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The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

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SIEMENS

Sinteso™ product catalog

Sinteso™ product catalog.

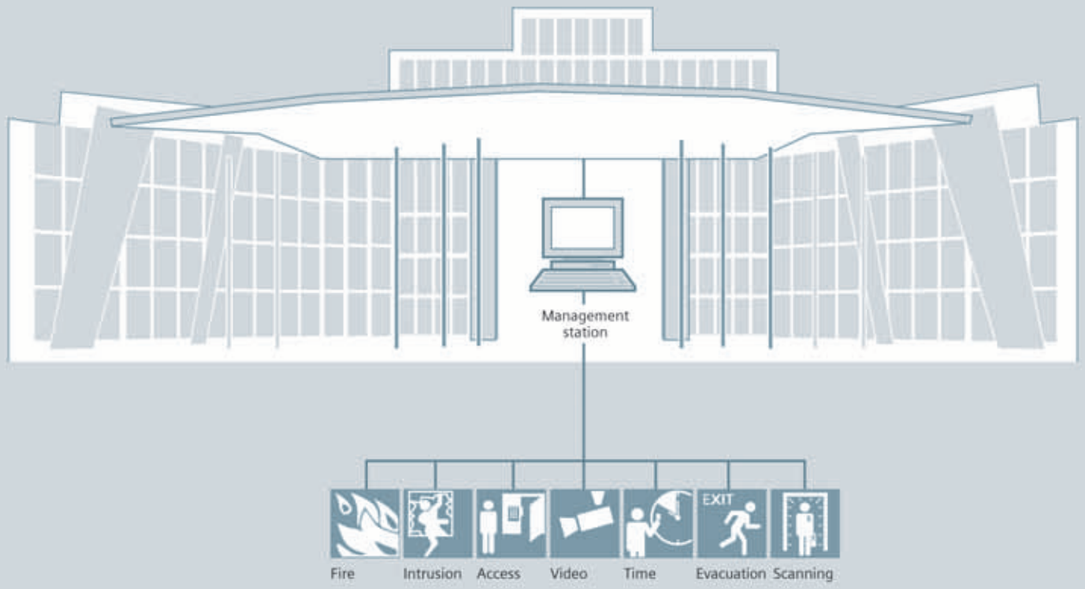
Fire protection products and accessories.

Building Technologies

SIEMENS

Everything you need for fire safety and security.

From fire protection and fire detection to safety – Siemens offers a comprehensive portfolio for security needs from one source.



Fire safety and security

Whatever your requirements, Siemens provides a comprehensive portfolio for all fire safety and security needs.

Family Overview I-1
Fire Control Network (FCnet) Participants 1-1
FC20xx Compact Networkable Fire Control Panels 1-1
FC2020 Series 1-3
FC2040 Series 1-8
Expansion FC20xx 1-11
Accessories FC20xx 1-18
FT2040 Networkable Fire Operating Terminals 1-20
FT2040 Operating Terminal to FC20xx 1-21
Expansion FT2040 1-23
Accessories FT2040 1-26
Conventional Fire Control Panels 2-1
2-zone Panels 2-2
FC10 Series 2-2
Accessories FC1002 2-3
4-zone Panels 2-4
FC10 Series 2-4
Accessories FC1004 2-5
8-zone Panels 2-6
FC10 Series 2-6
Expansion FC1008 2-8
Accessories FC1008 2-9
12-zone Panels 2-10
FC10 Series 2-10
Expansion FC1012 2-12
Accessories FC1012 2-13
Conventional Extinguishing Control Panels 3-1
Connectible to Fire Detection Systems 3-2
XC10 Series 3-2
Expansion XC10 3-4
Accessories XC10 3-5
Fire Detection Network (FDnet) Peripherals 4-1
Addressable Fire Detectors 4-2
C-LINE Intelligent Detectors with Detection Algorithms 4-3
S-LINE Intelligent Detectors with ASAtechnology 4-8
Bases for C-LINE and S-LINE Detectors 4-14
Addressable Manual Call Points 4-19
MCP with Direct Operation 4-19
MCP with Indirect Operation 4-30
Alarm Equipment 4-36
Alarm Sounders, Alarm Sounder Beacon 4-36
Base for Alarm Sounders, Alarm Sounder Beacon 4-40
Sounder Base for Automatic Detectors 4-43
Addressable Modules 4-46
Line Separator 4-46
Input Module 4-47
Input/Output Modules 4-48
Transponder 4-50
Accessories for Input-, Input/Output Modules, Transponder 4-51
Special Detectors 4-53
Infrared Flame Detectors 4-53
Linear Smoke Detectors 4-56
Air Sampling Smoke Detection 4-60
Radio Fire Detection Wireless System 4-68
Floor Repeater Panels 4-74

Floor Repeater Terminal 4-74
Floor Repeater Display 4-75
Visual Parallel Alarm Indicators for all Detection Devices 5-1
Alarm Indicators 5-1
Fire Detection Collective Peripherals 6-1
Explosion-hazard Area Products 6-1
Ex-Detectors 6-1
Infrared Flame Detector 'Ex' 6-4
Manual Call Point 6-6
Alarm Indicators Ex-Series 6-8
Ex-Barriers and Couplers 6-11
Alarm Device 6-12
Special Equipment 7-1
Test Equipment 7-2
Detector Tester 7-2
Detector Tester for Special Detectors 7-7
Line Tester 7-9
Interface 7-10
Adapter for FDnet Devices 7-10
Batteries 8-1
Spare Parts 9-1
Fire Control Panels FC20xx and Operating Terminals FT2040, Event Printer 9-1
Conventional Fire Control Panels FC10 9-2
Extinguishing Control Panels XC10 9-5
Manual Call Points 9-7
Input Modules, Input/Output Modules, Alarm Indicator 9-9
Test Equipment 9-10
Repair Parts 10-1
Fire Control Panels FC20xx and Operating Terminals FT2040 10-1
Operating Units, Add-ons, Event Printer 10-1
Expansion Modules 10-2
Power Supplies 10-4
Floor Repeater Panels 10-5
Repair and Revision 10-6
Automatic Fire Detectors for Exchange 10-6
Danger Management System 11-1
MM800 Management Station 11-2
System Overview 12-1
FCnet Participants 12-2
FDnet Peripherals 12-4
Type Index II-1
Contacts III-1

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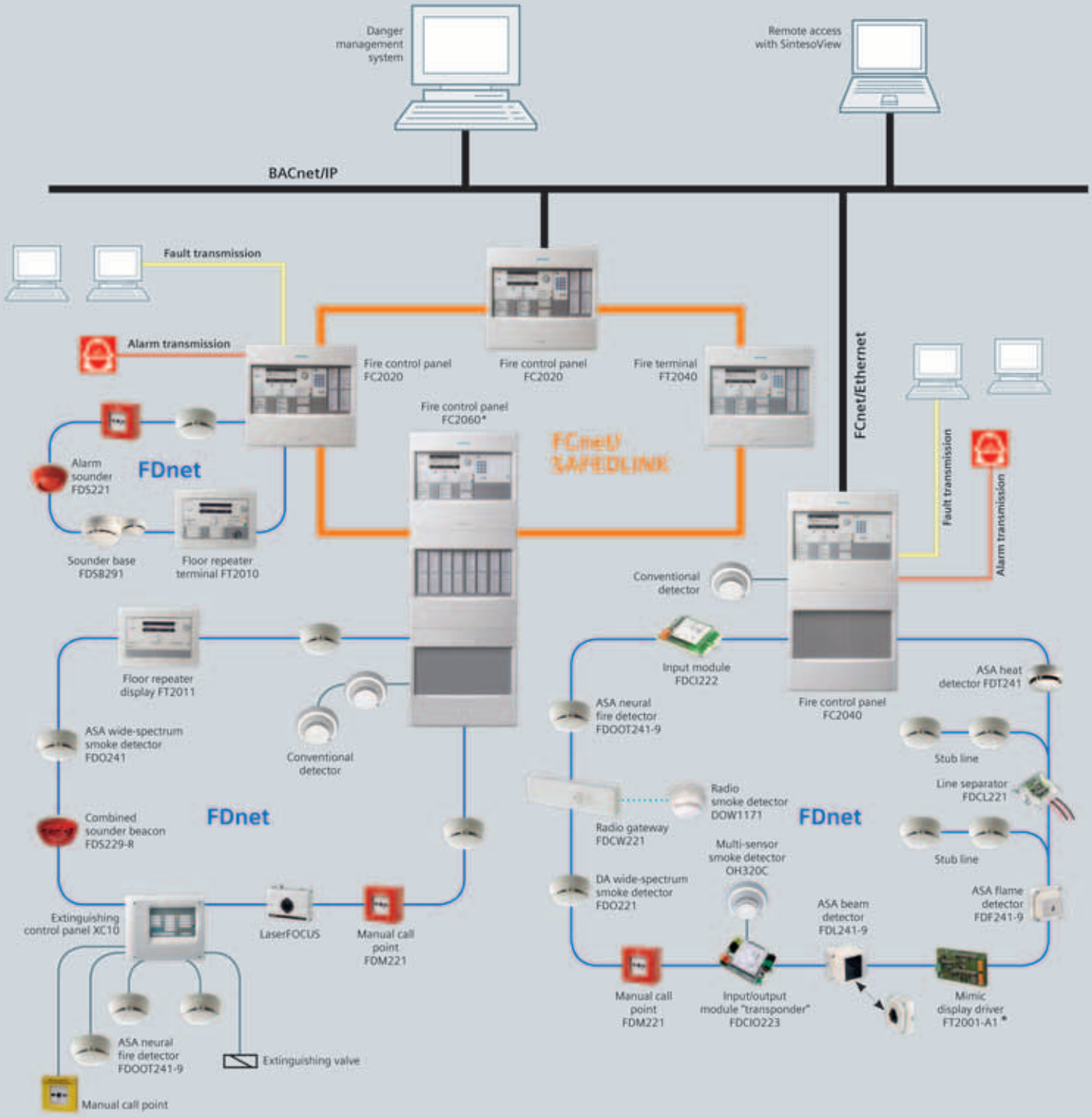
A new family for fire detection, alarm signaling and control: Sinteso™.

From advanced detector technology to comprehensive network capability, the Sinteso™ fire detection system satisfies all fire safety requirements. The following is an overview of the system components.



* available with market package 2.1

Remain protected from fire – with top products from Siemens.

Safety is a basic need and a very important issue for everyone responsible for buildings, assets, and people. This is why you want the best solution available when it comes to fire protection. With Sinteso™, Siemens presents an intelligent system platform – reliable, deception-free, and economic.

Staying on the technological cutting edge

Based on decades of expertise, Sinteso™ pushes the technological standard in fire protection onto a higher level. Earliest possible and most reliable fire detection thanks to **ASA***technology*™ fire detectors, innovative control panels, and a wide range of peripheral devices offer you the safety you need – minimizing damage to people and assets as well as the probability of business interruptions.

The smartly composed product range has been designed to protect all kinds of buildings from standard to demanding. Moreover, its unique modularity and future-proof platform gives you the freedom for future expansions or adaptations to changing requirements. And as regular software updates are available, you stay on the technological cutting edge in fire protection today and tomorrow – with Sinteso.

Offering additional safety

Additionally, Sinteso can be easily integrated into danger management systems via BACnet. Thus, you receive comprehensive protection from all kinds of dangers and risks – with additional security products such as access control, video surveillance or intrusion protection.

* "brandaktuell" magazine (number 20/05, page 4) issued by the Fachverband Lichtkuppel, Lichtband und RWA (FVLR) – Trade association for roof-lights and smoke/heat extractors

Depend on Sinteso™ ...

... because fire, heat and smoke can not only threaten the lives of your guests, clients or employees, but your assets and databases as well

... because downtime due to fire can mean lost orders as well as loss of customer and market shares

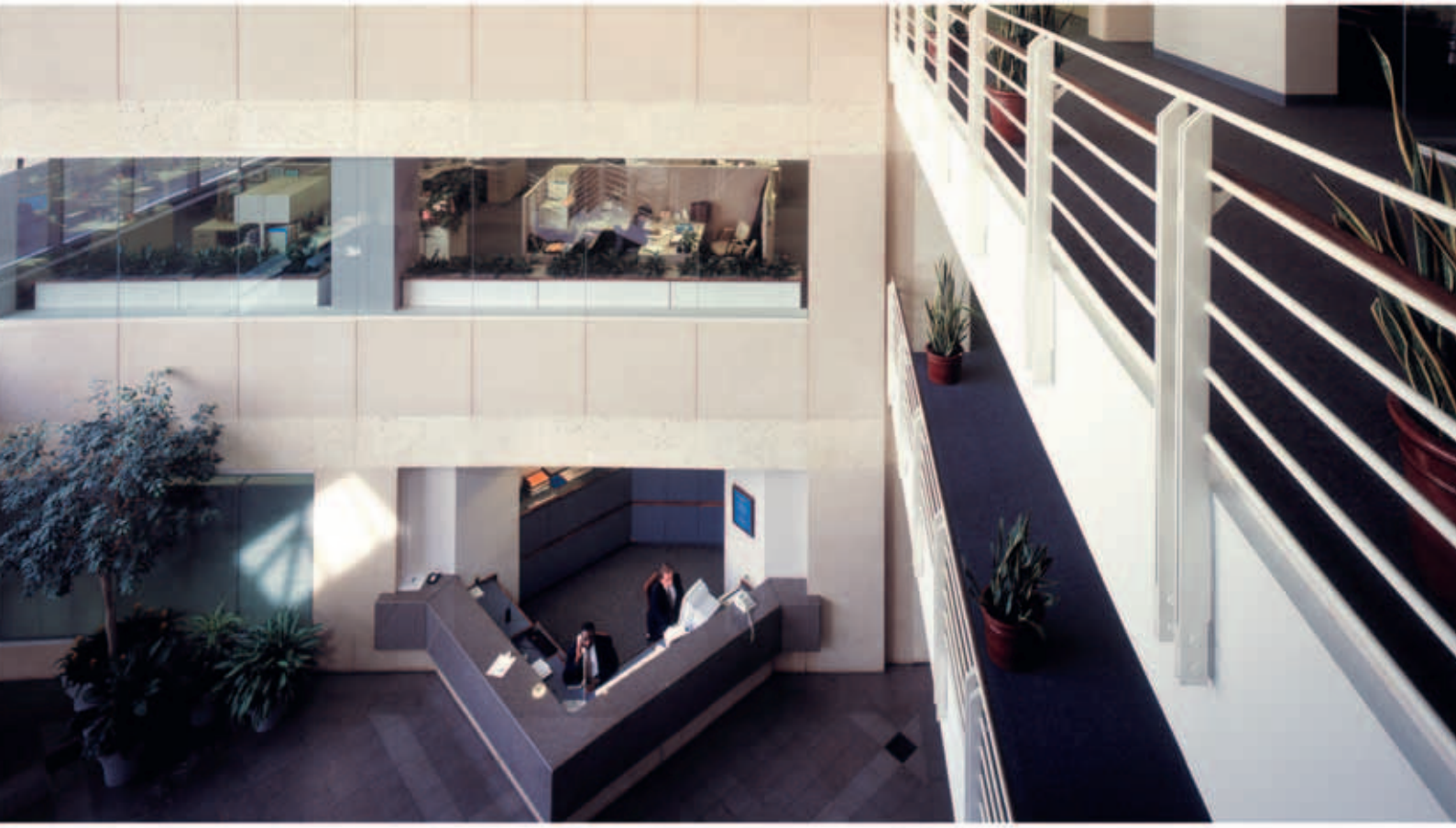
... because according to an international study*, over 70% of companies hit by a major fire were forced to discontinue their business within three years

... because effective fire protection creates time for intervention to reduce damage and downtime to a minimum

Different FCnet stations for a wide range of needs.

The fire control panels, fire terminals and the shared FCnet network form the core elements of Sinteso™. The control panels process all messages generated by the system, triggering alarm signals and complex control processes when necessary. For remote operation, the fire terminals mirror the displays and functions of the control panels exactly. Since the requirements for these control panels and terminals, e.g., FCnet stations, vary depending on the area of use, size and scale of the building, these devices are available in different models.

- Simple networking of control panels and fire terminals – up to 32 FCnet stations
- Expandable networking via Ethernet
- Standardized operating concept for all FCnet stations
- Simple, safe, stress-free operation in the event of an alarm
- Fast system diagnoses and configuration changes, simple maintenance and rapid troubleshooting via remote access



Innovative control panels – a clear concept, efficient operation.

Requirements for fire detection technology depend on the size and scale of the building. As a result, requirements for the fire control panels also vary depending on the area of use. To ensure that the right control panel is always available to suit the various applications, Sinteso™ offers different FCnet stations that can be networked with one another.

- Customized FCnet stations for different areas of use, whether the building is large or small, simple or complex
- Fire terminals for additional, remote system user interfaces, such as in the security monitoring room or the reception area
- Simple networking of control panels and fire terminals (FCnet/SAFEDLINK)
- Expandable networking via Ethernet (FCnet/Ethernet)
- Up to 32 FCnet stations in total

Type		Order No.
FC2020..	**Fire control panel (2-loop)** The FC2020.. (2-loop, expandable to 4) is a compact fire control panel with an integrated operating unit that can process signals from Sinteso devices of up to 252 addresses. The fire control panel can be used as a stand-alone version or networked. The control panel can be programmed with a user-friendly engineering tool (SintesoWorks) to create a system with great versatility. Up to 32 stations such as fire control panels and fire terminals (in any arrangement) can be connected in one network. In addition, an Ethernet connection is available at each station. This Ethernet connection enables a maximum of 4 stations including a Central Access Point 'CAP' (via Hub) to be networked together (not EN54-compliant). Connection of danger management systems via BACnet. All detector lines are monitored for ground faults. Adaptation of the user text directly on the terminal or with the software engineering tool. Up to 2000 events can be stored according to various criteria. Automatic summer/winter time change. Detection and automatic read-in (auto configuration) of all FDnet devices, providing immediate simple operation. Stored data can be uploaded via remote access (SintesoView). The FC2020.. is ideally suited for smaller applications, e.g. in workshops, hotels, etc. or when networked as part of much larger applications. The expansion and accessories must be ordered separately.	**FC2020..**

Detector compatibility	Sinteso™
Number of addresses	max. 252
Number of detector lines	2 (4) loops or 4 (8) stub lines
Programmable input/output	8
Relay outputs	1x RT alarm 1x RT fault
Supervised output	1x RT alarm 1x RT fault 1x Horn
Plug-in position	2 -> for serial interfaces RS232, RS485 2 -> for network modules 1 -> for loop extension (FDnet)
Color housing/cover	light grey, RAL 7035/pure white, RAL 9010
Emergency power supply	up to 72 h (optional)
Operating temperature	-8... +42 °C
Storage temperature	-20... +60 °C
Relative humidity	≤95 % (no condensation)
Protection category	IP30
Approval	VdS G206109 LPCB 126h/04
Data sheet	009383

FC20xx Compact Networkable Fire Control Panels
FC2020 Series

Type		Order No.
FC2020-AZ	**Fire control panel (2-loop) in housing (Standard)**	**A5Q00015550**

As FC2020.. for technical details, but with the following differences:

Mains voltage	85... 265 VAC
Operating voltage	21... 28.6 VDC
Operating current	max. 2.5 A
Power supply	70 W
Battery capacity	2 x 12 V, 12 Ah
Cabinet dimensions (W x H x D)	430 x 398 x 160 mm
Expansion	FCA2012-A1 License key (L1) FTO2001-A1 Event printer FHA2007-A1 Mounting plate FCI2001-A1 Fire brigade periphery module kit FCA2005-A1 Sounder module FN2001-A1 Network module (SAFEDLINK) FN2002-A1 Repeater (SAFEDLINK) FCA2001-A1 RS232 module (isolated) FCA2002-A1 RS485 module (isolated) FCI2003-A1 Loop extension (FDnet) FH2002-A1 Housing (Standard) FH2007-A1 Housing (Std. +plan comp.) FH2004-A1 Housing (Large Extension)
Accessories	FTO2005-C1 Key switch (Kaba) FTO2006-B1 Key switch (Nordic) Z3B171 Relay module FCA2010-F1 Battery kit (9 Volt) A5Q00004142 Lithium battery 9 V / 1 Ah FHA2016-A1 19" mounting kit FCA2014-A1 Cable kit (communication) FHA2017-A1 FM-blind 1HU

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Type		Order No.
FC2020-EZ	**Fire control panel (2-loop) in housing (Standard) with 1 LED indicator** As FC2020.. for technical details, but with the following differences: With 24 indicator groups, each with one red and one yellow LED. Mains voltage: 85... 265 VAC Operating voltage: 21... 28.6 VDC Operating current: max. 2.5 A Power supply: 70 W Battery capacity: 2 x 12 V, 12 Ah Cabinet dimensions (W x H x D): 430 x 398 x 160 mm Expansion: FCA2012-A1 License key (L1) FTO2001-A1 Event printer FHA2007-A1 Mounting plate FCI2001-A1 Fire brigade periphery module kit FCA2005-A1 Sounder module FN2001-A1 Network module (SAFEDLINK) FN2002-A1 Repeater (SAFEDLINK) FCA2001-A1 RS232 module (isolated) FCA2002-A1 RS485 module (isolated) FCI2003-A1 Loop extension (FDnet) FH2002-A1 Housing (Standard) FH2007-A1 Housing (Std. +plan comp.) FH2004-A1 Housing (Large Extension) Accessories: FTO2005-C1 Key switch (Kaba) FTO2006-B1 Key switch (Nordic) Z3B171 Relay module FCA2010-F1 Battery kit (9 Volt) A5Q00004142 Lithium battery 9 V / 1 Ah FHA2016-A1 19" mounting kit FCA2014-A1 Cable kit (communication) FHA2017-A1 FM-blind 1HU	**A5Q00016827**

FC20xx Compact Networkable Fire Control Panels
FC2020 Series

Type		Order No.
FC2020-AA	**Fire control panel (2-loop) in housing (Comfort)**	**A5Q00016829**

As FC2020.. for technical details, but with the following differences:

Mains voltage	230 VAC
Operating voltage	21... 28.4 VDC
Operating current	max. 5 A
Power supply	150 W
Battery capacity	2 x 12 V, 26 Ah
Cabinet dimensions (W x H x D)	430 x 796 x 160 mm
Expansion	FCA2012-A1 License key (L1) FTO2001-A1 Event printer FHA2007-A1 Mounting plate FCI2001-A1 Fire brigade periphery module kit FCA2005-A1 Sounder module FN2001-A1 Network module (SAFEDLINK) FN2002-A1 Repeater (SAFEDLINK) FCA2001-A1 RS232 module (isolated) FCA2002-A1 RS485 module (isolated) FCI2003-A1 Loop extension (FDnet) FH2003-A1 Housing (Comfort) FH2005-A1 Housing (Large)
Accessories	FTO2005-C1 Key switch (Kaba) FTO2006-B1 Key switch (Nordic) Z3B171 Relay module FCA2010-F1 Battery kit (9 Volt) A5Q00004142 Lithium battery 9 V / 1 Ah FHA2016-A1 19" mounting kit FCA2014-A1 Cable kit (communication) FHA2015-A1 FM-blind 2HU

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Type		Order No.
FC2020-AE	**Fire control panel (2-loop) in housing (Comfort) with 2 LED indicators** As FC2020.. for technical details, but with the following differences: With 48 indicator groups, each with one red and one yellow LED. Mains voltage: 230 VAC Operating voltage: 21... 28.4 VDC Operating current: max. 5 A Power supply: 150 W Battery capacity: 2 x 12 V, 26 Ah Cabinet dimensions (W x H x D): 430 x 796 x 160 mm Expansion: FCA2012-A1 License key (L1) FTO2001-A1 Event printer FHA2007-A1 Mounting plate FCI2001-A1 Fire brigade periphery module kit FCA2005-A1 Sounder module FN2001-A1 Network module (SAFEDLINK) FN2002-A1 Repeater (SAFEDLINK) FCA2001-A1 RS232 module (isolated) FCA2002-A1 RS485 module (isolated) FCI2003-A1 Loop extension (FDnet) FH2003-A1 Housing (Comfort) FH2005-A1 Housing (Large) Accessories: FTO2005-C1 Key switch (Kaba) FTO2006-B1 Key switch (Nordic) Z3B171 Relay module FCA2010-F1 Battery kit (9 Volt) A5Q00004142 Lithium battery 9 V / 1 Ah FHA2016-A1 19" mounting kit FCA2014-A1 Cable kit (communication) FHA2015-A1 FM-blind 2HU	**A5Q00016851**

FC20xx Compact Networkable Fire Control Panels
FC2040 Series

Type		Order No.
FC2040..	**Fire control panel (4-loop)** The FC2040.. (4-loop, expandable to 8) is a compact fire control panel with an integrated operating unit that can process signals from Sinteso devices of up to 504 addresses. The fire control panel can be used as a stand-alone version or networked. The control panel can be programmed with a user-friendly engineering tool (SintesoWorks) to create a system with great versatility. Up to 32 stations such as fire control panels and fire terminals (in any arrangement) can be connected in one network. In addition, an Ethernet connection is available at each station. This Ethernet connection enables a maximum of 4 stations including a Central Access Point 'CAP' (via Hub) to be networked together (not EN54-compliant). Connection of danger management systems via BACnet. All detector lines are monitored for ground faults. Adaptation of the user text directly on the terminal or with the software engineering tool. Up to 2000 events can be stored according to various criteria. Automatic summer/winter time change. Detection and automatic read-in (auto configuration) of all FDnet devices, providing immediate simple operation. Stored data can be uploaded via remote access (SintesoView). The FC2040.. is ideally suited for medium-sized applications, e.g. in industrial plants, regional banks, office complexes, etc. or when networked as part of much larger applications. The FC2040.., with flexible cross-linking possibilities, can also be used for extensive systems. The expansion and accessories must be ordered separately.	**FC2040..**

Mains voltage	115 / 230 VAC
Operating voltage	21... 28.6 VDC
Operating current	max. 5 A
Power supply	150 W
Detector compatibility	Sinteso™
Number of addresses	max. 504
Number of detector lines	4 (8) loops or 8 (16) stub lines
Programmable input/output	12
Relay outputs	1x RT alarm 1x RT fault
Supervised output	1x RT alarm 1x RT fault 2x Horn
Plug-in position	2 -> for serial interfaces RS232, RS485 2 -> for network modules 2 -> for loop extension (FDnet)
Color housing/cover	light grey, RAL 7035/pure white RAL 9010
Emergency power supply	up to 72 h (optional)
Operating temperature	-8... +42 °C
Storage temperature	-20... +60 °C
Relative humidity	≤95 % (no condensation)
Protection category	IP30
Approval	VdS G206110 LPCB 126h/05
Data sheet	009384

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FC20xx Compact Networkable Fire Control Panels
FC2040 Series

Type		Order No.
FC2040-AA	**Fire control panel (4-loop)** As FC2040.. for technical details, but with the following differences: Expansion: FCA2012-A1 License key (L1) FTO2001-A1 Event printer FHA2007-A1 Mounting plate FCI2001-A1 Fire brigade periphery module kit FCA2005-A1 Sounder module FN2001-A1 Network module (SAFEDLINK) FN2002-A1 Repeater (SAFEDLINK) FCA2001-A1 RS232 module (isolated) FCA2002-A1 RS485 module (isolated) FCI2003-A1 Loop extension (FDnet) FH2003-A1 Housing (Comfort) FH2005-A1 Housing (Large) Accessories: FTO2005-C1 Key switch (Kaba) FTO2006-B1 Key switch (Nordic) Z3B171 Relay module FCA2010-F1 Battery kit (9 Volt) A5Q00004142 Lithium battery 9 V / 1 Ah FHA2016-A1 19" mounting kit FCA2014-A1 Cable kit (communication) FHA2015-A1 FM-blind 2HU	**A5Q00016100**
FC2040-AE	**Fire control panel (4-loop) with 2 LED indicators** As FC2040.. for technical details, but with the following differences: With 48 indicator groups, each with one red and one yellow LED. Expansion: FCA2012-A1 License key (L1) FTO2001-A1 Event printer FHA2007-A1 Mounting plate FCI2001-A1 Fire brigade periphery module kit FCA2005-A1 Sounder module FN2001-A1 Network module (SAFEDLINK) FN2002-A1 Repeater (SAFEDLINK) FCA2001-A1 RS232 module (isolated) FCA2002-A1 RS485 module (isolated) FCI2003-A1 Loop extension (FDnet) FH2003-A1 Housing (Comfort) FH2005-A1 Housing (Large) Accessories: FTO2005-C1 Key switch (Kaba) FTO2006-B1 Key switch (Nordic) Z3B171 Relay module FCA2010-F1 Battery kit (9 Volt) A5Q00004142 Lithium battery 9 V / 1 Ah FHA2016-A1 19" mounting kit FCA2014-A1 Cable kit (communication) FHA2015-A1 FM-blind 2HU	**A5Q00016852**

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FC20xx Compact Networkable Fire Control Panels
FC2040 Series

Type		Order No.
FC2040-AG	**Fire control panel (4-loop) with 4 LED indicators** As FC2040.. for technical details, but with the following differences: With 96 indicator groups, each with one red and one yellow LED. Expansion: FCA2012-A1 License key (L1) FTO2001-A1 Event printer FHA2007-A1 Mounting plate FCI2001-A1 Fire brigade periphery module kit FCA2005-A1 Sounder module FN2001-A1 Network module (SAFEDLINK) FN2002-A1 Repeater (SAFEDLINK) FCA2001-A1 RS232 module (isolated) FCA2002-A1 RS485 module (isolated) FCI2003-A1 Loop extension (FDnet) FH2003-A1 Housing (Comfort) FH2005-A1 Housing (Large) Accessories: FTO2005-C1 Key switch (Kaba) FTO2006-B1 Key switch (Nordic) Z3B171 Relay module FCA2010-F1 Battery kit (9 Volt) A5Q00004142 Lithium battery 9 V / 1 Ah FHA2016-A1 19" mounting kit FCA2014-A1 Cable kit (communication) FHA2015-A1 FM-blind 2HU	**A5Q00016854**

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Type		Order No.
FCA2012-A1	**License key (L1)** iButton with license for SintesoView (Visualizer). Only one license key is applicable per station.	**A5Q00018856**

FTO2001-A1 — **Event printer** — **A5Q00010126**

The event printer is a thermal printer that logs alarms, faults and general messages. The event printer can be used in all FC20xx control panels if space is available. The RS232 module is required to operate the printer. Event printer including cables for interface and power supply, paper roll.
The RS232 module FCA2001-A1 must be ordered separately.

