.

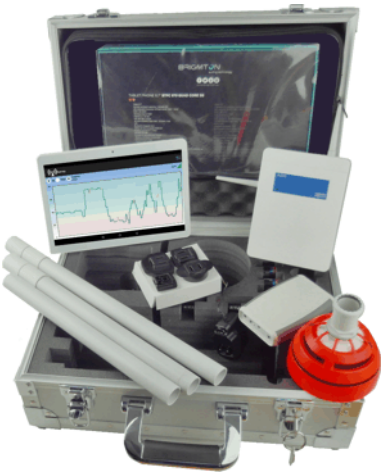
Features
- High-power LED
- High range of radio transmission
- During the learning phase, the address can be set in the range 2 to 240 by means of the configuration software WirelEx
- Plastic case with red cap

Specifications

Power supply	lithium battery CR123 as main battery lithium battery CR2032 as secondary battery
Batterie lifespan	max. 5 years (main battery) approx. 2 months (secondary battery, after failure of the main battery)
Frequency band	868MHz
Radio transmission range	max. 200m (free air)
Ambient temperature	-10°C to +55°C
Protection class	IP42
Dimensions W × H × D	80 × 80 × 32 (mm)
Colour	white
Weight	60g

Cross-references	Page	Art.No.	Name Type
	216	249215	Lithium Battery 3V CR123
	216	249218	Lithium Battery 3V CR2032
	203	249311	RF Expander Conventional/720 FI720/RF/CWE
	202	249308	RF Interface/720 FI720/RF/W2W

249266 RF Measurement Kit FI720/RF/MK



The RF Measurement Kit FI720/RF/MK makes planning, commissioning and maintaining an RF fire detection system FI720/RF or FI700/RF easier. By means of the measuring equipment, the field strength of the radio transmission between the RF interface and the RF components of the fire detection system can be measured, which allows you to find the best place for mounting a device.

The set includes an RF interface, a test detector, a tablet and an RF dongle interface. Before carrying out the measurement, the RF interface as well as the test detector are positioned at the place where they are to be mounted. The tablet is connected with the RF system via the RF dongle interface. The tablet graphically displays the field strength of the connection between the RF components. If the field strength is too low, the location of the RF components must be changed. The readings are updated continuously.

The set is supplied in a sturdy metal case and includes the RF components Series FI720/RF and the tablet as well as an extension pole for the test detector, a plug-in power adapter which powers the RF interface, and batteries for the test detector and for the RF dongle interface.

Specifications

Power supply	
Test detector	2 lithium batteries CR123
RF dongle interface	2 alkaline batteries size AA
Screen size	9.7"
Dimensions case L × W × H	430 × 360 × 160 (mm)
Weight complete	5.7kg

Cross-references	Page	Art.No.	Name Type
	216	249215	Lithium Battery 3V CR123

359075 Lid for Sounder FI7x0/WB FI720/750/COVER/R

The red cover plate is used to cover and protect a detector base sounder Series FI750 or a wireless detector base sounder Series FI720/RF if no detector is inserted.

Specifications

Dimensions Ø × H	106 × 10 (mm)
Colour	red
Weight	20g

359074 Lid for Sounder FI7x0/WB FI720/750/COVER/W

The white cover plate is used to cover and protect a detector base sounder Series FI750 or a wireless detector base sounder Series FI720/RF if no detector is inserted. However, the cover can also be used to protect a detector base Series FI750 if the detector has been permanently removed.

Specifications

Dimensions Ø × H	106 × 10 (mm)
Colour	white
Weight	20g

249215 Lithium Battery 3V CR123

The 3V-battery is used for the supply of automatic wireless detectors, wireless manual call points, wireless modules and wireless signalling devices Series FI720/RF, FI700/RF and 200AP-RF.

Features
- High quality lithium battery
- Low self-discharge
- Long lifespan
- Shelf life min. 5 years

Specifications

Capacity	min. 1200mAh

249218 Lithium Battery 3V CR2032

The 3V battery is used for the supply of automatic wireless detectors, wireless manual call points and wireless modules Series FI700.

Features
- High quality lithium battery
- Low self-discharge
- Long lifespan
- Shelf life min. 5 years

249350 RF Interface/S200AP M200G-RF

The RF Interface M200G-RF serves as a gateway between a Fire Detection Control Panel Series BC600 or Series BC216 and wireless devices Series 200AP-RF. The RF interface communicates with the control panel via the loop with System Sensor protocol. Up to 8 RF interfaces can be connected to a loop.

Thanks to the use of the Mesh technology, a failure of the direct radio connection between a wireless element and the RF interface will lead to an automatic switch-over to an alternative communication path via other elements of the RF system. In addition, the range of up to 400m can be extended by using RF repeaters.

The RF interface can administrate up to 32 automatic detectors, manual call points and other wireless elements Series 200AP-RF. The gateway itself occupies one module address on the loop. In addition to the parameterisation of the RF system, the PC software Agile IQ also allows the analysis and graphical indication of signal strength and transmission quality.

The RF interface is integrated in a white housing and is intended for insertion into a standard detector base B501AP.

Features
- Mesh technology for highest reliability of the radio connection
- Configuration by means of PC software Agile IQ
- 2 LEDs for status of loop communication and radio communication
- Integrated dual-isolator
- 2 antennas for optimum signal quality
- 18 bi-directional data channels
- High range of radio transmission
- Mechanical theft protection can be activated in the base
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches

Specifications

Operating voltage	supplied through loop voltage
Current consumption from loop	max. 510µA (normal communication)
Frequency band	868MHz
Radio transmission range	max. 400m (free air)
Ambient temperature	-30°C to +60°C
Dimensions Ø × D	102 × 42 (mm, with base B501AP)
Colour	white
Weight	90g (without base)
Approvals	VdS G217065 0333-CPR-075484

Cross-references	Page	Art.No.	Name Type
	89	246039	Detector Base/500/200AP B501AP

20

249351 RF Repeater/S200AP M200F-RF

By means of the RF repeater M200F-RF, the range of the RF system Series 200AP-RF can be extended and the transmission quality in the RF system can be increased. In addition the Mesh technology is used to automatically switch over to an alternative communication path via other elements of the RF system, if a failure of the direct radio connection between a wireless element and the RF interface occurs.

The repeater occupies one module address on the loop to which the RF interface is connected. In addition to the parameterisation of the RF system, the PC software Agile IQ also allows the analysis and graphical indication of signal strength and transmission quality.

The housing accommodates 4 batteries which are individually monitored and which reliably power the repeater over the entire battery life. The two multicoloured LED indicators with 360° visibility indicate the operating conditions of the repeater as well as of the radio communication.

The RF repeater is integrated in a white housing and is intended for insertion into a wireless detector base B501RF. The four batteries are included in the delivery, the base must be ordered separately.

Features
- Mesh technology for highest reliability of the radio connection
- Long battery life of up to 4 years
- 2 LEDs for status of the repeater
- 2 antennas for optimum signal quality
- High range of radio transmission
- Mechanical theft protection can be activated in the base
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches

Specifications

Power supply	4 lithium batteries CR123
Battery lifespan	max. 4 years
Frequency band	868MHz
Radio transmission range	max. 500m (free air)
Ambient temperature	-30°C to +60°C
Dimensions Ø × D	104 × 51 (mm, with base B501RF)
Colour	white
Weight	115g (without batteries, without base)
Approvals	VdS G217066 0333-CPR-075501

Cross-references	Page	Art.No.	Name Type
	225	246115	Detector Base/RF/200AP B501RF
	216	249215	Lithium Battery 3V CR123

249352 Dongle/LITE/S200AP/RF M200WC-RF

The RF Dongle M200WC-RF is used to link a notebook to the RF system Series 200AP-RF. The dongle is plugged into a free USB interface of the PC.

The LITE license of the software Agile IQ can be used to parameterise the RF system and to analyse the radio transmission (e.g., field strength).

Features
- Multicoloured status LED

Specifications

Power supply	typ. 5VDC, through the USB interface of the PC
Current consumption at 5V	typ. 33mA
Frequency band	868MHz
Radio transmission range	max. 130m (free air)
Ambient temperature	0°C to +50°C
Dimensions L × W × H	96 × 31 × 13 (mm, USB connector folded out)
Colour	white
Weight	20g

20

249353 NEW Dongle/PRO/S200AP/RF M200WC-RF-PRO

The RF Dongle with PRO license is used to link a notebook to the RF system Series 200AP-RF. The dongle is plugged into a free USB interface of the PC.

The PRO license of the software Agile IQ allows you to carry out the same functions as the LITE license, i.e., it can be used to parameterise the RF system and to analyse the radio transmission. However, the PRO license offers the following additional functions:
- Data backup in the M200G-RF - uploading and reading out the entire configuration
- Setting of advanced parameters of the RF system
- Creation of reports in the pdf format

241140 Optical Detector/200AP/RF 22051E-RF

The wireless optical smoke detector 22051E-RF operates with an optical sensing chamber based on the scattered light principle. The new design of the sensing chamber ensures optimum smoke detection and, at the same time, makes it more difficult for dust and insects to reach the chamber. The detector communicates with the fire detection control panel via the Loop RF Interface M200G-RF. Thanks to the use of the Mesh technology, a failure of the direct radio connection between detector and RF interface will lead to an automatic switch-over to an alternative communication path via other elements of the RF system. In the parameter settings of the control panel, one of 3 sensitivity levels can be selected, thereby adapting the detector optimally to the respective application.

The detector accommodates four batteries which are individually monitored and which reliably power the detector over the entire battery life. The two multicoloured LED indicators with 360° visibility indicate the activated condition of the detector as well as further operating conditions.

The wireless detector is particularly suitable for applications where cabling is impossible or uneconomical. The detector is integrated in a white housing and is designed for indoor mounting. The four batteries are included in the delivery, the Detector Base B501RF must be ordered separately.

Features
- Mesh technology for highest reliability of the radio connection
- Long battery life of up to 4 years
- 2 antennas for optimum signal quality
- High range of radio transmission
- Insect screen
- Mechanical theft protection can be activated in the base
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches
- Function can be tested by means of magnet or test gas

Specifications

Power supply	4 lithium batteries CR123
Battery lifespan	max. 4 years
Frequency band	868MHz
Radio transmission range	max. 500m (free air)
Sensitivity	
Level 1	3.0%/m
Level 2	3.3%/m
Level 3	3.7%/m
Ambient temperature	-30°C to +40°C
Protection class	IP40
Dimensions Ø × D	104 × 62 (mm, incl. base B501RF)
Colour	white
Weight	132g (without batteries, without base)
Approval	VdS G217068 0333-CPR-075561

Cross-references	Page	Art.No.	Name Type
	225	246115	Detector Base/RF/200AP B501RF
	216	249215	Lithium Battery 3V CR123
	218	249350	RF Interface/S200AP M200G-RF

241141 Multicriteria Detector PTIR/200AP/RF 22051TLE-RF

The wireless multicriteria detector 22051TLE-RF contains three separate detection units for three characteristics of fire: smoke, temperature and infrared radiation. The optical smoke sensor works on the principle of scattered light and detects visible smoke particles. The thermal unit reacts to temperature changes within defined periods of time (rate-of-rise principle according to Class A1R) as well as to a maximum temperature of 58°C. The infrared sensor reacts to the infrared signature of flames and supports the detection of fires with little smoke formation (e.g., alcohol fire).

Thanks to the intelligent analysis of measured values obtained from all three detection units, the typical fire patterns are detected. Thereby, on the one hand, deceptive alarms can be almost entirely excluded when noise levels occur (caused for example by welding or a dusty environment). On the other hand, a real fire is quickly and reliably detected.

The response sensitivity of the optical sensor can be individually adjusted in 5 steps between 2.0%/m and 4.7%/m according to the application. In addition, the alarm activation of the detector can be accelerated or delayed by the sophisticated evaluation of the measured values obtained from all sensors. A thermal-only mode is also available.

The detector communicates with the fire detection control panel via the Loop RF Interface M200G-RF. Thanks to the use of the Mesh technology, a failure of the direct radio connection between detector and RF interface will lead to an automatic switch-over to an alternative communication path via other elements of the RF system.

The detector accommodates four batteries which are individually monitored and which reliably power the detector over the entire battery life. The two multicoloured LED indicators with 360° visibility indicate the activated condition of the detector as well as further operating conditions.

The wireless detector is particularly suitable for applications where cabling is impossible or uneconomical. The detector is integrated in a white housing and is designed for indoor mounting. Please note that the detector must not be used in the thermal-only mode if the room height exceeds 7.5m. The four batteries are included in the delivery, the Detector Base B501RF must be ordered separately.

Features
- Mesh technology for highest reliability of the radio connection
- Long battery life of up to 4 years
- 2 antennas for optimum signal quality
- High range of radio transmission
- Insect screen
- Mechanical theft protection can be activated in the base
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches
- Function testing by means of magnet or detector tester

Specifications

Power supply	4 lithium batteries CR123
Battery lifespan	max. 4 years
Frequency band	868MHz
Radio transmission range	max. 500m (free air)
Alarm temperature	58°C (maximum temperature)
Wavelength infrared sensor	800 - 1200nm
Ambient temperature	-30°C to +50°C (no condensation or icing)
Relative humidity	10 - 93% (no condensation)
Protection class	IP20
Dimensions Ø × D	104 × 72 (mm, incl. base B501RF)
Colour	white
Weight	136g (without batteries, without base)
Approval	VdS G217067 0333-CPR-075487

Cross-references	Page	Art.No.	Name Type
	225	246115	Detector Base/RF/200AP B501RF
	216	249215	Lithium Battery 3V CR123
	218	249350	RF Interface/S200AP M200G-RF

242140 Thermal Max Detector/200APA1S/RF 52051E-RF

The wireless thermal detector 52051E-RF operates with a thermal unit according to EN 54-5 Class A1S. The detector communicates with the fire detection control panel via the Loop RF Interface M200G-RF. Thanks to the use of the Mesh technology, a failure of the direct radio connection between detector and RF interface will lead to an automatic switch-over to an alternative communication path via other elements of the RF system.

The detector accommodates four batteries which are individually monitored and which reliably power the detector over the entire battery life. The two multicoloured LED indicators with 360° visibility indicate the activated condition of the detector as well as further operating conditions.

The wireless detector is particularly suitable for applications where cabling is impossible or uneconomical. The detector is integrated in a white housing and is designed for indoor mounting. The four batteries are included in the delivery, the Detector Base B501RF must be ordered separately.

Features
- Mesh technology for highest reliability of the radio connection
- Long battery life of up to 4 years
- 2 antennas for optimum signal quality
- High range of radio transmission
- Mechanical theft protection can be activated in the base
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches
- Function testing by means of magnet or tester for thermal detectors

Specifications

Power supply	4 lithium batteries CR123
Battery lifespan	max. 4 years
Frequency band	868MHz
Radio transmission range	max. 500m (free air)
Alarm temperature	+58°C
Ambient temperature	-30°C to +50°C
Protection class	IP20
Dimensions Ø × D	104 × 70 (mm, incl. base B501RF)
Colour	white
Weight	124g (without batteries, without base)
Approval	VdS G217070 0333-CPR-075490

Cross-references	Page	Art.No.	Name Type
	225	246115	Detector Base/RF/200AP B501RF
	216	249215	Lithium Battery 3V CR123
	218	249350	RF Interface/S200AP M200G-RF

242141 Thermal Diff Detector/200AP/A1R/RF 52051RE-RF

The design of the wireless thermal detector 52051RE-RF is identical with that of the wireless fire detector 52051E-RF, but the characteristic of the thermal unit of the 52051RE-RF corresponds to EN 54-5 Class A1R.

Specifications (for further specifications, see 52051E-RF)

Approval	VdS G217069 0333-CPR-075493

245140 Manual Call Point/Red/S200AP/RF R5A-RF

The wireless manual call point according to EN 54-11 / type A is accommodated in a red plastic housing and communicates with the fire detection control panel via the Loop RF Interface M200G-RF. Thanks to the use of the Mesh technology, a failure of the direct radio connection between detector and RF interface will lead to an automatic switch-over to an alternative communication path via other elements of the RF system.

The manual call point accommodates 4 batteries which are individually monitored and which reliably power the detector over the entire battery life. The multicoloured LED indicator displays the activated condition of the detector as well as further operating conditions.

The wireless detector is particularly suitable for applications where cabling is impossible or uneconomical. The mounting box, the 4 batteries as well as the special key are included with the manual call point.

Features

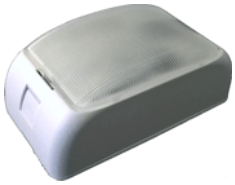
- Mesh technology for highest reliability of the radio connection
- Long battery life of up to 4 years
- 2 antennas for optimum signal quality
- High range of radio transmission
- Operating instructions in the form of symbols (EN 54-11)
- Activation by breaking the glass pane
- Glass pane easy to replace
- Detector housing can be opened with a special key (provided)
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches

Specifications

Power supply	4 lithium batteries CR123
Battery lifespan	max. 4 years
Frequency band	868MHz
Radio transmission range	max. 500m (free air)
Ambient temperature	-30°C to +70°C
Protection class	IP67
Dimensions W × H × D	99 × 94 × 71 (mm, with mounting box)
Colour	flame red, RAL 3000
Weight	250g (without batteries, with mounting box)
Approvals	0333-CPR-075496

Cross-references	Page	Art.No.	Name Type
	216	249215	Lithium Battery 3V CR123
	218	249350	RF Interface/S200AP M200G-RF

251030 Remote Indicator/200AP/RF M200I-RF



The RF Remote Indicator M200I-RF is designed for the remote indication of a detector activation in the wireless fire detection system 200AP-RF. Since the activation can be freely parameterised, the remote indicator can indicate the activation of up to four detectors. The indicator communicates with a fire detection control panel in loop technology (System Sensor protocol) via the Loop RF Interface M200G-RF.

The RF remote indicator is particularly suitable for applications where cabling is impossible or uneconomical. The indicator is integrated in a white housing and is designed for indoor mounting. Both batteries are included in the delivery.

Features
- High range of radio transmission
- Address can be set in the range 01 to 159 by means of 2 decadic rotary switches
- Plastic case with clear cap, red high-power LED

Specifications

Power supply	2 lithium batteries CR123
Battery lifespan	max. 5 years
Frequency band	868MHz
Radio transmission range	max. 200m (free air)
Ambient temperature	-10°C to +60°C
Protection class	IP30
Dimensions W × H × D	51 × 94 × 37 (mm)
Colour	white
Weight	67g

Cross-references	Page	Art.No.	Name Type
	216	249215	Lithium Battery 3V CR123
	218	249350	RF Interface/S200AP M200G-RF

355274 Sounder/WM/200AP/RF/red WSO-RR-RF

The wireless sounder WSO-RR-RF communicates with the fire detection control panel via the Loop RF Interface M200G-RF. Thanks to the use of the Mesh technology, a failure of the direct radio connection between a detector and the RF interface will lead to an automatic switch-over to an alternative communication path via other elements of the RF system.

The sounder accommodates four batteries which are individually monitored and which reliably power the sounder over the entire battery life. Depending on the parameter setup of the fire detection control panel and the system condition, the panel can activate the sounder with tone A or B. The tone type of tones A and B is set via the configuration software Agile IQ, with selection out of 32 combinations. One of three sound levels can be selected by means of the software.

The wireless sounder is particularly suitable for applications where cabling is impossible or uneconomical. The sounder is integrated in a red plastic housing and is designed for indoor mounting. The four batteries are included in the delivery, the base B501RF must be ordered separately.

Features
- 32 different tones (e.g., Slow Whoop tone, DIN 33404 tone, continuous tone 800Hz)
- Mesh technology for highest reliability of the radio connection
- Long battery life of up to 4 years
- 2 antennas for optimum signal quality
- High range of radio transmission
- Mechanical theft protection can be activated in the base
- 3 different sound levels selectable
- Physical address can be set in the range 01 to 159 by means of 2 decadic rotary switches

Specifications

Power supply	4 lithium batteries CR123
Battery lifespan	max. 4 years (in the normal condition)
Frequency band	868MHz
Radio transmission range	max. 500m (free air)
Sound level	max. 102dB(A) / 1m distance
Ambient temperature	-30°C to +60°C
Protection class	IP21
Dimensions Ø × D	121 × 66 (mm, without base)
Colour	red
Weight	245g (without batteries)
Approvals	0359-CPR-00819

Cross-references	Page	Art.No.	Name Type
	224	246116	Detector Base/RF/200AP B501RF-RR
	216	249215	Lithium Battery 3V CR123
	218	249350	RF Interface/S200AP M200G-RF

355275 Sounder/WM/200AP/RF/white WSO-WW-RF

The wireless sounder WSO-WW-RF is identical with the Sounder WSO-RR-RF, but it is accommodated in a white plastic housing.

Cross-references	Page	Art.No.	Name Type
	225	246115	Detector Base/RF/200AP B501RF
	216	249215	Lithium Battery 3V CR123
	218	249350	RF Interface/S200AP M200G-RF

246116 Detector Base/RF/200AP B501RF-RR

The red wireless detector base B501RF-RR is used to accommodate a red wireless sounder Series 200AP-RF. The base is designed for indoor surface mounting.

Features
- Mechanical theft protection can be activated
- Integrated magnet allows the RF component to detect its removal from the base

Specifications

Dimensions Ø × H	104 × 32 (mm)
Colour	red
Weight	48g

246115

Detector Base/RF/200AP B501RF

The wireless detector base B501RF is used to accommodate automatic wireless fire detectors, RF sounders as well as the RF Repeater Series 200AP-RF. The base is designed for indoor surface mounting.

Features

- Mechanical theft protection can be activated
- Integrated magnet allows the RF component to detect its removal from the base

Specifications

Dimensions Ø × H	104 × 32 (mm)
Colour	white
Weight	48g

21 Special Detectors

242150 Thermal Detector/IP67/Conv/MAX/A2S 6295

The maximum heat detector 6295 uses a bimetal element as thermal sensor and is tested according to EN 54-5 class A2S. If the alarm temperature is reached, the bimetal contact is closed. An activation will be stored until the detector is reset by the fire detection control panel.

Conventional technology is used for alarm transmission to the fire detection control panel. The activated condition of the detector is indicated by an integrated LED. The detector can be connected to a loop by using a conventional zone module.

The detector is integrated in a plastic housing and is suitable for application in moist areas (e.g., loading ramps, production areas, food processing) as well as in intrinsically safe areas.

Features
- Alarm LED on detector housing
- Output for external remote indicator
- 3 cable glands for dust and water proof insertion of the connection cables

Specifications

Operating voltage	supplied through detector line voltage
Quiescent current	0
Permissible alarm current	max. 40mA
Alarm resistance	400 Ohm
Alarm temperature	typ. 57°C
Ambient temperature	-40°C to +50°C
Protection class	IP67
Ignition protection	intrinsically safe
Ex classification	Ex II 3 G Ex ic IIC T5 Gc Ex II 3 D Ex ic IIIC T100°C Dc
Dimensions Ø × H	100 × 75 (mm)
Colour	light grey
Weight	215g
Approval	0845-CPD-0232.1192

242151 Thermal Detector/IP67/Conv/MAX/BS 6296

The maximum heat detector 6296 uses a bimetal element as thermal sensor and is tested according to EN 54-5 class BS. If the alarm temperature is reached, the bimetal contact is closed. An activation will be stored until the detector is reset by the fire detection control panel.