Operating voltage	9... 48 VDC
Quiescent current	50 mA
Operating current	3 A @ 9 VDC 0.7 A @ 48 VDC
Interface	RS232 serial
Operating temperature	0... +50 °C
Storage temperature	-20... +70 °C
Relative humidity	≤95 % (no condensation)
Dimensions (W x H x D)	85 x 85 x 55 mm

FHA2007-A1 — **Mounting plate** — **A5Q00010151**

The mounting plate must be screwed onto the back wall of the housing (Standard, Comfort). The mounting plate can pivot, allowing access to the underlying module, i.e. to mount the fire brigade periphery module or the sounder modules.

Dimensions (W x H x D)	221 x 241 x 46 mm

FCI2001-D1 — **Fire brigade periphery module** — **A5Q00013100**

For VdS compliant switching to fire department periphery devices (for Germany). The module has connections for FBF, FSD, ÜE, FSE, ÖA, KL, tamper alarm FSD.
Mounted in the housing (Standard) on the mounting plate FHA2007-A1, in housing (Comfort) on the back wall of the housing or on the mounting plate.

Operating voltage	21... 28.6 VDC
Operating current	max. 1.6 A
Cable capacity	0.2... 1.5 mm^2 / 0.5... 2.5 mm^2
Dimensions (W x H x D)	150 x 190 x 40 mm

FC20xx Compact Networkable Fire Control Panels
Expansion FC20xx

Type		Order No.
FCA2005-A1	**Sounder module**	**A5Q00014866**

With the sounder module, it is possible to split a collective horn line onto 4 individual lines. Each line controls and monitors an individual sounder. 2 sounder modules can also be used, but must then be cascaded.
The sounder module can be mounted onto the mounting plate FHA2007-A1 or onto the U-rail TS35 with the enclosed mounting feeds.

Operating voltage	21... 28.6 VDC
Quiescent current	20 mA
Operating current	max. 2 A (fused with 2 AT)
Supervised output	4
Cable capacity	0.08... 1.5 mm^2
Relative humidity	≤95 %
Color housing/cover	pure white, RAL 9010/transparent matt
Protection category	IP30
Dimensions (W x H x D)	132 x 90 x 24 mm

FN2001-A1 — **Network module (SAFEDLINK)** — **A5Q00012851**

To network multiple stations FCnet/SAFEDLINK. Plugged into the back side of the operating unit.
Network module incl. 2 EMC screwed cable glands M10 x 1.5.

Cable capacity	0.2...1.5 mm^2
Dimensions (W x H x D)	50 x 20 x 70 mm

FN2002-A1 — **Repeater (SAFEDLINK)** — **S24236-B2502-A1**

The module is a repeater in the FCnet. It is used for the extension of the range of the system bus FCnet. Between 2 stations max. 1 repeater can be used. The distance between network module and repeater may be max. 1000 m.
The repeater can be mounted directly on a plane surface, onto a U-rail TS35 with the enclosed mounting feeds or in a housing FDH291/292.
The accessories must be ordered separately.

Communication protocol	SAFEDLINK (UDP/IP)
Operating voltage	9... 30 VDC
Operating current	max. 45 mA
Cable capacity	0.08... 1.5 mm^2
Relative humidity	≤95 %
Color housing/cover	pure white, RAL 9010/transparent matt
Protection category	IP30 IP54 with aux. housing FDCH291 IP65 with aux. housing FDCH292
Dimensions (W x H x D)	132 x 90 x 24 mm
Accessories	TS35_122 U-rail TS35_288 U-rail FDCH291 Housing IP54 FDCH292 Housing IP65

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Type		Order No.
	Accessories	
TS35_122	**U-rail TS35/7.5/122** Universal mounting rail (U-rail) enables mounting of various equipment. Dimensions (W x H) 35 x 122 mm	**BPZ:5644780001**
TS35_288	**U-rail TS35/7.5/288** Universal mounting rail (U-rail) enables mounting of various equipment. Dimensions (W x H) 35 x 288 mm	**BPZ:5644230001**
FDCH291	**Housing for in-/output modules** Housing for the mounting of the in-/output modules for dirty, dry applications. Dimensions (W x H x D) 202 x 109 x 49 mm Color housing/cover pure white, RAL 9010/transparent matt Protection category IP54	**A5Q00002395**
FDCH292	**Housing for in-/output modules** Housing with seal for the mounting of the in-/output modules for wet applications. Dimensions (W x H x D) 202 x 109 x 49 mm Color housing/cover pure white, RAL 9010/transparent matt Protection category IP65	**A5Q00003942**

FC20xx Compact Networkable Fire Control Panels
Expansion FC20xx

Type		Order No.
BPZ:4074540001	**Auxiliary terminal** For the earthing of screened cables. Up to 4 auxiliary terminals may be installed in the housing FDCH291/292.	**BPZ:4074540001**
A5Q00004478	**Screwed cable gland M20 x 1.5** The screwed cable gland is for M20 cable feed-through. It enables better IP protection. Delivery unit 10 pieces	**A5Q00004478**
A5Q00004479	**Back nut M20** Back nut to screwed cable gland M20 x 1.5. Delivery unit 100 pieces	**A5Q00004479**
FCA2001-A1	**RS232 module (isolated)** Module for periphery devices with RS232 interface, e.g. for event printer FTO2001-A1. Plugged into the back side of the operating unit. RS232 module incl. 1 EMC screwed cable gland M10 x 1.5. Cable capacity 0.2...1.5 mm^2 Dimensions (W x H x D) 50 x 15 x 70 mm	**A5Q00005327**
FCA2002-A1	**RS485 module (isolated)** Module for periphery devices with RS485 interface, e.g. for FAT (GER). Plugged into the back side of the operating unit. RS485 module incl. 1 EMC screwed cable gland M10 x 1.5. Cable capacity 0.2...1.5 mm^2 Dimensions (W x H x D) 50 x 15 x 70 mm	**A5Q00009923**
FCI2003-A1	**Loop extension (FDnet)** With the loop extension, the number of connectable loops is doubled from 2 to 4. The number of FDnet addresses per station remains unchanged. Plugged onto the periphery board of the control panel. For each integrated line one loop extension can be equipped. Number of detector lines 2 loops or 4 stub lines Cable capacity 0.2... 1.5 mm^2 Dimensions (W x H x D) 48 x 20 x 70 mm	**A5Q00010136**

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Type		Order No.
FH2002-A1	**Housing (Standard)** Empty housing for open application, e.g. additional batteries, for operating add-ons or for the event printer. Cabinet dimensions (W x H x D): 430 x 398 x 160 mm Color housing/cover: light grey, RAL 7035/pure white RAL 9010 Protection category: IP30 Integral battery space: 2 x FA2003-A1 (7 Ah) or 2 x FA2004-A1 (12 Ah) Expansion: FTO2001-A1 Event printer FCM2006-A1 Operating add-on (2xLED ind.) FCM2007-A1 Operating add-on (4xLED ind.) FP2003-A1 Power supply kit (70 W) FP2004-A1 Power supply kit (150 W, A) FP2005-A1 Power supply kit (150 W, B)	**A5Q00018931**
FH2007-A1	**Housing (Std. +plan comp.)** Empty housing for documents A4, depth 150 mm. Cabinet dimensions (W x H x D): 430 x 398 x 160 mm Color housing/cover: light grey, RAL 7035/pure white RAL 9010 Protection category: IP30	**A5Q00022369**
FH2004-A1	**Housing (Large Extension)** Empty housing for larger batteries. Expansion for the Housing (Large). Cabinet dimensions (W x H x D): 430 x 398 x 260 mm Color housing/cover: light grey, RAL 7035/pure white RAL 9010 Protection category: IP30 Integral battery space: 2 x FA2007-A1 (45 Ah) or 2 x FA2008-A1 (65 Ah) Expansion: FP2004-A1 Power supply kit (150 W, A) FP2005-A1 Power supply kit (150 W, B)	**A5Q00018778**

FC20xx Compact Networkable Fire Control Panels
Expansion FC20xx

Type		Order No.
FH2003-A1	**Housing (Comfort)** Empty housing for open application, e.g. additional batteries, for operating add-ons or for the event printer. Cabinet dimensions (W x H x D): 430 x 796 x 160 mm Color housing/cover: light grey, RAL 7035/pure white RAL 9010 Protection category: IP30 Integral battery space: 2 x FA2003-A1 (7 Ah) or 2 x FA2004-A1 (12 Ah) or 2 x FA2005-A1 (17 Ah) or 2 x FA2006-A1 (26 Ah) Expansion: FTO2001-A1 Event printer; FCM2006-A1 Operating add-on (2xLED ind.); FCM2007-A1 Operating add-on (4xLED ind.); FP2003-A1 Power supply kit (70 W); FP2004-A1 Power supply kit (150 W, A); FP2005-A1 Power supply kit (150 W, B)	**A5Q00009906**
FH2005-A1	**Housing (Large)** Empty housing for open application, e.g. larger batteries. Cabinet dimensions (W x H x D): 430 x 796 x 260 mm Color housing/cover: light grey, RAL 7035/pure white RAL 9010 Protection category: IP30 Integral battery space: 4 x FA2006-A1 (26 Ah) or 4 x FA2007-A1 (45 Ah) or 2 x FA2008-A1 (65 Ah) Expansion: FP2004-A1 Power supply kit (150 W, A); FP2005-A1 Power supply kit (150 W, B); FH2004-A1 Housing (Large Extension)	**A5Q00019543**
FCM2006-A1	**Operating add-on (2xLED ind.)** To update 48 LED display groups, with one red and one yellow LED each. Can be inserted in all empty housings FH200x-A1, except FH2007-A1. Includes cables and screws for installation. Dimensions (W x H x D): 427 x 200 x 25 mm	**A5Q00021771**

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Type		Order No.
FCM2007-A1	**Operating add-on (4xLED ind.)** To update 96 LED display groups, with one red and one yellow LED each. Can be inserted in all empty housings FH200x-A1, except FH2007-A1. Includes cables and screws for installation. Dimensions (W x H x D) 427 x 200 x 25 mm	**A5Q00021772**
FP2003-A1	**Power supply kit (70 W)** Auxiliary power supply to all stations (control panels and terminals). Converts mains voltage to system voltage. Monitors mains voltage and batteries. Supply voltage 85... 265 VAC Power consumption max. 90 VA Current 0.5... 1 A Dimensions (W x H x D) 95 x 170 x 54 mm	**A5Q00016005**
FP2004-A1	**Power supply kit (150 W, A)** Power supply kit (150 W, A) as auxiliary power supply for installation into empty housings. Converts mains voltage to system voltage. Monitors mains voltage and batteries. Supply voltage 115/230 VAC Power consumption max. 300 VA Current 1.2 A Dimensions (W x H x D) 130 x 150 x 70 mm	**A5Q00020825**
FP2005-A1	**Power supply kit (150 W, B)** Power supply kit (150 W, B) as auxiliary power supply for cascading. Converts mains voltage to system voltage. Monitors mains voltage and batteries. Supply voltage 115/230 VAC Power consumption max. 300 VA Current 1.2 A Dimensions (W x H x D) 130 x 150 x 70 mm	**A5Q00018779**

FC20xx Compact Networkable Fire Control Panels
Accessories FC20xx

Type		Order No.
FTO2005-C1	**Key switch (Kaba)** Kaba key switch with mounting accessories and key (Kaba 8 #100), as an option for operating access (operating unit).	**A5Q00010113**
FTO2006-B1	**Key switch (Nordic)** Nordic key switch with mounting accessories and key (Nordic), as an option for operating access (operating unit).	**A5Q00010129**
Z3B171	**Relay module with 1 contact** The relay module is an additional fire event control module, activated by the fire control panel's control output. Contact rating: 250 VAC / 10 A Delivery unit: 10 pieces	**BPZ:4843830001**
FCA2010-F1	**Battery kit (9 Volt)** Battery kit for the 3rd voltage source for France (AFNOR). The 9 V battery must be ordered separately.	**A5Q00012569**
A5Q00004142	**Lithium brownstone battery 9 V / 1 Ah** For the supply of the detector testers, line tester, radio smoke detector etc. Dimensions (W x H x D): 25 x 48 x 16 mm Delivery unit: 10 pieces	**A5Q00004142**

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Type		Order No.
FHA2016-A1	**19" mounting kit** To install fire control panels and fire terminals in a 19" third-party housing. Dimensions (W x H x D) 430 x 100 x 324 mm	**A5Q00020179**
FCA2014-A1	**Cable kit (communication)** For flexible cable connections to the modules on the PMI-& main board.	**A5Q00023027**
FHA2017-A1	**FM-blind 1HU** FM-blind for recess mounting of fire control panels, fire terminals and empty housings (Standard and ECO). Color pure white, RAL 9010 Dimensions (W x H) 530 x 500 mm	**A5Q00024719**
FHA2015-A1	**FM-blind 2HU** FM-blind for recess mounting of fire control panels and empty housings (Comfort). Color pure white, RAL 9010 Dimensions (W x H) 886 x 500 mm	**A5Q00024621**

Simple operation – quick and easy access to all functions.

Dangerous situations are stressful situations. But they demand the right response, quickly. To ensure that this happens, safety technology must be easy to understand and intuitive to operate. With fire control panels, it must be possible to see at a glance which operating steps are required. Furthermore the control panels must support the responsible operators by providing them with further instructions.

- Standardized operating concept
- Menu-driven, logical operation
- Interactive, dialog-based procedures
- Simple, safe, stress-free operation in the event of an alarm
- Different access rights for different user profiles
- Fast system diagnoses and configuration changes, simple maintenance and rapid troubleshooting via remote access

Type		Order No.
FT2040..	**Fire terminal**	**FT2040..**

The FT2040.. fire terminal is an operating panel remote from the central control panel that can be operated with its own power supply as well, as an option. The operating unit has installation slots for optional interfaces such as RS232, RS485, networking modules (SAFEDLINK) and a key switch. Each station has an Ethernet connection to which other fire terminals or a PC can be connected for remote operation/engineering. This Ethernet connection enables a maximum of 4 stations including a Central Access Point 'CAP' (via Hub) to be networked together (not EN54-compliant). The high-performance FCnet makes it possible to network up to 32 FC20x0 fire control panels and FT2040.. fire terminals together as required. Connection of danger management systems via BACnet.
The optional power supply i.e. power supply kit (70 W) and batteries 2 x 12 V / 7 Ah must be ordered separately.

Operating voltage	21... 28.6 VDC
Quiescent current	125 mA
Alarm current	130 mA
Plug-in position	2 -> for serial interfaces RS232, RS485 2 -> for network modules
Power supply	70 W (optional)
Battery capacity	max. 2 x 12 V / 7 Ah (optional)
Operating temperature	-8... +42 °C
Storage temperature	-20... +60 °C
Relative humidity	≤95 % (no condensation)
Color housing/cover	light grey, RAL 7035/pure white RAL 9010
Cabinet dimensions (W x H x D)	430 x 398 x 80 mm
Protection category	IP30
Approval	VdS G206111 LPCB 126h/06
Data sheet	009386

FT2040 Networkable Fire Operating Terminals
FT2040 Operating Terminal to FC20xx

Type			Order No.
FT2040-AZ	**Fire terminal**		**A5Q00016702**
	As FT2040.. for technical details, but with the following differences:		
	Expansion	FCA2012-A1 License key (L1) FTO2001-A1 Event printer FN2001-A1 Network module (SAFEDLINK) FCA2001-A1 RS232 module (isolated) FCA2002-A1 RS485 module (isolated) FP2003-A1 Power supply kit (70 W) FH2001-A1 Housing (Eco) FH2006-A1 Housing (Eco +plan comp.) FH2001-E1 Housing (Eco +2xLED ind.) FH2001-G1 Housing (Eco +4xLED ind.)	
	Accessories	FTO2005-C1 Key switch (Kaba) FTO2006-B1 Key switch (Nordic) FCA2010-F1 Battery kit (9 Volt) A5Q00004142 Lithium battery 9 V / 1 Ah FHA2016-A1 19" mounting kit FCA2014-A1 Cable kit (communication) FHA2017-A1 FM-blind 1HU	
FT2040-EZ	**Fire terminal with 1 LED indicator**		**A5Q00016720**
	As FT2040.. for technical details, but with the following differences: With 24 indicator groups, each with one red and one yellow LED.		
	Expansion	FCA2012-A1 License key (L1) FN2001-A1 Network module (SAFEDLINK) FCA2001-A1 RS232 module (isolated) FCA2002-A1 RS485 module (isolated) FP2003-A1 Power supply kit (70 W) FH2001-A1 Housing (Eco) FH2006-A1 Housing (Eco +plan comp.) FH2001-E1 Housing (Eco +2xLED ind.) FH2001-G1 Housing (Eco +4xLED ind.)	
	Accessories	FTO2005-C1 Key switch (Kaba) FTO2006-B1 Key switch (Nordic) FCA2010-F1 Battery kit (9 Volt) A5Q00004142 Lithium battery 9 V / 1 Ah FHA2016-A1 19" mounting kit FCA2014-A1 Cable kit (communication) FHA2017-A1 FM-blind 1HU	

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Type		Order No.
FCA2012-A1	**License key (L1)** iButton with license for SintesoView (Visualizer). Only one license key is applicable per station.	**A5Q00018856**

FTO2001-A1 — **Event printer** — **A5Q00010126**

The event printer is a thermal printer that logs alarms, faults and general messages. The event printer can be used in all FC20xx control panels if space is available. The RS232 module is required to operate the printer. Event printer including cables for interface and power supply, paper roll.
The RS232 module FCA2001-A1 must be ordered separately.

Operating voltage	9... 48 VDC
Quiescent current	50 mA
Operating current	3 A @ 9 VDC 0.7 A @ 48 VDC
Interface	RS232 serial
Operating temperature	0... +50 °C
Storage temperature	-20... +70 °C
Relative humidity	≤95 % (no condensation)
Dimensions (W x H x D)	85 x 85 x 55 mm

FN2001-A1 — **Network module (SAFEDLINK)** — **A5Q00012851**

To network multiple stations FCnet/SAFEDLINK. Plugged into the back side of the operating unit.
Network module incl. 2 EMC screwed cable glands M10 x 1.5.

Cable capacity	0.2...1.5 mm^2
Dimensions (W x H x D)	50 x 20 x 70 mm

FCA2001-A1 — **RS232 module (isolated)** — **A5Q00005327**

Module for periphery devices with RS232 interface, e.g. for event printer FTO2001-A1. Plugged into the back side of the operating unit.
RS232 module incl. 1 EMC screwed cable gland M10 x 1.5.

Cable capacity	0.2...1.5 mm^2
Dimensions (W x H x D)	50 x 15 x 70 mm

FT2040 Networkable Fire Operating Terminals
Expansion FT2040

Type		Order No.
FCA2002-A1	**RS485 module (isolated)** Module for periphery devices with RS485 interface, e.g. for FAT (GER). Plugged into the back side of the operating unit. RS485 module incl. 1 EMC screwed cable gland M10 x 1.5. Cable capacity: 0.2...1.5 mm^2 Dimensions (W x H x D): 50 x 15 x 70 mm	**A5Q00009923**
FP2003-A1	**Power supply kit (70 W)** Auxiliary power supply to all stations (control panels and terminals). Converts mains voltage to system voltage. Monitors mains voltage and batteries. Supply voltage: 85... 265 VAC Power consumption: max. 90 VA Current: 0.5... 1 A Dimensions (W x H x D): 95 x 170 x 54 mm	**A5Q00016005**
FH2001-A1	**Housing (Eco)** Empty housing for open use, e.g. additional batteries, event printer, power supply or mimic display panels. Cabinet dimensions (W x H x D): 430 x 398 x 80 mm Color housing/cover: light grey, RAL 7035/pure white RAL 9010 Protection category: IP30 Integral battery space: 2 x FA2003-A1 (7 Ah) Expansion: FTO2001-A1 Event printer	**A5Q00016865**
FH2006-A1	**Housing (Eco +plan comp.)** Empty housing for documents A4, depth 50 mm. Cabinet dimensions (W x H x D): 430 x 398 x 80 mm Color housing/cover: light grey, RAL 7035/pure white RAL 9010 Protection category: IP30	**A5Q00022364**

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FT2040 Networkable Fire Operating Terminals Expansion FT2040

Type		Order No.
FH2001-E1	**Housing (Eco + 2xLED ind.)** For an additional 48 indicator groups, each with one red and one yellow LED. Cabinet dimensions (W x H x D): 430 x 398 x 80 mm Color housing/cover: light grey, RAL 7035/pure white RAL 9010 Protection category: IP30 Expansion: FTO2001-A1 Event printer	**A5Q00016866**
FH2001-G1	**Housing (Eco + 4xLED ind.)** For an additional 96 indicator groups, each with one red and one yellow LED. Cabinet dimensions (W x H x D): 430 x 398 x 80 mm Color housing/cover: light grey, RAL 7035/pure white RAL 9010 Protection category: IP30	**A5Q00016867**

FT2040 Networkable Fire Operating Terminals
Accessories FT2040

Type		Order No.
FTO2005-C1	**Key switch (Kaba)** Kaba key switch with mounting accessories and key (Kaba 8 #100), as an option for operating access (operating unit).	**A5Q00010113**
FTO2006-B1	**Key switch (Nordic)** Nordic key switch with mounting accessories and key (Nordic), as an option for operating access (operating unit).	**A5Q00010129**
FCA2010-F1	**Battery kit (9 Volt)** Battery kit for the 3rd voltage source for France (AFNOR). The 9 V battery must be ordered separately.	**A5Q00012569**
A5Q00004142	**Lithium brownstone battery 9 V / 1 Ah** For the supply of the detector testers, line tester, radio smoke detector etc. Dimensions (W x H x D) 25 x 48 x 16 mm Delivery unit 10 pieces	**A5Q00004142**
FHA2016-A1	**19" mounting kit** To install fire control panels and fire terminals in a 19" third-party housing. Dimensions (W x H x D) 430 x 100 x 324 mm	**A5Q00020179**

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Type		Order No.
FCA2014-A1	**Cable kit (communication)** For flexible cable connections to the modules on the PMI-& main board.	**A5Q00023027**
FHA2017-A1	**FM-blind 1HU** FM-blind for recess mounting of fire control panels, fire terminals and empty housings (Standard and ECO). Color: pure white, RAL 9010 Dimensions (W x H): 530 x 500 mm	**A5Q00024719**

Sinteso™ control panels – a clear concept, efficient operation.

Compact fire control panels for easy handling.

Do you require intelligent fire protection that helps trigger the right action? Sinteso™, the latest fire protection family from Siemens, provides fire control panels with clear and intelligible displays that allow users to operate them confidently and without stress – even in the event of an alarm. Combining highest safety standards with the latest technology, Sinteso control panels are the perfect solution for any application area. And whether for small or complex building structures, the modular design of Sinteso allows to build a network that meets any requirements.
For more information, please visit www.siemens.com/sinteso

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FC10 fire control panel – for easy control.

FC10 has been designed to ensure the simplest operation possible – with clear LED displays, a key switch, and an ergonomically designed keyboard. System testing and isolation can be performed with confidence using the comprehensive array of clear, concise controls and indicators. Confusing multi-function buttons have been replaced by independent controls and the option of code or key switch access allows users to decide which is best for them. The ability of FC10 to work in two distinct modes reduces the possibility of false alarms and the simple method of selection allows this feature to be used without complication. Furthermore, FC10 can be programmed to delay communication with the fire brigade for automatic alarms in "manned" mode.

- Manned/unmanned operation
- Differentiation of manual and automatic alarm origin without separate wiring
- Code or key switch user access
- Clear, comprehensive indication and controls for easy operation
- Vast array of programmable functions
- Optional clock, alarm counter, and 320-event memory

2-zone Panels
FC10 Series

Type		Order No.
FC1002..	**2-zone conventional unit**	**FC1002..**

The FC10 series sets the new standard in functionality and design for conventional fire detection panels. FC1002.. is an easy-to-handle, cost-effective fire detection panel that is ideal for small installations. Easy on-site configuration. Each line can be individually configured to Algo-Rex collective or Synova™ conventional. This allows to connection to Sinteso FDOOT241-9 (collective mode), AlgoRex DS11collective, Synova™ conventional detectors as well as special detectors like DF1191, FDF2x1-9 flame, DLO1191, FDL241-9 linear detectors etc.

Conventional line	2
Transmission output contact	2 x 30 VDC / 1 A
Supervised output	2 x 24 VDC / 0.5 A
Control output	5 x 24 VDC / 40 mA
Control input	3
Mains voltage	115/230 VAC / 0.7 A +10 % -15 %, 50/60 Hz
Power consumption	13... 25 VA
Quiescent current	80 mA
Battery capacity	2 x 12 V / 7.2 Ah
Standard	EN54, CE
Dimensions (W x H x D)	370 x 286 x 90 mm
Case protection category	IP30
Color	white, RAL 9003
Data sheet	007994
Accessories	Z3B171 Relay module FCA1007 Key switch kit

FC1002-A	**2-zone conventional unit (Standard)** As FC1002.. for technical details, but with the following differences: Inscription stripes are enclosed in the following languages: English, French, German, Italian, Spanish, Dutch, Flemish, Portuguese, Polish, Czech, Swedish and Danish.	**A6E60500000**
FC1002-B	**2-zone conventional unit (Head removal monitoring)** As FC1002.. for technical details, but with the following differences: Special line monitoring for removal of a detector. Inscription stripes in English are enclosed.	**A6E60500001**
FC1002-C	**2-zone conventional unit (Nordic)** As FC1002.. for technical details, but with the following differences: Operating access through Nordic key. Inscription stripes are enclosed in the following languages: Swedish, Danish, Norwegian and Finnish.	**A6E60500002**

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2-zone Panels
Accessories FC1002

Type		Order No.
Z3B171	**Relay module with 1 contact** The relay module is an additional fire event control module, activated by the fire control panel's control output. Contact rating: 250 VAC / 10 A Delivery unit: 10 pieces	**BPZ:4843830001**
FCA1007	**Key switch kit** To provide operating access via key switch instead of password.	**A6E60500026**

4-zone Panels
FC10 Series

Type		Order No.
FC1004..	**4-zone conventional unit**	**FC1004..**

The FC10 series sets the new standard in functionality and design for conventional fire detection panels. FC1004.. is an easy-to-handle, cost-effective fire detection panel that is ideal for small installations. Easy on-site configuration. Each line can be individually configured to Algo-Rex collective or Synova™ conventional. This allows to connection to Sinteso FDOOT241-9 (collective mode), AlgoRex DS11collective, Synova™ conventional detectors as well as special detectors like DF1191, FDF2x1-9 flame, DLO1191, FDL241-9 linear detectors etc.

Conventional line	4
Transmission output contact	2 x 30 VDC / 1 A
Supervised output	2 x 24 VDC / 0.5 A
Control output	7 x 24 VDC / 40 mA
Control input	3
Mains voltage	115/230 VAC / 0.7 A +10 % -15 %, 50/60 Hz
Power consumption	13... 25 VA
Quiescent current	90 mA
Battery capacity	2 x 12 V / 7.2 Ah
Standard	EN54, CE
Dimensions (W x H x D)	370 x 286 x 90 mm
Case protection category	IP30
Color	white, RAL 9003
Data sheet	007994
Accessories	Z3B171 Relay module FCA1007 Key switch kit

FC1004-A	**4-zone conventional unit (Standard)** As FC1004.. for technical details, but with the following differences: Inscription stripes are enclosed in the following languages: English, French, German, Italian, Spanish, Dutch, Flemish, Portuguese, Polish, Czech, Swedish and Danish.	**A6E60500003**
FC1004-B	**4-zone conventional unit (Head removal monitoring)** As FC1004.. for technical details, but with the following differences: Special line monitoring for removal of a detector. Inscription stripes in English are enclosed.	**A6E60500004**
FC1004-C	**4-zone conventional unit (Nordic)** As FC1004.. for technical details, but with the following differences: Operating access through Nordic key. Inscription stripes are enclosed in the following languages: Swedish, Danish, Norwegian and Finnish.	**A6E60500005**
FC1004-E	**4-zone conventional unit (NL)** As FC1004.. for technical details, but with the following differences: Additional evacuation functions according to NEN2575. Inscription stripes in Dutch are enclosed.	**A6E60500006**

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Type		Order No.
Z3B171	**Relay module with 1 contact** The relay module is an additional fire event control module, activated by the fire control panel's control output. Contact rating: 250 VAC / 10 A Delivery unit: 10 pieces	**BPZ:4843830001**
FCA1007	**Key switch kit** To provide operating access via key switch instead of password.	**A6E60500026**

8-zone Panels
FC10 Series

Type		Order No.
FC1008..	**8-zone conventional unit**	**FC1008..**

The FC10 series sets the new standard in functionality and design for conventional fire detection panels. FC1008.. is an easy-to-handle, cost-effective fire detection panel that is ideal for small installations. Easy on-site configuration. Each line can be individually configured to Algo-Rex collective or Synova™ conventional. This allows to connection to Sinteso FDOOT241-9 (collective mode), AlgoRex DS11collective, Synova™ conventional detectors as well as special detectors like DF1191, FDF2x1-9 flame, DLO1191, FDL241-9 linear detectors etc.

Conventional line	8
Transmission output contact	2 x 30 VDC / 1 A
Supervised output	2 x 24 VDC / 0.5 A
Control output	14 x 24 VDC / 40 mA
Control input	6
Mains voltage	115/230 VAC / 1.5 A +10 % -15 %, 50/60 Hz
Battery capacity	2 x 12 V / 12 Ah
Standard	EN54, CE
Dimensions (W x H x D)	506 x 378 x 125 mm
Case protection category	IP30
Color housing/cover	grey, RAL 9006/white, RAL 9003
Data sheet	008099
Expansion	FCA1002 Display unit FCA1003 Sounder control card FCA1004-F Line extension card SST FCA1000-FF Interface card SST FCA1005-D RT-isolation card FCA1006-F RS232 adapter FCP1004-E Power supply 3.5 A FCA1007-B Add-on line card
Accessories	Z3B171 Relay module FCA1007 Key switch kit

FC1008-A	**8-zone conventional unit (Standard)**	**A6E60500007**

As FC1008.. for technical details, but with the following differences:

Inscription stripes are enclosed in the following languages: English, French, German, Italian, Spanish, Dutch, Flemish, Portuguese, Polish, Czech, Swedish and Danish.

Power consumption	25... 45 VA
Quiescent current	125 mA

FC1008-B	**8-zone conventional unit (Head removal monitoring)**	**A6E60500008**

As FC1008.. for technical details, but with the following differences:

Special line monitoring for removal of a detector.
Inscription stripes in English are enclosed.