Conventional technology is used for alarm transmission to the fire detection control panel. The activated condition of the detector is indicated by an integrated LED. The detector can be connected to a loop by using a conventional zone module.

The detector is integrated in a plastic housing and is suitable for application in moist areas (e.g., loading ramps, production areas, food processing) as well as in intrinsically safe areas.

Features
- Alarm LED on detector housing
- Output for external remote indicator
- 3 cable glands for dust and water proof insertion of the connection cables

Specifications

Operating voltage	supplied through detector line voltage
Quiescent current	0
Permissible alarm current	max. 40mA
Alarm resistance	400 Ohm
Alarm temperature	typ. 72°C
Ambient temperature	-40°C to +65°C
Protection class	IP67
Ignition protection	intrinsically safe
Ex classification	Ex II 3 G Ex ic IIC T5 Gc Ex II 3 D Ex ic IIIC T100°C Dc
Dimensions Ø × H	100 × 75 (mm)
Colour	light grey
Weight	215g
Approval	0845-CPD-0232.1193

242152 Thermal Detector/IP67/Conv/MAX/CS 6297

The maximum heat detector 6297 uses a bimetal element as thermal sensor and is tested according to EN 54-5 class CS. If the alarm temperature is reached, the bimetal contact is closed. An activation will be stored until the detector is reset by the fire detection control panel.

Conventional technology is used for alarm transmission to the fire detection control panel. The activated condition of the detector is indicated by an integrated LED. The detector can be connected to a loop by using a conventional zone module.

The detector is integrated in a plastic housing and is suitable for application in moist areas (e.g., loading ramps, production areas, food processing).

Features
- Alarm LED on detector housing
- Output for external remote indicator
- 3 cable glands for dust and water proof insertion of the connection cables

Specifications

Operating voltage	supplied through detector line voltage
Quiescent current	0
Permissible alarm current	max. 40mA
Alarm resistance	400 Ohm
Alarm temperature	typ. 87°C
Ambient temperature	-40°C to +80°C
Protection class	IP67
Dimensions Ø × H	100 × 75 (mm)
Colour	light grey
Weight	215g
Approval	0845-CPD-0232.1194

242153 Thermal Detector/IP67/Conv/MAX/ES 6298

The maximum heat detector 6298 uses a bimetal element as thermal sensor and is tested according to EN 54-5 class ES. If the alarm temperature is reached, the bimetal contact is closed. An activation will be stored until the detector is reset by the fire detection control panel.

Conventional technology is used for alarm transmission to the fire detection control panel. The detector can be connected to a loop by using a conventional zone module.

The detector is integrated in a plastic housing and is suitable for application in moist areas (e.g., loading ramps, production areas, food processing).

Features
- Output for external remote indicator
- 3 cable glands for dust and water proof insertion of the connection cables

Specifications

Operating voltage	supplied through detector line voltage
Quiescent current	0
Permissible alarm current	max. 30mA
Alarm resistance	680 Ohm
Alarm temperature	typ. 117°C
Ambient temperature	-40°C to +110°C
Protection class	IP67
Dimensions Ø × H	100 × 75 (mm)
Colour	light grey
Weight	215g
Approval	0845-CPD-0232.1195

242170 NEW

Thermal Detector/IP67/Conv/MAX/135C HT-27121-275

The maximum heat detector with additional differential characteristic HT-27121-275 uses a bimetal element as thermal sensor. If the alarm temperature is reached, the bimetal contact is closed. Alarms are transmitted to the fire detection control panel via a conventional line. The detector can be connected to a loop by means of a conventional zone module.

The detector is integrated in an aluminium die-cast housing and is suitable for application in areas where temperatures above 100°C can occur during normal operation (e.g., sauna, production areas with high heat generation).

Features
- Self-resetting bimetal contact
- Metal PG screw connections for water proof insertion of the connection cables

Specifications

Contact rating	2A/24VDC
Alarm temperature	typ. 135°C
Protection class sensor element	IP67
Protection class housing	IP64
Dimensions	
Housing W × H × D	80 × 75 × 59 (mm, without cable glands)
Sensor Ø × D	16 × 98 (mm)
Colour of housing	silver grey, RAL 7001
Weight	590g
Approval	1415-CPR-81-(C-36/2018)

242180

Thermal Detector/IP67/Max/RoR WMX5000-FS

The high temperature heat detector WMX5000 is designed for use in industrial environments with aggressive media and very high application temperatures. Therefore the detector can be used in areas where temperatures of more than 100°C can occur during normal operation (e.g., saunas, production areas with high heat generation, exhaust gas ducts, motor test stands).

The response temperature and class according to EN 54-5 as well as the characteristic - maximum heat detector or rate-of-rise heat detector - can be set by means of a DIL switch in the detector. The alarm is transmitted to the fire detection control panel in conventional technology. For the connection to a loop input module, the relay module KMX5000 is required, which is available separately.

The detector is integrated in an aluminium die-cast housing, the rod-shaped heat sensor is made of stainless steel. The optional Detector Base MX5000 is equipped with two threaded cable glands and terminals.

Features
- Status indicated by 2 LEDs on the detector housing

Specifications

Operating voltage	8 - 30VDC
Current consumption at 24V	typ. 250µA (quiescent) typ. 15mA (alarm)
Alarm temperature	up to 400°C
Response classes EN 54-5	A1, A2, B, C, D, E, F, G each class with ...S and ...R
Ambient temperature	-20°C to +80°C
Protection class	IP67
Dimensions	
Housing Ø × H	130 × 85 (mm, with base MX5000)
Sensor rod length	200mm
Colour of housing	red, RAL 3000
Weight	680g
Approvals	VdS G207091 0786-CPD-20281

Cross-references	Page	Art.No.	Name Type
	231	246180	Detector Base/5000 MX5000
	231	242181	Relay Module for Thermal Detector KMX5000-RK

242181 Relay Module for Thermal Detector KMX5000-RK

The relay module is designed for installation in the Detector Base MX5000 of a high temperature heat detector WMX5000. The module contains one dry contact each for transmitting the alarm condition and the fault condition via a loop input module to the fire detection control panel.

Specifications

Operating voltage	14 - 30VDC
Current consumption at 24V	typ. 7mA (quiescent) typ. 20mA (alarm)
Switching power per contact	1A/60VDC
Ambient temperature	-20°C to +80°C
Dimensions L × W × H	64 × 57 × 24 (mm)
Weight	50g
Approvals	VdS G208058 0786-CPD-20314

246180 Detector Base/5000 MX5000

The aluminium die-cast detector base is screwed together with the high temperature heat detector WMX5000, after which the two devices form a single unit. The base is provided with two cable glands M16 for the dust and water proof insertion of cables, and with terminals. The base provides space for the relay module KMX5000.

Specifications

Dimensions Ø × H	130 × 85 (mm, with detector WMX5000)
Colour	red, RAL3000
Weight	310g

243010 Flame Detector/IR2 16581

The Flame Detector 16581 responds to the flickering infrared radiation of open flames and is, therefore, extremely well suitable for the detection of fires with low smoke development - for example, alcoholic fires or gas flames. By means of two independent infrared sensors for different wavelengths, the detector can safely distinguish between fire situations and deceptive variables. Therefore, it is insensitive to disturbance sources such as sunlight, fluorescent lamps or electric arcs. The detector complies with EN 54-10, Class 1, which means it is suitable for applications with a range of up to 25m.

The response delay can be selected in 4 steps between 1 and 8s. The alarm and the fault condition are signalled via two dry relay contacts. The functioning of the detector can be checked by means of the integrated self test function. During this self test, the detector is activated by a built-in source of infrared light.

Features
- High immunity to deceptive alarms
- Applicable in conventional technology
- Connection to a loop via a conventional zone module possible
- Integrated optical self test function

Specifications

Operating voltage	14 - 28VDC
Current consumption at 24VDC	8mA (quiescent), 14mA (alarm)
Contact rating of relay outputs	max. 1A/50VDC
Monitored angle	90°
Range	25m
Spectral sensitivity	0.75 - 2.7µm
Ambient temperature	-10°C to +55°C
Protection class	IP65
Dimensions W × H × D	108 × 142 × 82 (mm)
Colour	sky blue, RAL 5015
Weight	2kg
Approvals	LPCB 1204a/10 0832-CPR-F0582

Cross-references	Page	Art.No.	Name Type
	233	249141	Mounting Bracket/Flame Detector 07127

243011

Flame Detector/IR3 16589

The Flame Detector 16589 responds to the flickering infrared radiation of open flames and is, therefore, extremely well suitable for the detection of fires with low smoke development - for example, alcoholic fires or gas flames. By means of three independent infrared sensors for different wavelengths, the detector can safely distinguish between fire situations and deceptive variables. Therefore, it is particularly insensitive to disturbance sources such as sunlight, fluorescent lamps or electric arcs. The detector complies with EN 54-10, Class 1, which means it is suitable for applications with a range of up to 25m.

The response delay can be selected in 4 steps between 1 and 8s. The alarm and the fault condition are signalled via two dry relay contacts. The functioning of the detector can be checked by means of the integrated self test function. During this self test, the detector is activated by a built-in source of infrared light.

Features
- Very high immunity to deceptive alarms
- Applicable in conventional technology
- Connection to a loop via a conventional zone module possible
- Integrated optical self test function

Specifications

Operating voltage	14 - 30VDC
Current consumption at 24VDC	8mA (quiescent), 14mA (alarm)
Contact rating of relay outputs	max. 1A/50VDC
Monitored angle	90°
Range	25m
Spectral sensitivity	0.75 - 2.7µm
Ambient temperature	-10°C to +55°C
Protection class	IP65
Dimensions W × H × D	108 × 142 × 82 (mm)
Colour	sky blue, RAL 5015
Weight	2kg
Approvals	LPCB 1204a/11 0832-CPR-F0583

Cross-references	Page	Art.No.	Name Type
	233	249141	Mounting Bracket/Flame Detector 07127

243012

Flame Detector/UVIR2 16591

The Flame Detector 16591 responds to the flickering infrared radiation of open flames and is, therefore, extremely well suitable for the detection of fires with low smoke development - for example, alcoholic fires or gas flames. Thanks to the combination of two independent infrared sensors for different wavelengths and an UV sensor, the detector can particularly safely distinguish between fire situations and deceptive variables. Therefore, it is extremely insensitive to disturbance sources such as sunlight, fluorescent lamps or electric arcs. The detector complies with EN 54-10, Class 1, which means it is suitable for applications with a range of up to 25m.

The response delay can be selected in 4 steps between 1 and 8s. The alarm and the fault condition are signalled via two dry relay contacts. The functioning of the detector can be checked by means of the integrated self test function. During this self test, the detector is activated by a built-in source of infrared and UV light.

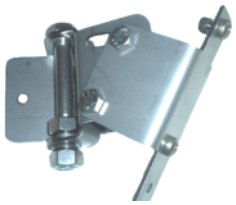
Features
- Highest immunity to deceptive alarms
- Applicable in conventional technology
- Connection to a loop via a conventional zone module possible
- Integrated optical self test function

Specifications

Operating voltage	14 - 30VDC
Current consumption at 24VDC	8mA (quiescent), 14mA (alarm)
Contact rating of relay outputs	max. 1A/50VDC
Monitored angle	90°
Range	25m
Spectral sensitivity	0.75 - 2.7µm (infrared) 185 - 260nm (UV)
Ambient temperature	-10°C to +55°C
Protection class	IP65
Dimensions W × H × D	108 × 142 × 82 (mm)
Colour	sky blue, RAL 5015
Weight	2kg
Approvals	LPCB 1204a/12 0832-CPR-F0583

Cross-references	Page	Art.No.	Name Type
	233	249141	Mounting Bracket/Flame Detector 07127

249141 Mounting Bracket/Flame Detector 07127



The stainless steel mounting bracket 7127 is used for mounting of a Flame Detector Series 16000 and for the stepless horizontal and vertical adjustment to the monitoring area.

Specifications

Adjustment range vertical	0 to -45°
Adjustment range horizontal	±45°
Dimensions L × W × H	82 × 98 × 90 (mm)
Weight	650g

243020 Flame Detector UV/Conventional 800/24-VST-K-N

The Flame Detector 800/24-VST-K-N responds to the UV components of open flames and is, therefore, extremely well suitable for the detection of fires with low smoke development - for example, alcoholic fires or gas flames. The detector is insensitive to disturbance sources such as sunlight or fluorescent lamps. The detector complies with EN 54-10, Class 1, which means it is suitable for applications with a range of up to 25m.

The alarm and the fault condition are signalled via two dry relay contacts. The functioning of the detector can be checked by means of an external test source of UV light.

Features

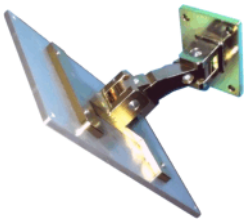
- Applicable in conventional technology
- Connection to a loop via a conventional zone module
- Red status LED indicates activation
- Wall mounting by means of Mounting Bracket MW-800/24

Specifications

Operating voltage	20 - 28VDC
Current consumption at 24VDC	26mA (quiescent), 46mA (alarm)
Contact rating of relay outputs	max. 1A/30VDC
Monitored angle	90°
Range	25m
Spectral sensitivity	200 - 280nm
Ambient temperature	-25°C to +70°C
Protection class	IP54
Dimensions W × H × D	120 × 200 × 105 (mm)
Colour	grey white, RAL 9002
Weight	0.8kg
Approvals	VdS G208143 0786-CPD-20515

Cross-references	Page	Art.No.	Name Type
	234	249151	Mounting Bracket/Flame Detector MW-800/24

249151 Mounting Bracket/Flame Detector MW-800/24



The stainless steel mounting bracket MW-800/24 is used for mounting of a Flame Detector 800/24-VST-K-N as well as for the stepless horizontal and vertical adjustment to the monitoring area.

Specifications

Adjustment range vertical	±70°
Adjustment range horizontal	±60°
Dimensions W × H × D	150 × 200 × 117 (mm)
Weight	1.3kg

241150 Optical Battery Smoke Detector/9V FH20/O/9

The battery-powered optical smoke detector is suitable for use in single-family homes and apartments, especially in living rooms and bedrooms as well as in corridors. The mounting base and a battery are included in the delivery.

Up to 38 detectors of the same type can be networked with each other. In the event of an alarm, the acoustical signalling devices of all detectors are activated together. In this way, the affected area is alarmed selectively and a timely escape from the endangered area is made possible.

Features
- Integrated 85dB sounder
- Test button for checking the battery
- Red status LED for the indication of activation and for the periodical function check
- Protection against mounting the detector without battery

Specifications

Operating voltage	9V block battery
Recommended batteries	GP # 1604G Duracell, # MN1604
Battery life	typ. 3 years
Warning signal "Replace battery"	min. 30 days
Sound level	approx. 85dB(A) / 3m distance
Ambient temperature	0°C to +55°C
Relative humidity	10 - 85% (no condensation)
Dimensions Ø × H	110 × 35 (mm)
Colour	white
Weight	125g (incl. battery)
Approval	0786-CPD-21036

Cross-references	Page	Art.No.	Name Type
	235	246169	Surface Mounting Box FH20/AP-1

241151 Optical Battery Smoke Detector/9/230V FH20/O/9/230

The optical smoke detector for battery and mains operation is suitable for use in single-family homes and apartments, especially in living rooms and bedrooms as well as in corridors. The mounting base and a battery are included in the delivery.

Up to 38 detectors of the same type can be networked with each other. In the event of an alarm, the acoustical signalling devices of all detectors are activated together. In this way, the affected area is alarmed selectively and a timely escape from the endangered area is made possible.

Features
- Integrated 85dB sounder
- Test button for checking the battery
- Red status LED for the indication of activation and for the periodical function check
- Green status LED indicates mains supply
- Protection against mounting the detector without battery

Specifications

Operating voltage	9V block battery
Mains voltage	100 - 240VAC, 50 - 60Hz
Recommended batteries	GP # 1604G Duracell, # MN1604
Battery life	typ. 5 years (mains voltage constantly available)
Warning signal "Replace battery"	min. 30 days
Sound level	approx. 85dB(A) / 3m distance
Ambient temperature	0°C to +55°C
Relative humidity	10 - 85% (no condensation)
Dimensions Ø × H	110 × 35 (mm)
Colour	white
Weight	125g (incl. battery)
Approval	0786-CPD-21036

Cross-references	Page	Art.No.	Name	Type
	235	246169	Surface Mounting Box FH20/AP-1	

246169

Surface Mounting Box FH20/AP-1

The installation box is used for surface mounting of an Optical Battery Smoke Detector Series FH20 which is networked with other detectors or which is mains powered, if there is no flush-mount installation box.

Specifications

Dimensions Ø × H	92 × 26 (mm)
Weight	30g

22 Beam Smoke Detectors

244022 Beam Smoke Detector/Conventional 6500R

The Beam Smoke Detector 6500R is used for the surveillance of open areas with a range of 5m to 70m (with accessories up to 100m). It consists of a combined transmitter-receiver unit which is integrated into a plastic housing. The detector is designed for application in conventional technology and is suitable for indoor mounting. A pulsed infrared beam emitted from the transmitter-receiver unit is reflected by a reflector (mirror). Alarm evaluation is achieved by detection of a reduced intensity of the light beam.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms.

The response sensitivity of the detector can be set to 6 different levels. Four levels show a fixed alarm threshold, 2 other levels provide an adaptation of the detector to changing ambient conditions by means of a variable alarm threshold.

The detector is delivered with a reflector, which can be used for ranges from 5 to 70m. A three-part accessory is available to extend the range of the detector from 70 to 100m.

Features
- Detection of clear and dark smoke
- Sender and receiver integrated in a single housing
- Sealed detector housing
- Receiver LED display for alarm and fault as well as display for preset values and commissioning support
- Adjustment screws for an easy alignment of the detector

Specifications

Operating voltage	10.2 to 32VDC
Current consumption at 24V	17mA (quiescent), 38.5mA (active)
Ambient temperature	-30°C to +55°C
Relative humidity	max. 95% (no condensation)
Dimensions W × H × D	
Detection unit	190 × 254 × 84 (mm)
Reflector (5 to 70m)	200 × 230 × 10 (mm)
Protection class	IP54
Colour	cream
Weight	1.8kg
Approvals	VdS G205034 LPCB 199u/01 2831-CPR-F0308

Cross-references	Page	Art.No.	Name Type
	240	244027	Heater Kit for Beam unit BEAMHK
	241	244028	Heater Kit for Reflector BEAMHKR
	240	244025	Mounting Bracket/Swivel 6500-MMK
	240	244024	Reflector For 6500/75-100m 6500-LRK
	240	244026	Surface Mounting Box 6500-SMK

244023 Beam Smoke Detector+Test/Conventional 6500RS

The Beam Smoke Detector 6500RS is identical with the detector 6500R, it includes however an integrated test unit. For easy functional testing, the detector can be remotely activated by the fire detection control panel during maintenance. This test simulates a light obscuration by means of an integrated test filter.

Specifications (for further specifications, see 6500R)

Operating voltage	15 to 32VDC
Current consumption test filter	max. 500mA

244020 Beam Smoke Detector/200 6500

The Beam Smoke Detector 6500 is used for the surveillance of open areas with a range of 5m to 70m (with accessories up to 100m). It consists of a combined transmitter-receiver unit which is integrated into a plastic housing. The detector is designed for application on the loop using System Sensor protocol and is suitable for indoor mounting. A pulsed infrared beam emitted from the transmitter-receiver unit is reflected by a reflector (mirror). Alarm evaluation is achieved by detection of a reduced intensity of the light beam. The Beam Smoke Detector 6500 is supplied via the loop and does not need an external power supply.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms.

The response sensitivity of the detector can be set to 6 different levels. Four levels show a fixed alarm threshold, 2 other levels provide an adaptation of the detector to changing ambient conditions by means of a variable alarm threshold.

The detector is delivered with a reflector, which can be used for ranges from 5 to 70m. A three-part accessory is available to extend the range of the detector from 70 to 100m.

Features
- Detection of clear and dark smoke
- Sender and receiver integrated in a single housing
- Sealed detector housing
- Integrated dual-isolator, activation by removal of two jumpers
- Receiver LED display for alarm and fault as well as display for preset values and commissioning support
- Adjustment screws for an easy alignment of the detector

Specifications

Operating voltage	supplied through loop voltage
Current consumption on the loop	2mA (quiescent), 8mA (active)
Ambient temperature	-30°C to +55°C
Relative humidity	max. 95% (no condensation)
Dimensions W × H × D	
Detection unit	190 × 254 × 84 (mm)
Reflector (5 to 70m)	200 × 230 × 10 (mm)
Protection class	IP54
Colour	cream
Weight	1.8kg
Approvals	VdS G205033
	2831-CPR-F1973

Cross-references	Page	Art.No.	Name Type
	240	244027	Heater Kit for Beam unit BEAMHK
	241	244028	Heater Kit for Reflector BEAMHKR
	240	244025	Mounting Bracket/Swivel 6500-MMK
	240	244024	Reflector For 6500/75-100m 6500-LRK
	240	244026	Surface Mounting Box 6500-SMK

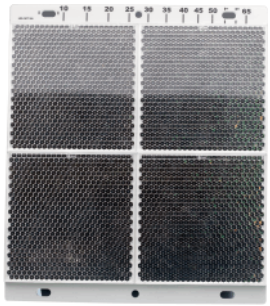
244021 Beam Smoke Detector+Test/200 6500S

The Beam Smoke Detector 6500S is identical with the detector 6500, it includes however an integrated test unit. For easy functional testing, the detector can be remotely activated by the fire detection control panel during maintenance. This test simulates a light obscuration by means of an integrated test filter. The test unit requires its own external power supply, it cannot be supplied by the loop.

Specifications (for further specifications, see 6500)

Operating voltage test filter	15 to 32VDC
Current consumption test filter	max. 500mA

244024 Reflector For 6500/75-100m 6500-LRK



The reflector (mirror) is needed for extending the surveillance range of a Beam Smoke Detector Series 6500 from 70 to 100m. The reflector consists of 3 parts, which are mounted together with the mirror that comes enclosed with the detector.

Specifications

Material	plastics
Dimensions W × H × D	200 × 230 × 10 (mm), single unit
Dimensions W × H	400 × 460 (mm), total reflecting area

Cross-references	Page	Art.No.	Name Type
	241	244028	Heater Kit for Reflector BEAMHKR
	240	244025	Mounting Bracket/Swivel 6500-MMK

244025 Mounting Bracket/Swivel 6500-MMK

The mounting accessory is used to install the Beam Smoke Detector Series 6500 or the reflector for application under difficult conditions (slope of the ceiling, etc.). Depending on the application, the mounting bracket may be used for both the beam smoke detector and for the reflector.

If the Beam Smoke Detector 6500 is mounted on the mounting bracket, the Surface Mounting Box 6500-SMK is additionally required. If the reflector must be used in connection with the mounting bracket, the surveillance range of the detector is limited to 70 metres.