Power consumption	25... 45 VA
Quiescent current	125 mA

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Type		Order No.
FC1008-C	**8-zone conventional unit (Nordic)** As FC1008.. for technical details, but with the following differences: Operating access through Nordic key. Inscription stripes are enclosed in the following languages: Swedish, Danish, Norwegian and Finnish. Power consumption 25... 45 VA Quiescent current 125 mA	**A6E60500009**
FC1008-D	**8-zone conventional unit (CH)** As FC1008.. for technical details, but with the following differences: With special fire brigade operating panel for the Swiss market. Inscription stripes in Swiss German, Swiss Italian and Swiss French are enclosed. Power consumption 25... 45 VA Quiescent current 125 mA	**A6E60500010**
FC1008-E	**8-zone conventional unit (Evacuation)** As FC1008.. for technical details, but with the following differences: Additional evacuation functions according to NEN2575. With 3.5 A power supply FCP1004-E. Inscription stripes in Dutch are enclosed. Power consumption 20... 110 VA Quiescent current 170 mA	**A6E60500011**
FC1008-F	**8-zone conventional unit (VdS)** As FC1008.. for technical details, but with the following differences: VdS options (e.g. Feuerwehrbedienfeld-, Hauptmelder-, Feuerwehrtresor-Anschaltung). Inscription stripes in German are enclosed. Power consumption 25... 45 VA Quiescent current 180 mA	**A6E60500012**
FC1024-A 	**12-zone conventional expansion unit** To expand the FC1008 or FC1012 by 12 zones (except for FC1008-E, -F and FC1012-F).	**A6E60500019**

8-zone Panels
Expansion FC1008

Type		Order No.
FCA1002	**Display unit** To provide alarm counter, clock, event memory, delay countdown. Factory equipped with FC1008-E and FC1008-F, FC1012-F. Optional with FC1008-A/-B/-C/-D, FC1012-A/-B-C/-D.	**A6E60500021**
FCA1003	**Sounder control card** To provide 4 additional, monitored control lines. Not possible with FC1008-F, FC1012-F.	**A6E60500022**
FCA1004-F	**Line extension card SST** Provides 4 additional detection lines and connecting facility for external extinguishing control. Accessory for FC1008-F and FC1012-F only.	**A6E60500023**
FCA1000-FF	**Interface card SST** To provide connecting facility to external extinguishing control. Accessory for FC1008-F and FC1012-F only.	**A6E60500055**
FCA1005-D	**RT-isolation card** To provide hardware disconnecting facility for the remote transmission channels.	**A6E60500024**
FCA1006-F	**RS232 adapter** To provide connecting facility to FAT (VdS). Accessory for FC1008-F, FC1012-F only.	**A6E60500025**
FCP1004-E	**Power supply 3.5 A** Power supply 3.5 A, accessory for all control unit types FC10, or as spare part for FC1008-E and XC10.	**A6E60500054**
FCA1007-B	**Add-on line card** To provide line continuity with diode bases according to British Standard BS5839 Pt1. One unit per 2 lines. Accessory for FC1024-A if used with FC1008/12-B.	**A6E60500027**

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Type		Order No.
Z3B171	**Relay module with 1 contact** The relay module is an additional fire event control module, activated by the fire control panel's control output. Contact rating: 250 VAC / 10 A Delivery unit: 10 pieces	**BPZ:4843830001**
FCA1007	**Key switch kit** To provide operating access via key switch instead of password.	**A6E60500026**

12-zone Panels
FC10 Series

Type		Order No.
FC1012..	**12-zone conventional unit**	**FC1012..**

The FC10 series sets the new standard in functionality and design for conventional fire detection panels. FC1012.. is an easy-to-handle, cost-effective fire detection panel that is ideal for small installations. Easy on-site configuration. Each line can be individually configured to Algo-Rex collective or Synova™ conventional. This allows to connection to Sinteso FDOOT241-9 (collective mode), AlgoRex DS11collective, Synova™ conventional detectors as well as special detectors like DF1191, FDF2x1-9 flame, DLO1191, FDL241-9 linear detectors etc.

Conventional line	12
Transmission output contact	2 x 30 VDC / 1 A
Supervised output	2 x 24 VDC / 0.5 A
Control output	18 x 24 VDC / 40 mA
Control input	6
Mains voltage	115/230 VAC / 1.5 A +10 % -15 %, 50/60 Hz
Power consumption	25... 45 VA
Battery capacity	2 x 12 V / 12 Ah
Standard	EN54, CE
Dimensions (W x H x D)	506 x 378 x 125 mm
Case protection category	IP30
Color housing/cover	grey, RAL 9006/white, RAL 9003
Data sheet	008099
Expansion	FCA1002 Display unit FCA1003 Sounder control card FCA1004-F Line extension card SST FCA1000-FF Interface card SST FCA1005-D RT-isolation card FCA1006-F RS232 adapter FCP1004-E Power supply 3.5 A FCA1007-B Add-on line card
Accessories	Z3B171 Relay module FCA1007 Key switch kit

FC1012-A	**12-zone conventional unit (Standard)**	**A6E60500014**

As FC1012.. for technical details, but with the following differences:

Inscription stripes are enclosed in the following languages: English, French, German, Italian, Spanish, Dutch, Flemish, Portuguese, Polish, Czech, Swedish and Danish.

Quiescent current	155 mA

FC1012-B	**12-zone conventional unit (Head removal monitoring)**	**A6E60500015**

As FC1012.. for technical details, but with the following differences:

Special line monitoring for removal of a detector.
Inscription stripes in English are enclosed.

Quiescent current	155 mA

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Type		Order No.
FC1012-C	**12-zone conventional unit (Nordic)** As FC1012.. for technical details, but with the following differences: Operating access through Nordic key. Inscription stripes are enclosed in the following languages: Swedish, Danish, Norwegian and Finnish. Quiescent current 155 mA	**A6E60500016**
FC1012-D	**12-zone conventional unit (CH)** As FC1012.. for technical details, but with the following differences: With special fire brigade operating panel for the Swiss market. Inscription stripes in Swiss German, Swiss Italian and Swiss French are enclosed. Quiescent current 155 mA	**A6E60500017**
FC1012-F	**12-zone conventional unit (VdS)** As FC1012.. for technical details, but with the following differences: VdS options (e.g. Feuerwehrbedienfeld-, Hauptmelder-, Feuerwehrtre-sor-Anschaltung). Inscription stripes in German are enclosed. Quiescent current 220 mA	**A6E60500018**
FC1024-A 	**12-zone conventional expansion unit** To expand the FC1008 or FC1012 by 12 zones (except for FC1008-E, -F and FC1012-F).	**A6E60500019**

12-zone Panels
Expansion FC1012

Type		Order No.
FCA1002	**Display unit** To provide alarm counter, clock, event memory, delay countdown. Factory equipped with FC1008-E and FC1008-F, FC1012-F. Optional with FC1008-A/-B/-C/-D, FC1012-A/-B-C/-D.	**A6E60500021**
FCA1003	**Sounder control card** To provide 4 additional, monitored control lines. Not possible with FC1008-F, FC1012-F.	**A6E60500022**
FCA1004-F	**Line extension card SST** Provides 4 additional detection lines and connecting facility for external extinguishing control. Accessory for FC1008-F and FC1012-F only.	**A6E60500023**
FCA1000-FF	**Interface card SST** To provide connecting facility to external extinguishing control. Accessory for FC1008-F and FC1012-F only.	**A6E60500055**
FCA1005-D	**RT-isolation card** To provide hardware disconnecting facility for the remote transmission channels.	**A6E60500024**
FCA1006-F	**RS232 adapter** To provide connecting facility to FAT (VdS). Accessory for FC1008-F, FC1012-F only.	**A6E60500025**
FCP1004-E	**Power supply 3.5 A** Power supply 3.5 A, accessory for all control unit types FC10, or as spare part for FC1008-E and XC10.	**A6E60500054**
FCA1007-B	**Add-on line card** To provide line continuity with diode bases according to British Standard BS5839 Pt1. One unit per 2 lines. Accessory for FC1024-A if used with FC1008/12-B.	**A6E60500027**

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Type		Order No.
Z3B171	**Relay module with 1 contact** The relay module is an additional fire event control module, activated by the fire control panel's control output. Contact rating: 250 VAC / 10 A Delivery unit: 10 pieces	**BPZ:4843830001**
FCA1007	**Key switch kit** To provide operating access via key switch instead of password.	**A6E60500026**

Compact and straightforward.

XC10 – an innovative system for fire detection and extinguishing.

Control panels are the heart of any fire protection system. With its latest innovation XC10, Siemens now introduces a unique combination of detection, alarming, and extinguishing – controlled by only one panel. With its compact and appealing design, XC10 fits comfortably into any environment. Pre-programmed configurations and automatic calibration functionality allow quick installation and commissioning. The clear user interface provides a comprehensive overview of the system status as well as the activation and extinguishing processes, thus ensuring a fast and correct response. An ideal solution for all application areas, XC10 can be used as a stand-alone or integrated into a system.
For more information, please visit www.siemens.com/buildingtechnologies

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XC10 – the compact solution for single-sector extinguishing and detection.

The XC10 extinguishing panel is highly flexible and can be used for a great variety of applications. Designed for a single extinguishing sector, it can operate as a stand-alone solution or be integrated into a system.

- Fire detection and extinguishing system control in one panel
- High flexibility in actuation of extinguishing systems
- Suitable for all types of extinguishing agents and applications
- Rapid, easy installation and commissioning
- Many different detector portfolios are supported
- Complies with international standards (EN52-2/4, EN12094,...)
- Connectable via in-/output module with FDnet

Type		Order No.
XC1001-A	**Extinguishing control unit**	**A6E60500060**

The new XC10 extinguishing control unit for 1 extinguishing sector to control small and medium size extinguishing installations. Self-contained control unit including fire detection and extinguishing control. Two valve control lines, master and slave, both are compatible for the activation of solenoids and pyrotechnical actuators. Easy to integrate in fire detection systems via in-/output module FDCIO222. Easy on-site configuration. Each line can be individually configured to AlgoRex collective or Synova™ conventional. This allows to connection to Sinteso FDOOT241-9 (collective mode), AlgoRex DS11collective, Synova™ conventional detectors as well as special detectors like DF1191, FDF2x1-9 flame, DLO1191, FDL241-9 linear detectors etc.
Integral capacity for emergency power of up to 30 h.
Inscription stripes are enclosed in the following languages: English, French, German, Italian, Spanish, Dutch, Flemish, Portuguese, Polish, Czech, Swedish, Danish, Norwegian and Finnish.

Conventional line	4
Alarm relay output (NO/NC)	max. 2 x 250 V, 1 A
Supervised output	3 x 24 V, 500 mA 2 x 24 V, 2 A
Control output	8 x 24 V, 40 mA
Control input	4 (positive potential via dry contact)
Relay output (volt-free)	5 x 30 V, 1 A
Mains voltage	230 VAC, +10 % -15 %, 50/60 Hz
Power consumption	20... 150 VA
Quiescent current	132 mA
Battery capacity	2 x 12 V / 4.5 Ah
Standard	EN12094-1, EN54-2, EN54-4
Dimensions (W x H x D)	370 x 286 x 90 mm
Case protection category	IP30
Color	white, RAL 9003
Data sheet	008496
Expansion	XCA1016 Add-on module XCE1002 Trigger element XCA1020 Accessory set for FDCIO FCA1005-D RT-isolation card
Accessories	Z3B171 Relay module FCA1007 Key switch kit

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Type		Order No.
XC1001-B	**Extinguishing control unit (France)**	**A5Q00018177**

The extinguishing control unit for 1 extinguishing sector to control small and medium size extinguishing installations. Self contained control unit including fire detection and extinguishing control. Integrated control facility for remote transmission. Also connectible to fire detection systems via in-/output module FDCIO222. For solenoids and pyrotechnical actuators. Compatible with Siemens conventional detector series. 2 selectable detector line standards for a wide range of detector compatibility. Simple user controls with isolate/test buttons.
Easy on-site configuration.
Integral capacity for emergency power of up to 30 h.
Inscription stripes in French are enclosed.

Conventional line	4
Alarm relay output (NO/NC)	max. 2 x 250 V, 1 A
Supervised output	3 x 24 V, 500 mA 2 x 24 V, 2 A
Control output	8 x 24 V, 40 mA
Control input	4 (positive potential via dry contact)
Relay output (volt-free)	5 x 30 V, 1 A
Mains voltage	230 VAC, +10 % -15 %, 50/60 Hz
Power consumption	20... 150 VA
Quiescent current	132 mA
Battery capacity	2 x 12 V / 4.5 Ah
Standard	EN12094-1, EN54-2, EN54-4
Dimensions (W x H x D)	370 x 286 x 90 mm
Case protection category	IP30
Color	white, RAL 9003
Data sheet	008496
Expansion	XCA1016 Add-on module XCE1002 Trigger element XCA1020 Accessory set for FDCIO FCA1005-D RT-isolation card
Accessories	Z3B171 Relay module FCA1007 Key switch kit

Connectible to Fire Detection Systems
Expansion XC10

Type		Order No.
XCA1016	**Add-on module** The add-on module splits the two functions on the monitored input 1 onto two independent monitored input lines '1A' and '1B'. This module is only required for installations in which both states 'loss of agent' and 'mech. blocking device open/closed' have to be reported.	**A5Q00016213**
XCE1002	**Trigger element** Required as an alarm trigger element for manual call points with functionality Hold/Abort in case more than one manual call point is connected on monitor control line 3 of the XC10. Manual call point type DM1103-S does not use this element, but the functionality of this trigger element XCE1002 is implemented.	**A5Q00015659**
XCA1020	**Accessory set for FDCIO** Mounting support for I/O-module FDCIO222 for the connection to a fire detection system.	**A5Q00025158**
FCA1005-D	**RT-isolation card** To provide hardware disconnecting facility for the remote transmission channels.	**A6E60500024**

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Type		Order No.
Z3B171	**Relay module with 1 contact** The relay module is an additional fire event control module, activated by the fire control panel's control output. Contact rating: 250 VAC / 10 A Delivery unit: 10 pieces	**BPZ:4843830001**
FCA1007	**Key switch kit** To provide operating access via key switch instead of password.	**A6E60500026**

Sinteso™ fire detectors – immune from deception in every environment.

Intelligent solutions for standard and sophisticated applications.

Whether for clean or harsh environments, you require fire detectors to rely on. Sinteso™, the latest fire protection system from Siemens, offers it all. As demanding environments such as industrial plants call for exceptional technology, Sinteso S-LINE detectors use Siemens' unique **ASA***technology*™ to distinguish dependably between deceptive phenomena and fire. While Sinteso C-LINE detectors are the first choice for areas such as hotels or offices. Of course, both can be used on the same FDnet. And should the building structure or usage of a room change, Sinteso detectors can be easily and quickly adjusted to the new requirements.
For more information, please visit www.siemens.com/sinteso

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FDnet – the network that supplies everything.

The FDnet is a multifunctional bus system for fast, reliable communication between the FDnet devices and the Sinteso™ fire control panel. A special advantage is its use of the communication circuit to simultaneously supply the devices with power. It is also easy to incorporate existing installations and cables.

- Saves installation time as well as material – for example, up to 50 meters of cabling per connected floor repeater terminal or display
- High efficiency – practically all existing cable networks can be reused
- High level of adaptability – C-LINE and S-LINE fire detectors can be combined in any constellation on the FDnet
- High flexibility – connection of additional devices possible at any time, also without additional components for stubs
- Integrated line separators in all FDnet devices
- Special detectors like air sampling detectors, beam (linear smoke) detectors and radio fire detectors can easily be integrated in FDnet

Sinteso™ C-LINE – fire detectors and accessories for standard applications.

Whether in hotels, schools, office buildings or movie theaters, Sinteso™ C-LINE fire detectors are the first choice of investors, planners and operators in normal environmental conditions where only occasional deceptive phenomena occur.

- State-of-the-art detection algorithms for preventing false alarms
- Combination of C-LINE and S-LINE fire detectors on the FDnet to meet the fire detection requirements of specific applications
- Continued use of existing line networks
- Reliable and efficient fire detection

Addressable Fire Detectors
C-LINE Intelligent Detectors with Detection Algorithms

Type		Order No.
FDOOT221	**Multi-sensor smoke detector, neural DA (C-LINE)**	**A5Q00001566**

For the early detection of flaming fires caused by the combustion of liquid and solid matter, as well as smoldering fires. For the early and reliable fire detection in environments with deceptive phenomena.
Works according to the scattered light principle with two sensors, optical forward and backward scattering. Opto-electronic sampling chamber holds off blocks disturbing extraneous light but optimally detects both dark and light smoke particles. Two additional heat sensors increase the fire detector's immunity to deceptive phenomena. Signal processing with detection algorithms (DA).
The base FDB221 must be ordered separately.

Communication protocol	FDnet
Operating voltage	12... 33 VDC
Quiescent current	200... 280 µA
Ext. alarm indicator	2 without sounder base 1 with sounder base
Operating temperature	-10... +60 °C
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Color	pure white, RAL 9010
Protection category	with base IP43, with base attachment IP44
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	CEA4021, EN54-7, EN54-17
Approval	VdS G204006
Dimensions (Ø x H)	100 x 46 mm
Data sheet	007850
Accessories	FDBZ293 Detector locking device FDZ291 Detector dust cap

Addressable Fire Detectors
C-LINE Intelligent Detectors with Detection Algorithms

Type		Order No.
FDOOT221	**Multi-sensor smoke detector, neural DA (C-LINE) (colored)**	**A5Q00016442**

For the early detection of flaming fires caused by the combustion of liquid and solid matter, as well as smoldering fires. For the early and reliable fire detection in environments with deceptive phenomena.
Works according to the scattered light principle with two sensors, optical forward and backward scattering. Opto-electronic sampling chamber holds off blocks disturbing extraneous light but optimally detects both dark and light smoke particles. Two additional heat sensors increase the fire detector's immunity to deceptive phenomena. Signal processing with detection algorithms (DA).
The colored base FDB221 must be ordered separately.

Communication protocol	FDnet
Operating voltage	12... 33 VDC
Quiescent current	200... 280 µA
Ext. alarm indicator	2 without sounder base 1 with sounder base
Operating temperature	-10... +60 °C
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Color	according to customer requirement
Protection category	with base IP43, with base attachment IP44
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	CEA4021, EN54-7, EN54-17
Approval	VdS G204006
Dimensions (Ø x H)	100 x 46 mm
Data sheet	009409
Accessories	FDBZ293 Detector locking device FDZ291 Detector dust cap

FDO221	**Smoke detector, FDnet wide spectrum DA (C-LINE)**	**A5Q00001565**

For the early detection of smoke-generating, flaming and smoldering fires.
Works according to the scattered light principle with one sensor, optical forward scattering. Opto-electronic sampling chamber holds off blocks disturbing extraneous light but optimally detects smoke particles. Signal processing with detection algorithms (DA).
The base FDB221 must be ordered separately.

Communication protocol	FDnet
Operating voltage	12... 33 VDC
Quiescent current	180... 230 µA
Ext. alarm indicator	2 without sounder base 1 with sounder base
Operating temperature	-10... +60 °C
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Color	pure white, RAL 9010
Protection category	with base IP43, with base attachment IP44
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	EN54-7, EN54-17
Approval	VdS G204018, LPCB 126ab/02
Dimensions (Ø x H)	100 x 46 mm
Data sheet	007850
Accessories	FDBZ293 Detector locking device FDZ291 Detector dust cap

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Addressable Fire Detectors
C-LINE Intelligent Detectors with Detection Algorithms

Type		Order No.
FDO221	**Smoke detector, FDnet wide spectrum DA (C-LINE) (colored)**	**A5Q00016440**

For the early detection of smoke-generating, flaming and smoldering fires.
Works according to the scattered light principle with one sensor, optical forward scattering. Opto-electronic sampling chamber holds off blocks disturbing extraneous light but optimally detects smoke particles. Signal processing with detection algorithms (DA).
The colored base FDB221 must be ordered separately.

Communication protocol	FDnet
Operating voltage	12... 33 VDC
Quiescent current	180... 230 µA
Ext. alarm indicator	2 without sounder base 1 with sounder base
Operating temperature	-10... +60 °C
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Color	according to customer requirement
Protection category	with base IP43, with base attachment IP44
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	EN54-7, EN54-17
Approval	VdS G204018, LPCB 126ab/02
Dimensions (Ø x H)	100 x 46 mm
Data sheet	009409
Accessories	FDBZ293 Detector locking device FDZ291 Detector dust cap

FDT221	**Heat detector, DA (C-LINE)**	**A5Q00001567**

Monitoring of rooms in which a quick temperature rise is expected in case of fire, or when optical detection is difficult.
Equipped with two redundant heat sensors, so that in case of failure of one sensor, the detector still complies with the highest response class.
Measures the ambient temperature and the temperature in the detector housing, so that a temperature increase can be detected immediately. Signal processing with detection algorithms (DA).
The base FDB221 must be ordered separately.

Communication protocol	FDnet
Operating voltage	12... 33 VDC
Quiescent current	130... 200 µA
Ext. alarm indicator	2 without sounder base
Operating temperature	-10... +50 °C -10... +70 °C depending on the parameterization
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Color	pure white, RAL 9010
Protection category	with base IP43, with base attachment IP44, with base attachment wet IP54
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	EN54-5, EN54-17
Approval	VdS G204020, LPCB 126aa/02
Dimensions (Ø x H)	100 x 46 mm
Data sheet	007850
Accessories	FDBZ293 Detector locking device FDZ291 Detector dust cap

Addressable Fire Detectors
C-LINE Intelligent Detectors with Detection Algorithms

Type		Order No.
FDT221	**Heat detector, DA (C-LINE) (colored)**	**A5Q00016444**

Monitoring of rooms in which a quick temperature rise is expected in case of fire, or when optical detection is difficult.
Equipped with two redundant heat sensors, so that in case of failure of one sensor, the detector still complies with the highest response class.
Measures the ambient temperature and the temperature in the detector housing, so that a temperature increase can be detected immediately. Signal processing with detection algorithms (DA).
The colored base FDB221 must be ordered separately.

Communication protocol	FDnet
Operating voltage	12... 33 VDC
Quiescent current	130... 200 µA
Ext. alarm indicator	2 without sounder base
Operating temperature	-10... +50 °C -10... +70 °C depending on the parameterization
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Color	according to customer requirement
Protection category	with base IP43, with base attachment IP44
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	EN54-5, EN54-17
Approval	VdS G204020, LPCB 126aa/02
Dimensions (Ø x H)	100 x 46 mm
Data sheet	009409
Accessories	FDBZ293 Detector locking device FDZ291 Detector dust cap

Accessories

FDBZ293	**Detector locking device**	**A5Q00005035**

Threaded pin M3x6 (100x) for protection against theft.

FDZ291	**Detector dust cap**	**A5Q00004814**

To cover the detector for protection against dust during construction work.

Color	red
Delivery unit	10 pieces

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Sinteso™ S-LINE – **ASA***technology*™, an innovation that sets new standards.

Sophisticated applications require exceptional technology – and that includes the field of fire detection. The special signal analysis process employed by S-LINE fire detectors is very reliable in preventing false alarms caused by deceptive on-site phenomena, such as machine exhaust gases, industrial dust or steam. And that applies to all S-LINE detectors.

- Unique detection reliability and protection against false alarms thanks to **ASA***technology*™
- Adaptation to process- and time-dependent ambient influences
- Excellent detection response to all types of fire
- Fast and efficient modernization solutions possible
- Combination of S-LINE and C-LINE fire detectors on the FDnet to meet the fire detection requirements of specific applications

Addressable Fire Detectors
S-LINE Intelligent Detectors with ASAtechnology

Type		Order No.
FDOOT241-9	**Multi-sensor smoke detector, neural ASA (S-LINE)**	**A5Q00004813**

For the early detection of flaming fires caused by the combustion of liquid and solid matter, as well as smoldering fires. For the early and reliable fire detection in environments with deceptive phenomena.
Works according to the scattered light principle with two sensors, optical forward and backward scattering. Opto-electronic sampling chamber holds off blocks disturbing extraneous light but optimally detects both dark and light smoke particles. Two additional heat sensors increase the fire detector's immunity to deceptive phenomena. Software can be set to multi-sensor smoke detector, smoke detector or heat detector. Selectable detection behavior thanks to application-specific ASA parameter sets.
Can be used as an addressable or collective device.
The base FDB201 or FDB221 must be ordered separately.

Communication protocol	FDnet or collective with & without current limitation
Operating voltage	FDnet -> 12... 33 VDC collective -> 14... 28 VDC
Quiescent current	in FDnet -> 200... 280 µA collective -> 100... 200 µA
Ext. alarm indicator	2 without sounder base 1 with sounder base
Operating temperature	-25... +70 °C
Permissible air speed	1... 20 m/s
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Color	pure white, RAL 9010
Protection category	with base IP43, with base attachment IP44
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS collective -> CZ10, CS11, BC10, FC10, XC10, FC330A, FC700A, SIGMASYS, BMS, SM80/88/D100
Standard	CEA4021, EN54-5, EN54-7, EN54-17
Approval	VdS G204007
Dimensions (Ø x H)	100 x 46 mm
Data sheet	007005
Accessories	FDBZ293 Detector locking device FDZ291 Detector dust cap

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Addressable Fire Detectors
S-LINE Intelligent Detectors with ASAtechnology

Type		Order No.
FDOOT241-9	**Multi-sensor smoke detector, neural ASA (S-LINE) (colored)**	**A5Q00016443**

For the early detection of flaming fires caused by the combustion of liquid and solid matter, as well as smoldering fires. For the early and reliable fire detection in environments with deceptive phenomena.
Works according to the scattered light principle with two sensors, optical forward and backward scattering. Opto-electronic sampling chamber holds off blocks disturbing extraneous light but optimally detects both dark and light smoke particles. Two additional heat sensors increase the fire detector's immunity to deceptive phenomena. Software can be set to multi-sensor smoke detector, smoke detector or heat detector. Selectable detection behavior thanks to application-specific ASA parameter sets.
Can be used as an addressable or collective device.
The colored base FDB201 or FDB221 must be ordered separately.

Communication protocol	FDnet or collective with & without current limitation
Operating voltage	FDnet -> 12... 33 VDC collective -> 14... 28 VDC
Quiescent current	in FDnet -> 200... 280 µA collective -> 100... 200 µA
Ext. alarm indicator	2 without sounder base 1 with sounder base
Operating temperature	-25... +70 °C
Permissible air speed	1... 20 m/s
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Color	according to customer requirement
Protection category	with base IP43, with base attachment IP44
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS collective -> CZ10, CS11, FC10, XC10, FC330A, FC700A, SIGMASYS, BMS, SM80/88/D100, SRS
Standard	CEA4021, EN54-5, EN54-7, EN54-17
Approval	VdS G204007
Dimensions (Ø x H)	100 x 46 mm
Data sheet	009409
Accessories	FDBZ293 Detector locking device FDZ291 Detector dust cap

Addressable Fire Detectors
S-LINE Intelligent Detectors with ASAtechnology

Type		Order No.
FDOOT241-9M	**Multi-sensor smoke detector and collective base, Migration kit FDOOT241-9 + FDB201**	**A5Q00015955**

For the early detection of flaming fires caused by the combustion of liquid and solid matter, as well as smoldering fires. For the early and reliable fire detection in environments with deceptive phenomena. Works according to the scattered light principle with two sensors, optical forward and backward scattering. Opto-electronic sampling chamber holds off blocks disturbing extraneous light but optimally detects both dark and light smoke particles. Two additional heat sensors increase the fire detector's immunity to deceptive phenomena. Software can be set to multi-sensor smoke detector, smoke detector or heat detector. Selectable detection behavior thanks to application-specific ASA parameter sets.

Communication protocol	FDnet or collective with & without current limitation
Operating voltage	FDnet -> 12... 33 VDC collective -> 14... 28 VDC
Quiescent current	in FDnet -> 200... 280 µA collective -> 100... 200 µA
Ext. alarm indicator	2 without sounder base 1 with sounder base
Operating temperature	-25... +70 °C
Permissible air speed	1... 20 m/s
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Color	pure white, RAL 9010
Protection category	IP43
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS collective -> CZ10, CS11, FC10, XC10, FC330A, FC700A, SIGMASYS, BMS, SM80/88/D100
Standard	CEA4021, EN54-5, EN54-7, EN54-17
Approval	VdS G204007
Dimensions (Ø x H)	100 x 46 mm
Data sheet	007005
Accessories	FDBZ293 Detector locking device FDZ291 Detector dust cap

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Addressable Fire Detectors
S-LINE Intelligent Detectors with ASAtechnology

Type		Order No.
FDO241	**Smoke detector, FDnet wide spectrum ASA (S-LINE)**	**A5Q00004811**

For the early detection of smoke-generating, flaming and smoldering fires.
Works according to the scattered light principle with one sensor, optical forward scattering. Opto-electronic sampling chamber holds off blocks disturbing extraneous light but optimally detects smoke particles.
Selectable detection behavior thanks to application-specific ASA parameter sets.
The base FDB221 must be ordered separately.

Communication protocol	FDnet
Operating voltage	12... 33 VDC
Quiescent current	180... 230 µA
Ext. alarm indicator	2 without sounder base 1 with sounder base
Operating temperature	-10... +60 °C
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Color	pure white, RAL 9010
Protection category	with base IP43, with base attachment IP44
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	EN54-7, EN54-17
Approval	VdS G204017, LPCB 126ab/01
Dimensions (Ø x H)	100 x 46 mm
Data sheet	007005
Accessories	FDBZ293 Detector locking device FDZ291 Detector dust cap

FDO241	**Smoke detector, FDnet wide spectrum ASA (S-LINE) (colored)**	**A5Q00016441**

For the early detection of smoke-generating, flaming and smoldering fires.
Works according to the scattered light principle with one sensor, optical forward scattering. Opto-electronic sampling chamber holds off blocks disturbing extraneous light but optimally detects smoke particles.
Selectable detection behavior thanks to application-specific ASA parameter sets.
The colored base FDB221 must be ordered separately.

Communication protocol	FDnet
Operating voltage	12... 33 VDC
Quiescent current	180... 230 µA
Ext. alarm indicator	2 without sounder base 1 with sounder base
Operating temperature	-10... +60 °C
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Color	according to customer requirement
Protection category	with base IP43, with base attachment IP44
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	EN54-7, EN54-17
Approval	VdS G204017, LPCB 126ab/01
Dimensions (Ø x H)	100 x 46 mm
Data sheet	009409
Accessories	FDBZ293 Detector locking device FDZ291 Detector dust cap

Addressable Fire Detectors
S-LINE Intelligent Detectors with ASAtechnology

Type		Order No.
FDT241	**Heat detector, ASA (S-LINE)**	**A5Q00004812**

Monitoring of rooms in which a quick temperature rise is expected in case of fire, or when optical detection is difficult. Equipped with two redundant heat sensors, so that in case of failure of one sensor, the detector still complies with the highest alarm class. Measures the ambient temperature and the temperature in the detector housing, so that a temperature increase can be detected immediately. Selectable detection behavior thanks to application-specific ASA parameter sets.
The base FDB221 must be ordered separately.