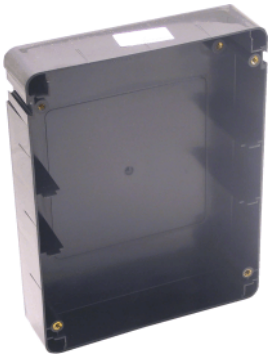
Features
- Three-dimensional adjustment of the bracket possible
- Mounting alternatively on ceiling or wall

Specifications

Mounting area W × H	76 × 253 (mm)
Distance from wall	approx. 150mm
Weight	1.45kg

Cross-references	Page	Art.No.	Name Type
	240	244024	Reflector For 6500/75-100m 6500-LRK
	240	244026	Surface Mounting Box 6500-SMK

244026 Surface Mounting Box 6500-SMK



The Surface Mounting Box 6500-SMK allows for the surface mounting of the Beam Smoke Detector Series 6500 or for the mounting of the detector in combination with the Mounting Bracket 6500-MMK.

Specifications

Material	plastics
Dimensions W × H × D	178 × 230 × 51 (mm)
Weight	280g

Cross-references	Page	Art.No.	Name Type
	240	244025	Mounting Bracket/Swivel 6500-MMK

244027 Heater Kit for Beam unit BEAMHK

The heating for the Beam Smoke Detector Series 6500 is used to avoid condensation in the detector housing and on the detector optics if the detector is mounted in areas with low temperatures. Condensation on the optics of the detector can cause false activations or faults of the beam smoke detector.

If the heating is used for a Beam Smoke Detector 6500R or 6500RS, the additional power for the heating must be included in the total power consumption of the detector. In the case of the Beam Smoke Detector 6500, the heating must be powered by an additional 24V power supply. In the case of a Beam Smoke Detector 6500S, the heating is powered by the 24V supply that is needed for the integrated test unit.

Specifications

Operating voltage	15 - 32VDC
Power at 24V	1.6W
max. power at 32V	3.0W

244028 Heater Kit for Reflector BEAMHKR

The heating for the reflector of the Beam Smoke Detectors Series 6500 is used to avoid condensation on the reflector if it is mounted in areas with low temperatures. Condensation on the reflector can cause false activations or faults of the beam smoke detector.

If the reflector gets equipped with a heating, the heating has to be installed in every part of the reflector. Therefore, up to a range of 70 metres, one heating is needed; for a range between 70 and 100 metres, four heatings are needed (since the reflector BEAMLRK, which consists of four individual reflectors, is used for this range).

In any case, an external 24V power supply, which powers the heating, is required.

Specifications

Operating voltage	15 - 32VDC
Power at 24V	7.7W
max. power at 32V	15W

244070 Beam Smoke Detector/Conventional FR3000

The Beam Smoke Detector FR3000 is used for the smoke detection by means of an infrared light beam and has a range of 5m to 120m. Therefore, the detector is very well suited for the monitoring of free areas, high rooms, halls or domes. The smoke detector consists of separate transmitter and receiver units as well as a system control unit. There must be a line-of-sight connection between transmitter and receiver unit with a minimum width of 60cm. If necessary, an additional transmitter/receiver pair can be connected to the control unit. The detector is adjusted by means of 2 adjusting wheels with an adjustment range of 10° each in horizontal and vertical direction. A laser-assisted adjustment aid with signal strength indication on the receiver unit and on the control unit makes it easier to precisely align the detector during commissioning.

By means of the patented "Light Cancellation Technology", possible sources of interference like sunlight, sodium lamps or fluorescent light are effectively filtered out. Slow changes of the operating conditions (e.g., contamination of the optics) are compensated by the automatic drift compensation and therefore do no result in false alarms. For the connection in conventional technology there are terminals inside the control unit. Connection to a loop is achieved via auxiliary modules. A separate power supply is required for the detector.

The beam smoke detector is designed for indoor mounting. Transmitter unit, receiver unit and system control unit are integrated into plastic housings. For the wall mounting, a mounting plate as well as a continuously adjustable mounting joint with a swivel range of 180° are available as accessories.

Features

- Detection of clear and dark smoke
- Integrated laser-assisted adjustment aid
- Two-wire connection between control unit and transmitter and receiver
- As an option, additional transmitter and receiver unit can be connected
- Separate alarm and fault outputs per transmitter/receiver pair
- Liquid crystal display on the system control unit
- Adjustable sensitivity and alarm threshold
- Adjustable delay times for alarm and fault
- Automatic readjustment of the sensitivity in case of aging or contamination
- Easy cabling thanks to knock-out cable entries

Specifications

Supply voltage	10.8 - 39.6VDC
Current consumption at 24V	14mA (control unit with 1 or 2 receivers)
plus	8mA (per transmitter)
Contact rating	2A/30VDC
Ambient temperature	-10°C to +55°C
Protection class	IP54
Dimensions	
Transmitter unit Ø × L	78 × 161 (mm)
Receiver unit Ø × L	78 × 161 (mm)
System control unit W × H × D	203 × 124 × 72 (mm)
Weight	
Transmitter unit	225g
Receiver unit	230g
System control unit	720g
Approvals	VdS G212034
	0786-CPD-21162

Cross-references	Page	Art.No.	Name Type
	242	244071	Detector for Beam Smoke Detector/Conv FR3000-DETECTOR
	242	244073	Flush Mounting Plate FR3000-202
	243	244074	Heater Kit for Beam unit 3000-204
	242	244072	Mounting Bracket/Swivel FR3000-201
	246	244664	Protection Grille for FR5000 Controller 1000-019
	246	244665	Protection Grille for FR5000 Detector 1000-018

244071 Detector for Beam Smoke Detector/Conv FR3000-DETECTOR

The additional pair of transmitter and receiver units is used for the expansion of a Beam Smoke Detector FR3000 and is connected to the existing system control unit of the detector.

Specifications see FR3000

244072 Mounting Bracket/Swivel FR3000-201

The mounting joint is used for the wall mounting as well as for the stepless horizontal and vertical alignment of the transmitter or receiver unit of a Beam Smoke Detector FR3000. All necessary screws are included in the package accompanying the mounting accessory.

Specifications

Rotation angle transmitter/receiver	360°
Swivel range	±90°
Dimensions Ø × D	100 × 85 (mm)
Weight	190g

244073 Flush Mounting Plate FR3000-202

The mounting plate is used to mount the transmitter or receiver unit of a Beam Smoke Detector FR3000 on a wall, on a 60mm flush-mount installation box.

Specifications

Adjustment range	±90°
Dimensions Ø × D	100 × 12 (mm)
Weight	38g

244074 Heater Kit for Beam unit 3000-204

The heating for the Beam Smoke Detector FR3000 is used to avoid condensation water on the optics of the transmitter or of the receiver if they are mounted in areas with low temperatures. The heating raises the temperature on the optics by 10°C. By using the heating, false activations and faults of the beam smoke detector due to condensation are effectively avoided.

An external 24V power supply which powers the heating is required.

Note: for one transmitter/receiver pair, two heater kits are needed.

Specifications

Operating voltage	typ. 24VAC/DC
Current consumption at 24V	max. 3A (inrush current)
	typ. 0.8A
Power at 24V	typ. 20W
Ambient temperature	min. -10°C

244660 Beam Smoke Detector/Conventional FR5000-50M

The Beam Smoke Detector FR5000 operates on the infrared principle and is used for the monitoring of open areas. The smoke detector set consists of a combined transmitter/receiver unit, a reflector for a range of 8m to 50m, as well as a system control unit. A system control unit allows connection of 2 transmitter/receiver units.

The transmitter unit emits an infrared light beam which is reflected by a prism mirror and which is evaluated in the receiver unit. If the light beam is attenuated by smoke, an alarm is activated. Slow changes of the operating conditions, such as the contamination of the optics, are compensated by the automatic drift compensation and do not result in false alarms.

For the connection to a conventional line, the system control unit offers one dry relay contact each for the alarm condition and the fault condition. Connection to a loop is achieved via auxiliary modules. An external power supply is required for the detector. The transmitter/receiver unit and the system control unit are designed for indoor mounting.

Features

- Detection of clear and dark smoke
- EASIFIT system for easy mounting of the detector
- Quick alignment of the infrared beam by means of integrated laser
- AUTO-ALIGN function for the automatic alignment of the beam
- AUTO-OPTIMISE function for the compensation of movements of the building and of contamination
- Two-coloured LEDs indicate the condition of the 2 transmitter/receiver units
- 2-wire interface between system control unit and detector
- Wide range of mounting accessories available

Specifications

Supply voltage	14 - 28VDC
Current consumption at 24V	
Operating mode "LO-Power"	typ. 10mA
Operating mode "HI-Power"	typ. 50mA
Contact rating	max. 0.1A/30VDC
Ambient temperature	-10°C to +55°C
Protection class	IP54
Dimensions	
Transmitter/receiver Ø × D	135 × 135 (mm)
System control unit W × H × D	202 × 230 × 81 (mm)
Reflector W × H × D	100 × 100 × 10 (mm)
Weight	
Transmitter/receiver	0.5kg
System control unit	1kg
Approvals	VdS G208017
	0832-CPD-0565

Cross-references	Page	Art.No.	Name Type
	244	244663	Detector for Beam Smoke Detector/Conv FR5000-DET-100M
	244	244662	Detector for Beam Smoke Detector/Conv FR5000-DET-50M
	246	244705	Heater Kit for Beam unit 5000-204
	246	244706	Heater Kit for Reflector 5000-205
	245	244689	Mounting Bracket/Swivel FR5000-201
	245	244669	Mounting Plate for 50M Reflector FR5000-008
	246	244664	Protection Grille for FR5000 Controller 1000-019
	246	244665	Protection Grille for FR5000 Detector 1000-018
	245	244703	Set of 3 Reflectors FR5000-004
	245	244667	Universal Bracket/Swivel FR5000-005

244661 Beam Smoke Detector/Conventional FR5000-100M

The beam smoke detector set FR5000-100M is identical to the beam smoke detector set FR5000-50M, but thanks to the larger reflector (4 reflector units are mounted in the form of a square), the beam smoke detector can be used for the monitoring of open areas with a range of 50m to 100m.

Specifications (for further specifications, see FR5000-50M)

Reflector dimensions W × H × D	200 × 200 × 10 (mm)

244075 NEW Beam Smoke Detector/Core/ISM/50m SA7100-100

The beam smoke detector set SA7100-100 is identical to the beam smoke detector set FR5000-50M, but the system control unit contains an integrated loop module. Therefore the unit can be connected directly to a loop with Apollo protocol. For expanding and mounting the detector, the Series FR5000 system accessories are used.

Specifications (for further specifications, see FR5000-50M)

Approvals	VdS G217042 2831-CPR-F1120

244662 Detector for Beam Smoke Detector/Conv FR5000-DET-50M

The additional transmitter/receiver unit can be connected to an existing system control unit FR5000. The detector comes with the necessary reflector for a range of 8m to 50m.

244663 Detector for Beam Smoke Detector/Conv FR5000-DET-100M

The additional transmitter/receiver unit can be connected to an existing system control unit FR5000. The detector comes with the necessary reflector for a range of 50m to 100m.

244703

Set of 3 Reflectors FR5000-004

The reflector set contains 3 reflectors and serves as supplement to a single reflector of a Beam Smoke Detector FR5000-50M. The 4 reflectors are assembled so as to form a square unit, thereby increasing the range of the detector to up to 100m.

Specifications

Reflector dimensions W × H × D 200 × 200 × 10 (mm)

Cross-references	Page	Art.No.	Name Type
	245	244668	Mounting Plate for 100m Reflector FR5000-007

244667

Universal Bracket/Swivel FR5000-005

The universal joint is used for the wall mounting of the transmitter/receiver unit or of the reflector of a Beam Smoke Detector FR5000. Depending on how it is mounted, the joint allows stepless horizontal or vertical alignment. All necessary screws are included in the package accompanying the mounting accessory.

Specifications

Swivel range	±50°
Dimensions W × H × D	134 × 134 × 71 (mm)
Weight	280g

244668

Mounting Plate for 100m Reflector FR5000-007

The mounting plate can accommodate 4 prism reflectors of the Beam Smoke Detector FR5000. This means that the reflector has a maximum range of 100 metres. The reflector is mounted on the wall and aligned by means of the universal joint FR5000-005 or the mounting joint FR5000-201.

Cross-references	Page	Art.No.	Name Type
	245	244689	Mounting Bracket/Swivel FR5000-201
	245	244667	Universal Bracket/Swivel FR5000-005

244669

Mounting Plate for 50M Reflector FR5000-008

The mounting plate can accommodate a prism reflector of the Beam Smoke Detector FR5000. This means that the reflector has a maximum range of 50 metres. The reflector is mounted on the wall and aligned by means of the universal joint FR5000-005 or the mounting joint FR5000-201.

Cross-references	Page	Art.No.	Name Type
	245	244689	Mounting Bracket/Swivel FR5000-201
	245	244667	Universal Bracket/Swivel FR5000-005

244689

Mounting Bracket/Swivel FR5000-201

The mounting joint is used for the wall mounting as well as for the stepless horizontal and vertical alignment of the transmitter/receiver unit or of the reflector of a Beam Smoke Detector FR5000. All necessary screws are included in the package accompanying the mounting accessory.

Specifications

Rotation angle	360°
Swivel range	±70°
Dimensions Ø × D	100 × 98 (mm)
Weight	280g

244705 Heater Kit for Beam unit 5000-204

The heating for the Beam Smoke Detector FR5000 is used to avoid condensation water on the optics of the transmitter/receiver unit if it is mounted in areas with low temperatures. The heating raises the temperature on the optics by 10°C. By using the heating, false activations and faults of the beam smoke detector due to condensation are effectively avoided.

An external 24V power supply which powers the heating is required.

Specifications

Operating voltage	typ. 24VAC/DC
Current consumption at 24V	max. 3A (inrush current)
	typ. 0.8A
Power at 24V	typ. 20W
Ambient temperature	min. -10°C

244706 Heater Kit for Reflector 5000-205

The heating for the reflector of the Beam Smoke Detector FR5000 is used to avoid condensation water on the reflector if it is mounted in areas with low temperatures. The heating raises the temperature on the optics by 10°C. By using the heating, false activations and faults of the beam smoke detector due to condensation are effectively avoided.

The heating is mounted on the wall and can accommodate either one reflector (range 50 metres) or four reflectors (range 50 to 100 metres). An external 24V power supply which powers the heating is required.

Specifications

Operating voltage	typ. 24VAC/DC
Current consumption at 24V	max. 3A (inrush current)
	typ. 0.8A
Power at 24V	typ. 20W
Ambient temperature	min. -10°C
Dimensions W × H	284 × 284 (mm)

244664 Protection Grille for FR5000 Controller 1000-019

The protective cage is made of solid steel wire and is designed for the protection of the system control unit of the Beam Smoke Detectors FR3000 and FR5000.

Specifications

Colour	white

244665 Protection Grille for FR5000 Detector 1000-018

The protective cage is made of solid steel wire and is designed for the protection of the transmitter/receiver unit of the Beam Smoke Detectors FR3000 and FR5000.

Specifications

Colour	white

23 Linear Heat Detectors

244690 NEW Linear Heat Detector Single Tube ADW535-1

Through the connected sensor pipe, the Linear Heat Detector ADW535-1 can monitor the temperature of large areas. The sensor pipe can be laid with a maximum length of 115 metres and it is insensitive to environmental influences such as extreme temperatures, humidity, movement of the air, or dust. Therefore the detector is ideally suited for monitoring multi-storey or underground car parks, tunnels, loading bays, industrial plants or production halls.

The mode of operation of the heat detector is based on the expansion of gases with rising temperatures and the associated change in pressure in the sensor pipe. By means of electronic pressure sensors and a microprocessor-controlled combination of the measured value, the response behaviour of the detector can be precisely programmed for the system-specific application requirements. Thanks to an integrated alarm verification, deceptive alarms are virtually ruled out. Together with the optional Relay Interface Module RIM36, the heat detector can be used as rate-of-rise or maximum heat detector, depending on the application.

The system is provided with an automatic sensor pipe monitoring which indicates a deviation of the pressure in the system, for example due to a leak or a squashed pipe, as fault.

Features
- Connection in addressable conventional technology, via dry contacts
- Additional modules allow connection to a loop
- Automatic self tests of the pneumatic system
- Optical indication of alarm, fault and operation

Specifications

Supply voltage	9 - 30VDC
Current consumption at 24V	typ. 35mA (quiescent), 42mA (alarm), 210mA (self test)
Ambient temperature	
Evaluation unit	-25°C to +70°C
Sensor pipe	-40°C to +180°C
Protection class	IP65
Dimensions (without threaded cable glands and sensor pipe connections)	
W × H × D	250 × 160 × 134 (mm)
Colour housing	light grey
Weight	1.6kg
Approval	VdS G214076

Cross-references	Page	Art.No.	Name Type
	249	244692	External Temperature Sensor for ADW535 ART535-10
	249	244693	Relay Interface Module RIM36
	249	244139	Sensor tube /Cu SU=5,5m TU-5/4-CU
	251	244179	Sensor Tube Teflon de=6/4 Ring 50m TU-6/4-PTFE

244691 NEW Linear Heat Detector Double Tube ADW535-2

The Linear Heat Detector ADW535-2 is identical with the Linear Heat Detector ADW535-1, but the ADW535-2 is suitable for the connection of 2 independent sensor pipes. Both sensor pipes can be laid with a maximum length of 115 metres each. The two sensor circuits are independently evaluated and monitored, and their condition is transmitted independently. The conditions alarm and fault are individually indicated for the two circuits.

Specifications (for further specifications, see ADW535-1)

Current consumption at 24V	typ. 43mA (quiescent), 57mA (alarm), 230mA (self test)
Weight	2kg

244692 NEW External Temperature Sensor for ADW535 ART535-10

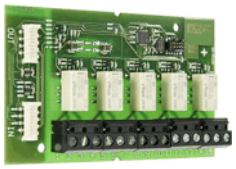
The external temperature sensor is used for the temperature compensation of the rate-of-rise temperature detection system ADW535. The temperature sensor is to be used

- for applications according to EN 54-22, response classes CI through GI
- for applications according to all EN 54-22 response classes if the application temperature in the monitored area does not differ from the temperature near the evaluation unit by more than 20°C.

Specifications

Ambient temperature	-50°C to +200°C
Protection class	IP65
Connection cable	2 × 0.2mm², length 10m

244693 NEW Relay Interface Module RIM36



The relay interface module is designed for the expansion of a Linear Heat Detector ADW535 or of an aspirating smoke detector ASD532. The module has 5 relays with one dry change-over contact each for transmitting status information (e.g., alarm, advance signal alarm) to the fire detection control panel. The function of each relay has been predefined in the thermal detection system or in the aspirating smoke detector, but it can be freely programmed by means of the configuration software ADWConfig. The delivery scope includes a flat cable, the module holder and mounting screws.

Specifications

Switching power	50VDC/1A/30W
Dimensions W × H × D	95 × 58 × 17 (mm)
Weight	85g

244139 NEW Sensor tube /Cu SU=5,5m TU-5/4-CU

The sensor pipe that is made of copper has been checked for inclusions and hairline cracks and is intended for connection to the Linear Heat Detector ADW535. The delivery scope includes the plastic pipe clamps for the sensor pipe and a screw joint.

Note: The end plug for the copper pipe d=5/4 as well as connecting pieces that may be needed in addition have to be ordered separately.

Specifications

Ambient temperature	-40°C to +800°C
Pipe length	5.5m
Diameter	5mm (outside), 4mm (inside)

Cross-references	Page	Art.No.	Name Type
	250	244148	End Plug EP-5/4-CuZn

244144 NEW Pipe Clamp Sensor Tube PC-5/6-PP

The pipe clamp is made of plastic and is used for mounting the sensor pipe of the Linear Heat Detector ADW535. One packing unit contains 100 pieces.

Specifications

Ambient temperature	-40°C to +80°C
Material	Polypropylene
Dimensions L × H	63 × 5.3 (mm)

Length 25mm (pipe clamp closed)The pipe clamp is made of plastic and is used for mounting the sensor pipe of the Linear Heat Detector ADW535. One packing unit contains 100 pieces.

Specifications

Ambient temperature	-40°C to +80°C
Material	Polypropylene
Dimensions L × H	63 × 5.3 (mm)
Length	25mm (pipe clamp closed)

244177 NEW

Pipe Clamp Sensor Tube PC-5/6-STG

The galvanised pipe clamp is used for mounting the sensor pipe of a Linear Heat Detector ADW535 in areas with a higher ambient temperature. The packing unit contains 10 galvanised pipe clamps and 10 brass stiffener sleevers 10/8.

Specifications

Mounting technique	M6 thread
Clamping range	8-10 mm

244178 NEW

Flexible Hose PA d=5/3 FH-5/3-PA

The plastic hose is used as supply line to the monitored area of a Linear Heat Detector ADW535.

Specifications

Ambient temperature	-40°C to +100°C
Material	Polyamide
Diameter	5mm (outside), 3mm (inside)
Bend radius	min. 30mm

244145 NEW

Sensing Coil CU SC-5/4-CU-5

The sensing coil is made of copper and allows you to use the Linear Heat Detector ADW535 for monitoring objects and small areas.

Specifications

Ambient temperature	-40°C to +800°C
Diameter of coil	50mm
Length of copper pipe	5m

244146 NEW

Screw Junction SJ-5/4-CuZn

The screw joint is made of brass and is used to connect the copper sensor pipe of the Linear Heat Detector ADW535 to a plastic hose d=5/3. For the connection of the plastic hose, a brass stiffener sleeve 5/3 is needed in addition. One packing unit contains 5 pieces.

Specifications

Ambient temperature	-40°C to +800°C
Material	Brass CW617N
Dimensions Ø × L	5 × 22.5 (mm)

244147 NEW

T-Junction TJ-5/4-CuZn

The T-joint is made of brass and allows you to create a T-shaped branch in the copper sensor pipe of a Linear Heat Detector ADW535.

Specifications

Ambient temperature	-40°C to +800°C
Material	Brass CW617N

244148 NEW

End Plug EP-5/4-CuZn

The end plug is made of brass and is used as sealing end piece for the copper sensor pipe of a Linear Heat Detector ADW535. One packing unit contains 5 pieces.

Specifications

Ambient temperature	-40°C to +800°C
Material	Brass CW617N
Dimensions Ø × L	5 × 8.5 (mm)

244149 NEW

Stiffener Sleeve SS-3-CuZn

The stiffener sleeve is used for connecting the plastic hose d=5/3 to the copper sensor pipe of the Linear Heat Detector ADW535. One packing unit contains 10 pieces.

Specifications

Ambient temperature	-40°C to +800°C
Material	Brass CW617N
Dimensions Ø × L	5 × 8.5 (mm)

244179 NEW

Sensor Tube Teflon de=6/4 Ring 50m TU-6/4-PTFE

The Teflon sensor pipe is needed for the Linear Heat Detector ADW535 for use under corrosive environmental conditions. The sensor pipe has already been cleaned with oxygen and has been checked for leaks. When the sensor pipe is shipped, its ends have already been provided with PVDF screw joints and an end plug.