Communication protocol	FDnet
Operating voltage	12... 33 VDC
Quiescent current	130... 200 µA
Ext. alarm indicator	2
Operating temperature	-25... +50 °C -25... +70 °C depending on the parameterization
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Color	pure white, RAL 9010
Protection category	with base IP43, with base attachment IP44, with base attachment wet IP54
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	EN54-5, EN54-17
Approval	VdS G204019, LPCB 126aa/01
Dimensions (Ø x H)	100 x 46 mm
Data sheet	007005
Accessories	FDBZ293 Detector locking device FDZ291 Detector dust cap

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Addressable Fire Detectors
S-LINE Intelligent Detectors with ASAtechnology

Type		Order No.
FDT241	**Heat detector, ASA (S-LINE) (colored)**	**A5Q00016445**

Monitoring of rooms in which a quick temperature rise is expected in case of fire, or when optical detection is difficult. Equipped with two redundant heat sensors, so that in case of failure of one sensor, the detector still complies with the highest alarm class. Measures the ambient temperature and the temperature in the detector housing, so that a temperature increase can be detected immediately. Selectable detection behavior thanks to application-specific ASA parameter sets.
The colored base FDB221 must be ordered separately.

Communication protocol	FDnet
Operating voltage	12... 33 VDC
Quiescent current	130... 200 µA
Ext. alarm indicator	2
Operating temperature	-25... +50 °C -25... +70 °C depending on the parameterization
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Color	according to customer requirement
Protection category	with base IP43, with base attachment IP44
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	EN54-5, EN54-17
Approval	VdS G204019, LPCB 126aa/01
Dimensions (Ø x H)	100 x 46 mm
Data sheet	009409
Accessories	FDBZ293 Detector locking device FDZ291 Detector dust cap

Accessories

FDBZ293	**Detector locking device**	**A5Q00005035**

Threaded pin M3x6 (100x) for protection against theft.

FDZ291	**Detector dust cap**	**A5Q00004814**

To cover the detector for protection against dust during construction work.

Color	red
Delivery unit	10 pieces

Addressable Fire Detectors
Bases for C-LINE and S-LINE Detectors

Type		Order No.
FDB201	**Detector base collective** Base made from impact-proof and scratch-resistant synthetic material. Large opening in the detector base permits the reuse of existing boreholes from older systems. Screwless connecting terminals 'grey'. Space for auxiliary terminals as micro terminals 0.5 mm² or connection terminals 2.5 mm². For fire detectors with collective signal processing. For recess supply wiring. For surface supply wiring, cable diameter up to 6 mm. Cable capacity: 0.2... 1.5 mm² Dimensions (Ø x H): 100 x 22 mm Color: pure white, RAL 9010 Delivery unit: 5 pieces Data sheet: 007775 Accessories: FDBZ291 Designation plate FDBH291 Detector heating DBZ1190-AA Micro terminal 0.5 mm² DBZ1190-AB Connection terminal 2.5 mm² FDB291 Base attachment FDB293 Base attachment wet	**A5Q00003814**
FDB201-AA	**Detector base collective with 1 micro terminal** Base made from impact-proof and scratch-resistant synthetic material. Large opening in the detector base permits the reuse of existing boreholes from older systems. Screwless connecting terminals 'grey' and 1 micro terminal 0.5 mm² for screened cable. Space for additional micro terminals 0.5 mm² or connection terminals 2.5 mm². For fire detectors with collective signal processing. For recess supply wiring. For surface supply wiring, cable diameter up to 6 mm. Cable capacity: 0.2... 1.5 mm² Dimensions (Ø x H): 100 x 22 mm Color: pure white, RAL 9010 Delivery unit: 5 pieces Data sheet: 007775 Accessories: FDBZ291 Designation plate FDBH291 Detector heating DBZ1190-AA Micro terminal 0.5 mm² DBZ1190-AB Connection terminal 2.5 mm² FDB291 Base attachment FDB293 Base attachment wet	**A5Q00012742**

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Addressable Fire Detectors
Bases for C-LINE and S-LINE Detectors

Type		Order No.
FDB201	**Detector base collective (colored)**	**A5Q00016446**

Base made from impact-proof and scratch-resistant synthetic material. Large opening in the detector base permits the reuse of existing boreholes from older systems. Screwless connecting terminals 'grey'. Space for auxiliary terminals as micro terminals 0.5 mm² or connection terminals 2.5 mm².
For fire detectors with collective signal processing.
For recess supply wiring. For surface supply wiring, cable diameter up to 6 mm.

Cable capacity	0.2... 1.5 mm²
Dimensions (Ø x H)	100 x 22 mm mm
Color	according to customer requirement
Delivery unit	5 pieces
Data sheet	009409
Accessories	FDBZ291 Designation plate FDBH291 Detector heating DBZ1190-AA Micro terminal 0.5 mm² DBZ1190-AB Connection terminal 2.5 mm² FDB291 Base attachment

FDB221	**Detector base addressable**	**A5Q00001664**

Base made from impact-proof and scratch-resistant synthetic material. Large opening in the detector base permits the reuse of existing boreholes from older systems. Screwless connecting terminals 'orange'. Space for auxiliary terminals as micro terminals 0.5 mm² or connection terminals 2.5 mm².
For fire detectors with addressable signal processing.
For recess supply wiring. For surface supply wiring, cable diameter up to 6 mm.

Cable capacity	0.2... 1.5 mm²
Dimensions (Ø x H)	100 x 22 mm
Color	pure white, RAL 9010
Delivery unit	5 pieces
Data sheet	007775
Accessories	FDBZ291 Designation plate FDBH291 Detector heating DBZ1190-AA Micro terminal 0.5 mm² DBZ1190-AB Connection terminal 2.5 mm² FDB291 Base attachment FDB293 Base attachment wet

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Addressable Fire Detectors
Bases for C-LINE and S-LINE Detectors

Type		Order No.
FDB221-AA	**Detector base addressable with 1 micro terminal**	**A5Q00012741**

Base made from impact-proof and scratch-resistant synthetic material. Large opening in the detector base permits the reuse of existing bore-holes from older systems. Screwless connecting terminals 'orange' and 1 micro terminal 0.5 mm² for screened cable. Space for additional micro terminals 0.5 mm² or connection terminals 2.5 mm².
For fire detectors with addressable signal processing.
For recess supply wiring. For surface supply wiring, cable diameter up to 6 mm.

Cable capacity	0.2... 1.5 mm²
Dimensions (Ø x H)	100 x 22 mm
Color	pure white, RAL 9010
Delivery unit	5 pieces
Data sheet	007775
Accessories	FDBZ291 Designation plate FDBH291 Detector heating DBZ1190-AA Micro terminal 0.5 mm² DBZ1190-AB Connection terminal 2.5 mm² FDB291 Base attachment FDB293 Base attachment wet

FDB221	**Detector base addressable (colored)**	**A5Q00016447**

Base made from impact-proof and scratch-resistant synthetic material. Large opening in the detector base permits the reuse of existing bore-holes from older systems. Screwless connecting terminals 'orange'. Space for auxiliary terminals as micro terminals 0.5 mm² or connection terminals 2.5 mm².
For fire detectors with addressable signal processing.
For recess supply wiring. For surface supply wiring, cable diameter up to 6 mm.

Cable capacity	0.2... 1.5 mm²
Dimensions (Ø x H)	100 x 22 mm
Color	according to customer requirement
Delivery unit	5 pieces
Data sheet	009409
Accessories	FDBZ291 Designation plate FDBH291 Detector heating DBZ1190-AA Micro terminal 0.5 mm² DBZ1190-AB Connection terminal 2.5 mm² FDB291 Base attachment

Accessories

FDBZ291	**Designation plate**	**A5Q00002621**

To identify the location address, for detector base FDB2x1/-AA and base attachment FDB291.

Dimensions (W x H)	62 x 35 mm
Color	transparent
Delivery unit	10 pieces

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Addressable Fire Detectors
Bases for C-LINE and S-LINE Detectors

Type		Order No.
FDBH291	**Detector heating incl. 2 micro terminals** For the operation of the fire detectors in critical environments, danger of protection against frost formation or moisture condensation, e.g. in cold storage houses, attics, loading ramps, cheese storage cellars, etc. Optimum function of the detector heating is only ensured with the base attachment wet FDB293. Detector heating is fixed to the detector base with a spring-loaded catch. Operating voltage: 20... 30 VDC Operating current: 35... 55 mA Operating temperature: -30... +40 °C Storage temperature: -30... +60 °C	**A5Q00004439**
DBZ1190-AA	**Micro terminal 0.5 mm², 4-pole** As cross-connection in bases for external alarm indicators (AI), cable shielding, for the connection of a power supply unit or other components. Can easily be inserted. Cable capacity: 0.28... 0.5 mm² Dimensions (W x H x D): 10 x 7 x 10 mm Delivery unit: 50 pieces	**BPZ:4677080001**
DBZ1190-AB	**Connection terminal 2.5 mm², 3-pole** As cross-connection in bases for external alarm indicators (AI), cable shielding, for the connection of a power supply unit or other components. Can easily be inserted. Cable capacity: 1... 2.5 mm² Dimensions (W x H x D): 13.5 x 9.5 x 19.5 mm Delivery unit: 50 pieces	**BPZ:4942340001**
FDB291	**Base attachment** For the supply of surface-mounted lines ≥∅6 mm. The detector base FDB2x1/-AA is fixed with a spring-loaded catch. Mounting slots 46... 90 mm Color: pure white, RAL 9010 Dimensions (Ø x H): 120 x 25 mm Delivery unit: 5 pieces Accessories: FDBZ291 Designation plate	**A5Q00001603**
FDB291	**Base attachment (colored)** For the supply of surface-mounted lines ≥∅6 mm. The detector base FDB2x1/-AA is fixed with a spring-loaded catch. Mounting slots 46... 90 mm Color: according to customer requirement Dimensions (Ø x H): 120 x 25 mm Accessories: FDBZ291 Designation plate	**A5Q00016448**

Addressable Fire Detectors
Bases for C-LINE and S-LINE Detectors

Type		Order No.
FDB293	**Base attachment humid with seal** For mounting in humid or wet environments, and when the detector-heating unit is used. 6 break out plugs for screwed cable gland M20. For IP54 applications. Color: pure white, RAL 9010 Dimensions (W x H x D): 135 x 135 x 49 mm Accessories: DBZ1194 Protective cage; FDBZ294 EMC protective cage (only for point detectors); A5Q00004478 Screwed cable gland M20; DBZ1193A Detector designation plate	**A5Q00003945**
	Accessories	
DBZ1194	**Protective cage** To protect the detector from damage. Can only be used together with the base attachment humid. Dimensions (Ø x H): 160 x 126 mm	**BPZ:4677110001**
FDBZ294	**EMC Protective cage** To protect the detector from large electromagnetic fields. Can only be used together with the base attachment humid. Dimensions (Ø x H): 140 x 60/90 mm	**A5Q00023040**
A5Q00004478	**Screwed cable gland M20 x 1.5** The screwed cable gland is for M20 cable feed-through. It enables better IP protection. Delivery unit: 10 pieces	**A5Q00004478**
DBZ1193A	**Detector designation plate** To indicate location address. To number the detectors according to the installation drawings. The font may be up to 10 mm in an area of 60 x 20 mm. The detector designation plate is connected directly to the base (Synova™) or base attachment (Synova™, Sinteso™). Dimensions (W x H): 62 x 52 mm Color: transparent Delivery unit: 10 pieces	**BPZ:4864330001**

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Addressable Manual Call Points
MCP with Direct Operation

Type		Order No.
FDM221	**Manual call point**	**FDM221__**

For the immediate manual actuation of a fire alarm or an extinguishing process. For indoor and outdoor application. For surface- and recess-mounted feed lines in easily accessible places. Direct alarm actuation by pushing in the glass plate. By replacing the glass plate the push button is set back and the device is ready for operation again.
The housing FDMH291-x and the electronic unit FDME221 must be ordered separately.

Communication protocol	FDnet
Operating temperature	-25... +70 °C
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Protection category	IP44
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	EN54-11, EN54-17, BS5839-2
Approval	VdS G203059, LPCB 126ac/01
Dimensions (W x H x D)	87 x 87 x 46.6 mm
Data sheet	007001
Accessories	FDMC291 Protective cover A5Q00004478 Screwed cable gland M20 A5Q00004479 Back nut M20

FDMH291-R	**Housing red with key**	**A5Q00002217**

Housing with key for electronic unit.

Color	red, RAL 3000

FDMH291-Y	**Housing yellow with key**	**A5Q00004979**

Housing with key for electronic unit.

Color	yellow, RAL 1023

Addressable Manual Call Points
MCP with Direct Operation

Type		Order No.
FDMH291-G	**Housing green with key** Housing with key for electronic unit. Color: green, RAL 6024	**A5Q00004981**
FDMH291-B	**Housing blue with key** Housing with key for electronic unit. Color: blue, RAL 5005	**A5Q00004980**
FDME221	**Switching unit with direct alarm actuation** Switching unit with integrated line separator and built-in alarm indicator (LED). Two-colored LED for alarm and test. The switching unit can be placed immediately after connecting the feed line, which is an advantage with line in testing with a line testing device. Operating voltage: 12... 33 VDC Quiescent current: 200 µA Terminal block: 0.28... 1.5 mm^2	**A5Q00002451**
	Accessories	
FDMC291	**Protective cover** The protective cover protects the manual call point from unintentional glass break. For manual call point housings FDMH291-x. Delivery unit: 5 pieces	**A5Q00001644**
A5Q00004478	**Screwed cable gland M20 x 1.5** The screwed cable gland is for M20 cable feed-through. It enables better IP protection. Delivery unit: 10 pieces	**A5Q00004478**

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Addressable Manual Call Points
MCP with Direct Operation

Type		Order No.
A5Q00004479	**Back nut M20** Back nut to screwed cable gland M20 x 1.5. Delivery unit 100 pieces	**A5Q00004479**
FDM224	**Manual call point** For the immediate manual actuation of a fire alarm or an extinguishing process. For indoor and outdoor application. For surface- and recess-mounted feed lines in easily accessible places. Direct alarm actuation by pushing in the glass plate. By replacing the glass plate the push button is set back and the device is ready for operation again. The housing red, yellow, green or blue and the electronic unit must be ordered separately.	**FDM224__**
FDMH293-R	**Housing red, with glass and key** Manual call point housing for the switching unit FDME223, FDME224. Color red, RAL 3000	**A5Q00004023**

Communication protocol	FDnet
Ext. alarm indicator	2
Operating temperature	-25... +70 °C
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Protection category	IP44 (IP64 with protection seal)
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	EN54-11, EN54-17, BS5839-2
Approval	VdS G206123
Dimensions (W x H x D)	134.3 x 134.3 x 43.2 mm
Data sheet	007001
Accessories	DMZ1197-AD Protection seal DMZ1197-AC Protective cover A5Q00004478 Screwed cable gland M20 A5Q00006735 Locking plug M20 (1 hole) A5Q00010055 Locking plug M20 (2 holes)

Addressable Manual Call Points
MCP with Direct Operation

Type		Order No.
FDMH293-Y	**Housing yellow, with glass and key** Manual call point housing for the switching unit FDME223, FDME224. Color: yellow, RAL 1023	**A5Q00004908**
FDMH293-G	**Housing green, with glass and key** Manual call point housing for the switching unit FDME223, FDME224. Color: green, RAL 6024	**A5Q00004911**
FDMH293-B	**Housing blue, with glass and key** Manual call point housing for the switching unit FDME223, FDME224. Color: blue, RAL 5005	**A5Q00004909**
FDME224	**Switching unit with direct alarm actuation** Switching unit with integrated line separator and built-in alarm indicator (LED). Two-colored LED for alarm and test. The switching unit can be placed immediately after connecting the feed line, which is an advantage with line in testing with a line testing device. Operating voltage: 12... 33 VDC Quiescent current: 200 µA Terminal block: 0.28... 1.5 mm²	**A5Q00009392**

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Addressable Manual Call Points
MCP with Direct Operation

Type		Order No.
	Accessories	
DMZ1197-AD	**Protection seal** Protects the manual call point in wet applications. The seal improves the manual call point housing's IP protection. Delivery unit 5 pieces	**BPZ:5470680001**
DMZ1197-AC	**Protective cover** Protects the manual call point from unintentional glass break. Protective cover can be easily fitted directly in the housing cover. Delivery unit 5 pieces	**BPZ:5223550001**
A5Q00004478	**Screwed cable gland M20 x 1.5** The screwed cable gland is for M20 cable feed-through. It enables better IP protection. Delivery unit 10 pieces	**A5Q00004478**
A5Q00006735	**Locking plug M20 x 1.5 (1 hole)** For the manual call point housings, surface-mounted feed lines in the manual call point housing. For applications in dry rooms. Color red, RAL 3000 Delivery unit 10 pieces	**A5Q00006735**
A5Q00010055	**Locking plug M20 x 1.5 (2 holes)** For the manual call point housings, surface-mounted feed lines in the manual call point housing. For applications in dry rooms. Color red, RAL 3000 Delivery unit 10 pieces	**A5Q00010055**

Addressable Manual Call Points
MCP with Direct Operation

Type		Order No.
FDM224H	**Manual call point 'Heavy Duty'**	**FDM224H__**

For the immediate manual actuation of a fire alarm. Direct alarm actuation by pushing in the glass plate. By replacing the glass plate the push button is set back and the device is ready for operation again.
For indoor and outdoor application, equally suited for wet, humid and dusty areas. Only for surface mounted feed lines in easily accessible places, e.g. Tunnels, Industry.
The housing is equipped with one opening at the top and two openings at the bottom for locking plugs and for metal screwed cable glands M20.
For IP64 applications the unused openings must be locked with the V-plug.
The housing FDMH292-R and the electronic unit FDME224 must be ordered separately.

Communication protocol	FDnet
Ext. alarm indicator	2
Operating temperature	-25... +70 °C
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Protection category	IP44 (IP64 with protection seal and V-plug)
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	EN54-11, EN54-17
Approval	VdS G206124
Dimensions (W x H x D)	134.3 x 134.3 x 43.2 mm
Data sheet	008345
Accessories	DMZ1197-AD Protection seal DMZ1197-AC Protective cover A5Q00004478 Screwed cable gland M20 A5Q00010055 V-plug PA M20

FDMH292-R	**Housing red 'Heavy Duty'**	**A5Q00005525**

Housing with glass, 3 pieces locking plugs M20 (2 holes), hexagonal wrench 2.5 mm and label 'Feuerwehr/Brandmelder'.

Color	red, RAL 3000

FDME224	**Switching unit with direct alarm actuation**	**A5Q00009392**

Switching unit with integrated line separator and built-in alarm indicator (LED). Two-colored LED for alarm and test.
The switching unit can be placed immediately after connecting the feed line, which is an advantage with line in testing with a line testing device.

Operating voltage	12... 33 VDC
Quiescent current	200 µA
Terminal block	0.28... 1.5 mm^2

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Addressable Manual Call Points
MCP with Direct Operation

Type		Order No.
	Accessories	
DMZ1197-AD	**Protection seal** Protects the manual call point in wet applications. The seal improves the manual call point housing's IP protection. Delivery unit 5 pieces	**BPZ:5470680001**
DMZ1197-AC	**Protective cover** Protects the manual call point from unintentional glass break. Protective cover can be easily fitted directly in the housing cover. Delivery unit 5 pieces	**BPZ:5223550001**
A5Q00004478	**Screwed cable gland M20 x 1.5** The screwed cable gland is for M20 cable feed-through. It enables better IP protection. Delivery unit 10 pieces	**A5Q00004478**
A5Q00008131	**V-plug PA M20 x 1.5** For IP66 applications for locking the unused openings in the housing FDMH292-R. Color black	**A5Q00008131**

Addressable Manual Call Points
MCP with Direct Operation

Type		Order No.
FDM225-RG	**Manual call point with glass plate**	**A5Q00013434**

For the immediate manual actuation of a fire alarm. For indoor and outdoor application. Direct alarm actuation by pushing in the glass plate. By replacing the glass plate the push button is set back and the device is ready for operation again. For surface- and recess-mounted feed lines in easily accessible places.
For surface mounting the housing base FDMH295-x must be ordered separately.

Communication protocol	FDnet
Operating voltage	13... 33 VDC
Quiescent current	180 µA
Terminal block	0.28... 1.5 mm^2
Operating temperature	-25... +70 °C
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Protection category	IP44
Color	red, RAL 3000
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	EN54-11, EN54-17
Approval	VdS G207092, LPCB 126ap/02
Dimensions (W x H x D)	87 x 87 x 20 mm
Data sheet	009023
Accessories	FDMH295-R housing base FDMH295-S housing base with 2 holes + grommets for cable Ø5 mm FDMC295 Protective cover

FDM225-RG (F)	**Manual call point with glass plate for France**	**A5Q00020274**

For the immediate manual actuation of a fire alarm. For indoor and outdoor application. Direct alarm actuation by pushing in the glass plate. By replacing the glass plate the push button is set back and the device is ready for operation again. For surface- and recess-mounted feed lines in easily accessible places.
For surface mounting the housing base FDMH295-x must be ordered separately.

Communication protocol	FDnet
Operating voltage	13... 33 VDC
Quiescent current	180 µA
Terminal block	0.28... 1.5 mm^2
Operating temperature	-25... +70 °C
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Protection category	IP44
Color	red, RAL 3000
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	EN54-11, EN54-17
Dimensions (W x H x D)	87 x 87 x 20 mm
Data sheet	009023
Accessories	FDMH295-R housing base FDMH295-S housing base with 2 holes + grommets for cable Ø5 mm FDMC295 Protective cover

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Addressable Manual Call Points
MCP with Direct Operation

Type		Order No.
FDM225-RP	**Manual call point with resettable plastic element**	**A5Q00012020**

For the immediate manual actuation of a fire alarm. For indoor and outdoor application. Direct alarm actuation by pushing on the plastic element. The switch is set back with the key and the device is ready for operation again. For surface- and recess-mounted feed lines in easily accessible places.
For surface mounting the housing base FDMH295-x must be ordered separately.

Communication protocol	FDnet
Operating voltage	13... 33 VDC
Quiescent current	180 µA
Terminal block	0.28... 1.5 mm^2
Operating temperature	-25... +70 °C
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Protection category	IP44
Color	red, RAL 3000
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	EN54-11, EN54-17
Approval	VdS G207092, LPCB 126ap/01
Dimensions (W x H x D)	87 x 87 x 20 mm
Data sheet	009023
Accessories	FDMH295-R housing base FDMH295-S housing base with 2 holes + grommets for cable Ø5 mm FDMC295 Protective cover

FDM225-RP (F)	**Manual call point with resettable plastic element for France**	**A5Q00020273**

For the immediate manual actuation of a fire alarm. For indoor and outdoor application. Direct alarm actuation by pushing on the plastic element. The switch is set back with the key and the device is ready for operation again. For surface- and recess-mounted feed lines in easily accessible places.
For surface mounting the housing base FDMH295-x must be ordered separately.

Communication protocol	FDnet
Operating voltage	13... 33 VDC
Quiescent current	180 µA
Terminal block	0.28... 1.5 mm^2
Operating temperature	-25... +70 °C
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Protection category	IP44
Color	red, RAL 3000
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	EN54-11, EN54-17
Dimensions (W x H x D)	87 x 87 x 20 mm
Data sheet	009023
Accessories	FDMH295-R housing base FDMH295-S housing base with 2 holes + grommets for cable Ø5 mm FDMC295 Protective cover

Addressable Manual Call Points
MCP with Direct Operation

Type		Order No.
	Accessories	
FDMH295-R	**Housing base** Housing base for manual call point FDM225-x for surface mounting. Color: red, RAL 3000 Dimensions (W x H x D): 87 x 87 x 33	**A5Q00013437**
FDMH295-S	**Housing base with holes and grommet** Housing base for manual call points FDM225-x with 2 holes on top fitted with grommet for cable Ø5 mm for surface mounting. Color: red, RAL 3000 Dimensions (W x H x D): 87 x 87 x 33	**A5Q00013438**
FDMC295	**Protective cover** The protective cover protects the manual call points FDM225-xx, FDM226-xx from unintentional glass break. Color: transparent Delivery unit: 10 pieces	**A5Q00013440**
FDMG295-S	**Glass plate 'Swedish'** Glass plate for manual call points FDM225/226. Delivery unit: 5 pieces	**A5Q00013444**
FDMP295-S	**Plastic element 'Swedish'** Plastic element for manual call points FDM225/226. Delivery unit: 5 pieces	**A5Q00013447**

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Addressable Manual Call Points
MCP with Direct Operation

Type		Order No.
FDM226-RG	**Manual call point with glass plate incl. housing base**	**A5Q00013435**

For the immediate manual actuation of a fire alarm. For indoor and outdoor application. Direct alarm actuation by pushing in the glass plate. By replacing the glass plate the push button is set back and the device is ready for operation again. For surface- and recess-mounted feed lines in easily accessible places.

Communication protocol	FDnet
Operating voltage	13... 33 VDC
Quiescent current	180 µA
Terminal block	0.28... 1.5 mm^2
Operating temperature	-25... +70 °C
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Protection category	IP67
Color	red, RAL 3000
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	EN54-11, EN54-17
Approval	LPCB 126ap/04
Dimensions (W x H x D)	110 x 110 x 65 mm
Data sheet	009023
Accessories	FDMC295 Protective cover

FDM226-RP	**Manual call point with resettable plastic element incl. housing base**	**A5Q00013436**

For the immediate manual actuation of a fire alarm. For indoor and outdoor application. Direct alarm actuation by pushing on the plastic element. The switch is set back with the key and the device is ready for operation again. For surface- and recess-mounted feed lines in easily accessible places.

Communication protocol	FDnet
Operating voltage	13... 33 VDC
Quiescent current	180 µA
Terminal block	0.28... 1.5 mm^2
Operating temperature	-25... +70 °C
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Protection category	IP67
Color	red, RAL 3000
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	EN54-11, EN54-17
Approval	LPCB 126ap/03
Dimensions (W x H x D)	110 x 110 x 65 mm
Data sheet	009023
Accessories	FDMC295 Protective cover

Accessories

FDMC295	**Protective cover**	**A5Q00013440**

The protective cover protects the manual call points FDM225-xx, FDM226-xx from unintentional glass break.

Color	transparent
Delivery unit	10 pieces

Addressable Manual Call Points
MCP with Indirect Operation

Type		Order No.
FDM223	**Manual call point complete**	**A5Q00008098**

For the immediate manual actuation of a fire alarm or an extinguishing process. For indoor and outdoor application, equally suited for wet, humid and dusty areas. For surface- and recess-mounted feed lines in easily accessible places.
Indirect alarm actuation by smashing in the glass plate and pressing the push button. To replace the glass plate, open the housing door with the key. The push button must be set back before closing the door again.
The manual call point consists of a Housing red with glass, key; switching unit, 2 labels (standard with house and Feuerwehr/Brandmelder) and 2 locking plugs (2 holes)

Communication protocol	FDnet
Operating voltage	12... 33 VDC
Quiescent current	200 µA
Ext. alarm indicator	2
Operating temperature	-25... +70 °C
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Protection category	IP44 (IP64 with protection seal)
Color	red, RAL 3000
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	EN54-11, EN54-17, BS5839-2
Approval	VdS G204002, LPCB 126ac/02
Dimensions (W x H x D)	134.3 x 134.3 x 43.2 mm
Data sheet	007001
Accessories	DMZ1197-AD Protection seal DMZ1197-AC Protective cover A5Q00004478 Screwed cable gland M20

Accessories

DMZ1197-AD	**Protection seal**	**BPZ:5470680001**

Protects the manual call point in wet applications.
The seal improves the manual call point housing's IP protection.

Delivery unit 5 pieces

DMZ1197-AC	**Protective cover**	**BPZ:5223550001**

Protects the manual call point from unintentional glass break. Protective cover can be easily fitted directly in the housing cover.

Delivery unit 5 pieces

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Addressable Manual Call Points
MCP with Indirect Operation

Type		Order No.
A5Q00004478	**Screwed cable gland M20 x 1.5** The screwed cable gland is for M20 cable feed-through. It enables better IP protection. Delivery unit: 10 pieces	**A5Q00004478**
FDM223	**Manual call point** For the immediate manual actuation of a fire alarm or an extinguishing process. For indoor and outdoor application, equally suited for wet, humid and dusty areas. For surface- and recess-mounted feed lines in easily accessible places. Indirect alarm actuation by smashing in the glass plate and pressing the push button. To replace the glass plate, open the housing door with the key. The push button must be set back before closing the door again. The housing FDMH293-x and the electronic unit FDME223 must be ordered separately.	**FDM223__**
FDMH293-R	**Housing red, with glass and key** Manual call point housing for the switching unit FDME223, FDME224.	**A5Q00004023**

Communication protocol	FDnet
Ext. alarm indicator	2
Operating temperature	-25... +70 °C
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Protection category	IP44 (IP64 with protection seal)
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	EN54-11, BS5839-2
Approval	VdS G204002, LPCB 126ac/02
Dimensions (W x H x D)	134.3 x 134.3 x 43.2 mm
Data sheet	007001
Accessories	DMZ1197-AD Protection seal DMZ1197-AC Protective cover A5Q00004478 Screwed cable gland M20 A5Q00006735 Locking plug M20 (1 hole) A5Q00010055 Locking plug M20 (2 holes)

Color	red, RAL 3000

Addressable Manual Call Points
MCP with Indirect Operation

Type		Order No.
FDMH293-Y	**Housing yellow, with glass and key** Manual call point housing for the switching unit FDME223, FDME224. Color: yellow, RAL 1023	**A5Q00004908**
FDMH293-G	**Housing green, with glass and key** Manual call point housing for the switching unit FDME223, FDME224. Color: green, RAL 6024	**A5Q00004911**
FDMH293-B	**Housing blue, with glass and key** Manual call point housing for the switching unit FDME223, FDME224. Color: blue, RAL 5005	**A5Q00004909**
FDME223	**Switching unit with indirect alarm actuation** Switching unit with integrated line separator and built-in alarm indicator (LED). Two-colored LED for alarm and test. The switching unit can be placed immediately after connecting the feed line, which is an advantage with line in testing with a line testing device. Operating voltage: 12... 33 VDC Quiescent current: 200 µA Terminal block: 0.28... 1.5 mm²	**A5Q00003087**

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Addressable Manual Call Points
MCP with Indirect Operation

Type		Order No.
	Accessories	
DMZ1197-AD	**Protection seal** Protects the manual call point in wet applications. The seal improves the manual call point housing's IP protection. Delivery unit 5 pieces	**BPZ:5470680001**
DMZ1197-AC	**Protective cover** Protects the manual call point from unintentional glass break. Protective cover can be easily fitted directly in the housing cover. Delivery unit 5 pieces	**BPZ:5223550001**
A5Q00004478	**Screwed cable gland M20 x 1.5** The screwed cable gland is for M20 cable feed-through. It enables better IP protection. Delivery unit 10 pieces	**A5Q00004478**
A5Q00006735	**Locking plug M20 x 1.5 (1 hole)** For the manual call point housings, surface-mounted feed lines in the manual call point housing. For applications in dry rooms. Color red, RAL 3000 Delivery unit 10 pieces	**A5Q00006735**
A5Q00010055	**Locking plug M20 x 1.5 (2 holes)** For the manual call point housings, surface-mounted feed lines in the manual call point housing. For applications in dry rooms. Color red, RAL 3000 Delivery unit 10 pieces	**A5Q00010055**

Addressable Manual Call Points
MCP with Indirect Operation

Type		Order No.
FDM223H	**Manual call point 'Heavy Duty'**	**FDM223H__**

For the immediate manual actuation of a fire alarm. Indirect alarm actuation by smashing in the glass plate and pressing the push button. To replace the glass plate, open the housing door with the key. The push button must be set back before closing the door again.
For indoor and outdoor application, equally suited for wet, humid and dusty areas. Only for surface mounted feed lines in easily accessible places, e.g. Tunnels, Industry.
The housing is equipped with one opening at the top and two openings at the bottom for locking plugs and for metal screwed cable glands M20.
For IP64 applications the unused openings must be locked with the V-plug.
The housing FDMH292-R and the electronic unit FDME223 must be ordered separately.

Communication protocol	FDnet
Operating temperature	-25... +70 °C
Ext. alarm indicator	2
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Protection category	IP44 (IP64 with protection seal)
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	EN54-11
Approval	VdS G205014, LPCB 126ac/03
Dimensions (W x H x D)	134.3 x 134.3 x 43.2 mm
Data sheet	008345
Accessories	DMZ1197-AD Protection seal DMZ1197-AC Protective cover A5Q00004478 Screwed cable gland M20 A5Q00010055 V-plug PA M20

FDMH292-R — **Housing red 'Heavy Duty'** — **A5Q00005525**

Housing with glass, 3 pieces locking plugs M20 (2 holes), hexagonal wrench 2.5 mm and label 'Feuerwehr/Brandmelder'.

Color	red, RAL 3000

FDME223 — **Switching unit with indirect alarm actuation** — **A5Q00003087**

Switching unit with integrated line separator and built-in alarm indicator (LED). Two-colored LED for alarm and test.
The switching unit can be placed immediately after connecting the feed line, which is an advantage with line in testing with a line testing device.

Operating voltage	12... 33 VDC
Quiescent current	200 µA
Terminal block	0.28... 1.5 mm^2

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Addressable Manual Call Points
MCP with Indirect Operation

Type		Order No.
	Accessories	
DMZ1197-AD	**Protection seal** Protects the manual call point in wet applications. The seal improves the manual call point housing's IP protection. Delivery unit 5 pieces	**BPZ:5470680001**
DMZ1197-AC	**Protective cover** Protects the manual call point from unintentional glass break. Protective cover can be easily fitted directly in the housing cover. Delivery unit 5 pieces	**BPZ:5223550001**
A5Q00004478	**Screwed cable gland M20 x 1.5** The screwed cable gland is for M20 cable feed-through. It enables better IP protection. Delivery unit 10 pieces	**A5Q00004478**
A5Q00008131	**V-plug PA M20 x 1.5** For IP66 applications for locking the unused openings in the housing FDMH292-R. Color black	**A5Q00008131**

Alarm Equipment
Alarm Sounders, Alarm Sounder Beacon

Type		Order No.
FDS221-R	**Alarm sounder red**	**A5Q00004117**

Loud alarming in case of fire alarm, clearly recognizable as danger signal. To be mounted on the wall or on the ceiling along escape routes, corridors, staircases. Only applicable with addressable detector base. Power is supplied via FDnet, no auxiliary power supply required. Monitoring of device status.
For recess supply line. For surface supply line until up to cable 6 mm in diameter, otherwise use the base attachment or the base attachment wet.
The base FDB221 must be ordered separately.

Communication protocol	FDnet
Operating voltage	12... 33 VDC
Operating current	3.5 mA (sound activated)
Quiescent current	250 µA
Terminals	according to detector base
Number of sounds	11
Sound intensity	80... 99 dBA
Ext. alarm indicator	2
Operating temperature	-25... +70 °C
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Color	red, RAL 3000
Protection category	with base FDB221 and base attachment FDB291 mounting on the wall with cable feed from bottom -> IP43, otherwise IP40 with base attachment humid FDB293 -> IP54
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	EN54-3
Approval	VdS G204073
Dimensions (Ø x D)	100 x 43 mm
Data sheet	007026
Accessories	FDBZ293 Detector locking device

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Alarm Equipment
Alarm Sounders, Alarm Sounder Beacon

Type		Order No.
FDS221-W	**Alarm sounder white**	**A5Q00006711**

Loud alarming in case of fire alarm, clearly recognizable as danger signal. To be mounted on the wall or on the ceiling along escape routes, corridors, staircases. Only applicable with addressable detector base. Power is supplied via FDnet, no auxiliary power supply required. Monitoring of device status.
For recess supply line. For surface supply line until up to cable 6 mm in diameter, otherwise use the base attachment or the base attachment wet.
The base FDB221 must be ordered separately.

Communication protocol	FDnet
Operating voltage	12... 33 VDC
Operating current	3.5 mA (sound activated)
Quiescent current	250 µA
Terminals	according to detector base
Number of sounds	11
Sound intensity	80... 99 dBA
Ext. alarm indicator	2
Operating temperature	-25... +70 °C
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Color	pure white, RAL 9010
Protection category	with base FDB221 and base attachment FDB291 mounting on the wall with cable feed from bottom -> IP43, otherwise IP40 with base attachment humid FDB293 -> IP54
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	EN54-3
Approval	VdS G204073
Dimensions (Ø x D)	100 x 43 mm
Data sheet	007026
Accessories	FDBZ293 Detector locking device

Alarm Equipment
Alarm Sounders, Alarm Sounder Beacon

Type		Order No.
FDS229-R	**Alarm sounder beacon, red**	**A5Q00023092**

Acoustic and optical alarming in case of fire alarm, clearly recognizable as danger signal. To be mounted on the wall or on the ceiling along escape routes, corridors, staircases. Only applicable with addressable detector base. Power is supplied via FDnet, no auxiliary power supply required. Monitoring of device status (FS20, from MP1.2).
For recess supply line. For surface supply line until up to cable 6 mm in diameter, otherwise use the base attachment or the base attachment wet.
The base FDB221 must be ordered separately.

Communication protocol	FDnet
Operating voltage	12... 33 VDC
Quiescent current	250 µA
Operating current	3.5 mA (sound activated) 3.5 mA (beacon activated) 7.0 mA (sound and beacon activated)
Terminals	according to detector base
Number of sounds	11
Number of flashing pattern	1 (intermittent)
Sound intensity	80... 99 dBA
Light intensity	1.27... 3.2 cd
Ext. alarm indicator	2
Operating temperature	-25... +65 °C
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Color	transparent red
Protection category	with base FDB221 and base attachment FDB291 mounting on the wall with cable feed from bottom -> IP43, otherwise IP42 with base attachment humid FDB293 -> IP54
System compatibility	FDnet -> FS20
Standard	EN54-3, EN54-17, prEN54-23
Approval	VdS, LPCB pending
Dimensions (Ø x D)	100 x 43 mm
Data sheet	A6V10067776
Accessories	FDBZ293 Detector locking device

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Alarm Equipment
Alarm Sounders, Alarm Sounder Beacon

Type		Order No.
FDS229-A	**Alarm sounder beacon, orange**	**A5Q00023093**

Acoustic and optical alarming in case of fire alarm, clearly recognizable as danger signal. To be mounted on the wall or on the ceiling along escape routes, corridors, staircases. Only applicable with addressable detector base. Power is supplied via FDnet, no auxiliary power supply required. Monitoring of device status (FS20, from MP1.2).
For recess supply line. For surface supply line until up to cable 6 mm in diameter, otherwise use the base attachment or the base attachment wet.
The base FDB221 must be ordered separately.

Communication protocol	FDnet
Operating voltage	12... 33 VDC
Quiescent current	250 µA
Operating current	3.5 mA (sound activated) 3.5 mA (beacon activated) 7.0 mA (sound and beacon activated)
Terminals	according to detector base
Number of sounds	11
Number of flashing pattern	1 (intermittent)
Sound intensity	80... 99 dBA
Light intensity	1.1... 2.8 cd
Ext. alarm indicator	2
Operating temperature	-25... +55 °C
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Color	transparent orange
Protection category	with base FDB221 and base attachment FDB291 mounting on the wall with cable feed from bottom -> IP43, otherwise IP42 with base attachment humid FDB293 -> IP54
System compatibility	FDnet -> FS20
Standard	EN54-3, EN54-17, prEN54-23
Approval	VdS, LPCB pending
Dimensions (Ø x D)	100 x 43 mm
Data sheet	A6V10067776
Accessories	FDBZ293 Detector locking device

Accessories

FDBZ293	**Detector locking device**	**A5Q00005035**

Threaded pin M3x6 (100x) for protection against theft.

Alarm Equipment
Base for Alarm Sounders, Alarm Sounder Beacon

Type		Order No.
FDB221	**Detector base addressable** Base made from impact-proof and scratch-resistant synthetic material. Large opening in the detector base permits the reuse of existing bore-holes from older systems. Screwless connecting terminals 'orange'. Space for auxiliary terminals as micro terminals 0.5 mm² or connection terminals 2.5 mm². For fire detectors with addressable signal processing. For recess supply wiring. For surface supply wiring, cable diameter up to 6 mm. Cable capacity: 0.2... 1.5 mm² Dimensions (Ø x H): 100 x 22 mm Color: pure white, RAL 9010 Delivery unit: 5 pieces Data sheet: 007775 Accessories: FDBZ291 Designation plate FDBH291 Detector heating DBZ1190-AA Micro terminal 0.5 mm² DBZ1190-AB Connection terminal 2.5 mm² FDB291 Base attachment FDB293 Base attachment wet	**A5Q00001664**
FDB221-AA	**Detector base addressable with 1 micro terminal** Base made from impact-proof and scratch-resistant synthetic material. Large opening in the detector base permits the reuse of existing bore-holes from older systems. Screwless connecting terminals 'orange' and 1 micro terminal 0.5 mm² for screened cable. Space for additional micro terminals 0.5 mm² or connection terminals 2.5 mm². For fire detectors with addressable signal processing. For recess supply wiring. For surface supply wiring, cable diameter up to 6 mm. Cable capacity: 0.2... 1.5 mm² Dimensions (Ø x H): 100 x 22 mm Color: pure white, RAL 9010 Delivery unit: 5 pieces Data sheet: 007775 Accessories: FDBZ291 Designation plate FDBH291 Detector heating DBZ1190-AA Micro terminal 0.5 mm² DBZ1190-AB Connection terminal 2.5 mm² FDB291 Base attachment FDB293 Base attachment wet	**A5Q00012741**
	Accessories	
FDBZ291	**Designation plate** To identify the location address, for detector base FDB2x1/-AA and base attachment FDB291. Dimensions (W x H): 62 x 35 mm Color: transparent Delivery unit: 10 pieces	**A5Q00002621**

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Alarm Equipment
Base for Alarm Sounders, Alarm Sounder Beacon

Type		Order No.
DBZ1190-AA	**Micro terminal 0.5 mm², 4-pole** As cross-connection in bases for external alarm indicators (AI), cable shielding, for the connection of a power supply unit or other components. Can easily be inserted. Cable capacity: 0.28... 0.5 mm² Dimensions (W x H x D): 10 x 7 x 10 mm Delivery unit: 50 pieces	**BPZ:4677080001**
DBZ1190-AB	**Connection terminal 2.5 mm², 3-pole** As cross-connection in bases for external alarm indicators (AI), cable shielding, for the connection of a power supply unit or other components. Can easily be inserted. Cable capacity: 1... 2.5 mm² Dimensions (W x H x D): 13.5 x 9.5 x 19.5 mm Delivery unit: 50 pieces	**BPZ:4942340001**
FDB291	**Base attachment** For the supply of surface-mounted lines ≥∅6 mm. The detector base FDB2x1/-AA is fixed with a spring-loaded catch. Mounting slots 46... 90 mm Color: pure white, RAL 9010 Dimensions (Ø x H): 120 x 25 mm Delivery unit: 5 pieces Accessories: FDBZ291 Designation plate	**A5Q00001603**
FDB293	**Base attachment humid with seal** For mounting in humid or wet environments, and when the detector-heating unit is used. 6 break out plugs for screwed cable gland M20. For IP54 applications. Color: pure white, RAL 9010 Dimensions (W x H x D): 135 x 135 x 49 mm Accessories: DBZ1194 Protective cage FDBZ294 EMC protective cage (only for point detectors) A5Q00004478 Screwed cable gland M20 DBZ1193A Detector designation plate	**A5Q00003945**
DBZ1194	**Protective cage** To protect the detector from damage. Can only be used together with the base attachment humid. Dimensions (Ø x H): 160 x 126 mm	**BPZ:4677110001**

Alarm Equipment
Base for Alarm Sounders, Alarm Sounder Beacon

Type		Order No.
A5Q00004478	**Screwed cable gland M20 x 1.5** The screwed cable gland is for M20 cable feed-through. It enables better IP protection. Delivery unit: 10 pieces	**A5Q00004478**
DBZ1193A	**Detector designation plate** To indicate location address. To number the detectors according to the installation drawings. The font may be up to 10 mm in an area of 60 x 20 mm. The detector designation plate is connected directly to the base (Synova™) or base attachment (Synova™, Sinteso™). Dimensions (W x H): 62 x 52 mm Color: transparent Delivery unit: 10 pieces	**BPZ:4864330001**

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Alarm Equipment
Sounder Base for Automatic Detectors

Type		Order No.
FDSB291	**Sounder base (FDnet)**	**A5Q00001647**

The signal base and the detector compose a unit, which already has a base and is mounted on ceilings, e.g. in hotel rooms, hospitals and nursing homes.
The sounder base serves for acoustic alarming in an addressable fire detection system. In case of a fire alarm, the signal base triggers an acoustic signal in parallel to the flashing of the detector LED.
Sound intensity and sounds themselves are adjustable, sounds are synchronized with all alarm devices.
Compatible to the smoke detectors FDOOT and FDO.
No auxiliary power supply required; power is supplied via FDnet.
Screwless connection terminals 'orange' incl. 2 micro terminals.
For recess mounting. For surface mounting, cable diameter up to 6 mm.

Communication protocol	FDnet
Operating voltage	12... 33 VDC
Quiescent current	150 µA
Alarm current	1.2 mA
Cable capacity	0.2... 1.5 mm^2
Number of sounds	11
Sound intensity	80... 88 dBA
Ext. alarm indicator	1
Operating temperature	-25... +70 °C
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Color	pure white, RAL 9010
Protection category	IP43
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	EN54-3
Approval	VdS G204062
Dimensions (W x H x D)	153 x 27 x 93 mm
Data sheet	007026
Accessories	FDBZ291 Designation plate DBZ1190-AA Micro terminal 0.5 mm^2 DBZ1190-AB Connection terminal 2.5 mm^2

Alarm Equipment
Sounder Base for Automatic Detectors

Type		Order No.
FDSB292	**Sounder base (collective)**	**A5Q00013755**

The signal base and the detector compose a unit, which already has a base and is mounted on ceilings, e.g. in hotel rooms, hospitals and nursing homes.
The sounder base FDSB292 serves for acoustic alarming on a collective detector line, when the collective detector line is migrated to FDnet, the buzzer of the sounder base FDSB292 behaves in the same way as the sounder base FDSB291.
In case of a fire alarm, the signal base triggers an acoustic signal in parallel to the flashing of the detector LED.
No auxiliary power supply required; power is supplied via detector line.
Compatible to the smoke detector FDOOT241-9 in collective mode.
Screwless connection terminals 'grey' incl. 2 micro terminals. For recess supply wiring. For surface supply wiring, cable diameter up to 6 mm.

Communication protocol	collective
Operating voltage	12... 33 VDC
Quiescent current	150 µA
Alarm current	1.2 mA
Cable capacity	0.2... 1.5 mm^2
Number of sounds	1
Sound intensity	84 dBA
Ext. alarm indicator	1
Operating temperature	-25... +70 °C
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Color	pure white, RAL 9010
Protection category	IP43
System compatibility	collective -> CZ10, BC10, FC10, XC10, CS11, FC330A, FC700A, SIGMASYS, BMS, SPF,
Standard	EN54-3
Approval	VdS G204062
Dimensions (W x H x D)	153 x 27 x 93 mm
Data sheet	007026
Accessories	FDBZ291 Designation plate DBZ1190-AA Micro terminal 0.5 mm^2 DBZ1190-AB Connection terminal 2.5 mm^2

Accessories

FDBZ291	**Designation plate**	**A5Q00002621**

To identify the location address, for detector base FDB2x1/-AA and base attachment FDB291.

Dimensions (W x H)	62 x 35 mm
Color	transparent
Delivery unit	10 pieces

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Alarm Equipment
Sounder Base for Automatic Detectors

Type		Order No.
DBZ1190-AA	**Micro terminal 0.5 mm², 4-pole**	**BPZ:4677080001**

As cross-connection in bases for external alarm indicators (AI), cable shielding, for the connection of a power supply unit or other components.
Can easily be inserted.

Cable capacity	0.28... 0.5 mm²
Dimensions (W x H x D)	10 x 7 x 10 mm
Delivery unit	50 pieces

DBZ1190-AB	**Connection terminal 2.5 mm², 3-pole**	**BPZ:4942340001**

As cross-connection in bases for external alarm indicators (AI), cable shielding, for the connection of a power supply unit or other components.
Can easily be inserted.

Cable capacity	1... 2.5 mm²
Dimensions (W x H x D)	13.5 x 9.5 x 19.5 mm
Delivery unit	50 pieces

Addressable Modules
Line Separator

Type		Order No.
FDCL221	**Line separator**	**A5Q00004011**

To avoid the breakdown of several stub lines in case of a short circuit, line separators may be inserted. The line separator is used where several stub lines are connected to the FDnet at one point. Retrofitting of existing, collective systems to the addressed Sinteso fire detection system.
The separator is an electronic switch, which is integrated in the FDnet and separates the negative conductor in case of a short circuit, so that the short circuit-free side can continue to be operated. The separator has 2x2 connectors for the detector line. Yellow LED for the status indication signals the short circuit separation.

Communication protocol	FDnet
Operating voltage	12... 33 VDC
Quiescent current	250 µA
Operating temperature	-25... +70 °C
Storage temperature	-30... +80 °C
Relative humidity	≤95 %
Color	transparent
Protection category	IP44
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	EN54-17
Approval	VdS G204030, LPCB 126ae/01
Dimensions (W x H x D)	44 x 47.5 x 10 mm
Data sheet	007065
Accessories	TS35_122 U-rail TS35_288 U-rail

Accessories

TS35_122	**U-rail TS35/7.5/122**	**BPZ:5644780001**

Universal mounting rail (U-rail) enables mounting of various equipment.

Dimensions (W x H)	35 x 122 mm

TS35_288	**U-rail TS35/7.5/288**	**BPZ:5644230001**

Universal mounting rail (U-rail) enables mounting of various equipment.

Dimensions (W x H)	35 x 288 mm

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Addressable Modules
Input Module

Type		Order No.
FDCI222	**Input module**	**A5Q00001984**

For the connection of 4 independent, potential-free make or break contacts for the acknowledgement of technical states (e.g. door or ventilation control) or for alarm actuation (e.g. sprinkler alarm).
4 inputs for potential-free contacts. Input lines are monitored for open line and short circuit (termination resistors). Inputs can be independently configured via the fire detection control unit for status or alarm messages.
Status indication by LED. Power supply via FDnet.
Input module incl. 8 resistors and 2 mounting feeds for TS35 U-rail.

Communication protocol	FDnet
Operating voltage	12... 33 VDC
Quiescent current	0.25... 0.35 mA
Cable capacity	0.2... 1.5 mm^2 (2.5 mm^2)
Operating temperature	-25... +60 °C
Storage temperature	-30... +65 °C
Relative humidity	≤95 %
Color	pure white, RAL 9010/transparent matt
Protection category	IP30 IP54 with aux. housing FDCH291 IP65 with aux. housing FDCH292
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	CEA GEI 1-84, EN54-17, EN54-18
Approval	VdS G204028, LPCB 126ad/01
Dimensions (W x H x D)	130 x 90 x 20 mm
Data sheet	007024
Accessories	TS35_122 U-rail TS35_288 U-rail FDCH291 Housing IP54 FDCH292 Housing IP65

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Addressable Modules
Input/Output Modules

Type		Order No.
FDCIO222	**Input/output module**	**A5Q00002369**

For the connection of 4 independent, potential-free make or break contacts for the acknowledgement of technical states (e.g. door or ventilation control) or for alarm actuation (e.g. sprinkler alarm).
4 inputs for potential-free contacts. Input lines are monitored for open line and short circuit (termination resistors). Inputs can be independently configured via the fire detection control unit for status or alarm messages.
4 outputs with 4 potential-free relay contacts (230 VAC / 4 A) for fire control installations.
Status indication by LED. Power supply via FDnet.
Input/output module incl. 8 resistors and 2 mounting feeds for TS35 U-rail.

Communication protocol	FDnet
Operating voltage	12... 33 VDC
Quiescent current	0.6... 0.75 mA
Relay output (volt-free)	250 VAC, 4 A, max. 1000 VA 30 VDC, 4 A, max. 120 W
Cable capacity	0.2... 1.5 mm^2 (2.5 mm^2)
Operating temperature	-25... +60 °C
Storage temperature	-30... +65 °C
Relative humidity	≤95 %
Color	pure white, RAL 9010/transparent matt
Protection category	IP30 IP54 with aux. housing FDCH291 IP65 with aux. housing FDCH292
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	CEA GEI 1-84, EN54-17, EN54-18
Approval	VdS G204029, LPCB 126ad/02
Dimensions (W x H x D)	130 x 90 x 20 mm
Data sheet	007024
Accessories	TS35_122 U-rail TS35_288 U-rail FDCH291 Housing IP54 FDCH292 Housing IP65

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Addressable Modules
Input/Output Modules

Type		Order No.
FDCIO224	**Input/output module**	**A5Q00018689**

For the VdS interface for extinguishing activating devices. 4 inputs for potential-free contacts. Input lines are monitored for open line and short circuit (termination resistors). Inputs can be independently configured via the fire detection control unit for status or alarm messages. 4 outputs with 4 potential-free relay contacts (230 VAC / 4 A) for the VdS interface for extinguishing controls. Status indication by LED. Power supply via FDnet.
Input/output module incl. 8 resistors and 2 mounting feeds for TS35 U-rail.

Communication protocol	FDnet
Operating voltage	12... 33 VDC
Quiescent current	0.6... 0.75 mA
Relay output (volt-free)	250 VAC, 4 A, max. 1000 VA 30 VDC, 4 A, max. 120 W
Cable capacity	0.2... 1.5 mm^2 (2.5 mm^2)
Operating temperature	-25... +60 °C
Storage temperature	-30... +65 °C
Relative humidity	≤95 %
Color	pure white, RAL 9010/transparent matt
Protection category	IP30 IP54 with aux. housing FDCH291 IP65 with aux. housing FDCH292
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	CEA GEI 1-84, EN54-17, EN54-18
Approval	VdS G207001
Dimensions (W x H x D)	130 x 90 x 20 mm mm
Data sheet	007024
Accessories	TS35_122 U-rail TS35_288 U-rail FDCH291 Housing IP54 FDCH292 Housing IP65

Addressable Modules
Transponder

Type		Order No.
FDCIO223	**Transponder**	**S24218-B102-A1**

For connection of collective fire detectors (GMT/conventional line, GMT/conventional line with shunt-Zener-diode barrier (SB3) for explosion-hazard areas). For monitored controls of e.g. smoke dampers, alarm devices, door magnets and extinguishing activation devices (adhere to country-specific instructions). Monitored signal input for status and alarm messages or for acknowledging technical status.
The 2 in-/outputs can be parameterized autonomously in each case as detector line collective, contact input, control output, control output and input as acknowledgement with selectable monitoring time frame.
Transponder incl. 2 Transzorb diode 20 V, 8 resistors and 2 mounting feeds for TS35 U-rail.

Communication protocol	FDnet
Operating voltage	FDnet 12... 33 VDC
Detector line	collective GMT Siemens/Cerberus, conventional SynoLINE300
Control output	24 VDC ±5 % / 2 A
EOL resistor	3.3 kΩ/680 Ω, 2.7 kΩ/560 Ω, 3.3 kΩ
Cable capacity	0.2... 1.5 mm^2 (2.5 mm^2)
Operating temperature	-5... +60 °C
Storage temperature	-30... +65 °C
Relative humidity	≤95 %
Color	pure white, RAL 9010/transparent matt
Protection category	IP30 IP54 with aux. housing FDCH291 IP65 with aux. housing FDCH292
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	CEA GEI 1-84, EN54-17, EN54-18
Approval	VdS G206054
Dimensions (W x H x D)	132 x 90 x 24 mm
Data sheet	009168
Accessories	TS35_122 U-rail TS35_288 U-rail FDCH291 Housing IP54 FDCH292 Housing IP65

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Addressable Modules
Accessories for Input-, Input/Output Modules, Transponder

Type		Order No.
TS35_122	**U-rail TS35/7.5/122** Universal mounting rail (U-rail) enables mounting of various equipment. Dimensions (W x H): 35 x 122 mm	**BPZ:5644780001**
TS35_288	**U-rail TS35/7.5/288** Universal mounting rail (U-rail) enables mounting of various equipment. Dimensions (W x H): 35 x 288 mm	**BPZ:5644230001**
FDCH291	**Housing for in-/output modules** Housing for the mounting of the in-/output modules for dirty, dry applications. Dimensions (W x H x D): 202 x 109 x 49 mm Color housing/cover: pure white, RAL 9010/transparent matt Protection category: IP54	**A5Q00002395**
FDCH292	**Housing for in-/output modules** Housing with seal for the mounting of the in-/output modules for wet applications. Dimensions (W x H x D): 202 x 109 x 49 mm Color housing/cover: pure white, RAL 9010/transparent matt Protection category: IP65	**A5Q00003942**
BPZ:4074540001	**Auxiliary terminal** For the earthing of screened cables. Up to 4 auxiliary terminals may be installed in the housing FDCH291/292.	**BPZ:4074540001**

Addressable Modules
Accessories for Input-, Input/Output Modules, Transponder

Type		Order No.
A5Q00004478	**Screwed cable gland M20 x 1.5** The screwed cable gland is for M20 cable feed-through. It enables better IP protection. Delivery unit 10 pieces	**A5Q00004478**
A5Q00004479	**Back nut M20** Back nut to screwed cable gland M20 x 1.5. Delivery unit 100 pieces	**A5Q00004479**

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Special Detectors
Infrared Flame Detectors

Type		Order No.
FDF	**Infrared flame detector**	**FDF__**

Infrared flame detector for special applications. The infrared flame detector detects smokeless liquid and gas fires as well as smoke-generating open fires resulting from the combustion of carbonaceous materials such as wood, synthetics, gases, oil products, etc. The LE3 test lamp is used to make a performance check on the infrared flame detector at a distance of up to 10 m.
Can be used as an addressable or collective device.
The detector unit FDF2x1-9 and the base FDFB291 must be ordered separately.

Communication protocol	FDnet or collective
Ext. alarm indicator	2
Relative humidity	≤95 %
Color	pure white, RAL 9010
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS collective -> CZ10, BC10, FC10, XC10, CS11, FC700A, FC330A, SIGMASYS, BMS, SM80/88/D100
Standard	EN54-10, EN54-17
Dimensions (W x H x D)	135 x 135 x 77 mm
Data sheet	007012
Accessories	DFZ1190 Rain hood MV1 Mounting bracket MWV1 Ball and socket joint

FDF221-9	**DA Infrared flame detector unit (1 sensor) (C-LINE)**	**A5Q00003902**

The infrared flame detector is used for simple applications, additional to smoke detectors. Only used without source of interference such as sun, halogen light, and black body radiation.
1 infrared sensor with detection algorithms.
The base FDFB291 must be ordered separately.

Operating voltage	FDnet -> 12... 33 VDC collective -> 16... 28 VDC
Quiescent current	FDnet -> 0.7 mA collective -> 0.5 mA
Operating temperature	-25... +70 °C
Storage temperature	-40... +75 °C
Dimensions (W x H x D)	135 x 135 x 32 mm
Protection category	IP44
Approval	VdS G204009, LPCB 126af/02

Special Detectors
Infrared Flame Detectors

Type		Order No.
FDF241-9	**ASA Infrared flame detector unit (3 sensors) (S-LINE)**	**A5Q00003006**

The infrared flame detector is specially suited to environments where deceptive phenomena such as e.g. sun, radiation or hot engines have to be expected. For large industrial warehouses, hangars for military and civil aircraft, underground tunnels etc.
3 infrared sensors with **ASA***technology*™.
The base FDFB291 must be ordered separately.

Operating voltage	FDnet -> 12... 33 VDC collective -> 14... 28 VDC
Quiescent current	FDnet -> 0.7 mA collective -> 0.5 mA
Operating temperature	-35... +70 °C
Storage temperature	-40... +75 °C
Dimensions (W x H x D)	135 x 135 x 32 mm
Protection category	IP67
Approval	VdS G204010, LPCB 126af/01

FDFB291	**Base for infrared flame detectors FDF2x1-9**	**A5Q00003310**

The base comprises a robust, glass fiber-reinforced, plastic housing which provides the required isolated installation of the detector. The base contains screwless terminals, isolated auxiliary terminals and six M20 cable entry possibilities for cable gland.

Cable capacity	0.2... 1.5 mm² (AWG24... 15)
Dimensions (W x H x D)	135 x 135 x 45 mm
Accessories	A5Q00004478 Screwed cable gland M20

A5Q00004478	**Screwed cable gland M20 x 1.5**	**A5Q00004478**

The screwed cable gland is for M20 cable feed-through. It enables better IP protection.

Delivery unit	10 pieces

Accessories

DFZ1190	**Rain hood**	**BPZ:5302660001**

Rain hood for the infrared flame detector for outdoor applications.