The delivery scope includes the galvanised pipe clamps for the sensor pipe, the screw joint as well as the end plug. If additional connecting pieces are needed, they have to be ordered separately.

One packing unit contains 50 metres (coil).

Specifications

Ambient temperature	-40°C to +200°C
Material	Teflon
Diameter	6mm (outside), 4mm (inside)
Weight (50m coil)	approx. 2kg

244194 NEW

Connector-Set Teflon Tube d=6/4 AD-ADW-TU6/4-PTFE

The brass adapter is used for directly connecting the Teflon sensor pipe d=6/4 to a Linear Heat Detector ADW535. The adapter is suitable for use under corrosive environmental conditions.

Specifications

Ambient temperature	-40°C to +200°C
Material	Brass CW617N
Diameter	6mm (outside), 4mm (inside)

244195 NEW

Screw Connection Teflon Tube d=6/4 SJ-6/4-PVDF

The screw joint is used for connecting two Teflon sensor pipes of a Linear Heat Detector ADW535. The screw joint is suitable for use under corrosive environmental conditions.

Specifications

Ambient temperature	-50°C to +140°C
Material	Polyvinylidendifluoride
Diameter	6mm (outside), 4mm (inside)

244196 NEW

T-Junction Teflon Tube d=6/4 TJ-6/4-PVDF

The T-joint allows you to create a T-shaped branch of the Teflon sensor pipe of a Linear Heat Detector ADW535. The T-joint is suitable for use under corrosive environmental conditions.

Specifications

Ambient temperature	-50°C to +140°C
Material	Polyvinylidendifluoride
Diameter	6mm (outside), 4mm (inside)

244197 NEW

End Spigot Teflon Tube d=6/4 EP-6/4-PVDF

The end plug is used as sealing end piece for the Teflon sensor pipe of a Linear Heat Detector ADW535. The end plug is suitable for use under corrosive environmental conditions.

Specifications

Ambient temperature	-50°C to +140°C
Material	Polyvinylidendifluoride
Diameter	6mm (outside), 4mm (inside)

244694

Control Unit Alarmline II with LED LWM-2-PC

----- Available on request -----

Together with the sensor cable, the control unit LWM-2 forms a linear thermal detection system. The sensor cable consists of 4 copper wires, which are insulated with a material with a negative temperature coefficient. Through permanent monitoring of the resistance of the sensor cable, a rise in temperature at any point of the cable can be detected.

Pre-alarm and alarm thresholds can be set in the control unit by means of simple menu options. In the control unit there are dry change-over contacts for pre-alarm and alarm, as well as an opto-coupled fault output. Four LEDs indicate the status of the control unit, which is parameterised by means of a PC and a freely available programming software.

In addition to monitoring the sensor cable for changes in temperature, the control unit also checks the cable for wire breakage and short circuit in order to be able to report possible damages immediately.

The control unit is accommodated in a grey plastic housing with internal temperature monitor. If the temperature monitor senses a temperature above 100°C inside the housing, an alarm will be activated.

The termination unit is connected at the end of the sensor cable, thereby serving as end-of-line element of the sensor cable line. The termination unit is included in the delivery scope of the control unit.

Features

- Sensor cables up to a length of 500m can be connected
- Detects temperature exceedance at any point of the sensor cable
- High security against false alarms, even under unfavourable environmental conditions
- Temperature-monitored housing
- Easy mounting, commissioning and maintenance

Specifications

Operating voltage	20 - 28VDC
Current consumption at 24VDC	max. 70mA (quiescent or fault) max. 80mA (pre-alarm or alarm) max. 100mA (pre-alarm and alarm)
Operating temperature	0°C to +50°C
Protection class	IP65
Dimensions W × H × D	182 × 180 × 90 (mm)
Colour	light grey
Weight	800g

Cross-references	Page	Art.No.	Name Type
	254	244698	Sensor Cable/Nylon/Stainless Steel Alarmline II SK11800054
	253	244696	Sensor Cable/Nylon Alarmline II SK11800051
	254	244697	Sensor Cable/Polypropylene Alarmline II SK11800052
	253	244695	Sensor Cable/PVC/Red Alarmline II SK11800050

244704 Control Unit Alarmline II with LED and LCD LWM-2-LCD

----- **Available on request** -----

The structure of the control unit LWM-2-LCD is identical to that of the unit LWM-2, but the LWM-2-LCD also contains an LC display on the front of the housing and buttons inside the device. Therefore the control unit can be programmed manually even without a PC.

244695 Sensor Cable/PVC/Red Alarmline II SK11800050

The red Alarmline-II sensor cable consists of four copper wires, each of which is insulated with a colour-coded material with a negative temperature coefficient. The wires are twisted and insulated with a covering made of temperature-resistant and flame-retardant plastic.

The red sensor cable is used in monitored zones where increased exposure to dust and moisture is to be expected.

Features
- Length of sensor cable up to 500m
- Detects temperature exceedances over the whole length of the cable
- Resistant to dust and moisture

Specifications

Outer diameter	4.6mm
Weight per metre	23.7g
Operating temperature	-40°C to +90°C (continuously) +125°C (briefly, resettable)

Cross-references	Page	Art.No.	Name	Type
	254	244630	Mounting Clip 3040/LGK	

244696 Sensor Cable/Nylon Alarmline II SK11800051

The black Alarmline-II sensor cable with nylon coating consists of four copper wires, each of which is insulated with a colour-coded material with a negative temperature coefficient. The wires are twisted and insulated with a covering made of temperature-resistant and flame-retardant plastic.

The black sensor cable with nylon coating has a high resistance to chemical and biological agents. Therefore, it is used in monitored zones where acidic, alkaline or solvent vapours can form. In addition, this cable is UV-resistant and therefore it is suitable for outdoor use.

Features
- Length of sensor cable up to 500m
- Detects temperature exceedances over the whole length of the cable
- Resistant to chemical and biological agents
- Suitable for outdoor use

Specifications

Outer diameter	5.5mm
Weight per metre	31.9g
Operating temperature	-40°C to +90°C (continuously) +125°C (briefly, resettable)

244697 Sensor Cable/Polypropylene Alarmline II SK11800052

The transparent Alarmline-II sensor cable with polypropylene coating consists of four copper wires, each of which is insulated with a colour-coded material with a negative temperature coefficient. The wires are twisted and insulated with a covering made of temperature-resistant and flame-retardant plastic.

The transparent sensor cable with polypropylene coating has highest resistance to chemical agents. Therefore it is used in monitored zones where highly corrosive vapours can form.

Features
- Length of sensor cable up to 500m
- Detects temperature exceedances over the whole length of the cable
- Suitable for use in highly corrosive environment

Specifications

Outer diameter	5.5mm
Weight per metre	30.4g
Operating temperature	-40°C to +90°C (continuously) +125°C (briefly, resettable)

Cross-references	Page	Art.No.	Name	Type
	254	244630	Mounting Clip 3040/LGK	

244698 Sensor Cable/Nylon/Stainless Steel Alarmline II SK11800054

The Alarmline-II sensor cable with stainless steel mesh consists of four copper wires, each of which is insulated with a colour-coded material with a negative temperature coefficient. The wires are twisted and insulated with a covering made of temperature-resistant and flame-retardant plastic.

The sensor cable with stainless steel mesh has a high resistance to chemical and biological agents, and is additionally protected against rough, mechanical strain. Therefore, it is used in monitored zones where acidic, alkaline or solvent vapours can form or where mechanical strain is to be expected. In addition, this cable is UV-resistant and therefore it is suitable for outdoor use.

Features
- Length of sensor cable up to 500m
- Detects temperature exceedances over the whole length of the cable
- Resistant to chemical and biological agents as well as mechanical strain
- Suitable for outdoor use

Specifications

Outer diameter	6.1mm
Weight per metre	33g
Operating temperature	-40°C to +90°C (continuously) +125°C (briefly, resettable)

244630 Mounting Clip 3040/LGK

The insulating grip saddle is used for mounting the temperature-resistant sensing cable to concrete ceilings. Please note that the mounting clip has a limited resistance to acids and solvents. Therefore, it is not recommended for use in environments where sensing cables either with black nylon coating or stainless steel meshwork are usually applied.

FAAST LT

244403 Smoke Aspiration System FL0111E-HS

The Smoke Aspiration System FL0111E-HS from the Series FAAST LT has connections for 1 pipe network and contains a highly sensitive laser smoke detector. The device is connected to the fire detection control panel via the built-in dry relay contacts. The smoke aspiration system has been certified according to the EN 54-20 Classes A, B and C. It is especially intended for Class C applications, however it is also very well suited for medium-sized systems according to Class B and small systems according to Class A.

Via the connected sensor pipe network, air is aspirated from the monitored room and directed to the laser detector. The integrated evaluation logic evaluates the smoke concentration and when the threshold value is reached, it activates an alarm. Thanks to the high response sensitivity of the laser smoke detector, the system is ideal for early fire detection in sensitive areas.

At the front of the device, light emitting diodes indicate the conditions operation, alarm and various faults. In addition, a multi-segment LED display indicates the relative air flow. The output of the fan that is integrated into the smoke aspiration system, can be set to one of 10 steps. By means of a modern ultrasonic technique, a precise and temperature-independent monitoring of the air flow is achieved. The failure of the fan, a blockage of the aspiration holes or a pipe rupture are detected, visually indicated on the device and output as fault message.

The integrated event memory contains 2244 entries and facilitates the evaluation of fire events and fault causes. The built-in USB interface is used for the communication with the graphical PC software PipeIQ™ LT. By means of the software, parameters of the smoke aspiration system can be configured. For the project planning of the smoke aspiration system, the layout of the piping can be graphically designed and the sensitivities and transport times for the aspiration holes can be determined. In the course of maintenance, the current parameters of the smoke aspiration system, such as smoke density or the absolute air flow, can be queried and presented in the form of a diagram. In addition, operations and test activations of the system can be carried out and the event memory can be read out and indicated.

For maintenance purposes, the installed air filter can be easily removed and cleaned or replaced. The laser smoke detector can be removed just as easily. The smoke aspiration system comes with the laser smoke detector, with the wall bracket, the terminals and the labelling strips for the LED display elements.

The system occupies 1 detector address for the installed laser detector as well as 1 module address for the monitoring.

Specifications

Supply voltage	18.5 - 31.5VDC
Current consumption at 24V	typ. 170mA
Contact rating	2A/30VDC or 0.5A/30VAC
Pipe length	max. 100m
Monitored area	max. 2000m²
Response sensitivity	0.06%/m to 6%/m, 9 levels
USB socket	type B
Ambient temperature	-10°C to +55°C
Relative humidity	max. 93% (no condensation)
Protection class	IP65
Dimensions W × H × D	356 × 403 × 135 (mm, incl. pipe connections)
Weight	approx. 4.2kg
Approvals	VdS G214079 LPCB 199ad/01 2831-CPR-F1050

Cross-references	Page	Art.No.	Name Type
	259	244284	Air Filter for Smoke Aspir. System F-INF-25
	257	241124	Optical Laser Smoke Detector/Extra F-SEN-SSE
	258	244376	Replacement Filter intern. for FAAST LT FL-IF

244405 Smoke Aspiration System FL0122E-HS

The Smoke Aspiration System FL0122E-HS is identical with the system FL0111E-HS, but the FL0122E-HS has connections for 2 separate pipe networks and therefore can monitor 2 independent areas. The smoke aspiration system contains 2 separate sensing chambers, each with its own laser smoke detector, fan and filter as well as separate ultrasonic air flow monitoring. Two multi-segment LED displays indicate the relative air flow separately for each channel. The system is connected to the fire detection control panel via the built-in dry relay contacts.

Specifications (for further specifications, see FL0111E-HS)

Current consumption at 24V	typ. 270mA
Approvals	VdS G214079 LPCB 199ad/03 2831-CPR-F1052

244371 Smoke Aspiration System FL2012EI

The Smoke Aspiration System FL2012EI is identical to the system FL0111E-HS, but the FL2012EI contains two laser smoke detectors which are combined in an interdependence of two detectors. The alarm condition is only reached when both detectors have been activated. As a result, the smoke aspiration system meets even the highest demands on evaluation reliability.

In addition, the Smoke Aspiration System FL2012EI is prepared for direct connection to a loop with System Sensor protocol. The system occupies 1 detector address for each of the two laser smoke detectors as well as 1 module address for the monitoring.

Specifications (for further specifications, see FL0111E-HS)

Current consumption from loop	max. 900µA (quiescent)
Approvals	VdS G215093 LPCB 199ae/02 0832-CPR-F1054

244372 Smoke Aspiration System FL2022EI

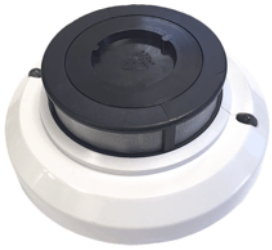
The Smoke Aspiration System FL2022EI is identical to the system FL0111E-HS, but the FL2022EI has connections for 2 separate pipe networks and therefore can monitor 2 independent areas. The smoke aspiration system contains 2 separate sensing chambers, each with its own laser smoke detector, fan and filter as well as separate ultrasonic air flow monitoring. Two multi-segment LED displays indicate the relative air flow separately for each channel.

In addition, the Smoke Aspiration System FL2012EI is prepared for direct connection to a loop with System Sensor protocol. The system occupies 2 detector addresses for the two laser smoke detectors as well as 2 module addresses for the monitoring of both channels.

Specifications (for further specifications, see FL0111E-HS)

Current consumption at 24V	typ. 265mA
Current consumption from loop	max. 900µA (quiescent)
Approvals	VdS G215093 LPCB 199ae/03 0832-CPR-F1055

241124 NEW Optical Laser Smoke Detector/Extra F-SEN-SSE



The electrical design and the functions of the Optical Laser Smoke Detector F-SEN-SSE are identical with those of the Optical Laser Smoke Detector 72051EI, but the F-SEN-SSE is integrated in a flatter housing.

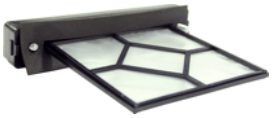
The detector is only intended for installation in the Smoke Aspiration Systems FAAST LT and in the Duct Detector Housing DNRE.

Specifications (for further specifications, see 72051EI)

Dimensions Ø × H	102 × 47 (mm)
Weight	110g

Cross-references	Page	Art.No.	Name Type
	97	244060	Duct Detector Housing/200 DNRE
	256	244403	Smoke Aspiration System FL0111E-HS
	257	244405	Smoke Aspiration System FL0122E-HS
	257	244371	Smoke Aspiration System FL2012EI
	257	244372	Smoke Aspiration System FL2022EI

244376 Replacement Filter intern. for FAAST LT FL-IF



The filter insert FL-IF is used as replacement for a dirty internal air filter of a Smoke Aspiration System Series FAAST LT.

244380 Smoke Aspiration System 8100E

The Smoke Aspiration System 8100E from the Series FAAST has connections for 1 pipe network and has been certified according to EN 54-20 Classes A, B and C. Due to the extremely high sensitivity and the excellent detection characteristics, the system is intended for early fire detection in especially critical areas according to Class A. However, the smoke aspiration system is also very well suited for large systems according to Class B or C.

Via the pipe network, air is aspirated from the monitored room and directed to the highly sensitive laser detector module in DualVision technology. By means of modern evaluation algorithms, a fire is already reliably detected at an early stage. At the same time, noise variables are filtered out by the patented particle filter and complex analysis techniques. In addition, the system can be very well adjusted to the environmental conditions by means of the optional Acclimate™ mode. As a result, the smoke aspiration system has a very high immunity to deceptive alarms.

The system is connected to the fire detection control panel via the integrated dry relay contacts. Five relays are intended for the conditions alarm, action and alert. There are 3 additional relays for the evaluation of faults.

At the front of the device, light emitting diodes indicate the conditions operation, fire, action, alert and different faults. In addition, the air opacity and the relative air flow are indicated by two multi-segment LED displays. By means of a modern ultrasonic technique, a precise and temperature-independent monitoring of the air flow is achieved. The failure of the fan, a blockage of the aspiration holes or a pipe rupture are detected, visually indicated on the device and output as fault message.

The integrated event memory contains 18,000 entries and facilitates the evaluation of fire events and fault causes. The integrated Ethernet interface is used for the communication with the graphical PC software PipeIQ™. By means of the software, parameters of the smoke aspiration system, such as the sensitivity, can be configured. For the project planning of the smoke aspiration system, the layout of the piping can be graphically designed and the sensitivities and transport times for the aspiration holes can be determined. In the course of maintenance, the current parameters of the smoke aspiration system, such as smoke density or the absolute air flow, can be queried and presented in the form of a diagram. In addition, operations and test activations of the system can be carried out and the event memory can be read out and indicated. The integrated web server allows the visualisation of the system condition and of all settings – even from a distance. Emails with events and system information can be sent automatically to up to 6 email addresses.

For maintenance purposes, the installed air filter can be easily removed and cleaned or replaced. The smoke aspiration system comes with the wall bracket, the terminals, a user manual as well as a front foil for the labelling of the display and operating elements in English. Further front foils in other languages are available separately.

Specifications

Supply voltage	18 - 30VDC
Current consumption at 24V	typ. 500mA
Contact rating	3A/30VDC or 0.5A/125VAC
Pipe length	max. 120m
Monitored area	max. 2000m²
Response sensitivity	0.0015%/m to 20.5%/m
Ethernet socket	RJ-45 (8P8C)
Ambient temperature	0°C to +38°C
Relative humidity	max. 95% (no condensation)
Protection class	IP30
Dimensions W × H × D	330 × 337 × 127 (mm, incl. pipe connections)
Weight	approx. 3.8kg
Approvals	VdS G212002 0786-CPD-21130

Cross-references	Page	Art.No.	Name Type
	259	244284	Air Filter for Smoke Aspir. System F-INF-25
	260	244388	Front Foils FAAST It-Fr-De-Da F-A-LC-A
	259	244381	Replacement Filter internal for FAAST F-A3384-000

244381 Replacement Filter internal for FAAST F-A3384-000

The filter insert is used as replacement for a dirty internal air filter of a Smoke Aspiration System Series FAAST.

244284 NEW Air Filter for Smoke Aspir. System F-INF-25

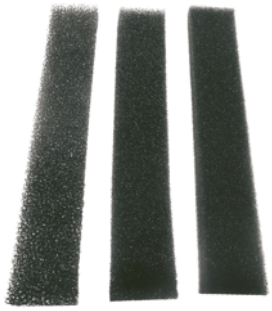
The air filter is placed in the sensor pipe network outside the smoke aspiration system housing, to protect the detector against rapid contamination. The filter consists of 3 layers (a coarse filter mat, a medium filter mat and a fine one), which ensure reliable cleaning of the aspirated air, but at the same time allow smoke particles to pass in case of fire. The filter is provided with 2 pipe fittings for direct insertion into the sensor pipe network.

Specifications

Dimensions L × W × H	294 × 44 × 60 (mm)
Colour	grey
Weight	225g

Cross-references	Page	Art.No.	Name Type
	259	244285	Replacement Filter F-INF-25-RF

244285 NEW Replacement Filter F-INF-25-RF



The packing unit contains 1 coarse, 1 medium and 1 fine replacement filter mat for the Air Filter F-INF-25.

244388 Front Foils FAAST It-Fr-De-Da F-A-LC-A

The front foil set is used to label the display and operating elements of a Smoke Aspiration System Series FAAST. The set contains one foil each in Italian, French, German and Danish language.

244389 Front Foils FAAST It-Fr-Es-Pt F-A-LC-B

The front foil set is used to label the display and operating elements of a Smoke Aspiration System Series FAAST. The set contains one foil each in Italian, French, Spanish and Portuguese language.

244390 Front Foils FAAST It-Ru-De-Hu F-A-LC-C

The front foil set is used to label the display and operating elements of a Smoke Aspiration System Series FAAST. The set contains one foil each in Italian, Russian, German and Hungarian language.

244391 Front Foils FAAST Fi-Sv-No-Ru F-A-LC-D

The front foil set is used to label the display and operating elements of a Smoke Aspiration System Series FAAST. The set contains one foil each in Finnish, Swedish, Norwegian and Russian language.

244385 Ceiling Lead-Through Set complete F-CF-25

The ceiling duct allows unobtrusive integration of the smoke aspiration holes in areas with false ceilings and in the case of special applications, where air samples must be drawn from closed rooms (switch cabinets etc.). The set consists of the aspiration element including knurled nut, 2m of flexible sensing tube and a Pipe Fitting/T90. The required reduction foil has to be ordered separately.

244386 Condensate Separator Pipe complete F-WT-25

The collecting pipe is intended for installation in the sensor pipe network and guarantees that aspirated air samples, which are directed to the smoke aspiration system, are dry. This is an effective measure to keep the number of false alarms low in areas with differing or varying temperatures as well as in areas with high humidity. The set consists of the collecting pipe as well as the flexible tube for draining off condensation. For the optimum effect, the collecting pipe is to be installed at the lowest point within the pipe network.

25 Accessories and Installation Material for Smoke Aspiration Systems

222053 Automatic Purging Unit/3500L/IP54 AFE70-2/IP54

By means of the Automatic Purging Unit Series AFE70, contamination of the pipe system and of the aspiration holes of a smoke aspiration system is prevented and dirt is removed by periodically „purging“ pipe systems and filters with compressed air. In contrast to conventional systems, the Automatic Purging Unit Series AFE70 only needs one solenoid valve. Through this valve, the evaluation unit is isolated from the pipe network in order to protect the evaluation unit against damage caused by the compressed air, but at the same time the valve is also used to introduce the compressed air into the pipe network. The thoughtful and patented design of the valve ensures completely unhindered air flow from the sensor pipe network through the purging unit to the evaluation unit of the smoke aspiration system. The solenoid valve is actuated by a control board that is integrated into the housing.

Thanks to the compact structure of the Automatic Purging Units Series AFE70 and the integration of all components in a housing, the extensive mechanical installations and electrical control devices required for conventional purging systems as well as the piping and cabling needed for this can be saved.

Features

- Fully integrated compact system
- Patented design without air resistance as defined by EN 54-20
- 6 purging programs, each with short or long purging cycle
- Can be manually controlled by means of external push-button
- Internal clock for up to 6 daily timed, preventive purging processes
- Automatic start if fault message is received from smoke aspiration system
- If several AFE70's are fed by the same compressed-air supply pipe, a time delay can be used to avoid simultaneous consumption of large quantities of compressed air
- Several systems can be coupled in master-slave mode
- Can be used in a wide pressure range
- Prepared for connection to all usual fire detection control panels and smoke aspiration systems
- Easy commissioning without software tools
- Multicoloured LED indicates the system conditions

Specifications

Operating voltage	21.6 - 30VDC
Current consumption at 24V	8mA (normal condition)
	300mA (solenoid valve energised)
Compressed air connection	
max. permissible overpressure	0.7MPa (7.0bar)
recommended min. overpressure	0.2MPa (2.0bar)
Flow rate solenoid valve	0.2MPa: typ. 1,300 l/min
	0.4MPa: typ. 2,300 l/min
	0.6MPa: typ. 3,200 l/min
	0.7MPa: typ. 3,700 l/min
Ambient temperature	+5°C to +50°C
Protection class	IP20D (expertly installed)
	IP54 (control electronics)
Dimensions W × H × D	204 × 68 × 160 (mm, without push-in fittings)
	204 × 201 × 160 (mm, with push-in fittings)
Colour case cover	grey white, RAL 9002
Weight	approx. 3.2kg

222054 Automatic Purging Unit/5000L/DF/IP54 AFE70-3/IP54

The structure of the Automatic Purging Unit AFE70-3/IP54 is basically the same as that of the Automatic Purging Unit AFE70-2/IP54, but the AFE70-3/IP54 is designed for an air flow rate of up to 7500 l/min and for low ambient temperatures. Therefore the AFE70-3/IP54 is especially suitable for larger pipe networks in smoke aspiration systems as well as for deep-freeze areas.