Dimensions (W x H x D)	150 x 165 x 130 mm

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Special Detectors
Infrared Flame Detectors

Type		Order No.
MV1	**Mounting bracket** The mounting bracket for volumetric surveillance, fixes the infrared flame detector at the right angle. Dimensions (W x H x D) 136 x 120 x 120 mm	**BPZ:3950450001**
MWV1	**Ball and socket joint** Ball and socket joint for the infrared flame detector for the orientation to a defined object. Dimensions (H x W x D) 120 x 164 x 118 mm	**BPZ:3674840001**
LE3	**Test lamp for flame detectors** The test lamp is used for testing the operation of all flame detectors (non explosion-hazard areas). It is supplied with all the necessary accessories in a suitable carrying case (incl. charger, without battery). The carrying case also provides a means of storing the test lamp free of dust. The battery AX1204 must be ordered separately. Operating temperature -20... +45 °C Storage temperature -20... +45 °C Battery capacity 1 x 12 V / 7.2 Ah Data sheet 000252	**BPZ:3669510001**

Special Detectors
Linear Smoke Detectors

Type		Order No.
FDL	**ASA Linear smoke detector**	**FDL__**

The linear smoke detector is ideal to monitor extensive areas (detection distance 5... 100 m). Easy wiring to only one side is needed. The linear smoke detector consists of a detector and the base as well as a simple reflector or a sophisticated prism on the opposite side. It is the ideal solution for monitoring of large store-rooms and production workshops, areas with complex roof structures or historically valuable ceilings, covered courtyards, atrium-type buildings and reception halls. Can be used as an addressable or collective device.
The detector FDL241-9 and the base FDLB291 must be ordered separately.

Communication protocol	FDnet or collective
Ext. alarm indicator	1
Operating temperature	-25... +60 °C
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Color	pure white, RAL 9010
Protection category	IP65
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS collective -> CZ10, BC10, FC10, XC10, CS11, FC700A, FC330A, SIGMASYS, BMS, SM80/88/D100
Standard	EN54-12, EN54-17
Approval	VdS G204063, LPCB 126ag/01
Dimensions (W x H x D)	135 x 135 x 115 mm
Data sheet	007017

FDL241-9	**ASA Linear smoke detector unit (S-LINE)**	**A5Q00002298**

The detector consists of a light emitter and a light receiver. The light emitter emits a bundled infrared ray, which is scattered back by the prism-shaped reflector to the light emitter. The receiver converts the received infrared signal in an electric signal, which is evaluated by the microprocessor-controlled electronics. Smoke penetrating the measuring section attenuates the infrared signal. When the signal reaches predefined measuring values, the detector transmits the corresponding danger level to the control unit. Distance measurement for the recognition of foreign matter. The built-in alarm indicator signals the alarm status locally. For various distances, different reflectors are available. The optics can be efficiently adjusted to the reflector by single-handed alignment by means via the adjustment device FDLU291.
The base FDLB291 must be ordered separately.

Operating voltage	FDnet -> 12... 33 VDC collective -> 18... 28 VDC
Quiescent current	1.5 mA
Dimensions (W x H x D)	135 x 135 x 70 mm
Accessories	DLR1191 Reflector for long distance DLR1192 Reflector for middle distance DLR1193 Reflector for short distance DLF1191-AA Short distance filter for 7... 10 m DLF1191-AB Short distance filter for 5... 8 m DLF1191-AC Extraneous light filter DLH1191A Detector heating FDLU291 Adjustment device

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Special Detectors
Linear Smoke Detectors

Type		Order No.
FDLB291	**Base for linear smoke detector FDL241-9** The base comprises a robust, glass fiber-reinforced, plastic housing which provides the required isolated installation of the detector. The base contains screwless terminals and six M20 cable entry possibilities for cable gland. Cable capacity: 0.2... 1.5 mm² (AWG24... 15) Dimensions (W x H x D): 135 x 135 x 45 mm Accessories: A5Q00004478 Screwed cable gland M20	**A5Q00003941**
	Accessories	
DLR1191	**Reflector for long distance (prism)** Retro-reflectors are characterized by the fact that an impinging light ray is reflected in parallel. The reflector does not need to be mounted at a right angle to the light ray. Vibrations and distortions on the wall where the reflector is mounted do not cause any disturbances either. Another advantage lies in the fact that possibly interfering light is also reflected in itself and can thus not reach the receiver. The retro-reflecting prism has the shape of an even pyramid, the lateral surfaces of which are made up from isosceles, right-angled triangles. Light rays coming in through the base surface are completely reflected by the lateral surfaces and are then scattered back through the base. For distances of 20... 100 m. Detector heating: equipped, external power supply 24 VDC is required Dimensions (W x H x D): 135 x 135 x 65 mm Color: pure white, RAL 9010 Accessories: A5Q00004478 Screwed cable gland M20	**BPZ:4787710001**
A5Q00004478	**Screwed cable gland M20 x 1.5** The screwed cable gland is for M20 cable feed-through. It enables better IP protection. Delivery unit: 10 pieces	**A5Q00004478**
DLR1192	**Reflector for middle distance (foil)** The foil consists of micro-prismatic elements, which are formed in a transparent, synthetic resin, sealed and mounted on a plastic base. The reflector foil has the same principal effect (function) as the prism. For distances of 30... 65 m. Dimensions (W x H x D): 200 x 200 x 2.5 mm	**BPZ:4788490001**

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Special Detectors
Linear Smoke Detectors

Type		Order No.
DLR1193	**Reflector for short distance (foil)** The foil consists of micro-prismatic elements, which are formed in a transparent, synthetic resin, sealed and mounted on a plastic base. The reflector foil has the same principal effect (function) as the prism. For distances of 10... 30 m. Dimensions (W x H x D) 100 x 100 x 2.5 mm	**BPZ:4787840001**
DLF1191-AA	**Filter for short distances (7... 10 m)** For short distances between 7 and 10 meters, an additional short distance filter is required. The filter attenuates the detector signal over short distances. The filter can be inserted directly into the detector unit.	**BPZ:4933030001**
DLF1191-AB	**Filter for short distances (5... 8 m)** For short distances between 5 and 8 meters, an additional short distance filter is required. The filter attenuates the detector signal over short distances. The filter can be inserted directly into the detector unit.	**BPZ:4933160001**
DLF1191-AC	**Filter against external light influences** Interferences of the detector by extraneous light are rather rare. However, if such a disturbance should occur in case of a strong impact of extraneous light, the extraneous light filter is available. The filter absorbs disturbing IR rays. The filter can be inserted into the detector (not possible if short distance filter is inserted).	**BPZ:5221480001**
DLH1191A	**Detector heating** Enables operation of a linear smoke detector where there is a risk of condensation. 24 VDC external power supply is necessary. Operating voltage 20... 30 VDC Operating current 30... 50 mA	**BPZ:4787970001**
FDLU291	**Adjustment device set for linear smoke detector** The optics of the linear smoke detector can be efficiently adjusted to the reflector by single-handed alignment via the adjustment device. Box with adjustment device, alarm test filter, visor, magnet, spiral cable, MC-link cable, and battery 9 V, 0.5 Ah.	**A5Q00004905**

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Special Detectors
Linear Smoke Detectors

Type		Order No.
RE10	**Detector tester for linear smoke detectors** For performance check of linear smoke detector. In compliance with the type of detector to be tested, the alarm test filter is inserted in the detector tester. The detector tester is then held in front of the optical parts of the detector (i.e. into the infrared ray). The detector reacts after a few seconds. Alarm test filter contained in FDLU291 or TF04 must be ordered separately. Data sheet: 001164 -> Synova™, AlgoRex; 007228 -> Sinteso™ Accessories: TF04 Alarm test filter; FDUM291 Telescope rod; FDUM292 Telescope rod	**BPZ:3685190001**
TF04	**Alarm test filter (Absorption 77 %)** Alarm test filter for detector tester RE10.	**BPZ:4931090001**

Special Detectors
Air Sampling Smoke Detection

Type		Order No.
FDBZ292	**Air duct sampling chamber**	**A5Q00021362**

The air sampling smoke detection kit is mounted in the ventilation system where air flow measuring devices are usually installed, i.e. where there is no air vortex, change of direction, duct branching, duct narrowing or duct extensions. The distance to the branching, bracket or bend must have 5 x the duct diameter. In order to guarantee smoke detection, mount on the outside of the air duct sampling, after the last air inlet. Accessories for all shapes of duct.
Can be used as an addressable or collective device.
The smoke detectors and bases must be ordered separately.

Smoke detector	-> Sinteso™ FDO241, FDOOT241-8, FDOOT241-9 -> Synova™, AlgoRex DO1103A, DO1104A, DO1133A, DO1153A
Detector base	-> Sinteso™ FDB201, FDB201-AA, FDB221, FDB221-AA -> Synova™, AlgoRex DB1101A, DB1131A, SO620A, DB1151A
Min. duct diameter	100 mm
Permissible air speed	1... 20 m/s
Airflow indicator	≥1 m/s
Ambient temperature, operation	-20... +50 °C
Protection category	IP54
Relative humidity	≤95 %
Approval	VdS pending with smoke detector FDOOT241-8, FDOOT241-9
Dimensions (W x H x D)	146 x 235 x 183 mm
Color	grey, RAL 7001
Data sheet	009728
Accessories	FDBZ292-AA Air flow tube, L = 0.6 m FDBZ292-AB Air flow tube, L = 1.5 m FDBZ292-AC Air flow tube, L = 2.8 m FDBZ292-AD Sealing kit FDBZ292-AF Mounting bracket DBZ1190-AB Connection terminal 1... 2.5 mm^2

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Special Detectors
Air Sampling Smoke Detection

Type		Order No.
FDO241	**Smoke detector, FDnet wide spectrum ASA (S-LINE)**	**A5Q00004811**

For the early detection of smoke-generating, flaming and smoldering fires.
Works according to the scattered light principle with one sensor, optical forward scattering. Opto-electronic sampling chamber holds off blocks disturbing extraneous light but optimally detects smoke particles.
Selectable detection behavior thanks to application-specific ASA parameter sets.
The base FDB221 must be ordered separately.

Communication protocol	FDnet
Operating voltage	12... 33 VDC
Quiescent current	180... 230 µA
Ext. alarm indicator	2 without sounder base 1 with sounder base
Operating temperature	-10... +60 °C
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Color	pure white, RAL 9010
Protection category	with base IP43, with base attachment IP44
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS
Standard	EN54-7, EN54-17
Approval	VdS G204017, LPCB 126ab/01
Dimensions (Ø x H)	100 x 46 mm
Data sheet	007005

Special Detectors
Air Sampling Smoke Detection

Type		Order No.
FDOOT241-9	**Multi-sensor smoke detector, neural ASA (S-LINE)**	**A5Q00004813**

For the early detection of flaming fires caused by the combustion of liquid and solid matter, as well as smoldering fires. For the early and reliable fire detection in environments with deceptive phenomena.
Works according to the scattered light principle with two sensors, optical forward and backward scattering. Opto-electronic sampling chamber holds off blocks disturbing extraneous light but optimally detects both dark and light smoke particles. Two additional heat sensors increase the fire detector's immunity to deceptive phenomena. Software can be set to multi-sensor smoke detector, smoke detector or heat detector. Selectable detection behavior thanks to application-specific ASA parameter sets.
Can be used as an addressable or collective device.
The base FDB201 or FDB221 must be ordered separately.

Communication protocol	FDnet or collective with & without current limitation
Operating voltage	FDnet -> 12... 33 VDC collective -> 14... 28 VDC
Quiescent current	in FDnet -> 200... 280 µA collective -> 100... 200 µA
Ext. alarm indicator	2 without sounder base 1 with sounder base
Operating temperature	-25... +70 °C
Permissible air speed	1... 20 m/s
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Color	pure white, RAL 9010
Protection category	with base IP43, with base attachment IP44
System compatibility	FDnet -> FS20, AlgoRex, SIGMASYS collective -> CZ10, CS11, BC10, FC10, XC10, FC330A, FC700A, SIGMASYS, BMS, SM80/88/D100
Standard	CEA4021, EN54-5, EN54-7, EN54-17
Approval	VdS G204007
Dimensions (Ø x H)	100 x 46 mm
Data sheet	007005

FDB221	**Detector base addressable**	**A5Q00001664**

Base made from impact-proof and scratch-resistant synthetic material. Large opening in the detector base permits the reuse of existing boreholes from older systems. Screwless connecting terminals 'orange'. Space for auxiliary terminals as micro terminals 0.5 mm^2 or connection terminals 2.5 mm^2.
For fire detectors with addressable signal processing.
For recess supply wiring. For surface supply wiring, cable diameter up to 6 mm.

Cable capacity	0.2... 1.5 mm^2
Dimensions (Ø x H)	100 x 22 mm
Color	pure white, RAL 9010
Delivery unit	5 pieces
Data sheet	007775

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Special Detectors
Air Sampling Smoke Detection

Type		Order No.
FDB221-AA	**Detector base addressable with 1 micro terminal**	**A5Q00012741**

Base made from impact-proof and scratch-resistant synthetic material. Large opening in the detector base permits the reuse of existing boreholes from older systems. Screwless connecting terminals 'orange' and 1 micro terminal 0.5 mm² for screened cable. Space for additional micro terminals 0.5 mm² or connection terminals 2.5 mm².
For fire detectors with addressable signal processing.
For recess supply wiring. For surface supply wiring, cable diameter up to 6 mm.

Cable capacity	0.2... 1.5 mm²
Dimensions (Ø x H)	100 x 22 mm
Color	pure white, RAL 9010
Delivery unit	5 pieces
Data sheet	007775

FDB201	**Detector base collective**	**A5Q00003814**

Base made from impact-proof and scratch-resistant synthetic material. Large opening in the detector base permits the reuse of existing boreholes from older systems. Screwless connecting terminals 'grey'. Space for auxiliary terminals as micro terminals 0.5 mm² or connection terminals 2.5 mm².
For fire detectors with collective signal processing.
For recess supply wiring. For surface supply wiring, cable diameter up to 6 mm.

Cable capacity	0.2... 1.5 mm²
Dimensions (Ø x H)	100 x 22 mm
Color	pure white, RAL 9010
Delivery unit	5 pieces
Data sheet	007775

FDB201-AA	**Detector base collective with 1 micro terminal**	**A5Q00012742**

Base made from impact-proof and scratch-resistant synthetic material. Large opening in the detector base permits the reuse of existing boreholes from older systems. Screwless connecting terminals 'grey' and 1 micro terminal 0.5 mm² for screened cable. Space for additional micro terminals 0.5 mm² or connection terminals 2.5 mm².
For fire detectors with collective signal processing.
For recess supply wiring. For surface supply wiring, cable diameter up to 6 mm.

Cable capacity	0.2... 1.5 mm²
Dimensions (Ø x H)	100 x 22 mm
Color	pure white, RAL 9010
Delivery unit	5 pieces
Data sheet	007775

Special Detectors
Air Sampling Smoke Detection

Type		Order No.
	Accessories	
FDBZ292-AA	**Air flow tube 0.6 m** The air flow tube is introduced through a hole drilled into the duct and shortened according to the diameter of the duct. Length 0.6 m	**A5Q00021363**
FDBZ292-AB	**Air flow tube 1.5 m** As FDBZ292-AA but different length. Length 1.5 m	**A5Q00021364**
FDBZ292-AC	**Air flow tube 2.8 m** As FDBZ292-AA but different length. Length 2.8 m	**A5Q00021366**
FDBZ292-AD	**Sealing kit for air flow tubes** One sealing kit is necessary for -> applications using the mounting bracket -> applications using air flow tubes longer than 1 m Two sealing kits are necessary for -> applications using the mounting bracket and air flow tubes longer than 1 m	**A5Q00021367**

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Type		Order No.
FDBZ292-AF	**Mounting bracket** The mounting bracket is used for uneven, round and insulated ducts.	**A5Q00021369**

DBZ1190-AB	**Connection terminal 2.5 mm², 3-pole** As cross-connection in bases for external alarm indicators (AI), cable shielding, for the connection of a power supply unit or other components. Can easily be inserted. Cable capacity: 1... 2.5 mm² Dimensions (W x H x D): 13.5 x 9.5 x 19.5 mm Delivery unit: 50 pieces	**BPZ:4942340001**

Special Detectors
Air Sampling Smoke Detection

Type		Order No.
VESDA LaserFocus VLF-250	**Aspirating smoke detector with display**	**S54333-F4-A1**

The VESDA LaserFOCUS detector is a very early warning smoke detector (Aspirating Smoke Detector ASD) designed to protect small, business-critical environments of less than 250 sqm. The detector works by continually drawing air into sample holes in a pipe network. The air is filtered and passed into a detection chamber where light scattering technology detects the presence of very small amounts of smoke. Detector status information is communicated on the detector display.
The FDnet interface card is integrated.

Operating voltage	18... 30 VDC
Quiescent current	220 mA
Alarm current	295 mA
Display	4 Alarm state indicators Fault and disabled indicators Smoke level indicator
Area coverage	up to 250 m^2
Alarm threshold	0.025 - 2.00 %/m / Info alarm, Pre-alarm 0.025 - 20.00 %/m / Fire 1, Fire 2
Air inlet pipe	Accepts both metric and American standard pipe sizes External diameter 25 mm Internal diameter 21 mm
Pipe length	max. 1 x 25 m (max. 12 holes) max. 2 x 15 m per branch (max. 6 holes per branch)
Relay outputs	3x 2 A / 30 V Pre-alarm, Alarm, Fault
Terminals	0.2... 2.5 mm^2 (30... 12 AWG)
Dimensions (W x H x D)	255 x 185 x 90 mm
Operating temperature	0... +40 °C
Relative humidity	≤95 % (no condensation)
Protection category	IP30
Data sheet	07854

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Special Detectors
Air Sampling Smoke Detection

Type		Order No.
VESDA LaserFocus VLF-500	**Aspirating smoke detector with display**	**S54333-F4-A2**

The VESDA LaserFOCUS detector is a very early warning smoke detector (Aspirating Smoke Detector ASD) designed to protect small, business-critical environments of less than 500 sqm. The detector works by continually drawing air into sample holes in a pipe network. The air is filtered and passed into a detection chamber where light scattering technology detects the presence of very small amounts of smoke. Detector status information is communicated on the detector display.
The FDnet interface card is integrated.

Operating voltage	18... 30 VDC
Quiescent current	410 mA
Alarm current	490 mA
Display	4 Alarm state indicators Fault and disabled indicators Smoke level indicator
Area coverage	up to 500 m^2
Alarm threshold	0.025 - 2.00 %/m / Info alarm, Pre-alarm 0.025 - 20.00 %/m / Fire 1, Fire 2
Air inlet pipe	Accepts both metric and American standard pipe sizes External diameter 25 mm Internal diameter 21 mm
Pipe length	max. 1 x 50 m (max. 24 holes) max. 2 x 30 m per branch (max. 12 holes per branch)
Relay outputs	3x 2 A / 30 V Pre-alarm, Alarm, Fault
Terminals	0.2... 2.5 mm^2 (30... 12 AWG)
Dimensions (W x H x D)	255 x 185 x 90 mm
Operating temperature	0... +40 °C
Relative humidity	≤95 % (no condensation)
Protection category	IP30
Data sheet	10449

Special Detectors
Radio Fire Detection Wireless System

Type		Order No.
FDCW221	**Radio gateway**	**A5Q00020241**

Wireless fire detection is used in situations where the user wants to avoid wires and their installation. In addition it means less interruption of operation and high flexibility for extensions and changes. High transmission reliability by radio transmission in SRD band (Short Range Device), a reserved frequency band with defined user rules. 80 channels are available.
The radio gateway FDCW221 is connected to the detector bus FDnet and communicates with up to 30 radio detectors (smoke detectors and manual call points). Each detector has its own location address.
The additional 9 V battery (must be ordered separately A5Q00004142) safeguards operation during commissioning or when the detector bus is without voltage. MC link connector for commissioning and maintenance with detector exchanger and tester.

Supply voltage	via FDnet, additionally 1x 9 V lithium battery, monitored
Communication protocol	FDnet
Transmitter/receiver antenna	2 (antenna diversity)
Transmitting power	≤5 mW ERP
Transmission distance	max. 40 m in building max. 200 m in open air
Channel width	25 kHz
Radio frequency	868 ... 870 MHz (SRD band)
Ext. alarm indicator	2
Operating temperature	-10... + 55 °C
Dimensions (W x H x D)	58 x 213.5 x 33.4 mm
Color	grey-white, RAL 9002
Protection category	IP40
Relative humidity	≤95 %
Standard	EN54-17, EN54-18
Approval	VdS G207043
Data sheet	010087

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Special Detectors
Radio Fire Detection Wireless System

Type		Order No.
DOW1171/DBW1171	**Radio smoke detector complete**	**S24218-F62-A5**

Uniform response to various types of fires. Dynamic analysis of the sensor signal in the detector itself. Built-in diagnostic algorithms with automatic self-test. High immunity to false alarms and ambient influences. High-quality opto-electronic sensor system. Automatic compensation of soiling. Each radio smoke detector has its own address and can transmit 4 danger levels.
The radio smoke detector is supplied by two 9 V lithium batteries and can be mounted at any position within radio range. In normal operating condition they have a service life of more than 5 years.
The radio smoke detector can be inserted and removed and actuated using the DZ1191, DZ1193 detector exchanger.
The radio smoke detector complete consists of the radio smoke detector DOW1171, the base DBW1171 and 2 batteries (A5Q00004142).

Supply voltage	2x 9 V lithium batteries, separately monitored
Transmitter/receiver antenna	2 (antenna diversity)
Transmitting power	≤5 mW ERP
Transmission distance	max. 40 m in building max. 200 m in open air
Channel width	25 kHz
Radio frequency	868 ... 870 MHz (SRD band)
Operating temperature	-10... + 55 °C
Dimensions (Ø x H)	119 x 73 mm
Color	pure white, RAL 9010
Protection category	IP44
Relative humidity	≤95 %
Standard	EN54-7
Approval	VdS G200112
Data sheet	010087

Special Detectors
Radio Fire Detection Wireless System

Type		Order No.
DOW1171	**Radio smoke detector**	**S24218-F62-A6**

Uniform response to various types of fires. Dynamic analysis of the sensor signal in the detector itself. Built-in diagnostic algorithms with automatic self-test. High immunity to false alarms and ambient influences. High-quality opto-electronic sensor system. Automatic compensation of soiling. Each radio smoke detector has its own address and can transmit 4 danger levels.
The radio smoke detector is supplied by two 9 V lithium batteries (must be ordered separately) and can be mounted at any position within radio range. In normal operating condition they have a service life of more than 5 years.
The radio smoke detector can be inserted and removed and actuated using the DZ1191, DZ1193 detector exchanger.
The base DBW1171 and the batteries (A5Q00004142) must be ordered separately.

Supply voltage	2x 9 V lithium batteries, separately monitored
Transmitter/receiver antenna	2 (antenna diversity)
Transmitting power	≤5 mW ERP
Transmission distance	max. 40 m in building max. 200 m in open air
Channel width	25 kHz
Radio frequency	868 ... 870 MHz (SRD band)
Operating temperature	-10... + 55 °C
Dimensions (Ø x H)	119 x 73 mm
Color	pure white, RAL 9010
Protection category	IP44
Relative humidity	≤95 %
Standard	EN54-7
Approval	VdS G200112
Data sheet	010087

DBW1171	**Base for radio smoke detector**	**S24218-F316-A1**

Base made of impact and scratch-proof plastic and environmentally safe materials. The base is required for installation of radio smoke detector DOW1171.

Dimensions (Ø x H)	118 x 38.7 mm
Color	pure white, RAL 9010
Accessories	DBZ1190 Detector locking device DBZ1193A Detector designation plate DBZ1192 Base attachment, wet application

Accessories

DBZ1190	**Locking device**	**BPZ:4585260001**

To protect the detector from theft.

Delivery unit	50 pieces

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Special Detectors
Radio Fire Detection Wireless System

Type		Order No.
DBZ1193A	**Detector designation plate** To indicate location address. To number the detectors according to the installation drawings. The font may be up to 10 mm in an area of 60 x 20 mm. The detector designation plate is connected directly to the base (Synova™) or base attachment (Synova™, Sinteso™). Dimensions (W x H): 62 x 52 mm Color: transparent Delivery unit: 10 pieces	**BPZ:4864330001**
DBZ1192	**Base attachment for humid environment** For installation in damp and corrosive environments. M20 x 1.5 cable entries are located on the side of the base attachments for easy access. Dimensions (W x H x D): 135 x 135 x 45 mm Color: white, RAL 9010 Protection category: IP44 Accessories: DBZ1194 Protective cage, A5Q00004478 Screwed cable gland M20	**BPZ:4588140001**
DBZ1194	**Protective cage** To protect the detector from damage. Can only be used together with the base attachment humid. Dimensions (Ø x H): 160 x 126 mm	**BPZ:4677110001**
A5Q00004478	**Screwed cable gland M20 x 1.5** The screwed cable gland is for M20 cable feed-through. It enables better IP protection. Delivery unit: 10 pieces	**A5Q00004478**
SMF	**Manual call point** Radio manual call point for the radio fire detection system. Manual call point with indirect alarm actuation by breaking the glass and pressing the push button. The radio module is integrated in the base. The base SMF6120 and the manual call point SMF121 must be ordered separately. Standard: EN54-11 Protection category: IP43 Operating temperature: -10... + 55 °C Dimensions (W x H x D): 125 x 125 x 57 mm Relative humidity: ≤95 % Color: red, RAL 3000 Approval: VdS G203060 Data sheet: 010087	**SMF__**

Special Detectors
Radio Fire Detection Wireless System

Type		Order No.
SMF6120	**Radio base** The radio base is battery-operated and can be mounted at every location within radio range. The radio base consists of a housing including radio electronics and antennas. The two 3.6 V batteries used are inserted here. The batteries must only be inserted in the base during commissioning (address allocation). The batteries V24069-Z112-A1 and the manual call point SMF121 must be ordered separately. Supply voltage: 2 x 3.6 V lithium batteries, separately monitored Transmitter/receiver antenna: 2 (antenna diversity) Transmitting power: ≤5 mW ERP Transmission distance: max. 40 m in building, max. 200 m in open air Channel width: 25 kHz Radio frequency: 868 ... 870 MHz (SRD band)	**S24218-F72-A1**
V24069-Z112-A1	**Lithium battery 3.6 V / 2.1 Ah** For the supply of the radio base SMF6120. Dimensions (Ø x H): 14.5 x 50 mm	**V24069-Z112-A1**
SMF121	**Manual call point** Manual call point with indirect alarm actuation labeled with 'Feuerwehr', compatible with radio base SMF6120. The radio base SMF6120 must be ordered separately.	**V24217-C1214-C201**
SMF121	**Manual call point** Manual call point with indirect alarm actuation labeled with 'Fire alarm', compatible with radio base SMF6120. The radio base SMF6120 must be ordered separately.	**V24217-C1214-V202**

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Special Detectors
Radio Fire Detection Wireless System

Type		Order No.
DZW1171	**Radio test set** Field strength measurements can be carried out in the building to ensure reliable planning. Such measurements can be made using the mobile radio test set DZW1171. Position module A at the location of the radio gateway. It is now possible to check the radio contact at the radio smoke detector position by means of module B. As long as the LED on module B lights up, the transmission of radio signals is ensured. Two 9 V lithium batteries (A5Q00004142) are needed and must be ordered separately.	**BPZ:5762200001**
A5Q00004142	**Lithium brownstone battery 9 V / 1 Ah** For the supply of the detector testers, line tester, radio smoke detector etc. Dimensions (W x H x D) 25 x 48 x 16 mm Delivery unit 10 pieces	**A5Q00004142**

Floor Repeater Panels
Floor Repeater Terminal

Type		Order No.
FT2010-A1	**Floor repeater terminal**	**A5Q00014104**

Small floor repeater operation and display panel with large backlit display with plain text readout (6 lines of 40 characters each) for use with the addressed Sinteso FS20 fire detection system. Design matches all FC20xx fire control panels and FT2040 fire terminals. In total, up to 8 floor repeater terminals can be connected to the FC2020 fire control panel, up to 16 to the FC2040.
The personnel responsible at the customer's premises have access to a clearly structured user interface for customer-specific plain texts to enable exact localization of events. Sections and zones operated and visualized using the floor repeater terminal can be configured. Display of alarms, pre-alarms, technical messages, faults, isolations possible. Acknowledgement and resetting of events. Event text identical with the FC20xx fire control panel or FT2040 fire terminal. Nordic key switch for operating access may be replaced by key switch (Kaba).
Power supply via FDnet, additional 24 V power supply possible.
The floor repeater terminal is an FDnet device and can be operated in loops or stub lines.

Operating voltage	12... 32 VDC
Supply voltage	24... 34 VDC 20... 24 VAC (external input)
Current consumption	5 mA @ 24 V (quiescent current, LCD illumination inactive) 45 mA @ 24 V (max. current, LCD illumination active)
Communication protocol	FDnet
Cable capacity	0.8... 1.5 mm^2
Color	light grey, RAL 7035
Dimensions (W x H x D)	282 x 207 x 79 mm
Operating temperature	-8... +42 °C
Storage temperature	-20... +60 °C
Protection category	IP30
Relative humidity	≤95 % (no condensation)
Standard	EN54-2, EN54-17, EN54-18
System compatibility	FS20
Data sheet	009393
Accessories	FHA2013-A1 Rear (FT201x flat) FTO2005-C1 Key switch (Kaba)

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Floor Repeater Panels
Floor Repeater Display

Type		Order No.
FT2011-A1	**Floor repeater display**	**A5Q00017706**

Small floor repeater display panel with large backlit display with plain text readout (6 lines of 40 characters each) for use with the addressed Sinteso FS20 fire detection system. Design matches all FC20xx fire control panels and FT2040 fire terminals. In total, up to 8 floor repeater displays can be connected to the FC2020 fire control panel, up to 16 to the FC2040.
The personnel responsible at the customer's premises have access to a clearly structured user interface for customer-specific plain texts to enable exact localization of events. Sections and zones operated and visualized using the floor repeater display can be configured. Display of alarms, pre-alarms, technical messages, faults, isolations possible. With the navigation keys an indicated list in the display can be scrolled through. The internal buzzer can be switched off in case of alarm messages. Event text identical with the FC20xx fire control panel or FT2040 fire terminal.
Power supply via FDnet, additional 24 V power supply possible.
The floor repeater display is an FDnet device and can be operated in loops or stub lines.

Operating voltage	12... 32 VDC
Supply voltage	24... 34 VDC 20... 24 VAC (external input)
Current consumption	5 mA @ 24 V (Quiescent current, LCD illumination inactive) 45 mA @ 24 V (max. current, LCD illumination active)
Communication protocol	FDnet
Cable capacity	0.8... 1.5 mm^2
Color	light grey, RAL 7035
Dimensions (W x H x D)	282 x 207 x 79 mm
Operating temperature	-8... +42 °C
Storage temperature	-20... +60 °C
Protection category	IP30
Relative humidity	≤95 % (no condensation)
Standard	EN54-2, EN54-17, EN54-18
System compatibility	FS20
Data sheet	009393
Accessories	FHA2013-A1 Rear (FT201x flat)

FHA2013-A1 — **Rear (FT201x flat)** — **A5Q00016552**

Flat rear when really flat installation is required and the cable is flush mounted. In place of the rear supplied with the floor repeater terminal or floor repeater display.

Dimensions (W x H x D)	271 x 191 x 27.5 mm
Material	Zinc-plated sheet metal

FTO2005-C1 — **Key switch (Kaba)** — **A5Q00010113**

Kaba key switch with mounting accessories and key (Kaba 8 #100), as an option for operating access (operating unit).

Sinteso™ peripheral devices – a choice of specialists for every task.

Loop-powered devices for more efficiency.

Whatever the requirement, the new Sinteso™ family from Siemens has the perfect solution. Its comprehensive range of peripheral devices and accessories offers complete and reliable fire protection. The portfolio includes configurable input/output modules, alarm signaling devices and sounder bases as well as various installation accessories. Moreover, Sinteso provides highest flexibility, as additional devices can be connected any time – even without further components for stubs. And as practically all existing cable networks can be reused, Sinteso also offers maximum efficiency.
For more information, please visit www.siemens.com/sinteso

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Type		Order No.

DJ1191

Alarm indicator, resistor 75 Ω

BPZ:4783280001

The alarm indicator is connected in parallel to automatic fire detectors in order to indicate quickly the source of an alarm signal from detectors, which are not easily accessible or visible. The alarm indicator contains an indicator lamp unit with one respectively two LEDs. They light up as soon as the connected fire detector gives an alarm.
Screwless connection terminals.
The alarm indicator is suitable for door frames.

Operating voltage	5... 8 VDC
Operating current	max. 35 mA
Cable capacity	max. 1.5 mm^2
Operating temperature	-25... +80 °C
Relative humidity	≤95 %
Color	pure white, RAL 9010
Protection category	IP40
Dimensions (W x H x D)	62 x 37 x 17 mm
Data sheet	001520

DJ1192

Alarm indicator, resistor 75 Ω

BPZ:4783310001

The alarm indicator is connected in parallel to automatic fire detectors in order to indicate quickly the source of an alarm signal from detectors, which are not easily accessible or visible. The alarm indicator contains an indicator lamp unit with one respectively two LEDs. They light up as soon as the connected fire detector gives an alarm.
Screwless connection terminals.
The alarm indicator is suitable for wall mounting.

Operating voltage	5... 8 VDC
Operating current	max. 35 mA
Cable capacity	max. 1.5 mm^2
Operating temperature	-25... +80 °C
Relative humidity	≤95 %
Color	pure white, RAL 9010
Protection category	IP40
Dimensions (W x H x D)	85 x 85 x 25 mm
Data sheet	001520
Accessories	AI330 Adapter frame

Accessories

AI330

Adapter frame for alarm indicator

BPZ:3169430001

By means of the additional frame, the alarm indicator can also be used for surface laid conduits or ducts, to increase the loop space and as an adapter for different makes of the box.

Dimensions (W x H x D)	85 x 85 x 16 mm
Delivery unit	10 pieces

Alarm Indicators

Type		Order No.
DJ1193	**Alarm indicator incl. insulating cap**	**BPZ:4876360001**

Indicator lamp to connect in parallel to automatic fire detectors. Made of transparent plastic, the alarm indicator is suitable for installation in door frames, switching panels, ceiling voids or special housings.
The 23 mm Ø mounting hole is drilled by the system owner.
The holder must be fitted with an insulating cap for safety.

Operating voltage	6... 8 VDC
Operating current	max. 35 mA
Color	transparent
Data sheet	Synova™ 007162 Sinteso™ 001520
Accessories	DCA1191 Housing (IP56)

Accessories

DCA1191	**Housing (empty)**	**BPZ:4588560001**

Housing with cover for several applications. The housing offers six M20 cable feed-throughs for screwed cable glands and offers a better IP protection.
The screwed cable gland must be ordered separately.

Dimensions (W x H x D)	135 x 135 x 65 mm
Color	pure white, RAL 9010
Protection category	IP56

BPZ:2473130001	**Washer**	**BPZ:2473130001**

Washer for alarm indicator model recess mounting. The washer can be used for applications in humid rooms.

Dimensions (Ø x D)	23 x 1 mm
Delivery unit	10 pieces

A5Q00004478	**Screwed cable gland M20 x 1.5**	**A5Q00004478**

The screwed cable gland is for M20 cable feed-through. It enables better IP protection.

Delivery unit	10 pieces

DJZ1193	**Alarm indicator housing incl. washer**	**BPZ:5302950001**

For surface mounting in dry areas.
1 alarm indicator can be built into the housing.

Dimensions (W x H x D)	87 x 87 x 64 mm
Color	pure white, RAL 9010
Protection category	IP65

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Type		Order No.
MVH1	**Mounting arm** For mounting of the alarm indicator housing DJZ1193 and detectors in hollow floors. Length 0.29... 0.42 m (pipe clamp 1/2") Delivery unit 2 pieces	**BPZ:3496190001**

Sinteso™ – homogeneous and expandable.

More efficiency throughout the entire life cycle.

Backed by decades of experience in fire protection, the new Sinteso™ family from Siemens comprises everything – from reliable fire detectors, clear control panels to a wide range of peripheral devices. Scalable and versatile, Sinteso is a highly flexible system that meets any requirement. Economy starts right from the simple installation and automatic configuration. Efficiency is also a key factor in the operating phase. Connection to a building management system is possible via the BACnet standard interface. The result? A comprehensive fire protection system with provision for open-ended expansion in the future.
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Explosion-hazard Area Products
Ex-Detectors

Type		Order No.
DO1101A-Ex	**Smoke detector, wide spectrum collective 'Ex'**	**BPZ:5008010001**

For the early warning of smoke-forming, flaming fires and smoldering fires in explosion-hazard areas of zone 1 and 2.
The base DB1101A must be ordered separately.

Operating voltage	17... 24 VDC
Quiescent current	max. 100 µA
Operating temperature	-25... +60 °C
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Ex-classification	II 2 G EEx ib IIC T4 (-25 °C ≤Ta ≤60 °C)
Dimensions (Ø x H)	115 x 51 mm (incl. base)
Color	white, RAL 9010
Approval	PTB 02 ATEX 2135 VdS G296052, LPCB 126am/02
Standard	for fire detectors EN54-7 for explosion-hazard areas EN50014 (IEC60079-0)/ EN50020 (IEC60079-11)
Protection category	IP44
Data sheet	001469

DT1101A-Ex — **Heat detector collective 'Ex'** — **BPZ:4852140001**

For the monitoring of explosion-hazard areas of zone 1 and 2 with a maximum ambient temperature of 50 °C. It is characterized by reliable response behavior, not only in the event of slow temperature rises, but also where the temperature rises are fast.
The base DB1101A must be ordered separately.

Operating voltage	16... 24 VDC
Quiescent current	max. 100 µA
Operating temperature	-25... +50 °C
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Ex-classification	II 2 G EEx ib IIC T4 (-25 °C ≤Ta ≤50 °C)
Dimensions (Ø x H)	115 x 54.5 mm (incl. base)
Color	white, RAL 9010
Approval	PTB 02 ATEX 2097 VdS G296019, LPCB 126an/02
Standard	for fire detectors EN54-5: A1R for explosion-hazard areas EN50014 (IEC60079-0)/ EN50020 (IEC60079-11)
Protection category	IP44
Data sheet	001469

Explosion-hazard Area Products
Ex-Detectors

Type		Order No.
DT1102A-Ex	**Heat detector collective 'Ex'**	**BPZ:4852270001**

For the monitoring of explosion-hazard areas of zone 1 and 2 with a maximum ambient temperature of 70 °C. It is the right heat detector for locations where large temperature fluctuations and high temperatures occur. It continuously measures the ambient temperature and reacts if defined maximum values are exceeded.
The base DB1101A must be ordered separately.

Operating voltage	16... 24 VDC
Quiescent current	max. 100 µA
Operating temperature	-25... +70 °C
Storage temperature	-30... +75 °C
Relative humidity	≤95 %
Ex-classification	II 2 G EEx ib IIC T4 (-25 °C ≤Ta ≤70 °C)
Dimensions (Ø x H)	115 x 54.5 mm (incl. base)
Color	white, RAL 9010
Approval	PTB 02 ATEX 2097 VdS G296019, LPCB 126an/04
Standard	for fire detectors EN54-5: B for explosion-hazard areas EN50014 (IEC60079-0)/ EN50020 (IEC60079-11)
Protection category	IP44
Data sheet	001469

DB1101A — **Base for collective detector series** — **BPZ:4863650001**

Base made of impact and scratch-proof plastic and environmentally safe materials. Integral rubber gasket to protect against draught, dirt and dripping water from above. Screwless terminals for easy installation. Space for auxiliary terminals as micro terminals (0.5 mm^2) and connection terminals (2.5 mm^2). Fits all standard flush-mounted boxes from 55 to 80 mm.

Cable capacity	0.2... 2.5 mm^2
Dimensions (Ø x H)	115 x 21 mm
Protection category	IP44
Color	white, RAL 9010
Delivery unit	6 pieces
Data sheet	001035
Further accessories	DBZ1191 Base attachment for surface mounting DBZ1190-AA Micro terminal 0.5 mm^2 DBZ1190-AB Connection terminal 2.5 mm^2

Accessories

DBZ1191 — **Base attachment for surface mounting** — **BPZ:4540830001**

For feeding in surface wiring and to provide more wire loop space. Bases are mounted using a spring-loaded catch.

Dimensions (Ø x H)	116 x 22 mm
Color	white, RAL 9010
Delivery unit	5 pieces

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Explosion-hazard Area Products
Ex-Detectors

Type		Order No.
DBZ1190-AA	**Micro terminal 0.5 mm², 4-pole**	**BPZ:4677080001**
	As cross-connection in bases for external alarm indicators (AI), cable shielding, for the connection of a power supply unit or other components. Can easily be inserted. Cable capacity 0.28... 0.5 mm² Delivery unit 50 pieces	
DBZ1190-AB	**Connection terminal 2.5 mm², 3-pole**	**BPZ:4942340001**
	As cross-connection in bases for external alarm indicators (AI), cable shielding, for the connection of a power supply unit or other components. Can easily be inserted. Cable capacity 1... 2.5 mm² Delivery unit 50 pieces	
EOL22(Ex)	**Line termination**	**BPZ:5162220001**
	End-of-line unit for collective detection lines or as end-of-line unit within explosion-hazard areas of zones 1 and 2.	

6

Explosion-hazard Area Products
Infrared Flame Detector 'Ex'

Type		Order No.
DF11Ex	**Infrared flame detector collective 'Ex'**	**DF11Ex__**

Connectable to collective systems. Connection to the detection line via the input/output module for galvanic isolation. Infrared flame detector for explosion-hazard areas of zones 1 and 2, for inside and outside applications.
The Stabex HF test lamp is used to make a performance check of the infrared flame detector. It must be held in front of the detector.
The detector unit DF1101-Ex and the base DFB1190 must be ordered separately.

Dimensions (W x H x D)	135 x 135 x 77 mm
Operating temperature	-35... +70 °C
Storage temperature	-40... +75 °C
Relative humidity	≤95 %
Ex-classification	II 2 G EEx ib IIC T4 (-35 °C ≤Ta ≤70 °C)
Color	white, RAL9010
Approval	VdS G299085, PTB 02 ATEX 2161, LPCB 126s/03
Standard	EN54-10 for flame detector EN50014 (IEC60079-0)/ EN50020 (IEC60079-11) for explosion-hazard areas
Protection category	IP67
Data sheet	001744

DF1101-Ex — **Infrared flame detector unit collective 'Ex'** — **BPZ:5166750001**

Flame detector DF1101-Ex intrinsically safe for Ex-protected areas. The infrared flame detector DF1101-Ex is designed to the explosion protection category 'Intrinsic safety' EEx i.
One sensor measures the hot carbon dioxide in a specific flame wavelength; the two other sensors simultaneously measure the interference radiation in other wavelengths. With intelligent signal processing through fuzzy algorithms and wavelet analysis, the DF1101-Ex achieves excellent detection reliability while maintaining the highest immunity to interference radiation and sunlight. In order to safeguard against a possible decision emergency, the detector contains an additional emergency activation channel.
It is suitable for chemical production plants, oil refineries, propane and butane filling installations, for all explosion-hazard areas in which flaming fires involving carbonaceous materials are to be expected.
The base DFB1190 must be ordered separately.

Dimensions (W x H x D)	135 x 135 x 32 mm
Operating voltage	16... 28 VDC
Quiescent current	0.5 mA

DFB1190 — **Base for infrared flame detector** — **BPZ:5165360001**

The base comprises a robust, glass fiber-reinforced, plastic housing which provides the required isolated installation of the detector. The base contains screwless terminals, chokes to protect against EMI, a plug attachment for the detector, six M20 cable entry possibilities.

Cable capacity	0.2... 1.5 mm² (AWG24... 15)
Dimensions (W x H x D)	135 x 135 x 45 mm
Color	white, RAL 9010
Accessories	A5Q00004478 Screwed cable gland M20

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Explosion-hazard Area Products
Infrared Flame Detector 'Ex'

Type		Order No.
A5Q00004478	**Screwed cable gland M20 x 1.5** The screwed cable gland is for M20 cable feed-through. It enables better IP protection. Delivery unit: 10 pieces	**A5Q00004478**
EOL22(Ex)	**Line termination** End-of-line unit for collective detection lines or as end-of-line unit within explosion-hazard areas of zones 1 and 2.	**BPZ:5162220001**
StabexHF	**Test lamp for flame detectors 'Ex'** The test lamp is used to carry out a performance check of intrinsically safety flame detectors in explosion-hazard areas of zone 1 and 2. Operating temperature: -20... +40 °C Storage temperature: -20... +40 °C Battery capacity: 2 x Alkali battery 1.5 V, single-cell UM1 Ex-classification: II 2 G EEx ib e IIC T4 Protection category: IP65 Approval: PTB 98 ATEX 2062 Data sheet: 000252	**BPZ:4620910001**

Explosion-hazard Area Products
Manual Call Point

Type		Order No.
DM1103	**Collective manual call point** The DM1103 is the best priced IP65 upgradable call point. The housing is mounted during the installation work. The electronic unit can be plugged in just before the start up. The electronic unit DMA110xD and the housing DMA1192-xx must be ordered separately. Standard: EN54-11 Protection category: IP54 (IP65 with protection seal and screwed cable gland) Operating temperature: -25... +70 °C Dimensions (W x H x D): 134 x 134 x 43 mm Approval: VdS G295036 Data sheet: 007980 Accessories: DMZ1197-AD Protection seal DMZ1197-AC Protective cover A5Q00004478 Screwed cable gland M20 A5Q00006735 Locking plug M20 (1 hole) A5Q00010055 Locking plug M20 (2 holes) Further accessories: BPZ:5358470001 Label 'avoid electrostatic charching'	**DM1103__**
DMA1192-AA	**Manual call point housing red** Manual call point housing for the DMA11x3. It can easily be upgraded to IP65 with a simple retrofit kit. It also features exchangeable labels to meet customer requirements. The plastic housing offers easy access to the electronic unit for functional tests and maintenance through the front door. The housing can be pre-installed to save time and money during installation. The separately ordered electronic unit is plugged in during commissioning. The access key for the manual call point is included in the package as well as different labels. Color: red, RAL 3000	**BPZ:5222870001**
DMA1103D	**Electronic unit collective (double action)** The electronic unit is a double action device; just break the glass and press the button to activate an alarm. An LED always indicates the status of the manual call point. The electronic unit is plugged into the housing DMA1192-xx during commissioning. Operating voltage: 16... 28 VDC Terminal block: min. 0.28... 1.5 mm^2	**A5Q00004470**
	Accessories	
BPZ:5358470001	**Label 'avoid electrostatic charging' for manual call point in explosion-hazard area.** 	**BPZ:5358470001**

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Explosion-hazard Area Products
Manual Call Point

Type		Order No.
DMZ1197-AD	**Protection seal** Protects the manual call point in wet applications. The seal improves the manual call point housing's IP protection. Delivery unit 5 pieces	**BPZ:5470680001**
DMZ1197-AC	**Protective cover** Protects the manual call point from unintentional glass break. Protective cover can be easily fitted directly in the housing cover. Delivery unit 5 pieces	**BPZ:5223550001**
A5Q00004478	**Screwed cable gland M20 x 1.5** The screwed cable gland is for M20 cable feed-through. It enables better IP protection. Delivery unit 10 pieces	**A5Q00004478**
A5Q00006735	**Locking plug M20 x 1.5 (1 hole)** For the manual call point housings, surface-mounted feed lines in the manual call point housing. For applications in dry rooms. Color red, RAL 3000 Delivery unit 10 pieces	**A5Q00006735**
A5Q00010055	**Locking plug M20 x 1.5 (2 holes)** For the manual call point housings, surface-mounted feed lines in the manual call point housing. For applications in dry rooms. Color red, RAL 3000 Delivery unit 10 pieces	**A5Q00010055**
EOL22(Ex)	**Line termination** End-of-line unit for collective detection lines or as end-of-line unit within explosion-hazard areas of zones 1 and 2.	**BPZ:5162220001**

Explosion-hazard Area Products
Alarm Indicators Ex-Series

Type		Order No.
DJ1191-Ex	**Alarm indicator for door frames**	**BPZ:4783440001**

Alarm indicators are connected to automatic fire detectors in order to indicate quickly the source of an alarm signal from detectors which are not easily accessible or visible.

Operating voltage	4... 5 VDC
Operating current	max. 35 mA (continuous)
Operating temperature	-25... +80 °C
Relative humidity	≤95 %
Terminals	max. 1.5 mm^2
Ex-classification	'simple apparatus' acc. to EN50020 § 5.4 EEx ib IIC T6 (Ta ≤55 °C) / EEx ib IIC T5 (Ta ≤70 °C)
Dimensions (W x H x D)	62 x 37 x 17 mm
Color	white, RAL 9010
Approval	EECS, ESTI
Protection category	IP40
Data sheet	001679

DJ1192-Ex — **Alarm indicator for wall mounting** — **BPZ:4783570001**

Alarm indicators are connected to automatic fire detectors in order to indicate quickly the source of an alarm signal from detectors which are not easily accessible or visible.

Operating voltage	4... 5 VDC
Operating current	max. 35 mA (continuous)
Operating temperature	-25... +80 °C
Relative humidity	≤95 %
Terminals	max. 1.5 mm^2
Ex-classification	'simple apparatus' acc. to EN50020 § 5.4 EEx ib IIC T6 (Ta ≤55 °C) / EEx ib IIC T5 (Ta ≤70 °C)
Dimensions (W x H x D)	85 x 85 x 25 mm
Color	white, RAL 9010
Approval	EECS, ESTI
Protection category	IP40
Data sheet	001679
Accessories	AI330 Adapter frame

Accessories

AI330 — **Adapter frame for alarm indicator** — **BPZ:3169430001**

By means of the additional frame, the alarm indicator can also be used for surface laid conduits or ducts, to increase the loop space and as an adapter for different makes of the box.

Dimensions (W x H x D)	85 x 85 x 16 mm
Delivery unit	10 pieces

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Explosion-hazard Area Products
Alarm Indicators Ex-Series

Type		Order No.
AJUT24-Ex	**Alarm indicator, model for recess mounting**	**BPZ:2785440001**

Made of transparent plastic, the AJUT24-Ex alarm indicator is suitable for installation in door frames, switching panels, ceiling voids or special housings. The 23 mm Ø mounting hole is drilled by the system owner. The holder must be fitted with the insulating cap for safety. For installation in humid rooms the DCA1191, DJZ1193 housings as well as a washer are available (must be ordered separately). Up to 4 alarm indicators can be built into the housing DCA1191.

Operating voltage	1.5 VDC
Operating current	max. 20... 30 mA (continuous)
Operating temperature	-25... +80 °C
Ex-classification	'simple apparatus' acc. to EN50020 § 5.4 EEx ib IIC T6 (Ta ≤55 °C) / EEx ib IIC T5 (Ta ≤70 °C)
Color	transparent plastic
Dimensions (Ø x D)	26 x 51 mm
Approval	EECS, ESTI, PTB
Protection category	IP56 with DCA1191 IP65 with DJZ1193
Data sheet	001679
Accessories	DCA1191 Housing (IP56) BPZ:2473130001 Washer
Further accessories	DJZ1193 Housing (IP65)

Accessories

DCA1191	**Housing (empty)**	**BPZ:4588560001**

Housing with cover for several applications. The housing offers six M20 cable feed-throughs for screwed cable glands and offers a better IP protection.
The screwed cable gland must be ordered separately.

Dimensions (W x H x D)	135 x 135 x 65 mm
Color	pure white, RAL 9010
Protection category	IP56
Accessories	A5Q00004478 Screwed cable gland M20

BPZ:2473130001	**Washer**	**BPZ:2473130001**

Washer for alarm indicator model recess mounting. The washer can be used for applications in humid rooms.

Dimensions (Ø x D)	23 x 1 mm
Delivery unit	10 pieces

A5Q00004478	**Screwed cable gland M20 x 1.5**	**A5Q00004478**

The screwed cable gland is for M20 cable feed-through. It enables better IP protection.

Delivery unit	10 pieces

Explosion-hazard Area Products
Alarm Indicators Ex-Series

Type		Order No.
DJZ1193	**Alarm indicator housing incl. washer** For surface mounting in dry areas. 1 alarm indicator can be built into the housing. Dimensions (W x H x D): 87 x 87 x 64 mm Color: pure white, RAL 9010 Protection category: IP65	**BPZ:5302950001**

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Type		Order No.
DCA1191	**Housing (empty)**	**BPZ:4588560001**

Housing with cover for several applications. The housing offers six M20 cable feed-throughs for screwed cable glands and offers a better IP protection.
The screwed cable gland must be ordered separately.

Dimensions (W x H x D)	135 x 135 x 65 mm
Color	pure white, RAL 9010
Protection category	IP56
Accessories	A5Q00004478 Screwed cable gland M20

Z3I410	**Installation set**	**BPZ:4837660001**

One SB3 shunt Zener diode barrier may be mounted together with support plate Z3I410 in housing DCA1191 with protection category IP56.

SB3	**Shunt Zener diode barrier**	**BPZ:4837400001**

This barrier is needed for an intrinsically safe installation in explosion-hazard areas connected to the in-/output module. This barrier restricts the electrical energy between non-intrinsically safe and intrinsically safe circuits. The installation has to be done according to the national safety regulations. The SB3 has to be mounted into the housing DCA1191 together with the Z3I410 installation set.
Always install shunt Zener diode barriers outside explosion-hazard areas.

Operating voltage	max. 28 VDC
Operating current	max. 100 mA
Type	Stahl 9001/00-280-100-101
Standard	EN50014 (IEC60079-0)/ EN50020 (IEC60079-11)
Data sheet	001222

DBZ1190-AA	**Micro terminal 0.5 mm², 4-pole**	**BPZ:4677080001**

As cross-connection in bases for external alarm indicators (AI), cable shielding, for the connection of a power supply unit or other components.
Can easily be inserted.

Cable capacity	0.28... 0.5 mm²
Delivery unit	50 pieces

Accessories

A5Q00004478	**Screwed cable gland M20 x 1.5**	**A5Q00004478**

The screwed cable gland is for M20 cable feed-through. It enables better IP protection.

Delivery unit	10 pieces

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Explosion-hazard Area Products
Alarm Device

Type		Order No.
DB3	**Alarm device for explosion-hazard areas for zone 1 and 2**	**BPZ:5757970001**

The DB3 flameproof audible alarm device is intended for the use in potentially explosive atmospheres. It has been designed with high ingress protection to cope with harsh environmental conditions.

Operating voltage	12... 48 VDC
Alarm current	max. 380 mA
Volume at 24 V and 1 m	101... 114 dB
Number of sounds	27
Operating temperature	-20... +55 °C
Ex-classification	II 2 G EEx d IIC T5 (-20 °C ≤Ta ≤55 °C)
Terminals	6 x 2.5 mm^2
Dimensions (Ø x D)	137 x 184 mm
Color	red, anti-static, UV stable, glass reinforced polyester
Approval	BAS 00ATEX2097X
Standard	CENELEC, EN 50014, 18
Protection category	IP66/67
Data sheet	009001

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Catching on like wildfire – Sinteso™ products and components.

Fire and security products from Siemens are the obvious choice because they are continually setting new standards in terms of quality, design, reliability, value for money and availability. For more than 150 years now we have been developing solutions for all types of problems, applications and needs, from fire and gas detection through to alert and evacuation systems, consisting of everything from simple conventional systems to complex analog networks. Over the years, our products and components have passed every test to which they have been subjected with flying colors.

Test Equipment
Detector Tester

Type		Order No.
FDUD291	**Detector exchanger** Efficient insertion and removal of Sinteso point detectors. The point detector can be gripped in four turning positions for increased work efficiency. Specially developed springs retain the point detector in the detector extractor. Compatible with the telescope rods FDUM291/292 and the conventional extension rods VR10/11/12/13 and the MP/MT grab rods and extension rods. For all Sinteso point detectors. Data sheet: 007228 Accessories: FDUM291 Telescope rod FDUM292 Telescope rod	**A5Q00003585**

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Test Equipment
Detector Tester

Type		Order No.
FDUD292	**Detector exchanger and tester**	**A5Q00003357**

Efficient insertion and removal of Sinteso point detectors. Commissioning, maintenance, status check and testing of detectors with extensive diagnosis information on site. Polling parameters such as serial ID number. Efficient troubleshooting with detectors, installation and control unit. Update of the device software (Firmware) via PC possible. Compatible with the telescope rods and the conventional extension rods VR10/11/12/13.
For all point detectors, manual call points, alarm sounder (wireless MC-Link). Input module, output module, linear smoke detector via adapter cable FDUD292-A (supplied with the detector exchanger and tester).

Operating voltage	9 VDC
Battery capacity	Alkali -> commercial 9 V Lithium brownstone -> ULTRALIFE U9VL or U9VL-J Capacity 950... 1200 mAh
Operating temperature	-25... +40 °C
Storage temperature	-30... +75 °C (-25... +60 °C with battery)
Relative humidity	≤95 % (no condensation)
Data sheet	007228
Accessories	FDUM291 Telescope rod FDUM292 Telescope rod

Test Equipment
Detector Tester

Type		Order No.
FDUD293	**Intelligent detector tester**	**A5Q00018261**

Efficient insertion and removal of Sinteso point detectors. Testing and activation of detectors. Efficient troubleshooting with detectors, installation and control unit. Update of the device software (Firmware) via PC possible. Compatible with the telescope rods and the conventional extension rods VR10/11/12/13. For all point detectors, manual call points, alarm sounder (wireless MC-Link). Input module, output module, linear smoke detector via adapter cable FDUD292-A (supplied with the detector tester).

Operating voltage	9 VDC
Battery capacity	Alkali -> commercial 9 V Lithium brownstone -> ULTRALIFE U9VL or U9VL-J Capacity 950... 1200 mAh
Operating temperature	-25... +40 °C
Storage temperature	-30... +75 °C (-25... +60 °C with battery)
Relative humidity	≤95 % (no condensation)
Data sheet	007228
Accessories	FDUM291 Telescope rod FDUM292 Telescope rod

A5Q00004142	**Lithium brownstone battery 9 V / 1 Ah**	**A5Q00004142**

For the supply of the detector testers, line tester, radio smoke detector etc.

Dimensions (W x H x D)	25 x 48 x 16 mm
Delivery unit	10 pieces

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Type		Order No.
	Accessories	
FDUM291	**Telescope rod** The three-part telescope with tri-oval tubes serves as an extension for the detector exchanger, detector testers and other applications up to 5 m. Length: 1.6 m extendable to 4.2 m Color: yellow, black	**A5Q00004996**
FDUM292	**Telescope rod** The stable, four-part telescope with round tubes serves as an extension for the detector exchanger, detector testers and other applications up to 8 m. Length: 2.1 m extendable to 7.3 m Color: yellow, black	**A5Q00004997**

Test Equipment
Detector Tester

Type		Order No.
RE6	**Detector tester for smoke detectors** The detector tester (delivered with bellow DZZ1190) is placed over the detector and given a brief push to release the test gas and so simulate the presence of fire aerosols. The detector responds quickly and actuates an alarm. The test gas is free of halogenated chlorofluorocarbons (CFCs). It is not combustible. The extension rod FDUM291/292 and the test gas can REF8, REF8-S must be ordered separately. Data sheet: 001164 -> AlgoRex, Synova™ 007228 -> Sinteso™	**BPZ:3680300001**
RE6T	**Detector tester for heat detectors** This detector tester contains a hot air generator. For the performance check, the tester is pushed over the detector. The hot air released, heats the detector and so actuates an alarm. **Forbidden in electrical switching stations or areas where there is a danger of explosion!** The extension rod FDUM291/292 must be ordered separately. Mains voltage: 220 VAC/50... 60 Hz, ~300 W Operating temperature: 0... +40 °C Data sheet: 001164 -> AlgoRex, Synova™ 007228 -> Sinteso™	**BPZ:3680270001**
REF8	**Test gas can for smoke detectors** REF8 has been developed as an environmentally friendly test gas for the testing of smoke detectors. REF8 can be used in the temperature range of 0... +40 °C in dry or in humid environments. Complies with environmental laws. Protects atmosphere and ozone layer. Use only together with detector tester RE6. Delivery unit: 6 pieces	**A5Q00011687**
REF8-S	**Test gas can for smoke detectors** REF8-S has been developed as environmentally friendly test gas for the testing of smoke detectors. REF8-S can be used in the temperature range of -20... +40 °C in dry or in humid environments. REF8-S remains measurable longer than REF8, and is used for detectors having a longer signal evaluation time. Complies with environmental laws. Protects atmosphere and ozone layer. Use only together with detector tester RE6. Delivery unit: 6 pieces	**A5Q00011688**

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Test Equipment
Detector Tester for Special Detectors

Type		Order No.
StabexHF	**Test lamp for flame detectors 'Ex'** The test lamp is used to carry out a performance check of intrinsically safety flame detectors in explosion-hazard areas of zone 1 and 2. Operating temperature: -20... +40 °C Storage temperature: -20... +40 °C Battery capacity: 2 x Alkali battery 1.5 V, single-cell UM1 Ex-classification: II 2 G EEx ib e IIC T4 Protection category: IP65 Approval: PTB 98 ATEX 2062 Data sheet: 000252	**BPZ:4620910001**
LE3	**Test lamp for flame detectors** The test lamp is used for testing the operation of all flame detectors (non explosion-hazard areas). It is supplied with all the necessary accessories in a suitable carrying case (incl. charger, without battery). The carrying case also provides a means of storing the test lamp free of dust. The battery AX1204 must be ordered separately. Operating temperature: -20... +45 °C Storage temperature: -20... +45 °C Battery capacity: 1 x 12 V / 7.2 Ah Data sheet: 000252	**BPZ:3669510001**
FDLU291	**Adjustment device set for linear smoke detector** The optics of the linear smoke detector can be efficiently adjusted to the reflector by single-handed alignment via the adjustment device. Box with adjustment device, alarm test filter, visor, magnet, spiral cable, MC-link cable, and battery 9 V, 0.5 Ah.	**A5Q00004905**
RE10	**Detector tester for linear smoke detectors** For performance check of linear smoke detector. In compliance with the type of detector to be tested, the alarm test filter is inserted in the detector tester. The detector tester is then held in front of the optical parts of the detector (i.e. into the infrared ray). The detector reacts after a few seconds. Alarm test filter contained in FDLU291 or TF04 must be ordered separately. Data sheet: 001164 -> Synova™, AlgoRex 007228 -> Sintesoᵀᴹ Accessories: TF04 Alarm test filter FDUM291 Telescope rod FDUM292 Telescope rod	**BPZ:3685190001**

Test Equipment
Detector Tester for Special Detectors

Type		Order No.
TF04	**Alarm test filter (Absorption 77 %)** Alarm test filter for detector tester RE10.	**BPZ:4931090001**

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Test Equipment
Line Tester

Type		Order No.
FDUL221	**Line tester**	**A5Q00004397**

The line tester is a universal device for the testing of installed FDnet fire detection lines, when no control unit has been connected yet. For troubleshooting for electricians, installers or service technicians.
Different functions can be polled, e.g. number of devices found, number and place of line errors found, short circuit, open line, ground fault with conductor(s), scrolling from detector to detector, with indication of type and serial number etc. Update of the device software (Firmware) via PC possible.
Power supply via battery or mains adapter.
Line tester incl. line connection set FDUL221-A and power supply set FDUL221-B.