Specifications (for further specifications, see AFE70-2/IP54)

Current consumption at 24V	8mA (normal condition)
	370mA (solenoid valve energised)
Compressed air connection	
max. permissible overpressure	1.0MPa (10.0bar)
recommended min. overpressure	0.2MPa (2.0bar)
Flow rate solenoid valve	0.2MPa: typ. 1,500 l/min
	0.4MPa: typ. 3,000 l/min
	0.6MPa: typ. 4,500 l/min
	0.8MPa: typ. 6,000 l/min
	1.0MPa: typ. 7,500 l/min
Ambient temperature	-20°C to +40°C

244133 Sensing Pipe/PVC 1M-ROHR-PVC/5M

The grey PVC tube with a nominal width of 20mm and an outer diameter of 25mm is used as sensor pipe for a smoke aspiration system. All joints of the piping system need to be glued together. The sensor pipe is supplied in the form of poles with a length of 5m.

244248 Sensing Hose/PVC/25mm SCHL-PVC/25

The flexible grey tube is made of PVC, has a nominal width of 20mm and an outer diameter of 25mm, and is used for installing sections of the sensor pipe network of a smoke aspiration system under difficult conditions. The connection with the sensor duct is established via bushings. The sensor tube can be used in all systems, which contain an individual setting for the actual air flow conditions. The desired length has to be specified in the order.

244112 Pipe-Fitting-Bend/90 BOGEN-90

Pipe elbow (long radius) made of grey PVC (nominal width = 20mm), with a bending radius of 90°, designed for sensor pipes of smoke aspiration systems.

244113 Pipe-Fitting-Knee/90 WINKEL-90

Pipe elbow (short radius) made of grey PVC (nominal width = 20mm), with a bending radius of 90°, designed for sensor pipes of smoke aspiration systems.

244114 Pipe-Fitting-Knee/45 WINKEL-45

Pipe elbow (short radius) made of grey PVC (nominal width = 20mm), with a bending radius of 45°, designed for sensor pipes of smoke aspiration systems.

244115 Pipe-Fitting-T-Junction Joint/90 T-STÜCK-90

Pipe T-piece made of grey PVC (nominal width = 20mm), for a 90° junction, designed for sensor pipes of smoke aspiration systems.

244116

Pipe-Fitting-T-Junction Joint/45 T-STÜCK-45

Pipe T-piece made of grey PVC (nominal width = 20mm), for a 45° junction, designed for sensor pipes of smoke aspiration systems.

244118

Pipe-Fitting-Faucet MUFFE

Pipe adapter made of grey PVC (nominal width = 20mm), for the connection of sensor pipes of smoke aspiration systems.

244119

Pipe-Fitting-End KAPPE

Pipe end cap made of grey PVC (nominal width = 20mm), for sensor pipes of smoke aspiration systems.

244125

Pipe Clamp RKL25-2

The pipe clamp that is made of light grey PVC is used for fixation of rigid sensor pipes of smoke aspiration systems.

244132

Pipe Clamp RKL25-1

The pipe clamp that is made of grey plastic is used for fixation of rigid sensor pipes of smoke aspiration systems.

244235

Non-Return Spring Valve RVFED-25

The check valve is a safety device to protect the sensor pipe network and reduction foils during cleaning. The pressure is kept constant in the entire pipe network during the blow-out process by the check valve, thereby ensuring that all aspiration holes are cleaned equally. The check valve is installed at the end of the sensor pipe network.

244240

Ceiling Lead-Through Set DDF-KOMPL

The ceiling duct enables a barely noticeable integration of aspiration holes in areas with inserted ceilings and in special applications, when air has to be sampled from closed rooms (e.g., 19" cabinets). The ceiling duct consists of an aspiration element including knurled nut for easy installation and a duct reducer. The flexible aspiration tube, the Tube Fitting/T90 and the required reduction foil have to be ordered separately.

244201

Sensing Hose DN12X9 DN-12X9

The aspiration tube DN-12x9 is used for the connection of system components of the ceiling duct. Due to the flexible design of the aspiration tube, aspiration elements can be precisely fit in the false ceiling and can be connected with the sensor pipe network. The desired length has to be specified in the order.

244254 3 Way Ball Valve PVC 3PKH-DN20

The three-way ball valve is intended for manually switching over the sensor pipe of a smoke aspiration system in order to draw air through the aspiration holes, thereby picking up dirt. During the change from normal mode to the mode in which the aspiration holes are vacuumed, the destruction of the smoke aspiration system is prevented thanks to the leak-proof centre position.

The three-way ball valve is not suitable for the connection of compressed air.

Specifications

Connection	3 × PVC DN20/DA25
Ambient temperature	0 to +50°C
Weight	380g

Cross-references	Page	Art.No.	Name Type
	266	244256	Connect. Exhaust Equipment Aspir. Pipe ABSAUG-RED-25-40

244237 3 Way Ball Valve Metal 3MKH

The three-way ball valve enables the manual supply of compressed air to the sensor pipe network. During the change from normal mode to blow-out mode, the destruction of the smoke aspiration system is avoided due to the leak-proof centre position.

For connection to the PVC piping, Screw Joints ÜVS-25X3/4 are needed.

Specifications

Input pressure	max. 16bar
Connection	3 × 3/4"
Weight	450g

Cross-references	Page	Art.No.	Name Type
	265	244242	Screw Joint PVC-Brass ÜVS-25X3/4

244242 Screw Joint PVC-Brass ÜVS-25X3/4

The Screw Joint with 3/4" male thread is used as adapter between a PVC sensor pipe with a diameter of 25mm and a fitting with a 3/4" female thread.

244250 Screw Joint PVC-PVC ÜVS-PVC-PVC

The screw joint serves as screwable connecting piece between two PVC sensor pipes with a diameter of 25mm. The two parts are glued together with the sensing pipes; if necessary, the screw joint itself can be opened. The screw joint is also suitable for the junction between sensor pipe and sensing hose.

244255 Dual Screw Joint 25mm DV-25-25

The Dual Screw Joint provides a separable connection between two PVC sensor tubes with a diameter of 25mm. The sensor pipes are only screwed to the dual screw joint and not glued to it. The dual screw joint is also suitable for the junction between sensor pipe and sensing hose.

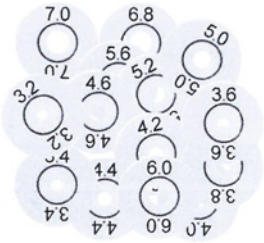
244256

Connect. Exhaust Equipment Aspir. Pipe ABSAUG-RED-25-40

By means of the reduction coupler, a commercially available vacuum cleaner with a 40mm suction tube can be attached to the sensor pipe of a smoke aspiration system for cleaning purposes. The reduction coupler is glued to the sensor pipe on the side which has a diameter of 25mm.

Cross-references	Page	Art.No.	Name	Type
	265	244254	3 Way Ball Valve PVC 3PKH-DN20	

244999T

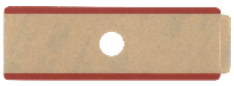


Aspiration Hole Reduction Foils, Overviews

Aspiration hole reduction foils are used for a precise design of aspiration holes on the sensing pipe network of the smoke aspiration system. A separate version is available for deep-freezing areas.

	Standard version		Version for deep-freezing areas	
Hole diameter	Article number	Type	Article number	Type
2.0mm	244244	AREDF-2,0	244246	AREDF-2,0TK
2.5mm	244245	AREDF-2,5	244247	AREDF-2,5TK
3.0mm	244202	AREDF-3,0	244217	AREDF-3,0TK
3.2mm	244203	AREDF-3,2	244218	AREDF-3,2TK
3.4mm	244204	AREDF-3,4	244219	AREDF-3,4TK
3.6mm	244205	AREDF-3,6	244220	AREDF-3,6TK
3.8mm	244206	AREDF-3,8	244221	AREDF-3,8TK
4.0mm	244207	AREDF-4,0	244222	AREDF-4,0TK
4.2mm	244208	AREDF-4,2	244223	AREDF-4,2TK
4.4mm	244209	AREDF-4,4	244224	AREDF-4,4TK
4.6mm	244210	AREDF-4,6	244225	AREDF-4,6TK
5.0mm	244211	AREDF-5,0	244226	AREDF-5,0TK
5.2mm	244212	AREDF-5,2	244227	AREDF-5,2TK
5.6mm	244213	AREDF-5,6	244228	AREDF-5,6TK
6.0mm	244214	AREDF-6,0	244229	AREDF-6,0TK
6.8mm	244215	AREDF-6,8	244230	AREDF-6,8TK
7.0mm	244216	AREDF-7,0	244231	AREDF-7,0TK

244233



Sleeve for Reduction Foil BA-AREDF

The banderole is used for reliable fixation of the aspiration hole reduction foil to the sensor pipe network of a smoke aspiration system.

244234

Plastic Clip for Reduction Foil/Low-temp KC-AREDF-TK

The plastic clip is used for reliable fixation of an aspiration hole reduction foil in deep-freezing areas to the sensor pipe network of a smoke aspiration system.

244387

Label Sampling Point 100 pcs. F-LP

The red labels are used for marking the aspiration holes on the sensor pipe network of a smoke aspiration system in a clearly visible way. The packing unit contains a roll with 100 labels.

244128 Adhesive/Tangit/0.12kg KLEB-RAS-01

Glue for the connection of individual components of a sensor pipe network. One packing unit contains 0.125kg, which is sufficient for gluing approx. 50 junctions.

244129 Adhesive/Tangit/0.25kg KLEB-RAS-02

Glue for the connection of individual components of a sensor pipe network. One packing unit contains 0.25kg, which is sufficient for gluing approx. 100 junctions.

244130 Adhesive/Tangit/0.5kg KLEB/RAS-05

Glue for the connection of individual components of a sensor pipe network. One packing unit contains 0.5kg, which is sufficient for gluing approx. 200 junctions.

244126 Adhesive/Tangit/1kg KLEB/RAS

Glue for the connection of individual components of a sensor pipe network. One packing unit contains 1kg, which is sufficient for approx. 400 junctions.

244131 Cleaner/Tangit/0,12L REIN-RAS-01

Cleaning liquid for removal of dirt, residual fat, etc., which is used before gluing individual components of the sensor pipe network. One packing unit contains 0.125 litre.

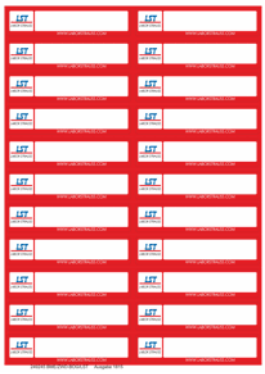
244127 Cleaner/Tangit/1L REIN/RAS

Cleaning liquid for removal of dirt, residual fat, etc., which is used before gluing individual components of the sensor pipe network. One packing unit contains 1 litre.

26 Labels

LST
LABOR STRAUSS
WWW.LABORSTRAUSS.COM
LST
LABOR STRAUSS
WWW.LABORSTRAUSS.COM
LST
LABOR STRAUSS
WWW.LABORSTRAUSS.COM
LST

249245



Detector Label//Sheet/22pcs. BME/ZWD-BOG/LST

The inscribable and laser-printable adhesive labels are used for marking automatic fire detectors in false ceilings or false floors. Thanks to the small dimensions of the labels, they can be affixed to the beam profiles of mineral fibre ceilings. Alternatively, the labels can be stuck on detector bases with sufficient height - for example, System Sensor B501AP.

There are 22 self-adhesive labels on an A4-sized sheet.

Specifications

Dimensions W × H	98 × 22 (mm)
Marking area W × H	74 × 16 (mm)

249246

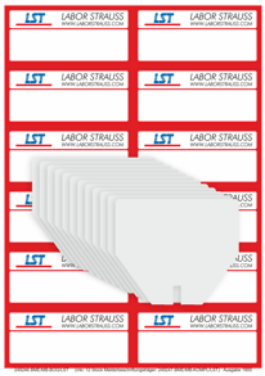
Detector Label Sheet/12pcs. BME/MB-BOG/LST

The inscribable and laser-printable adhesive labels are used for marking automatic fire detectors with detector zone and detector number. There are 12 self-adhesive labels on an A4-size sheet.

Specifications

Dimensions W × H	98 × 44 (mm)
Marking area W × H	94 × 25 (mm)

249247



Detector Label Sheet + Carrier/12pcs. BME/MB-KOMPL/LST

The inscribable and laser-printable adhesive labels are used for marking automatic fire detectors with detector zone and detector number. In order to make it easier to place the labels next to the detector, the labels can be stuck on the plastic tab MBT2-1. An A4-size sheet with 12 self-adhesive labels and 12 plastic tabs are included in the delivery.

Specifications

Dimensions label W × H	98 × 44 (mm)
Marking area W × H	94 × 25 (mm)
Dimensions MBT2-1 W × H	98 × 84 (mm)

Notes

Product List Part 1

A

249372 Access Point/Test Unit SCORP25-001 146
229004 Alarm Resistor 100pcs. 1K/0,33W 151
250026 Alarm Delay Control Unit IBF70-1/S1 116
218048 Alarm-Monitoring-Interface-Licence ALVIS-BC600 .. 64
218041 Alarm-Monitoring-Software-Licence ALVIS/F 64
211154 Analogue Interface AIF604-1 21
211206 Auxiliary Housing GEH600-8 31
211244 Auxiliary Housing GEH600-16 31
265744 Auxiliary Cylinder PHZ700-2 107

B

211151 Backplane BPL608-1 29
211152 Backplane BPL610-1 30
211419 Backplane BPL601-1 12
343020 Base for Surge Arrester 920300 95
355675 Base for Sounder/Strobe/IP65/white SW-IP65-SQ/RO 113
211161 Battery Bracket BK600-1 37
249231 Battery for Detector Tester SOLO770-001 144
249375 Battery Connection Cable SCORP60-001 148
317033 Battery Bracket BK24-1 137

C

212023 Cabinet 19"/36HU with Transparent Door GEH19/36-SIT 66
212046 Cabinet 19"/15HU GEH19/15/IP55/SIT 66
212047 Cabinet 19"/40HU with Transparent Door GEH19/40-SIT 67
212048 Cabinet 19"/45HU with Transparent Door GEH19/45-SIT 67
212049 Cabinet 19"/36HU with Steel Door GEH19/36-E 67
212052 Cabinet Light LED LED-GEH19/X 68
265780 Cable Seal 2,5x200 blue KP-FSK 107
249226 Carrying bag for test equipment SOLO610-001 144
211100 Central Processing Board ZTB600-1 17
211101 Central Processing Board Redundant ZTBR600-1 18
249230 Charger for Detector Test Tool SOLO727-101 144
249374 Control Panel SCORP8000-001 148
265900 Control Unit for FSK AD900-1/D1 108
370601 Control Box for ZC with Module ASB70-1_D1 57
370603 Control Box for ZC ASB70-2_D1 57
211112 Conventional Detector Interface GIF608-1 18
211116 Conventional Detector Interface Redundant GIFR608-1 19
317055 Conversion Kit NT24xx to NT6xx UBS-NT24xx-NT6xx 137
259013 Cord 2 Wire for LED Connection/10pcs. LED-LEITUNG/10 104
211300 Country Kit LZB-BC600/A1 16
211301 Country Kit LZB-BC600/D1 17
211302 Country Kit LZB-BC600/INT1 16
211304 Country Kit LZB-BC600-1D/A1 17
211305 Country Kit LZB-BC600-1D/D1 17
211306 Country Kit LZB-BC600-1D/INT1 17
261030 Cover black for Magnetic Clamp with arm/UTKFZ UTKFZ-ABD-1 129
265809 Cover Plate ADP700-2 110
265021 Cylinder for Steel Sheet Mounting LST1003-2 114

D

223045 Data Logger Event Memory DLOG-1 73
210110 Detector Zone Extension BC016 MGE8-1 44
222013 Detector Reset Module MQZ1000-1 87
249052 Detector Removal Tool SOLO200 143
249220 Detector Test Kit Smoke/Thermo 1001-101 139
249221 Detector Test Kit Smoke/Thermo/CO 2001-101 140
229006 Diode 100pcs. 1N4004/100Stk 151
211330 Display and Operating Front Panel ABP600-1L 35
265816 Distribution Box VT700-2 110
211165 Door Contact Switch TKS600-1 37
212029 Dummy Cover 19"/3HU AD8C-3H 68
212030 Dummy Cover 19"/2HU AD8C-2H 68
212033 Dummy Cover 19"/6HU AD8C-6H 68
212053 Dummy Cover 19"/3HUplus AD8C-3H/PLUS 68

E

229005 EOL Resistor 100pcs. 5,6K/0,33W 151
211331 Expansion Front Panel 19"/4HU EFP600-1 36
211160 Extension Housing GEHZ600-16 30
249054 Extension Pole SOLO101 144
218992T Extinguish. Control Function in Series BC600 Panels, Description 52
222011 Extinguishing System Interface LSS1000-1 56
218027 Extinguishing-Control 1-Area-Licence LC600-1LB ... 53
218028 Extinguishing-Control 4-Area-Licence LC600-4LB ... 53
218029 Extinguishing-Control 8-Area-Licence LC600-8LB ... 53
218030 Extinguishing-Control 16-Area-Licence LC600-16LB . 53
218031 Extinguishing-Control 32-Area-Licence LC600-32LB . 53
218032 Extinguishing-Control 64-Area-Licence LC600-64LB . 53
218033 Extinguishing-Control 128-Area-Licence LC600-128LB 53

F

210100 Fire Detection Control Panel BC016-1/D1 43
210102 Fire Detection Control Panel BC016-1/INT1 42
210103 Fire Detection Control Panel BC016-1/S1 43
210111 Fire Brigade Interface FWI016-1 44
210120 Fire Detection and Evacuation Panel BC016-2/D1 43
210122 Fire Detection and Evacuation Panel BC016-2/INT1 .. 43
210200 Fire Detection Control Panel BC06-1/D1 49
210205 Fire Detection Control Panel BC06-1/INT1 48
210208 Fire Detection Control Panel BC06-2/D1 49
210209 Fire Detection Control Panel BC06-2/INT1 49
210211 Fire Detection Control Panel BC06-1/S1 49
211113 Fire Brigade Interface FWI600-1 20
211114 Fire Brigade Interface Redundant FWIR600-1 20
211200 Fire Detection Control Panel BC600-8L2S 5
211201 Fire Detection Control Panel BC600-8L4S 5
211213 Fire Detection Control Panel BC600-8L2N 5
211214 Fire Detection Control Panel BC600-8L4N 6
211215 Fire Detection Control Panel BC600-8L8N 6
211216 Fire Detection Control Panel BC600-8N2N 13
211217 Fire Detection Control Panel BC600-8N4N 14
211218 Fire Detection Control Panel BC600-8N8N 14
211240 Fire Detection Control Panel BC600-16L2S 6
211241 Fire Detection Control Panel BC600-16L4S 7
211247 Fire Detection Control Panel BC600-16L8S 7
211255 Fire Detection Control Panel BC600-16L2N 7
211256 Fire Detection Control Panel BC600-16L4N 8
211257 Fire Detection Control Panel BC600-16L8N 8
211258 Fire Detection Control Panel BC600-16N2N 14
211259 Fire Detection Control Panel BC600-16N4N 15
211260 Fire Detection Control Panel BC600-16N8N 15
211280 Fire Detection Control Panel BC600-CE8L2S 8
211281 Fire Detection Control Panel BC600-CE8L4S 9
211284 Fire Detection Control Panel BC600-CE8L2N 9
211285 Fire Detection Control Panel BC600-CE8L4N 9
211401 Fire Detection Control Panel BC600-1L 10
211402 Fire Detection Control Panel BC600-1D 11
211403 Fire Detection Control Panel BC600-1L/S1 11
211404 Fire Detection Control Panel BC600-1D/S1 12
211407 Fire Detection Control Panel BC600-1L/LTF 10
211408 Fire Detection Control Panel BC600-1L/LTF/S1 11
211996T Fire Detection Control Panel BC600-E, Description ... 35
211997T Fire Detection Control Panel BCnet600, Description .. 12
212647 Fire Protection Housing/FDCP/E30 EHL31/04224-MEP 69
212648 Fire Protection Housing/FDCP/E30 EHL31/06334-MEP 70
250025 Fire Brigade Control Unit FBF70-1/S1 116

250028 Fire Brigade Control Unit FBF70-1E/INT1 117
250029 Fire Brigade Control Unit FBF70-1E/S1 118
250630 Fire Brigade Display Panel FAT950-1/D1 119
250631 Fire Brigade Orientation Panel FOT950-1/D1 120
250634 Fire Brigade Map Box FPKCLR950-1/D1 123
250635 Fire Brigade Map Box FPKPHZR950-1/D1 123
250740 Fire Brigade Control Unit FBF900-1/D1 118
265740 Fire Brigade Key Box FSK700-2/D1 105
268008 Fire Brigade Map Box with desk FWP-3/A4 122
268009 Fire Brigade Key Box FASB-AP 114
268010 Fire Brigade Key Box FASB-UP 114
210220 Fire/Extinguishing Control Panel BC06-1EXT/D1 55
210221 Fire/Extinguishing Control Panel BC06-2EXT/D1 56
210223 Fire/Extinguishing Control Panel BC06-1EXT/INT1 .. 54
210224 Fire/Extinguishing Control Panel BC06-2EXT/INT1 .. 56
210226 Fire/Extinguishing Control Panel BC06-1EXT/S1 55
226013 Fire/Extinguishing Control Panel BC600-1L/LTF/EXT 53
229008 Flat Cable 1700mm/10-Pole FBK17-1 90
229012 Flat Cable 650mm/10-Pole FBK6-1 90
265751 Flush Mounting Frame for FSK700-2 EZ700-2/D1 ... 105
265818 Flush Mount. Frame/Drilling Protection EZBS700-2 . 106
210212 Front Foil Evacuation Circuit FFEV06-1 50
211150 Function Module Carrier FMT608-1 36

G

211431 Gateway BC600-BC216 Basic Licence GW-BC600-216-BAS/LIZ 81
211432 Gateway BC600-BC216 Member Licence GW-BC600-216-TLN/LIZ 81
223032 Gateway Multimode Fibre-BCnet LWL-MM-2 75
223033 Gateway Singlemode Fibre-BCnet LWL-SM-2 75
223034 Gateway 2xMultimode Fibre-BCnet LWL-2XMM-2 .. 76
223035 Gateway Red. Multimode Fibre-BCnet LWLR-MM-2 . 77
223036 Gateway 2xSinglemode Fibre-BCnet LWL-2XSM-2 .. 76
223061 Gateway/IEC GW/IEC/BC600-1 78
223062 Gateway/Modbus GW/MODBUS/BC600-1 79

H

249068 Heat Detector Test Tool Battery SOLO461-101 142
249228 Heat Detector Test Tool Mains SOLO424-101 143
265811 Heavy Duty Anchor SLA700-2 109

I

211998T Included system bus cables and system supply cables .. 38
265766 Inner Door for FSK700-2/PHZ/30.5mm ITA-4/D1 ... 106
265767 Inner Door for FSK700-2/PHZ/35.5mm ITA-5/D1 ... 106
211141 Input/Output Interface MEA644-1 20
211142 Input/Output Interface Redundant MEAR644-1 21

K

219008 Key for BC600 SCH-BC600-1 39
250021 Key Switch Set Complete SCH70-1 37
250021 Key Switch Set Complete SCH70-1 98
265810 Key Depot Column SDS700-2 108
265820 Key Depot Column /1650mm SDS700-2/MOD3 109
212045 Kit for Battery Bracket VX-8617-020/TS-8612-080 ... 69

L

249041 Label BMZ BME/BMZ 150
249243 Label Loschsteuerzentrale BME/LSZ 150
249244 Label Arrow BME/PFEIL 150
223080 LAN Module/BC216/REACT LAN/BC216/REACT-1 60
211430 LAN-Module/GW-BC600-216 LAN/BC600-216-1 ... 80
211117 LED Display Field LAF648-1 23
211118 LED Button Field LTF616-1 23
211120 LED Display Field LAF648-2 23
211121 LED Display Field LAF648-3 23
211140 LED Button Field LTF616-2 24
211144 LED Button Field Redundant LTFR616-3 24
214024 LED Display Field LAB48-1 99
214030 LED Display Field LAB48-2 100
214032 LED Display Field LAB48-3 100
214036 LED Display Field LAB48-4 100
252010 LED Display Tableau LAT288-1 98
252011 LED Display Tableau LAT288-1CE 99
252013 LED Connection Module LAM48-1 101
259010 LED Assembled Red/10pcs. LED-RT/10 104
259011 LED Assembled Green/10pcs. LED-GN/10 101
259012 LED Assembled Yellow/10pcs. LED-GE/10 104
420070 Licence REACT Detail LIC-R-DET 62
420071 Licence REACT Operation and Push LIC-R-OPP 62
420072 Licence REACT Map View LIC-R-MAP 62
249097 Line-Coupler Redundance Control LKR21-1 56
310022 Lithium Standby Battery 22,2V/2,2Ah 126
219610 Log Book for Fire Detection Systems VDS-BUCH ... 151
219612 Log Book for Fire Detection Systems BMA-BUCH .. 151
223079 Long-Distance Modem BCnet600 ADA-M140 74
211110 Loop Interface LIF601-1 19
211111 Loop Interface Redundant LIFR601-1 20
219017 Loop Tester LTG30-1 139
223083 LTE Module/REACT LTE/REACT-2 61
223085 LTE Aerial Set 10 Meter LTE-ANT-SET-10M 62

M

261003 Magnetic Clamp/500N UTKFM05F(1330) 126
261004 Magnetic Clamp/Reset/500N UTKFB05(1350) 126
261005 Magnetic Clamp/Reset/150mm/500N UTKFZ05C(1370/15) 126
261006 Magnetic Clamp/Reset/300mm/500N UTKFZ05L(1370/30) 128
261008 Magnetic Clamp/1000N UTKFM10F(1340) 128
261009 Magnetic Clamp/Reset/1000N UTKFM10(1360) 128
261010 Magnetic Clamp/Reset/150mm/1000N UTKFZ10C(1380/15) 129
261011 Magnetic Clamp/Reset/300mm/1000N UTKFZ10L(1380/30) 129
261019 Magnetic Lock Clamp/2750N UTKEM30S1(1388) .. 129
240717 Manual Call Point/Blue/3LED/Test HME/5015/94/57/00 58
249096 Manual Call Point Coding Module MCM1-1 50
265016 MCS Cylinder for Map Box ZB27-882AM-PK 123
268011 MCS Key 882AML1003 115
268013 MCS Key for Fire Brigade Map Box 882AM-PK 123
223066 Mini PC EBOX-1 79
211162 Module Carrier BGT600-1 34
212034 Module Carrier 19"/3HU MPL17/3 67
212040 Module Carrier 19"/6HU MPL600/6H 36
265663 Mounting Kit for FSE/PHZ900-1 MOSET-FSE/PHZ900-1 111
265814 Mounting Kit for FSE-PZ MOSET1/700-2 112

N

211122 Network Interface NIF600-1 27
211123 Network Interface Redundant NIFR600-1 27
214027 Network Cable SU=100m NWK2-1 74

O

211155 Output Interface redundant OIFR664-1 22

P

249144 Pen with 6 pcs. Smoke Sticks RE6-SET 144
249373 Portable Controller SCORP7000-001 148
211130 Power Supply NT602-1 28
211131 Power Supply NT604-1 28
211132 Power Supply NT608-1 29
211164 Power Supply Carrier NTT600-1 37
223052 Power Distributor Board SVB5-1 138
237700 Power Supply for FSK Heating NT700-1 107
317040 Power Supply NT602-2 132
317041 Power Supply NT604-2 133
317042 Power Supply NT608-2 133
317050 Power Supply Housing NTG624-1 134
317051 Power Supply Front Panel NTG624-1CE 134
317052 Power Supply Housing NTG624-2 135
317053 Power Supply Housing NTG624-3 136
317100 Power Supply 24V/1A-Stabilized NG1-1S 131
317101 Power Supply 24V/2A-Stabilized NG2-1S 131
317102 Power Supply 24V/4A-Stabilized NG4-1S 132
211147 Printer Field EDF600-1/INT1 24
219010 Programming Cable BC216/RS232 PK216-1 72
219016 Programming Cable USB A-B 3 Meter PK-USB-A-B-3M 72

249650 Protective Cover for FSK700-2/2SX WSD-FSK 107
265664 Protective Cover for FSE/PHZ900-1 SABD900-1 112

R

250632 Redundant Connection Adapter FAR950-1/D1 122
265812 Reinforcement Iron Cage MEK700-2 109
211143 Relay Module RL608-1 22
211143 Relay Module RL608-1 86
222004 Relay Module RL58-1 86
222010 Relay Module RL58-2 86
211351 Remote Display and Operation Panel ABF600-1 16
211353 Remote Display and Operation Panel ABF600-CE1 ... 16
250020 Remote Tableau SG70-1 97
250999T Remote Access by Means of the REmote ACcess Tool, Description 60
251003 Remote Indicator PA58-3 98
251004 Remote Indicator PA58-3/IP65 98
252012 Remote Tableau Drive Unit PTU288-1 100
249222 Replacement Smoke Capsule TS3-001 140
249223 Replacement CO Capsule TC3-001 140

S

229650 Sealing Kit Wall IP54 BC600-WDS 33
229651 Sealing Kit IP54 BC600-1x--DS 34
229652 Sealing Kit IP54 BC600-8-DS 34
229653 Sealing Kit IP54 BC600-16-DS 34
229654 Sealing Kit IP54 BC600-16Z-DS 34
210112 Serial Interface Module SIM016-3 45
210215 Serial Interface Module SIM06-1 50
211119 Serial Interface SIF601-1 25
211125 Serial Interface SIF601-2/ESPA 25
211126 Serial Interface SIF601-3/ZLT 26
211127 Serial Interface SIF601-4/ZLT-UNI 26
211156 Serial Interface SIF622-1 27
214025 Serial Interface Module SIM216-1 44
214025 Serial Interface Module SIM216-1 81
211999T Series BC600, Description 2
249225 Silicone Membrane/Solo Detector Tester SPARE-1005-001 144
223026 Siren Connection Module SZ58-3 85
217004 Smoke Switch RS70-1 125
249051 Smoke Detector Test Tool SOLO330 142
249067 Smoke Detector Test Tool large Detector SOLO332 .. 142
249143 Smoke Detector Test Set SOLO808 141
249145 Smoke Sticks 6 pcs. RE6 145
223042 SMS Transmitter Module GSM-SCOUT 72
223043 SMS Transmitter/Receiver Module GSM-SCOUT/AKTIV 73
420075 SMS fee REACT SMS-REACT 62
223072 SMS/E-Mail Transmitter Module SMS3-1/BC600 77
223073 SMS/E-Mail Transmitter Module SMS3-1/NT/BC600 78
223064 Software Licence OPC-BC600 80
223065 Software Licence BACNET-BC600 80
229013 Spare Paper for EDF600-1 5 Rolls EDF600/EP-5R 25
356682 Strobe/WM/DC/white/amber/N SOLEX10A 112
211370 Surface Mounting Frame AMR600-8 32
211371 Surface Mounting Frame AMR600-16 32
211372 Surface Mounting Frame AMR600-16Z 33
211373 Surface Mounting Frame AMR600-1 33
211373 Surface Mounting Frame AMR600-1 136
317054 Surface Mounting Frame AMR624-2 137
343001 Surge Arrester for Network BCnet 920271 92
343002 Surge Arrester for Detector Loop 920325 91
343003 Surge Arrester for 24VDC 0,75A 920324 91
343004 Surge Arrester for 24VDC 1,8A 920336 94
343005 Surge Arrester for RS232 920322 94
343006 Surge Arrester for NNU5-1 920344 93
343007 Surge Arrester for 24VDC 25A 953201 96
343008 Surge Arrester for MOD-1/receiver 920240 92
343009 Surge Arrester for MOD-1/transmitter 920364 93
343030 Surge Arrester for 230VAC 952110 96
211170 System Bus Cable SBK600-0,25 38
211171 System Bus Cable SBK600-0,5 38
211172 System Bus Cable SBK600-0,75 38
211173 System Bus Cable SBK600-1,0 38
211174 System Bus Cable SBK600-1,5 38
211175 System Bus Cable SBK600-2,0 38
211180 System Supply Cable SVK600-0,25 39
211181 System Supply Cable SVK600-0,6 39
211182 System Supply Cable SVK600-0,8 39
211183 System Supply Cable SVK600-1,0 39
211184 System Supply Cable SVK600-1,35 39
211185 System Supply Cable SVK600-2,0 39
211186 System Supply Cable SVK600-4,0 39

T

249053 Telescopic Pole SOLO100 143
249227 Telescopic Pole 2.2m SOLO108-001 143
222007 Terminal Adapter Module SUB58-2 85
211179 Termination Connector SBA600-1 37
249059 Test Module/100/200 MOD400R 141
249140 Test Gas Can SOLOC3-001 142
249360 Test Gas Can SOLOA5-001 141
249361 Test Gas Can SOLOA10-001 142
249370 Test Unit/Point Detector SCORP1001-001 146
249371 Test Unit/Aspiration System SCORP2001-001 146
265813 Top Cover Contact DK700-2 110
265817 Top Cover DA1/700-2 110
265819 Top Cover for Flash DA2/700-2 110

U

265662 Unblocking Element for PHZ FSE/PHZ900-1 111
219009 USB to Serial Converter US232R-100 72

V

223050 Voice Evacuation Interface SAA2-1 87
223051 Voltage Coupler redundant SKR600-1 29
229010 Voltage Stabilizer 24VDC STAB24-1 138
229014 Voltage Stabilizer 24VDC STAB24-3 138

W

212044 Wiring Plan Pocket SZ-2514-000 69

Z

218022 ZLT Interface Licence ZLT-SS 83
218060 ZLT Interface Licence BC600-ZLT 80
210210 Zone Extension Board BC06 ZEB2-1 49

Product List Part 2

3

244237 3 Way Ball Valve Metal 3MKH 265
244254 3 Way Ball Valve PVC 3PKH-DN20 265

A

249020 Address Module Conventional NG58-1 95
249028 Address Module Conventional/60/65 NG60-1 149
249039 Address Cards/100pcs./XP95/Discovery 38531-771 .. 149
249338 Address Card/XP95/Core/Discovery 38532-064 149
244128 Adhesive/Tangit/0.12kg KLEB-RAS-01 267
244129 Adhesive/Tangit/0.25kg KLEB-RAS-02 267
244130 Adhesive/Tangit/0.5kg KLEB/RAS-05 267
244126 Adhesive/Tangit/1kg KLEB/RAS 267
244284 Air Filter for Smoke Aspir. System F-INF-25 259
244999T Aspiration Hole Reduction Foils, Overviews 266
222053 Automatic Purging Unit/3500L/IP54 AFE70-2/IP54 .. 262
222054 Automatic Purging Unit/5000L/DF/IP54 AFE70-3/IP54 262
249277 Auxiliary Plate False Ceiling ZP-ZD-1 153

B

246030 Backplate/Apo 45681-233 147
249109 Base for Mounting Plate/M200 M200E-PMB 93
249110 Base for Carrier Rail/M200 M200E-DIN 94
355675 Base for Sounder/Strobe/IP65/white SW-IP65-SQ/RO 184
359051 Base Sounder/Strobe/IP44/red BRR 99
359052 Base Sounder/Strobe/IP65/red WRR 99
359053 Base Sounder/Strobe/IP44/white BPW 99
359054 Base Sounder/Strobe/IP65/white WPW 100
249212 Battery For ECO1000RTU 6V-V11GA 92
244020 Beam Smoke Detector/200 6500 239
244021 Beam Smoke Detector+Test/200 6500S 239
244022 Beam Smoke Detector/Conventional 6500R 238
244023 Beam Smoke Detector+Test/Conventional 6500RS .. 238
244070 Beam Smoke Detector/Conventional FR3000 241
244075 Beam Smoke Detector/Core/ISM/50m SA7100-100 .. 244
244660 Beam Smoke Detector/Conventional FR5000-50M ... 243
244661 Beam Smoke Detector/Conventional FR5000-100M . 244

C

243100 Carbon Monoxide Detector/Discovery 58000-300 111
244240 Ceiling Lead-Through Set DDF-KOMPL 264
244385 Ceiling Lead-Through Set complete F-CF-25 260
244131 Cleaner/Tangit/0,12L REIN-RAS-01 267
244127 Cleaner/Tangit/1L REIN/RAS 267
243101 CO thermal Detector/Discovery 58000-305 111
244386 Condensate Separator Pipe complete F-WT-25 260
246029 Conduit Box/Apo 45681-204 146
249120 Conduit Adapter for Detector Base BA1AP 92
249273 Conduit Adapter for Detector Base FI700/FC600/CA . 38
244256 Connect. Exhaust Equipment Aspir. Pipe ABSAUG-RED-25-40 266
244194 Connector-Set Teflon Tube d=6/4 AD-ADW-TU6/4-PTFE 251
244694 Control Unit Alarmline II with LED LWM-2-PC 252
244704 Control Unit Alarmline II with LED and LCD LWM-2-LCD 253
249073 Control Module/XP95 55000-852 125
249103 Control Module 1xSurv.Out/200AP M201E 72
249105 Control Module 1xRel.Out/200AP M201E-240 72
249106 Control Module 1xRel.Out-DIN/200AP M201E-240-DIN 73
249116 Control Module 6xRel.Out/200AP CR-6EA 73
249251 Control Module 1xOut/700 FI700/M1OUT 20
249252 Control Module 1xRel/700 FI700/M1REL 21
249257 Control Module Mini 1xOut/700 FI700/MM1OUT 23
249258 Control Module Mini 1xRel/700 FI700/MM1REL 23
249292 Control Module 1xRel/Batt/700/RF FI700/RF/M1REL/BATT 209
249075 Conventional Zone Module/XP95 55000-845 125
249104 Conventional Zone Module/200AP M210E-CZ 74
249107 Conventional Zone Module/200AP M210E-CZR 74
249255 Conventional Zone Module/700 FI700/M1CZ 22

D

241999T Detector Series 200AP, Overview 52
244071 Detector for Beam Smoke Detector/Conv FR3000-DETECTOR 242
244662 Detector for Beam Smoke Detector/Conv FR5000-DET-50M 244
244663 Detector for Beam Smoke Detector/Conv FR5000-DET-100M 244
246008 Detector Base/400/300/100 B401RM1000 88
246019 Detector Base 400/300/100 B401DGR1000 88
246025 Detector Base/XP95/Disc 45681-210 145
246027 Detector Base/XP95/Ex 45681-215 195
246033 Detector Heater/XP95/Disc MH95-1 148
246039 Detector Base/500/200AP B501AP 89
246041 Detector Base/Orbis/Relay RB-10004 144
246042 Detector Base/Orbis MB-00001 144
246043 Detector Base/Orbis/IS MB-50018 190
246044 Detector Base/XP95/Disc 45681-219 146
246060 Detector Base/XP95/Disc/Core SA5000-200 144
246070 Detector Base/600 FC600/BR 36
246071 Detector Base/600/Diode FC600/BRD 36
246072 Detector Base/600/Relay FC600/BREL 36
246086 Detector Base/750 FI750/B 37
246090 Detector Base/Conv/Ex YBN-R/4IS 186
246115 Detector Base/RF/200AP B501RF 225
246116 Detector Base/RF/200AP B501RF-RR 224
246140 Detector Base/1000 ECO1000BR1000 88
246141 Detector Base/1000/Relay/Latching ECO1000BREL24L 89
246142 Detector Base/1000/Relay/Latching ECO1000BREL12L 89
246143 Detector Base/1000/Relay ECO1000BREL12NL 89
246164 Detector Base/500/200/Heater B524HTR-W 90
246170 Detector Base/FLx100 FL5000-200 145
246180 Detector Base/5000 MX5000 231
249027 Detector Base/500/200/Heater MH500-1 95
249044 Detector Mounting Bracket MMW1-1 152
249081 Detector Mounting Bracket MMW2-1 152
249245 Detector Label//Sheet/22pcs. BME/ZWD-BOG/LST . 270
249246 Detector Label Sheet/12pcs. BME/MB-BOG/LST 270
249247 Detector Label Sheet + Carrier/12pcs. BME/MB-KOMPL/LST 270
249279 Detector Base/7500/Heater MH750-1 39
249711 Detector Mounting Bracket/Ceiling MMK-90 152
249712 Detector Mounting Bracket/Floor/Ceiling MMK-200/350 153
249713 Detector Mounting Bracket/Floor/Ceiling MMK-400/550 153
241192 Detector/720/RF/complete FI720/RF/O 204
241193 Detector/720/RF/complete FI720/RF/OT 204
242087 Detector/720/RF/complete FI720/RF/T 205
249352 Dongle/LITE/S200AP/RF M200WC-RF 219
249353 Dongle/PRO/S200AP/RF M200WC-RF-PRO 219
244255 Dual Screw Joint 25mm DV-25-25 265
244060 Duct Detector Housing/200 DNRE 97
244061 Duct Detector Housing/300 D2E 96
244062 Duct Detector Pipe/0.3m DST1 97
244063 Duct Detector Pipe/0.45m DST1.5 98
244064 Duct Detector Pipe/1m DST3 98
244065 Duct Detector Pipe/1.5m DST5 98
244066 Duct Detector Pipe/3m DST10 98
244080 Duct Detector Housing/750 FI750/DDH-2 39
244081 Duct Detector Pipe/750/-0.6m FI750/DDH-2/TV-0,6 .. 40
244082 Duct Detector Pipe/750/-1.5m FI750/DDH-2/TV-1,5 .. 40
244083 Duct Detector Pipe/750/-2.8m FI750/DDH-2/TV-2,8 .. 40

244084 Duct Detector Bracket FI750/DDH-2/BRA 40
246050 Duct Detector Housing/XP95 53546-022 147
246051 Duct Detector Pipe/0.75m 53541-170 148
246052 Duct Detector Pipe/1.5m 53541-171 148
246053 Duct Detector Pipe/3.0m 53541-172 148

E

228009 Enclosure for Safety Barrier 29600-239 196
244148 End Plug EP-5/4-CuZn 250
244197 End Spigot Teflon Tube d=6/4 EP-6/4-PVDF 252
244692 External Temperature Sensor for ADW535 ART535-10 249

F

249674 Factory Upgrade IP65 for MCP HME-ZS-IP65 165
246604 False Floor Mounting Bracket DBK-VAR 152
243010 Flame Detector/IR2 16581 231
243011 Flame Detector/IR3 16589 232
243012 Flame Detector/UVIR2 16591 232
243020 Flame Detector UV/Conventional 800/24-VST-K-N .. 233
245018 Flexi Element for MCP/WCP PS210 167
244178 Flexible Hose PA d=5/3 FH-5/3-PA 250
244073 Flush Mounting Plate FR3000-202 242
244388 Front Foils FAAST It-Fr-De-Da F-A-LC-A 260
244389 Front Foils FAAST It-Fr-Es-Pt F-A-LC-B 260
244390 Front Foils FAAST It-Ru-De-Hu F-A-LC-C 260
244391 Front Foils FAAST Fi-Sv-No-Ru F-A-LC-D 260

G

244055 Gasket for Duct Detector Pipe FI700/DDH204 41
249213 Glass Pane for MCP Series/10pcs. G21140 167

H

240162 Handmelder/blue/200AP/HAUSALARM HME/5015/25/02/02/IP65 61
244027 Heater Kit for Beam unit BEAMHK 240
244028 Heater Kit for Reflector BEAMHKR 241
244074 Heater Kit for Beam unit 3000-204 243
244705 Heater Kit for Beam unit 5000-204 246
244706 Heater Kit for Reflector 5000-205 246
245024 Hinged Cover for MCP/WCP PS200 167
359023 Housing IP67 for Strobe/XP95 29600-318 150

I

249330 Input Module 1xIN/Core SA4700-100APO 122
249334 Input Module 2xIN/Core SA6700-100APO 122
246013 Isolator Detector Base/500/200 B524IEFT-1 90
246036 Isolator Detector Base/XP95/Disc 45681-284 145
249003 Isolator Module/500/200 ISM1-2 77
249029 Isolator Module/XP95/Discovery ISM1-3 125

K

245047 Key Switch K20SWS-11 161
249681 Key for Manual Call Point SU=10 SCHL-HM/10 166

L

244387 Label Sampling Point 100 pcs. F-LP 266
359005 Lid for Detector Base Sounder/red DBSLIDR 184
359006 Lid for Detector Base Sounder/white DBSLIDW 184
359020 Lid for Detector Base Sounder/white 45681-292 150
359021 Lid for Detector Base Sounder/red 45681-293 150
359045 Lid for Sounder/200/10pcs. IBS-LIDPW-10X 98
359060 Lid for Sounder 200/FBRI 200/FB/COVER/W 98
359061 Lid for Sounder 200/FBRI 200/FB/COVER/R 99
359074 Lid for Sounder FI7x0/WB FI720/750/COVER/W 41
359074 Lid for Sounder FI7x0/WB FI720/750/COVER/W ... 215
359075 Lid for Sounder FI7x0/WB FI720/750/COVER/R 41
359075 Lid for Sounder FI7x0/WB FI720/750/COVER/R 215
244690 Linear Heat Detector Single Tube ADW535-1 248
244691 Linear Heat Detector Double Tube ADW535-2 248
249215 Lithium Battery 3V CR123 216
249218 Lithium Battery 3V CR2032 216

M

245045 Man.Call Point/red/IP67/200AP/ISM/Glass WCP5A/RP08SG-L017-01 66
240108 Manual Call Point/red/Conventional/FEUER HME/3000/12/52/02/IP65 156
240109 Manual Call Point/yellow/Conv/HANDAUSL HME/1021/12/17/02/IP65 158
240118 Manual Call Point/red/200AP/FEUER HME/3000/25/52/02/IP65 60
240119 Manual Call Point/yellow/200AP/Handauslösung HME/1021/25/17/02/IP65 61
240138 Manual Call Point/red/XP95/FEUER HME/3000/32/52/02/IP65 115
240139 Manual Call Point/yellow/XP95/HANDAUSLÖSUNG HME/1021/32/17/02/IP65 117
240160 Manual Call Point/blue/Grenzwert/HAUSALARM HME/5015/12/02/02/IP65 157
240161 Manual Call Point/blue/Grenzwert/STOPP HME/5015/12/18/02/IP65 159
240163 Manual Call Point/blue/200AP/STOPP HME/5015/25/18/02/IP65 62
240164 Manual Call Point/red/700/FEUER HME/3000/72/52/02/IP65 13
240165 Manual Call Point/blue/700/HAUSLARM HME/5015/72/02/02/IP65 14
240166 Manual Call Point/blue/XP95/HAUSALARM HME/5015/32/02/02/IP65 116
240167 Manual Call Point/blue/XP95/STOPP HME/5015/32/18/02/IP65 118
240302 Manual Call Point/Red/Conventional HME/3000/11/H1/02 156
240322 Manual Call Point/Blue/Conventional/HAUSALARM HME/5015/11/02/02 157
240332 Manual Call Point/yellow/Conv/HANDAUSL HME/1021/11/17/02 158
240342 Manual Call Point/blue/Conventional/STOPP HME/5015/11/18/02 159
240402 Manual Call Point/Red/200AP HME/3000/25/H1/02 .. 59
240422 Manual Call Point/Blue/200AP/Hausalarm HME/5015/25/02/02 60
240432 Manual Call Point/yellow/200AP/Handauslösung HME/1021/25/17/02 61
240442 Manual Call Point/blue/200AP/STOPP HME/5015/25/18/02 62
240495 Manual Call Point/green/200AP/STEUERUNGEN HME/6002/25/29/02 63
240679 Manual Call Point/green/Conv/STEUERUNGEN HME/6002/12/29/00/N 160
240502 Manual Call Point/Red/700 HME/3000/72/H1/02 12
240522 Manual Call Point/Blue/700/HAUSALARM HME/5015/72/02/02 13
240532 Manual Call Point/yellow/700/Handauslösung HME/1021/72/17/02 14
240542 Manual Call Point/blue/700/STOPP HME/5015/72/18/02 15
240602 Manual Call Point/Red/XP95 HME/3000/32/H1/02 .. 115
240622 Manual Call Point/Blue/XP95/HAUSALARM HME/5015/32/02/02 115
240632 Manual Call Point/yellow/XP95/Handauslösung HME/1021/32/17/02 116
240642 Manual Call Point/blue/XP95/STOPP HME/5015/32/18/02 117
240690 Manual Call Point/green/XP95/STEUERUNGEN HME/6002/32/29/02 118
240793 Manual Call Point/white/200AP/NOTFALL HME/1013/25/40/00 64
240794 Manual Call Point/white/XP95/NOTFALL HME/1013/32/40/00 119
240795 Manual Call Point/white/700/NOTFALL HME/1013/72/40/00 16
240799 Manual Call Point/green/700/STEUERUNGEN HME/6002/72/29/02 15
240800 Manual Call Point/white/S2/NOTFALL HME/1013/92/40/00 160
240821 Manual Call Point/orange/200AP/Rauchabzug HME/2011/25/45/02 63
240999T Manual Call Points Series HME, Overview 2

245040 Manual Call Point/Red/200AP/Glass MCP5A-RP07FG ... 65
245041 Manual Call Point/Red/200AP/ISM/Glass MCP5A-RP08FG ... 65
245042 Manual Call Point/Red/200AP/Flexi MCP5A-RP07FF ... 66
245043 Manual Call Point/Red/200AP/ISM/Flexi MCP5A-RP08FF ... 65
245044 Manual Call Point/Red/IP67/200AP/Glass WCP5A/RP07SG-L017-01 ... 67
245080 Manual Call Point/Red/700/Flexi FI700/MCP ... 17
245081 Manual Call Point IP67/Red/700 FI700/MCP67 ... 17
245082 Manual Call Point/Red/700/RF/Flexi FI700/RF/MCP 206
245091 Manual Call Point/Red/Disc/ISM/IP65 58200-951 ... 120
245092 Manual Call Point/Red/Core/ISM SA5900-908LST .. 119
245140 Manual Call Point/Red/S200AP/RF R5A-RF ... 222
245683 Manual Call Point/Red/Conventional/IS DC31/55.130 ... 197
245695 Manual Call Point/Red/700/RF HFM/3/73/00 ... 207
245698 Manual Call Point/Blue/700/RF/Hausalarm HM/5/73/02/00 ... 208
249092 Module 4xSurv.In 4xSurv.Out/Rail MEA244-1/TR ... 75
249095 Module 4xSurv.In 4xSurv.Out/Panel MEA244-1/E ... 75
249102 Module 2xSurv.In 1xRel.Out/200AP M221E ... 71
249127 Module 4xSurv.In 4xSurv.Out/Fail-safe/Panel MEA244-1/FS/E ... 76
249128 Module 4xSurv.In 4xSurv.Out/Fail-safe/Rail MEA244-1/FS/TR ... 76
249253 Module 1xIn 1xOut/700 FI700/M1IN1OUT ... 21
249254 Module 1xIn 1xRel/700 FI700/M1IN1REL ... 22
249259 Module Mini 1xIN 1xOut/700 FI700/MM1IN1OUT .. 23
249260 Module Mini 1xIn 1xRel/700 FI700/MM1IN1REL ... 24
249270 Module Box 30mm/700 FI700/MB ... 39
249271 Module Box 52mm/700 FI700/MBD ... 39
249274 Module Box 41mm/700/Knock-out FI700/MBD/KO .. 38
249289 Module 4xIn 4xRel/700 FI700/M4IN4REL ... 24
249290 Module 4xIn 2xOut 2xRel/700 FI700/M4IN2OUT2REL ... 24
249291 Module 6xIn 2xRel/700 FI700/M6IN2REL ... 25
249307 Module FI750-Sounder-Strobe FI750/M/SST ... 26
249331 Module 1xIN 1xREL/Core SA4700-102APO ... 123
249332 Module 2xIN 1xREL/Core SA4700-103APO ... 123
249333 Module 2xIN 2xREL/Core SA4700-104APO ... 124
249310 Module/RF/720-Sounder-Strobe FI720/RF/M/SST ... 210
249079 Monitor Module/XP95/Mini 55000-760 ... 124
249100 Monitor Module 1xSurv.In/200AP M210E ... 70
249101 Monitor Module 2xSurv.In/200AP M220E ... 70
249115 Monitor Module 10xSurv.In/200AP IM-10EA ... 71
249123 Monitor Module/Box/200AP ÜMB200AP-1 ... 77
249126 Monitor Module/200AP M501MEA ... 70
249250 Monitor Module 1xIn/700 FI700/M1IN ... 20
249256 Monitor Module Mini 1xIn/700 FI700/MM1IN ... 23
249267 Monitor Module 1xIN/700/RF FI700/RF/M1IN ... 209
244025 Mounting Bracket/Swivel 6500-MMK ... 240
244072 Mounting Bracket/Swivel FR3000-201 ... 242
244630 Mounting Clip 3040/LGK ... 254
244668 Mounting Plate for 100m Reflector FR5000-007 ... 245
244669 Mounting Plate for 50M Reflector FR5000-008 ... 245
244689 Mounting Bracket/Swivel FR5000-201 ... 245
249119 Mounting Chassis/Multi Modules CH-6 ... 95
249141 Mounting Bracket/Flame Detector 07127 ... 233
249151 Mounting Bracket/Flame Detector MW-800/24 ... 234
359022 Mounting Plate for Sounder/WB/XP95 45681-311 ... 150
241118 Multicriteria Detector PTIR/200AP/ISM 22051TLEI .. 55
241119 Multicriteria Detector PTIR/200AP 22051TLE ... 56
241120 Multicriteria Detector COPTIR/200AP 2251CTLE-W . 56
241141 Multicriteria Detector PTIR/200AP/RF 22051TLE-RF ... 220

N

244235 Non-Return Spring Valve RVFED-25 ... 264

O

241023 Optical Smoke Detector/XP95 55000-620 ... 108
241024 Optical Smoke Detector/XP95/Ex 55000-640 ... 194
241027 Optical Smoke Detector/Disc 58000-600 ... 109
241040 Optical Smoke Detector/300 2351E ... 44
241045 Optical Smoke Detector/1000 ECO1003 ... 47
241060 Optical Smoke Detector/Orbis OP-12001 ... 102
241062 Optical Smoke Detector/Orbis/IS OP-52027 ... 186
241072 Optical Smoke Detector/650 FC650/O ... 6
241086 Optical Smoke Detector/750 FI750/O ... 10
241090 Optical Smoke Detector/Conventional IS SLR-E-IS .. 186
241101 Optical Smoke Detector/200/IS/Ivory 22051EISE-IV . 193
241102 Optical Smoke Detector/200/IS 22051EISE ... 192
241110 Optical Smoke Detector/200AP/ISM ND22051EI ... 52
241111 Optical Smoke Detector/200AP ND22051E ... 53
241123 Optical Laser Smoke Detector/200AP 72051EI ... 53
241124 Optical Laser Smoke Detector/Extra F-SEN-SSE ... 257
241140 Optical Detector/200AP/RF 22051E-RF ... 220
241150 Optical Battery Smoke Detector/9V FH20/O/9 ... 234
241151 Optical Battery Smoke Detector/9/230V FH20/O/9/230 ... 234
241170 Optical Smoke Detector/Core/ISM FL5100-600 ... 112
241171 Optical Smoke Detector/Core/ISM FL6100-600 ... 113
241200 Optical Smoke Detector/Core/ISM SA5100-600LST . 112
241022 Optical-Thermal Detector/Disc 58000-700 ... 109
241041 Optical-Thermal Detector/300 2351TEM ... 44
241046 Optical-Thermal Detector/1000 ECO1002 ... 48
241061 Optical-Thermal Detector/Orbis OH-13001 ... 102
241063 Optical-Thermal Detector/Orbis/IS OH-53027 ... 187
241087 Optical-Thermal Detector/750 FI750/OT ... 10
241116 Optical-Thermal Detector/200AP/ISM DV22051TEI .. 54
241117 Optical-Thermal Detector/200AP DV22051TE ... 54
241201 Optical-Thermal Detector/Core/ISM SA5100-700LST 113

P

244125 Pipe Clamp RKL25-2 ... 264
244132 Pipe Clamp RKL25-1 ... 264
244144 Pipe Clamp Sensor Tube PC-5/6-PP ... 249
244177 Pipe Clamp Sensor Tube PC-5/6-STG ... 250
244112 Pipe-Fitting-Bend/90 BOGEN-90 ... 263
244119 Pipe-Fitting-End KAPPE ... 264
244118 Pipe-Fitting-Faucet MUFFE ... 264
244114 Pipe-Fitting-Knee/45 WINKEL-45 ... 263
244113 Pipe-Fitting-Knee/90 WINKEL-90 ... 263
244115 Pipe-Fitting-T-Junction Joint/90 T-STÜCK-90 ... 263
244116 Pipe-Fitting-T-Junction Joint/45 T-STÜCK-45 ... 264
244234 Plastic Clip for Reduction Foil/Low-temp KC-AREDF-TK ... 266
245083 Plexi Glass Cover for FI700/MCP CI700-1 ... 167
249121 Position Switch/200AP/pressed Idle EDS200AP-1/GR ... 76
249122 Position Switch/200AP/pressed Alarm EDS200AP-1/GA ... 77
246117 Programming and Test Unit/300 S300PTU ... 91
249272 Programming Unit FI700 FI700/PU ... 42
249275 Programming Unit FI750 FI750/PU ... 41
244664 Protection Grille for FR5000 Controller 1000-019 ... 246
244665 Protection Grille for FR5000 Detector 1000-018 ... 246
249071 Protection Cover HFM/HM 3150 ... 165
249152 Protection Cover MCP MCP-COVER-1 ... 166
249670 Protection Kit IP54 for MCP HME-ZS-IP54 ... 165
249721 Protection Cover HME/HFM E-COVER/OAL/WS ... 166
249633 Protective Cover V2A for MCP/Red WG/ROT-E-1 .. 164
249634 Protective Cover V2A for MCP/Blue WG/BLAU-E-1 164
249636 Protective Cover V2A for MCP/Yellow WG/GELB-E-1 ... 164
249647 Protective Cage/small/conical BWS-2/D1 ... 154
249648 Protective Cage BWS-3/D1 ... 153
249691 Protective Cover V2A for MCP/Orange WG/ORANGE-E-1 ... 165
249694 Protective Cover V2A for MCP/Green WG/GRÜN-E-1 ... 164
228005 Protocol Interface/XP95 55000-855 ... 196
228007 Protocol Interface/200 IST200 ... 194
249014 PSU For Detector Heater MH-TR1 ... 154

R

246046 Recessed Mounting Kit/APO-Detector 45681-309 ... 147
246047 Recessed Mounting Kit/APO-Sounder 45681-310 ... 147
246167 Recessed Mounting Kit/200AP RMK400AP ... 92
244024 Reflector For 6500/75-100m 6500-LRK ... 240
242181 Relay Module for Thermal Detector KMX5000-RK .. 231

244693 Relay Interface Module RIM36 249
246150 Remote Test Unit/300/1000 ECO1000RTU 91
251010 Remote Indicator/700 FI700/PA 25
251021 Remote Indicator/700/RF FI700/RF/PA-2 214
251030 Remote Indicator/200AP/RF M200I-RF 223
244285 Replacement Filter F-INF-25-RF 259
244376 Replacement Filter intern. for FAAST LT FL-IF 258
244381 Replacement Filter internal for FAAST F-A3384-000 259
245918 Replacement Glass for EX HM E-G/DC21 168
245919 Replacement Glass for EX HM SU=10 Pieces E-G/DC31/10 168
249680 Replacement Glass for HFM SU=10 Pieces SCHEIBE-HM/10 166
249219 Reset Key For Manual Call Point-Pack of 10 pieces M210 167
249266 RF Measurement Kit FI720/RF/MK 215
249308 RF Interface/720 FI720/RF/W2W 202
249309 RF Expander/720 FI720/RF/WE 202
249311 RF Expander Conventional/720 FI720/RF/CWE 203
249350 RF Interface/S200AP M200G-RF 218
249351 RF Repeater/S200AP M200F-RF 218

S

228003 Safety Barrier ES58-2 192
228004 Safety Barrier/XP95 29600-098 196
228006 Safety Barrier/200 Y2 193
244146 Screw Junction SJ-5/4-CuZn 250
244195 Screw Connection Teflon Tube d=6/4 SJ-6/4-PVDF .. 251
244242 Screw Joint PVC-Brass ÜVS-25X3/4 265
244250 Screw Joint PVC-PVC ÜVS-PVC-PVC 265
244133 Sensing Pipe/PVC 1M-ROHR-PVC/5M 263
244145 Sensing Coil CU SC-5/4-CU-5 250
244201 Sensing Hose DN12X9 DN-12X9 264
244248 Sensing Hose/PVC/25mm SCHL-PVC/25 263
244139 Sensor tube /Cu SU=5,5m TU-5/4-CU 249
244179 Sensor Tube Teflon de=6/4 Ring 50m TU-6/4-PTFE . 251
244695 Sensor Cable/PVC/Red Alarmline II SK11800050 ... 253
244696 Sensor Cable/Nylon Alarmline II SK11800051 253
244697 Sensor Cable/Polypropylene Alarmline II SK11800052 254
244698 Sensor Cable/Nylon/Stainless Steel Alarmline II SK11800054 254
244703 Set of 3 Reflectors FR5000-004 245
249276 Silicone Gasket FI700/FC600 FI700/FC600/SA 38
249293 Silicone Gasket FI750 FI750/SA 38
244233 Sleeve for Reduction Foil BA-AREDF 266
244371 Smoke Aspiration System FL2012EI 257
244372 Smoke Aspiration System FL2022EI 257
244380 Smoke Aspiration System 8100E 258
244403 Smoke Aspiration System FL0111E-HS 256
244405 Smoke Aspiration System FL0122E-HS 257
355115 Sounder/FB/200RI/white 200/FBRI/SOUW 82
355660 Sounder/FB/DC/red SQ/SV/08/R/S/C 171
355114 Sounder/FB/DC/white DBS1224B4W-D 171
355661 Sounder/FB/DC/white SQ/SV/08/GW/S/C 172
355701 Sounder/Flush/DC/red AC/SV/R/S 173
355700 Sounder/Flush/DC/white AC/SV/GW/S/8 172
355145 Sounder-Str./WM/XP95I/white/100/N 55000-294 136
355143 Sounder-Str./WM65/DiscI/red/MT/100/N 58000-005 135
355144 Sounder-Str./WM65/DiscI/white/MT/100/N 58000-007 136
355141 Sounder-Str./WM65/XP95I/red/100/N 55000-005 134
355142 Sounder-Str./WM65/XP95I/white/100/N 55000-006 . 135
355146 Sounder-Str./WM66/XP95I/white/100/N 55000-299 . 137
355272 Sounder-Str/WB/200AP/wh/cl/re/O DSS-PC-N 84
355273 Sounder-Str/WB/200API/wh/cl/re/O DSS-PC-I 83
355219 Sounder-Str/WB/720RF/wh/cl/re/N FI720/RF/WB/SOUW/STRC 213
355217 Sounder-Str/WB/750RI-Bus/wh/cl/re/C FI750/WBRIB/SSTWCR 32
355216 Sounder-Str/WB/750RI-Bus/wh/cl/wh/C FI750/WBRIB/SSTWCW 32
355214 Sounder-Str/WB/750RI-Slave/wh/cl/re/C FI750/WBRIS/SSTWCR 31
355213 Sounder-Str/WB/750RI-Slave/wh/cl/wh/C FI750/WBRIS/SSTWCW 31
355203 Sounder-Str/WB/750RI/wh/cl/re/N FI750/WBRI/MT/SSTWC 33
355151 Sounder-Str/WB/DiscI/wh/cl/wh/MT/O 45681-700 .. 133
355134 Sounder-Str/WB/XP95I/wh/cl/re/Alt/N 45681-330 ... 130
355136 Sounder-Str/WB/XP95I/wh/cl/re/DIN/N 45681-334 .. 131
355135 Sounder-Str/WB/XP95I/wh/cl/re/Slw/N 45681-332 .. 131
355152 Sounder-Str/WB/XP95I/wh/cl/wh/Alt/O 45681-705 .. 132
355154 Sounder-Str/WB/XP95I/wh/cl/wh/DIN/O 45681-707 . 133
355153 Sounder-Str/WB/XP95I/wh/cl/wh/SW/O 45681-706 . 132
355269 Sounder-Str/WM/200AP/wh/cl/re/100/O WSS-PC-N .. 80
355252 Sounder-Str/WM/200AP/wh/re/100/N WSS-PR-N 79
355271 Sounder-Str/WM/200API/wh/am/100/N WSS-PA-I ... 81
355270 Sounder-Str/WM/200API/wh/cl/re/100/O WSS-PC-I .. 80
355253 Sounder-Str/WM/200API/wh/re/100/N WSS-PR-I 79
355284 Sounder-Str/WM/DC/re/cl/re/107/O CWSS-RR-S3 .. 174
355286 Sounder-Str/WM/DC/re/cl/re/107/WC CWSS-RR-S5 173
355292 Sounder-Str/WM/DC/wh/cl/re/107/O CWSS-WR-S3 . 177
355294 Sounder-Str/WM/DC/wh/cl/re/107/WC CWSS-WR-S5 177
355301 Sounder-Str/WM/DC/wh/cl/wh/107/WC CWSS-WW-S5 179
355137 Sounder-Str/WM/XP95I/re/re/100/N 55000-293 136
355291 Sounder-Str/WM65/DC/re/am/107/N CWSS-RA-W7 177
355285 Sounder-Str/WM65/DC/re/cl/re/107/O CWSS-RR-W3 175
355287 Sounder-Str/WM65/DC/re/cl/re/107/WC CWSS-RR-W5 174
355209 Sounder-Str/WM65/DC/re/cl/wh/100/W CWS/SOUR/STRC 212
355209 Sounder-Str/WM65/DC/re/cl/wh/100/W CWS/SOUR/STRC 30
355289 Sounder-Str/WM65/DC/re/re/107/N CWSS-RB-W7 . 176
355299 Sounder-Str/WM65/DC/wh/am/107/N CWSS-WA-W7 179
355293 Sounder-Str/WM65/DC/wh/cl/re/107/O CWSS-WR-W3 178
355295 Sounder-Str/WM65/DC/wh/cl/re/107/WC CWSS-WR-W5 177
355211 Sounder-Str/WM65/DC/wh/cl/wh/100/W CWS/SOUW/STRC 213
355211 Sounder-Str/WM65/DC/wh/cl/wh/100/W CWS/SOUW/STRC 31
355297 Sounder-Str/WM65/DC/wh/re/107/N CWSS-WB-W7 178
355138 Sounder-Str/WM66/XP95I/re/re/100/N 55000-298 ... 137
355264 Sounder-Strobe/WB/200AP/wh/re/N BSS-PR-N 83
355266 Sounder-Strobe/WB/200API/wh/am/N BSS-PA-I 84
355265 Sounder-Strobe/WB/200API/wh/re/N BSS-PR-I 82
355204 Sounder-Strobe/WB/750I/wh/cl/re/N FI750/WB/MT/SOUW/STRC 33
355290 Sounder-Strobe/WM/DC/re/am/107/N CWSS-RA-S7 176
355288 Sounder-Strobe/WM/DC/re/re/107/N CWSS-RB-S7 . 175
355298 Sounder-Strobe/WM/DC/wh/am/107/N CWSS-WA-S7 178
355296 Sounder-Strobe/WM/DC/wh/re/107/N CWSS-WB-S7 178
355262 Sounder/WB/200AP/white BSO-PP-N 82
355263 Sounder/WB/200API/white BSO-PP-I 81
355218 Sounder/WB/720RF/white FI720/RF/WB/SOUW 213
355202 Sounder/WB/750I/white FI750/WB/MT/SOUW 29
355215 Sounder/WB/750RI-Bus/white FI750/WBRIB/SOUW 28
355212 Sounder/WB/750RI-Slave/white FI750/WBRIS/SOUW 28
355201 Sounder/WB/750RI/white FI750/WBRI/MT/SOUW .. 28
355156 Sounder/WB/DiscI/MT 45681-702 127
355133 Sounder/WB/XP95I/white/Alert 45681-277 126
355132 Sounder/WB/XP95I/white/DIN 45681-300 127
355131 Sounder/WB/XP95I/white/SlowWhoop 45681-290 ... 126
355130 Sounder/WB/XP95RI/white/Alert 45681-276 129
355250 Sounder/WM/200AP/red/100 WSO-PR-N 78
355274 Sounder/WM/200AP/RF/red WSO-RR-RF 223
355275 Sounder/WM/200AP/RF/white WSO-WW-RF 224
355258 Sounder/WM/200AP/white/100 WSO-PP-N 78
355251 Sounder/WM/200API/red/100 WSO-PR-I 77
355259 Sounder/WM/200API/white/100 WSO-PP-I 78
355280 Sounder/WM/DC/red/107 CWSO-RR-S1 170
355282 Sounder/WM/DC/white/107 CWSO-WW-S1 170
355124 Sounder/WM/XP95/red/Alert/100 55000-278 129
355125 Sounder/WM/XP95/red/Slw/100 55000-276 129
355139 Sounder/WM/XP95I/red/100 55000-001 128
355140 Sounder/WM/XP95I/white/100 55000-002 128
355208 Sounder/WM65/DC/red/100 CWS/SOUR 27
355208 Sounder/WM65/DC/red/100 CWS/SOUR 211

355281 Sounder/WM65/DC/red/107 CWSO-RR-W1 170
355210 Sounder/WM65/DC/white/100 CWS/SOUW 211
355210 Sounder/WM65/DC/white/100 CWS/SOUW 27
355283 Sounder/WM65/DC/white/107 CWSO-WW-W1 171
355662 Sounder/WM66/DCEx/red/105 IS-A105N 197
355663 Sounder/WM66/DCEx/red/105 IS-A105N/HÖCHST . 198
355696 Sounder/WM67/DCEx/red/105 DS5-3G/3D-24VDC . 198
355697 Sounder/WM67/DCEx/red/110 DS10-3G/3D-24VDC 199
249675 Special Designation HME/Sheet-10pcs. HME-BESCH-BOG 166
244149 Stiffener Sleeve SS-3-CuZn 251
356026 Strobe/Core/re/cl/ws/C 55000-742 140
356025 Strobe/Core/re/cl/ws/W 55000-741 139
356029 Strobe/Core/wh/cl/ws/C 55000-745 141
356028 Strobe/Core/wh/cl/ws/W 55000-744 140
355155 Strobe/WB/XP95I/wh/cl/wh/O 45681-709 137
356157 Strobe/WM/200AP/wh/cl/wh/WC VAD-PC-N 86
356155 Strobe/WM/200AP/white/clear/red/O WST-PC-N 85
356158 Strobe/WM/200API/wh/cl/wh/WC VAD-PC-I 85
356154 Strobe/WM/200API/white/amber/N WST-PA-I 85
356156 Strobe/WM/200API/white/clear/red/O WST-PC-I 84
356080 Strobe/WM/DC/red/clear/red/WC CWST-RR-S5 180
356086 Strobe/WM/DC/red/clear/white/WC CWST-RW-S5 .. 182
356682 Strobe/WM/DC/white/amber/N SOLEX10A 183
356082 Strobe/WM/DC/white/clear/red/WC CWST-WR-S5 .. 181
356084 Strobe/WM/DC/white/clear/white/WC CWST-WW-S5 183
356081 Strobe/WM65/DC/red/clear/red/WC CWST-RR-W5 . 181
356087 Strobe/WM65/DC/red/clear/white/WC CWST-RW-W5 182
356085 Strobe/WM65/DC/white/cl/white/WC CWST-WW-W5 183
356083 Strobe/WM65/DC/white/clear/red/WC CWST-WR-W5 181
356698 Strobe/WM66/DCEx/grey/clear/white F12-3G/3D-24VDC-W 199
356699 Strobe/WM66/DCEx/grey/red F12-3G/3D-24VDC-R 199
356023 Strobe/XP95/white/amber/N 55000-879 139
356022 Strobe/XP95/white/clear/red/N 55000-878 138
356020 Strobe/XP95/white/red/N 55000-877 138
249066 Surcharge for special colouring FC650/FI700/SPECIAL 206
249066 Surcharge for special colouring FC650/FI700/SPECIAL 8
249066 Surcharge for special colouring FC650/FI700/SPECIAL 12
244026 Surface Mounting Box 6500-SMK 240
245012 Surface Mount Box/MCP5A SR3T 167
245019 Surface Mount Box/MCP5A SR 167
246087 Surface Mounting Kit FI750/FC650/SM 37
246161 Surface Mounting Kit/200AP/AP SMK400EAP 92
246169 Surface Mounting Box FH20/AP-1 235
249004 Surface Mounting Box SMB500 95
249108 Surface Mounting Box M200E-SMB 93
249111 Surface Mounting Box For M200 M200E-SMB-KO .. 93
249117 Surface Mounting Box/Multi Modules M200-SMB-MM 94
249118 Surface Mounting Box SMB6-V0 94

T

244147 T-Junction TJ-5/4-CuZn 250
244196 T-Junction Teflon Tube d=6/4 TJ-6/4-PVDF 251
242023 Thermal Detector/XP95 55000-420 108
242028 Thermal Detector/Discovery 58000-400 110
242030 Thermal RoR Detector/Orbis/A1R HT-11001 103
242031 Thermal Max Detector/Orbis/A2S HT-11002 103
242032 Thermal RoR Detector/Orbis/BR HT-11003 104
242033 Thermal Max Detector/Orbis/BS HT-11004 104
242034 Thermal RoR Detector/Orbis/CR HT-11005 105
242035 Thermal Max Detector/Orbis/CS HT-11006 105
242036 Thermal Detector/XP95/Ex 55000-440 195
242037 Thermal RoR Detector/Orbis/A1R/IS HT-51145 188
242038 Thermal Max Detector/Orbis/A1S/IS HT-51157 188
242040 Thermal RoR Detector/300/A1R 5351E 45
242041 Thermal Max Detector/300/BS 4351E 47
242042 Thermal Max Detector/300/A2S 5351TE 46
242045 Thermal RoR Detector/1000/A1R ECO1005 49
242046 Thermal Max Detector/1000/A2S ECO1005T 50
242047 Thermal Max Detector/1000/BS ECO1004T 49
242061 Thermal Max Detector/Orbis/A2S/IS HT-51147 189
242062 Thermal RoR Detector/Orbis/BR/IS HT-51149 189
242063 Thermal Max Detector/Orbis/BS/IS HT-51151 189
242064 Thermal RoR Detector/Orbis/CR/IS HT-51153 190
242065 Thermal Max Detector/Orbis/CS/IS HT-51155 190
242072 Thermal RoR Detector/650/A1R FC650/TDIFF/57 6
242073 Thermal Max Detector/650/BS FC650/TMAX/78 7
242086 Thermal Detector/750 FI750/T 11
242110 Thermal RoR Detector/200AP/ISM/A1R 52051REI ... 57
242111 Thermal RoR Detector/200AP/A1R 52051RE 57
242112 Thermal Max Detector/200AP/ISM/A1S 52051EI 58
242113 Thermal Max Detector/200AP/A1S 52051E 58
242114 Thermal Max Detector/200AP/ISM/BS 52051HTEI ... 58
242115 Thermal Max Detector/200AP/BS 52051HTE 59
242140 Thermal Max Detector/200APA1S/RF 52051E-RF ... 221
242141 Thermal Diff Detector/200AP/A1R/RF 52051RE-RF 222
242150 Thermal Detector/IP67/Conv/MAX/A2S 6295 228
242150 Thermal Detector/IP67/Conv/MAX/A2S 6295 190
242151 Thermal Detector/IP67/Conv/MAX/BS 6296 191
242151 Thermal Detector/IP67/Conv/MAX/BS 6296 228
242152 Thermal Detector/IP67/Conv/MAX/CS 6297 229
242153 Thermal Detector/IP67/Conv/MAX/ES 6298 229
242170 Thermal Detector/IP67/Conv/MAX/135C HT-27121-275 230
242180 Thermal Detector/IP67/Max/RoR WMX5000-FS 230
242190 Thermal Detector/Core/ISM SA5100-400LST 114
249635 Trapeze Bracket TBH800-1 152

U

244667 Universal Bracket/Swivel FR5000-005 245

W

246088 Wet Base Shroud FI750/FC650/WB 37
246160 Wet Base Shroud/200AP WB-1AP 93
249646 Wet Base Set/FI700/FC600 FI700/FC600/FZ 38

Last but not least...

We hope that this product survey enabled an easy search for and selection of articles suitable for you. If you are in need of further special documentation or if you are interested in special products not contained in the Product Guide please do not hesitate to contact us. We are pleased to be of personal assistance to you.

We can assure you that customer service is of highest value for LST. We will do whatever possible to complete your inquiries and your orders as fast as possible and to your convenience.

We would be pleased to count also you among our ever expanding number of customers.

LABOR STRAUSS Sicherungsanlagenbau GmbH

Head Office Vienna:
A-1230 Vienna, Wiegelestrasse 36
Tel.: +43 1 521 14-0
Fax: +43 1 521 14-27
E-mail: OFFICE@LST.AT
Homepage: WWW.LABORSTRAUSS.COM

General Terms Of Delivery

General Terms of Delivry

issued by theAssociation of the Austrian Electrical and Electronics Industry Association (FEEI)

1 Scope

These general terms apply to legal transactions between companies with regard to the delivery of goods, and analogously also to the provision of service.

2 Offer

2.1 Offers of the seller shall be considered non-binding.

2.2 Any documentation regarding offers and projects must neither be reproduced nor made available to third parties without the seller's consent. The return of such documents may be requested at any time and they shall be returned to the seller immediately once the order has been placed elsewhere.

3 Contract conclusion

3.1 The contract is deemed concluded once the seller has sent a written order confirmation or consigned a delivery after receipt of the order.

3.2 No warranty claims may be derived nor liabilities established from information provided in catalogues, brochures, advertising material, and written or oral statements not included in the contract.

3.3 Any subsequent amendments and supplements to these terms shall be confirmed in writing to be valid.

4 Delivery

4.1 The delivery period shall commence on the latest of the following dates:
a) Date of order confirmation;
b) Date of fulfillment of all technical, commercial and other requirements incumbent upen the buyer;
c) Date on wich the seller receives an advance payment or security that needs to be provided before delivery of the goods.

4.2 Approvals by authorities and third parties that might be required for executing installations shall be obtained by the buyer. If xuch approvals are not obtained in time, the delivery period shall be extended accordingly.

4.3 The seller shall be entitled to effect and charge partial or advance deliveries. If delivery on call has been agreed, the goods shall be deemed called up 1 year after the order was placed at the latest.

4.4 In case any unforeseeable circumstances or circumstances outside the parties' sphere of influence such as, for example, all instances of force majeure, occur, which prevent compliance with the delivery period agreed upon, the latter shall be extended by the duration of such circumstances in any case; this shall include, in particular, armed conflicts, official interventions and bans, transport or customs delays, transport damage, shortage of power and raw materials, industrial disputes and the loss of a crucial supplier that is difficult to relace. These above-mentioned circumstances shall also be deemed reasions for extending the delivery period if they affect sub-suppliers.

4.5 If, upon conclusion of the contract, a contractual penalty for default in delivery has been agreed, such penalty shall be paid in compliance with the following provision and, for the rest, any deviation from this provision in individual respects shall not affect ists applicability:
In case of a delay in performance that has demonstrably occurred solely through the fault of the seller, the buyer shall be entitled to claim, for every full week of delay, a contractual penaltyof no more than ½ %, up to a maximum of 5 % of the value of that part of the overall delivery which cannot be used due to the dely in delivery of an essential part, providet a loss was incurred by the buyer in that amount.
Any further claims from the delay shall be excluded.

4.6 If acceptance has been agreed, the goods shall be deemed fully accepted upon commencement of their use in the context of the buyer's business operation at the latest.

4.7 The seller shall be entitled to use subcontractors with regard to all deliveries and elements of the performance, provided the seller informs the buyer accordingly.

5 Transfer or risk and place of performance

5.1 Unless otherwise agreed, the delivery of the goods shall be deemed sold EXWacc. to INCOTERMS® 2010.

5.2 The place of performance of services is primarily the place spacified in the written order confirmation, secondarily it is the place where the service is actually performed by the seller. The risk of a performance or partial performance agreed shall vest in the buyer upon performance being effected.

6 Payment

6.1 If no terms of payment have been agreed, 1/3 of the price shall be due upon receipt of the order confirmation, 1/3 after expiry of half the delivery period, and the rest upon delivery. Notwithstanding the above, the VAT included in the invoice shall be paid no later than 30 days folloving invoicing in each case.

6.2 In case of part invoices, the partial payments shall be due upon receipt of the relevant invoices. This shall also apply to settlement amounts arising due to subsequent deliveries or other agreements beyond the original final amount, notwithstanding the terms of payment agreed for the main delivery.

6.3 Payments shall be made in the currency agreed to the seller's paying office without any deductions or charges. Any cheques or bills of exchange shall only be accepted as an undertaking to pay. All associated interest and expenses (such as debiting and discount charges) shall be borne by the buyer.

6.4 The buyer shall not be entitled to retain or offset payments on account of warranty claims or other counterclaims.

6.5 A payment shall be deemed made on the date the seller is able to dispose of the amount paid.

6.6 If the buyer is in defoult of any agreed payment or other performance from this or any other legal transactions, the seller may, without prejudice to any other rights the seller may have
a) postpone fulfilment of its own obligations until said payment or other performance has been effected, and claim an appropriate extension of the delivery period,
b) demand payment of all outstanding receivables from this or other legal transactions and charge statutory defoult interest plus VAT for these amounts, with effect from the respective due date, unless the seller is able to provide proof of any additonal costs,
c) in the event of qualified insolvency, i.e. after two instances of defoult, perform other legal transactions only against cash in advance.

At any rate, the seller shall be entitled to invoice pre-trial expenses, in particular dunning expenses and lawyers' fees, according to applicable statutory provisions.

6.7 The seller shall retain title to all goods delivered until full payment of the amounts invoiced plus interest and cost.
To secure the seller's purchase price claim, the buyer hereby assigns to the seller ists claims from reselling goods subject to retention of title, even after they have been further processsed, transformed or mixed. The buyer shall be authorised to dispose of the goods subject to retention of title in case of reselling with payment of the purchase price being deferred, on the condition that the buyer informs the secondary buyer about the assignment for security, concurrently with the resale, or notes down the assignment in its books. Upon request, the buyer shall inform the seller about the claim assigned and the relevant debtor and provide all information and documents required for collection of the claim and to notify the third-party deebtor about the assignment. In case of seizure or other claims being made, the buyer shall be obliged to refer to the seller's title and to notify the latter immediately.

6.8 The seller shall be entitled to submit the invoice electronically.

7 Warranty and assumption of responsibility of defects

7.1 In case the terms of payment agreed are complied with, the seller shall be obliged, under the following provisions, to eliminate any defect existing at the time of handover that is detrimental to functionality and based on faulty design or material or poor workmanship. No warranty claims may be derived from information provided in catalogues, brochures, advertising material and written or oral statements not included in the contract.

7.2 Unless outherwise agreed, the statutory period of warranty shall apply. This shall also apply to objects of delivery and performance that are firmly attached to a building structure or to the ground. The warranty period shall commence at the time the risk is transferred under item 5.

7.3 If delivery or performance is delayed for reasons outside the sphere of influence of the seller, the warranty period shall commence two weeks after the latter's willingness to delivery and/or perform.

7.4 The warranty claim is contingent upon the prerequisite that the buyer has reported any defects that have occurred in writing in due time and that the seller receives this report. The buyer shall provide evidence that the defect exists within an appropriate period of time, in particular by providing to the seller the documents and/or data available on the buyer's premises. In the event of a defect subject to the warranty obligation under item 7.1, the seller shall, at its discretion, rectify the defective good or the defective part at the place of performance or arrange for it to be sent to its own place for rectification, or reduce the price accordingly.

7.5 Any supporting staff, lifting devices, scaffolding and incidentals required for performing warranty work on the buyer's premises shall be provided. Replaced parts shall pass into the seller's ownership.

7.6 If goods are manufactured by the seller based on design descriptions, drawings, models or other specitications provided by the buyer, the seller's liability shall only extend to execution as agreed.

7.7 Unless otherwise agreed, the warranty shall not include any defects that result from arrangement and assembly not effected by the seller, insufficient adjustment, non-compliance with installation requirements and conditions of use, excessive stress on parts beyond the performance specified by the seller, negligent or incorrect treatment and use of inappropriate operating material; this shall also apply to defects resulting from material provided by the buyer. Nor shall the seller be liable for damage

resulting from acts by third parties, atmospheric discharges, overvoltage and exposure to chemicals. The warranty shall not cover the replacement of parts that are subject to natural wear.

7.8 The warranty shall lapse immediately once the buyer itself or a third party not explicitly authorised by the seller effects any modifications or repairs to the products delivered without written consent by the seller.

7.9 Provisions 7.1 to 7.8 shall apply accordingly to every instance of assuming responsibility for defects on other legal grounds.

8 Rescission of the contract

8.1 Unless any more specific provision was agreed, the buyer shall be entitled to rescind the contract for default in delivery resulting from gross negligence on the part of the seller and the unsuccessful expiry of a reasonable period of grace granted. Rescission shall be declared by means of a registered letter.

8.2 Notwithstanding its other rights, the seller shall be entitled to rescind the contract
a) if the execution of the delivery and/or commencement or continuation of the performance becomes impossible for reasons within the sphere of responsibility of the buyer or is delayed despite an appropriate period of grace being granted,
b) if concerns with regard to the solvency of the buyer have been raised and the latter does neither make an advance payment upon request by the seller nor provide suitable security bevor delivery,
c) if the delivery period is extended due to the circumstances mentioned in item 4.4 for more than half of the delivery period originally agreed, but for at least 6 months, or
d) if the buyer does not or not duly meet the obligations imposed upon it under item 13.

8.3 Rescission may also be declared with regard to an outstanding part of the delivery or performance for the reasons listed above.

8.4 If insolvency proceedings are opened with respect to the buyer's assets or a request for initiation of insolvency proceedings is rejected for lack of sufficient assets, the seller shall be entitled to rescind the contract without granting a period of grace. If such rescission is declared, it shall become effective immediately once the decision is made not to continue the company. If the company is continued, the rescission shall become effective only 6 months after opening of insolvency proceedings or after rejection of the request for initiation for lack of assets. In any case, the contract shall be terminated with immediate effect, provided that the insolvency law governing the buyer does not provide for otherwise or if termination of the contract is essential to avoid serious financial disadvantages for the seller.

8.5 Notwithstanding the seller's compensation claims including pre-trial costs, in the event of rescission, every performance or partial performance already effected shall be settled and paid as contractually agreed. This shall also apply to any delivery or performance not yet accepted by the buyer as well as for any preparatory measures effected by the seller. The seller shall also be entitled to request the return of products already delivered instead.

8.6 Any other consequences of rescission shall be excluded.

8.7 Any claims asserted by the buyer for laesio enormis, error and frustration of contract shall be excluded.

9 Disposal of waste electrical and electronic equipment

The buyer domiciled in Austria shall ensure that the seller is provided with all relevant information enabling it to meet its obligations as a manufacturer/importer according to applicable statutory provision.

10 Seller's liability

10.1 The seller shall be liable for damage outside the sphere of the Produkthaftungsgesetz (Austrain product liability act) - in line with statutory regulations - only if its intent or gross negligence is proven. Total liability of the seller in cases of gross negligence shall be limited to the lower of the net contract value or EUR 500,000. The seller's liability shall be limited to the lower of 25 % of the net contract value or EUR 125,000 per event of loss.

10.2 Unless otherwise agreed, any liability for slight negligence, with the exception of personal injury, and compensation for consequential damage, pure financial loss, indirect loss, production downtime, cost of financing, cost of substitute power, loss of power, data or information, lost profit, savings not achieved, interest losses and losses from third-party claims asserted against the buyer shall be excluded.

10.3 Unless otherwise agreed, all forms of compensation shall be excluded in case of non-compliance with any requirements of assenbly commissioning and use (such as those included in operating instructions) or official authorisation requirements.

10.4 If contractual penalties have been agreed, any claims of the buyer beyond that arising from the relevant title shall be excluded.

10.5 The provisions of item 10 shall finally settle all claims of the buyer vis-à-vis the seller, on any legal ground and title whatsoever, and shall also apply to all staff members, subcontractors and sub-suppliers of the seller.

11 Industrial property rights and copyrights

11.1 If a product is manufactured by the seller based on design descriptions, drawings, models or other specifications provided by the buyer, the buyer shall fully indemnify the seller in the event of any violation of property rights.

11.2 Finaly planning documents such as plans, drawings and other technical documentation shall remain the intellectual property of the seller at all times, as shall samples, catalogues, brochures, images and the like, and shall be subject to the relevant statutory provisions with regard to reproduction, imitation, competition etc. Item 2.2 shall also apply to final planning documents.

12 Assertion of claims

All claims of the buyer shall be asserted in court within 3 years after performance of the services, otherwise they shall be forfeited, inless other deadlines are provided for by mandatory statutory provisions.

13 Compliance with export regulations

13.1 When passing on the goods supplied by the seller to third parties, together with the pertinent documents, regardless of the manner in which the latter are provided or the services performed by the seller, including technical support of any kind, the buyer shall comply with the applicable provisions of the national and international (re-)export regulations. In any case, the buyer shall comply with the (re-)export regulations of the seller's country of domicile, the European Union, the United Kingdomof Great Britain and Northern Ireland and the United States of America when passing on the goods and/or services to third parties..

13.2 If required for export control checks, the buyer shall immediately provide to the seller upon request all necessary information, among others about the final recipient, final destination and purpose of use of the goods and/or services.

14 General information

14.1 If individual provisions of the contract or of these terms & conditions should be invalid, this shall not affect the validity of the remaining provisions. The invalid provision shall be replaced with a valid provision that approximates the intended objective as closely as possibile.

14.2 The German-language version shall be deemed the authentic version of the terms & conditions and shall be used to interpret the contract.

15 Place of jurisdiction and applicable law

The exclusive place of jurisdiction for resolving all disputes airising from the contract - including those regarding its existence or non-existence - shall be the court with subject matter jurisdiction at the seller's head office; in Vienna, this shall be the court located in the district of the Local Court of Innere Stadt. The contract shall be governed by Austrian law to the exclusion of conflict of law rules. Application of the UNCITRAL UN Convention on Contracts of the International Sale of Goods shall be excluded.

16 Reservation clause

Performance of the contract on the part of the seller shall be subject to the reservation that no obstacles exist under national or international (re-)export regulations, in particular no embargoes and/or other sanctions.

LST Headquarters Vienna

LABOR STRAUSS SICHERUNGSANLAGENBAU GMBH
OFFICE@LST.AT · WWW.LABORSTRAUSS.COM

A-1230 WIEN · WIEGELESTRASSE 36
TEL +43 1 521 14-0 · FAX +43 1 521 14-27

2020-01