Operating voltage	min. 10, max. 30 VDC Battery 2 x 9 V Mains adapter 240 VAC / 24 VDC, 624 mA
Detection line voltage	FDnet (FS20, AlgoRex) 32 VDC FDnet (SIGMASYS) 28 VDC
Current consumption	depending on number of devices and display illumination
Operating temperature	-25... +40 °C
Storage temperature	-30... +75 °C (-25... +60 °C with battery)
Relative humidity	≤95 % (no condensation)
Data sheet	007228

A5Q00004142	**Lithium brownstone battery 9 V / 1 Ah**	**A5Q00004142**

For the supply of the detector testers, line tester, radio smoke detector etc.

Dimensions (W x H x D)	25 x 48 x 16 mm
Delivery unit	10 pieces

Interface
Adapter for FDnet Devices

Type		Order No.
FDUZ221	**MCL USB adapter**	**A5Q00020131**

The MCL USB adapter is an interface converter for USB to MC link. It can be used to connect FDnet devices to a PC using a serial protocol (MCL). The adapter is used for the firmware update or for operation. The adapter is used for floor repeater display FT2011-A1, floor repeater terminal FT2010-A1, radio gateway FDCW221, detector exchanger and tester FDUD292/293 and for line tester FDUL221 (in the future other FDnet devices possible).
The MC link cable, the USB cable (1.8 m) and a CD with USB driver software are included.

Power supply	via USB
Interface	USB 2.0/1.1 MC link
Operating temperature	-10... +55 °C
Storage temperature	-20... +60 °C
Relative humidity	≤95 %
Dimensions (W x H x D)	100 x 30 x 54 mm
Protection category	IP30
Data sheet	A6V10084591

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Type		Order No.
FA2010-A1	**Battery (12 V, 4.5 Ah)** Rechargeable, sealed lead-acid battery for emergency power supply. 2 batteries must be ordered (system voltage 24 V). Dimensions (W x H x D) 90 x 101 x 70 mm Approval VdS G103032	**A5Q00019674**
FA2003-A1	**Battery (12 V, 7 Ah, VDS)** Rechargeable, sealed lead-acid battery for emergency power supply. 2 batteries must be ordered (system voltage 24 V). Dimensions (W x H x D) 151 x 94 x 65 mm Approval VdS G103032	**A5Q00019353**
AX1204	**Battery (12 V, 7.2 Ah)** Maintenance free, sealed lead-acid batteries. Low rate of self-discharge. Low internal resistance. High long-term stability. High ampere-hour capacity. Dimensions (W x H x D) 152 x 94 x 66 mm	**BPZ:2522560001**
FA2004-A1	**Battery (12 V, 12 Ah, VDS)** Rechargeable, sealed lead-acid battery for emergency power supply. 2 batteries must be ordered (system voltage 24 V). Dimensions (W x H x D) 151 x 95 x 98 mm Approval VdS G103034	**A5Q00019354**
FA2005-A1	**Battery (12 V, 17 Ah, VDS)** Rechargeable, sealed lead-acid battery for emergency power supply. 2 batteries must be ordered (system voltage 24 V). Dimensions (W x H x D) 181 x 167 x 77 mm Approval VdS G103035	**A5Q00019677**

8

Type		Order No.
FA2006-A1	**Battery (12 V, 26 Ah, VDS)** Rechargeable, sealed lead-acid battery for emergency power supply. 2 batteries must be ordered (system voltage 24 V). Dimensions (W x H x D) 166 x 125 x 177 mm Approval VdS G101164	**A5Q00019356**
FA2007-A1	**Battery (12 V, 45 Ah, VDS)** Rechargeable, sealed lead-acid battery for emergency power supply. 2 batteries must be ordered (system voltage 24 V). Dimensions (W x H x D) 197 x 170 x 165 mm Approval VdS G105018	**A5Q00022897**
FA2008-A1	**Battery (12 V, 65 Ah, VDS)** Rechargeable, sealed lead-acid battery for emergency power supply. 2 batteries must be ordered (system voltage 24 V). Dimensions (W x H x D) 348 x 178 x 167 mm Approval VdS G104047	**A5Q00019357**

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Fire Control Panels FC20xx and Operating Terminals FT2040, Event Printer

Type		Order No.
FHA2011-A2	**Cover cap (Sinteso)** Cover with Sinteso™ label. Use as spare part only.	**A5Q00021773**
FHA2011-A1	**Cover cap (unlabeled)** Unlabeled cover. Use as spare part only.	**A5Q00021774**
A5Q00017619	**Thermo printer rolls for Custom Plus-S-0004** Replacement printer rolls (10 rolls) for event printer FTO2001-A1. Use as spare part. Delivery unit 10 pieces	**A5Q00017619**

Conventional Fire Control Panels FC10

Type		Order No.
FCA1001	**Line extension card 4-zones**	**A6E60500020**
FCA1007-B	**Add-on line card** To provide line continuity with diode bases according to British Standard BS5839 Pt1. One unit per 2 lines. Accessory for FC1024-A if used with FC1008/12-B.	**A6E60500027**
FCA1008-F	**VdS card (Germany)** To drive the required VdS peripheral devices (FBF, ÜE and SST).	**A6E60500028**
FCA1009-E	**EVAC module** Evacuation control module. Mounts on FC1008-E.	**A6E60500029**
FCA1010	**Connection set 24-zones** Connection cable from the 12-zone master panel and to zones 13 - 24.	**A6E60500030**
FCA1013	**Universal accessory bag** Consists of: 2 EOL (FCE1002) for sounder control lines 12 EOL resistors 3.9 kΩ 3 cable binder 1 LED diffuser base (16 pins) 1 LED diffuser base (1 pin) 1 Allen key 3 mm for M4 screws 5 eco-fix screws M3x5 4 Allen screws M4x12 4 stainless Allen screws M4x12 4 O-ring 2.90 x 1.78 3 fuses (315 mA, 630 mA,160 mA) 6 mini jumpers 2.54 mm Accessories: FCE1003-B EOL element FCE1004-F EOL element	**A6E60500068**
FCE1001	**EOL resistor 3.9 kΩ (set of 10 pcs.)**	**A6E60500031**
FCE1003-B	**EOL element for head removal monitoring**	**A6E60500033**
FCE1002 	**Termination element, control line** End of line for sounder control lines, as spare part.	**A6E60500032**

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Type		Order No.
FCH1002	Cover for the FC1002-A, -B, -C	A6E60500035
FCH1004	Cover for the FC1004-A, -B, -C	A6E60500036
FCH1004-E	Cover for the FC1004-E	A6E60500037
FCH1008	Cover for the FC1008-A, -B, -C	A6E60500038
FCH1008-D	Cover for the FC1008-D	A6E60500039
FCH1008-E	Cover for the FC1008-E	A6E60500040
FCH1008-F	Cover for the FC1008-F	A6E60500041
FCH1012	Cover for the FC1012-A, -B, -C	A6E60500043
FCH1012-D	Cover for the FC1012-D	A6E60500044
FCH1012-F	Cover for the FC1012-F	A6E60500045
FCH1024	Cover for the FC1024-A	A6E60500046
FCM1002	Main board 2-zones	A6E60500047
FCM1004	Main board 4-zones	A6E60500048

Conventional Fire Control Panels FC10

Type		Order No.
FCM1008	**Main board for 8-zone units**	**A6E60500049**
FCM1008-D	**Main board for 8-zone units (Switzerland)**	**A6E60500050**
FCP1002	**Transformer for 2/4-zone units** The transformer is delivered with mains connecting terminal.	**A6E60500052**
FCP1003	**Transformer for 8/12-zone units** The transformer is delivered with mains connecting terminal. Mounts on FCP1001.	**A6E60500053**
FCP1001	**Power supply card 8/12-zone units**	**A6E60500051**
FCE1004-F	**EOL element for creeping short circuit monitoring**	**A6E60500034**

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Extinguishing Control Panels XC10

Type		Order No.
XCM1001	**Main board** Main board, lower and upper level for XC1001-A, as spare part.	**A5Q00023946**
XCM1001-B	**Main board** Main board, lower and upper level for XC1001-B, as spare part.	**A5Q00025160**
FCP1004-E	**Power supply 3.5 A** Power supply 3.5 A, accessory for all control unit types FC10, or as spare part for FC1008-E and XC10.	**A6E60500054**
XCE1001	**Terminating resistor 3.3 kΩ** Resistors for end of detector lines, as spare part. Delivery unit 10 pieces	**A6E60500065**
XCE1003	**Fuse 2 A** Fuse 2 A for control lines 4 and 5, as spare part. Delivery unit 2 pieces	**A5Q00016960**
FCE1002	**Termination element, control line** End of line for sounder control lines, as spare part.	**A6E60500032**

Extinguishing Control Panels XC10

Type		Order No.
XCH1001	**Cover** Cover with operating unit for XC1001-A, as spare part.	**A6E60500064**
XCH1001-B	**Cover** Cover with operating unit for XC1001-B, as spare part.	**A5Q00018564**

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Manual Call Points

Type		Order No.
FDMG291	**Replacement glass** Replacement glass for manual call point housings FDMH291-x. Delivery unit 10 pieces	**A5Q00002122**
FDMK291	**Cover with key** Spare key with call point front for manual call point housings FDMH291-x.	**A5Q00001643**
DMZ1196-AC	**Spare glass neutral** Easy to replace spare glass for the manual call point housings DMA1192-x, FDMH29x-x. The spare glass is neutral and has no marks. Delivery unit 10 pieces	**BPZ:4942050001**
DMZ1195	**Spare key** The spare key is used for all manual call point housings DMA1192-xx, FDMH293-x. Delivery unit 10 pieces	**BPZ:4851910001**
BPZ:5304150001	**Plate** Only for Germany. Printed on both sides (Front side Feuerwehr / back side Brandmelder) for manual call point housings DMA1192-xx, FDMH29x.	**BPZ:5304150001**
FDMG295	**Glass plate neutral** Glass plate for manual call points FDM225/226. Use as spare part. Delivery unit 5 pieces	**A5Q00013442**

Manual Call Points

Type		Order No.
FDMP295	**Plastic element neutral** Plastic element for manual call points FDM225/226. Use as spare part. Delivery unit 5 pieces	**A5Q00013445**
FDMG295-F	**Glass plate 'French'** Glass plate for manual call points FDM225/226. Use as spare part. Delivery unit 5 pieces	**A5Q00013443**
FDMP295-F	**Plastic element 'French'** Plastic element for manual call points FDM225/226. Use as spare part. Delivery unit 5 pieces	**A5Q00013446**
FDMK295	**Spare key** Key for manual call points FDM225/226. Use as spare part. Delivery unit 10 pieces	**A5Q00013448**

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Input Modules, Input/Output Modules, Alarm Indicator

Type		Order No.
FDCM291	**Mounting feeds for in-/output modules** Installation in range of the in-/output modules with mounting feeds onto top U-rail TS35. Use as spare part. Delivery unit 25 pieces	**A5Q00003855**
BPZ:3048160001	**Insulating cap for alarm indicators** Use as spare part. Delivery unit 20 pieces	**BPZ:3048160001**

Test Equipment

Type		Order No.
FDLU291	**Adjustment device for FDLU291** Adjustment device use only as spare part.	**A5Q00006540**
FDUD292-A	**Adapter cable** MC-Link cable from detector exchanger and tester to the in-/output modules, to the linear smoke detector and other devices (audio stereo cable 1.5 m with direct and bent stereo jack 3.5 mm). Use as spare part for FDUD292, FDUD293, FDUZ221.	**A5Q00004990**
A5Q00009786	**Adapter with lever, screw and nut incl. attachment and bushing screw** Use as spare part to the telescope rods FDUM291and FDUM292.	**A5Q00009786**
A5Q00009787	**Lever with screw and nut** Use as spare part to the telescope rods FDUM291and FDUM292.	**A5Q00009787**
A5Q00009788	**Small flap with screw and nut** Use as spare part to the telescope rod FDUM291.	**A5Q00009788**
A5Q00009789	**Large flap with screw and nut** Use as spare part to the telescope rod FDUM291.	**A5Q00009789**

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Test Equipment

Type		Order No.
FDUL221-A	**Line connection set** Use as spare part for line tester FDUL221.	**A5Q00008436**
FDUL221-B	**Mains adapter set** Use as spare part for line tester FDUL221.	**A5Q00008437**
FDUL221-C	**PC cable (RS232)** Use as spare part for line tester FDUL221.	**A5Q00008438**
BPZ:3679630001	**Halogen lamp 12 V / 50 W** Use as spare part for LE3.	**BPZ:3679630001**

Sinteso™ fire detectors – immune from deception in every environment.

Intelligent solutions for standard and sophisticated applications.

Whether for clean or harsh environments, you require fire detectors to rely on. Sinteso™, the latest fire protection system from Siemens, offers it all. As demanding environments such as industrial plants call for exceptional technology, Sinteso S-LINE detectors use Siemens' unique **ASA***technology*™ to distinguish dependably between deceptive phenomena and fire. While Sinteso C-LINE detectors are the first choice for areas such as IT rooms, hotels or offices. Of course, both can be used on the same FDnet. And should the building structure or usage of a room change, Sinteso detectors can be easily and quickly adjusted to the new requirements.
For more information, please visit www.siemens.com/sinteso

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Fire Control Panels FC20xx and Operating Terminals FT2040 Operating Units, Add-ons, Event Printer

Type		Order No.
FCM2001-A2	**Operating unit** Complete operating unit (support base, keypad, PMI main board, CPU module) without accessories. Use as repair part only.	**A5Q00005168-R**
FCM2002-A2	**Operating unit (+LED ind.)** Complete operating unit (support base, keypad, PMI main board, CPU module) without accessories. Use as repair part only.	**A5Q00013077-R**
FCM2005-A2	**Operating add-on** Operating add-on (complete base) without accessories. Use as repair part only.	**A5Q00015480-R**
FCM2006-A1	**Operating add-on (2xLED ind.)** Operating add-on (complete base) without accessories. Use as repair part only.	**A5Q00021771-R**
FCM2007-A1	**Operating add-on (4xLED ind.)** Operating add-on (complete base) without accessories. Use as repair part only.	**A5Q00021772-R**
FTO2001-A1	**Event printer** Event printer without accessories. Use as repair part only.	**A5Q00010126-R**

Fire Control Panels FC20xx and Operating Terminals FT2040
Expansion Modules

Type		Order No.
FCI2002-A1	**Periphery board (2-loop)** Periphery board (2-loop) without accessories. Use as repair part only.	**A5Q00005545-R**
FCI2004-A1	**Periphery board (4-loop)** Periphery board (4-loop) without accessories. Use as repair part only.	**A5Q00009953-R**
FTI2001-A1	**Fire terminal board** Fire terminal board without accessories. Use as repair part only.	**A5Q00013279-R**
FCI2001-D1	**Fire brigade periphery module** Fire brigade periphery module without accessories. Use as repair part only.	**A5Q00010145-R**

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Type		Order No.
FN2001-A1	**Network module (SAFEDLINK)** Network module (SAFEDLINK) without accessories. Use as repair part only.	**A5Q00012851-R**

Fire Control Panels FC20xx and Operating Terminals FT2040
Power Supplies

Type		Order No.
FP2001-A1	**Power supply (70 W)** Power supply (70 W) without accessories. Use as repair part only.	**A5Q00005568-R**
FP2004-A1	**Power supply (150 W, A)** Power supply (150 W, A) without accessories. Use as repair part only.	**A5Q00020825-R**

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Floor Repeater Panels

Type		Order No.
FT2010-A1	**Floor repeater terminal** Front part of the floor repeater terminal (cover cap, stick-on labels, key-pad) without accessories. Use as repair part only.	**A5Q00014104-R**
FT2011-A1	**Floor repeater display** Front part of the floor repeater display (cover cap, stick-on label, key-pad) without accessories. Use as repair part only.	**A5Q00017706-R**

Repair and Revision
Automatic Fire Detectors for Exchange

Type		Order No.
FDOOT221	**Multi-sensor smoke detector, neural DA (C-LINE) for detector exchange** Use as repair, revision part only.	**A5Q00001566-R**
FDO221	**Smoke detector, FDnet wide spectrum DA (C-LINE) for detector exchange** Use as repair, revision part only.	**A5Q00001565-R**
FDOOT241-9	**Multi-sensor smoke detector, neural ASA (S-LINE) for detector exchange** Use as repair, revision part only.	**A5Q00004813-R**
FDO241	**Smoke detector, FDnet wide spectrum ASA (S-LINE) for detector exchange** Use as repair, revision part only.	**A5Q00004811-R**

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MM8000 – the danger management station for Sinteso™

MM8000 is a powerful danger management station, which runs on a standard Windows PC. The safe MM8000 is focused on easy-to-use operation, supporting guided treatments in emergency situations. It may be used as stand-alone application or as a multi-user client server application.

MM8000 is the ideal management station for the following subsystems:

- Fire safety
- Intrusion protection
- Access control
- Video surveillance
- and other life-safety-relevant equipments

Sinteso™ FC20 panels are connected directly via BACnet/IP to MM8000. Connecting Sinteso to MM8000 adds among other benefits the following remarkable features to the fire detection system:

- Graphics for navigation and alarm localization
- Guided event treatment
- Interactions with other subsystems
- Remote alarm notification
- Scheduled tasks
- History database

MM800 Management Station

Type		Order No.
MM8000xxx	**MM8000 management station**	**MM8000xxx**

The MM8000 danger management station provides a powerful solution for the centralized alarm management and supervision of a wide range of fire safety, security and control systems. It supports specifically fire, gas and intrusion detection, access control, video surveillance and building automation installations.

The MM8000 architecture allows the integration of Siemens fire safety, security and control systems as well as 3rd party solutions via standard interfaces.

Functionality
Complete overview about the actual state of the technical installations in a building at any time.
Homogeneous and intuitive operation of the different subsystems.
Comprehensive guidance and support of the operator in case of an alarm.
Logging of all activities and powerful reporting possibilities.

Advantages
Safety: User guidance in case of an emergency guarantees that the right measures are taken.
Reliability: Based on the concept of autonomous subsystems and distributed control; possibility of redundant configurations.
Flexibility: Can be built and configured to fit the requirements of the customer.
Openness: OPC, BACnet and Modbus (via NK) interfaces for subsystem integration.
Scalability: MM8000 will easily grow to support more subsystems, disciplines and stations.

Features
Comfortable navigation through the system via graphical maps or object trees.
Advanced graphics including AutoCAD.
Automatic and/or manual alarm dispatching via e-mail, SMS and pagers.
Scheduler application for time-based actions.
Configurable interactions between different subsystems.
Macro editor for complex commands.
System security based on Microsoft Windows (combined login).
Flexible configuration of user access rights.
Support of dual monitor configurations.

System requirements	The MM8000 SW runs on a Microsoft Windows PC.
Ordering Information	Contact your local SBT sales support representative for further information.
Data sheet	A6V10074451

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Sinteso™ – a clear overview of a comprehensive system.

The Sinteso™ family provides everything needed for best fire detection – deception-free fire detectors, easy-to-use fire control panels, and a wide range of FDnet-powered devices. And all from one source.

- S-LINE detectors with innovative **ASA***technology*™ for maximum reliability – providing lowest rate of false alarms on the market
- C-LINE detectors – the universal detector range including parameter settings and a forward and backward scattering chamber combined with two heat sensors
- User-friendly and safe operation of control panels thanks to clear and comprehensive menus
- Wide range of additional devices and accessories – from flame detectors to heat and linear smoke detectors, alarm sounders to sounder bases and combined sounder beacons, and many more

Sinteso™ Planning Tools – control panels, network and accessories

Danger management system

The danger management station is connected via BACnet. BACnet is a standardized communications protocol used in building automation. The danger management system is connected to the Ethernet interface of a defined master station (CAP).

Each station that is to be addressed by the danger management station via BACnet must be released by means of the license key (L2).

Connection via Ethernet is made through a station. This station is the CAP (Central Access Point). The CAP assigns the IP addresses and assumes the function of a router. The CAP has no firewall and must be configured directly on the corresponding station.

The Ethernet connection to the fire detection system is a point-to-point connection. It must be operated separately from an existing Ethernet.

SintesoView

Remote access

Remote access provides the option of accessing the system with the remote operation tool SintesoView. Remote access is via Ethernet.

Fire control panel FC2040-AA
Art. no.: A5Q00016100

Fire control panel FC2040-AE
Art. no.: A5Q00016852

FCnet/Ethernet | **BACnet/IP**

FCnet/Ethernet

Four stations (inclusive Central Access Point 'CAP') can be networked simply via Ethernet – a station can also be part of the FCnet/SAFEDLINK. Connection is with a standard commercial Fast-Ethernet cable.

FCnet/SAFEDLINK

Fire control panel FC2020 (2-loop)

The FC2020 is a compact 2-loop fire control panel.
It has the following features:

- One integrated FDnet line card
- Integrated inputs/outputs for peripherals
- Integrated operating unit
- Integrated power supply
- Automatic configuration
- Networkability via FCnet/SAFEDLINK or via Ethernet

Fire control panel FC2020-AZ
Art. no.: A5Q00015550

Fire control panel FC2020-EZ
Art. no.: A5Q00016827

Fire control panel FC2040 (4-loop)

FC2040 is a 4-loop fire control panel.
It has the following features:

- Two integrated FDnet line cards
- Integrated inputs/outputs for peripherals
- Integrated operating unit
- Integrated power supply
- Automatic configuration
- Networkability via FCnet/SAFEDLINK or Ethernet

Fire terminal FT2040

The FT2040 has the following features:

- Integrated operating unit
- Separate 24-VDC supply input
- Redundant 24-VDC supply input
- Networkability via FCnet/SAFEDLINK or Ethernet

FCnet/SAFEDLINK

A maximum of 32 stations (fire control panels and operator terminals) can be networked together in any configuration via FCnet/SAFEDLINK.

Fire control panel FC2020-AA
Art. no.: A5Q00016829

Fire control panel FC2020-AE
Art. no.: A5Q00016851

In the basic version each FC2020 control panel contains:

- Alarm transmission
- Fault transmission
- Fire control
- Monitoring of conventional sounder line

Fire terminal FT2040-AZ
Art. no.: A5Q00016702

Legend for the designation of the interfaces:

FDnet	Network for linking Sinteso™ devices
FCnet/SAFEDLINK	Network for linking the stations (max. 32)
Ethernet	
– FCnet	Networking of 4 stations (not EN54-compliant)
– BACnet	Connection to management systems/building control systems
Serial interfaces	An optional RS232 and/or an RS485 interface (also freely combinable) per control panel or terminal

*available with market package 2.1

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Fire control panel
FC2040-AG
Art. no.:
A5Q00016854

In the basic version each control panel contains:
- Alarm transmission
- Fault transmission
- Fire control
- Monitoring of 2 conventional sounder lines

Fire control panel FC2060* (modular)

The FC2060 is a modular fire control panel.
It has the following features:
- Two integrated FDnet line cards
- 4 slots for additional line cards
- Integrated inputs outputs for peripherals
- Integrated operating unit
- Integrated power supply
- Automatic configuration
- Networkability via FCnet SAFEDLINK or Ethernet

Fire terminal
FT2040-EZ
Art. no.: A5Q00016720

Fire control panel
FC2060-AA*

In the basic version each FC2060 control panel contains:
- Alarm transmission
- Fault transmission
- Fire control
- Monitoring of 2 conventional sounder lines

FDnet

(For further details see also separate planning aid for Sinteso FDnet devices)

Floor repeater terminal
FT2010
Art. no.: A5Q00014104

ASA neural fire detector
FDOOT241-9

Alarm sounder
FDS221-R

Manual call point, red
FDM223

Options

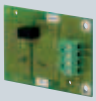
Extension and networking options

Loop extension (FDnet)
FCI2003-A1
Art. no.: A5Q00010136

Network module
(SAFEDLINK)
FN2001-A1
Art. no.: A5Q00012851

Repeater (SAFEDLINK)
FN2002-A1
Art. no.: S24236-B2503-A1

RS232 module (isolated)
FCA2001-A1
Art. no.: A5Q00005327



RS485 module (isolated)
FCA2002-A1
Art. no.: A5Q00009923

Sounder module
FCA2005-A1
Art. no.: A5Q00014866

Operating unit options

LED display (internal)
FCM2006-A1
Art. no.: A5Q00021771

LED display (internal)
FCM2007-A1
Art. no.: A5Q00021772

Event printer
FTO2001-A1
Art. no.: A5Q00010126

Key switch (Kaba)
FTO2005-C1
Art. no.: A5Q00010113

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Sinteso™ Planning Tools – FDnet peripherals

Sinteso™ control panels

Sinteso™ fire control panels FC2020; FC2040; FC2060*

(for further details see also the Sinteso Planning Tools – control panels, network and accessories)

Fire control panel FC2060*

Fire control panel FC2040

Fire control panel FC2020

FCnet

Sinteso S-LINE fire detectors

With its combination of innovative sensor technology and unique **ASA***technology*™ the Sinteso S-LINE for sophisticated applications provides unsurpassed detection security and equal sensitivity to all types of fire, while simultaneously ignoring deceptive phenomena.

The significant innovation of the Sinteso S-LINE is the fact that the detectors interpret situations in real time and automatically switch the area of application of the selected ASA parameters. The detectors respond more sensitively to fire and are more resistant to deceptive phenomena.

Detector base FDB221
Art. no.: A5Q00001664

Flame detector base FDFB291
Art. no.: A5Q00003310

ASA flame detector FDF241-9
Art. no.: A5Q00003006

ASA neural fire detector FDOOT241-9
Art. no.: A5Q00004813

ASA wide-spectrum smoke detector FDO241
Art. no.: A5Q00004811

ASA heat detector FDT241
Art. no.: A5Q00004812

Mounting bracket MV1
Art. no.: BPZ: 3950450001

Ball and socket joint MWV1
Art. no.: BPZ: 3674840001

Rain hood cover DFZ1190
Art. no.: BPZ: 5302660001

Extinguishing control unit XC10
Art. no.: A6E050060

Floor repeater terminal FT2010
Art. no.: A5Q00014104

Floor repeater display FT2011
Art. no.: A5Q00017706

Mimic display driver FT2001*
Art. no.: A5Q00014417

Line separator FDCL221
Art. no.: A5Q00004011

Alarm indicator DJ1193
Art. no.: BPZ: 4876360001

Alarm indicator DJ1191
Art. no.: BPZ: 4783280001

Alarm indicator DJ1192
Art. no.: BPZ: 4783310001

Additional frame AI330
Art. no.: BPZ: 3169430001

Sinteso C-LINE detectors

Sinteso C-LINE detectors are used in standard applications where the risk is average and the potential for deception is moderate. They guarantee optimal fire detection while preventing false alarms through the use of selectable parameter sets. In parameter sets, sensor signals such as amplitudes, gradients and signal fluctuations are each analyzed on an application-specific basis by means of detection algorithms (DAs).

DA neural fire detector FDOOT221
Art. no.: A5Q00001566

Detector base
Art. no.: A5Q00001664

DA wide-spectrum smoke detector FDO221
Art. no.: A5Q00001565

Alarming equipment (audible/visible):

Detector base FDB221
Art. no.: A5Q00001664

Sounder base FDSB291
Art. no.: A5Q00001647

Alarm sounder FDS221-W
Art. no.: A5Q00006711

Alarm sounder FDS221-R
Art. no.: A5Q00004117

Combined sounder beacon FDS229
Art. no.: A5Q00023093 (red, FDS229-R)
A5Q00023092 (yellow, FDS229-A)

All alarm sounders use the addressable FDB221 detector base.

FDnet ringbus (loop)

The FDnet (Field Device Network) is a modern, multipurpose bus system. It allows rapid, fail-safe communication between the Sinteso bus elements and the central fire control panel.

Legend for the designation of fire detectors:

FCnet	Fire Control network
FDnet	Field Device network
FDO	Fire Detector "optical" (optical forward dispersed light alarm)
FDOOT	Fire Detector "optical optical thermal" (optical forward backward dispersed light alarm incl. heat sensor)
FDT	Fire Detector "thermal" (heat differential alarm, can also be programmed as maximum heat detector)
241	**S-LINE**
221	**C-LINE**
xxx-9	attachment to limit value technology possible
xxx-8	attachment to impulse alarm technology possible

*available with market package 2.1

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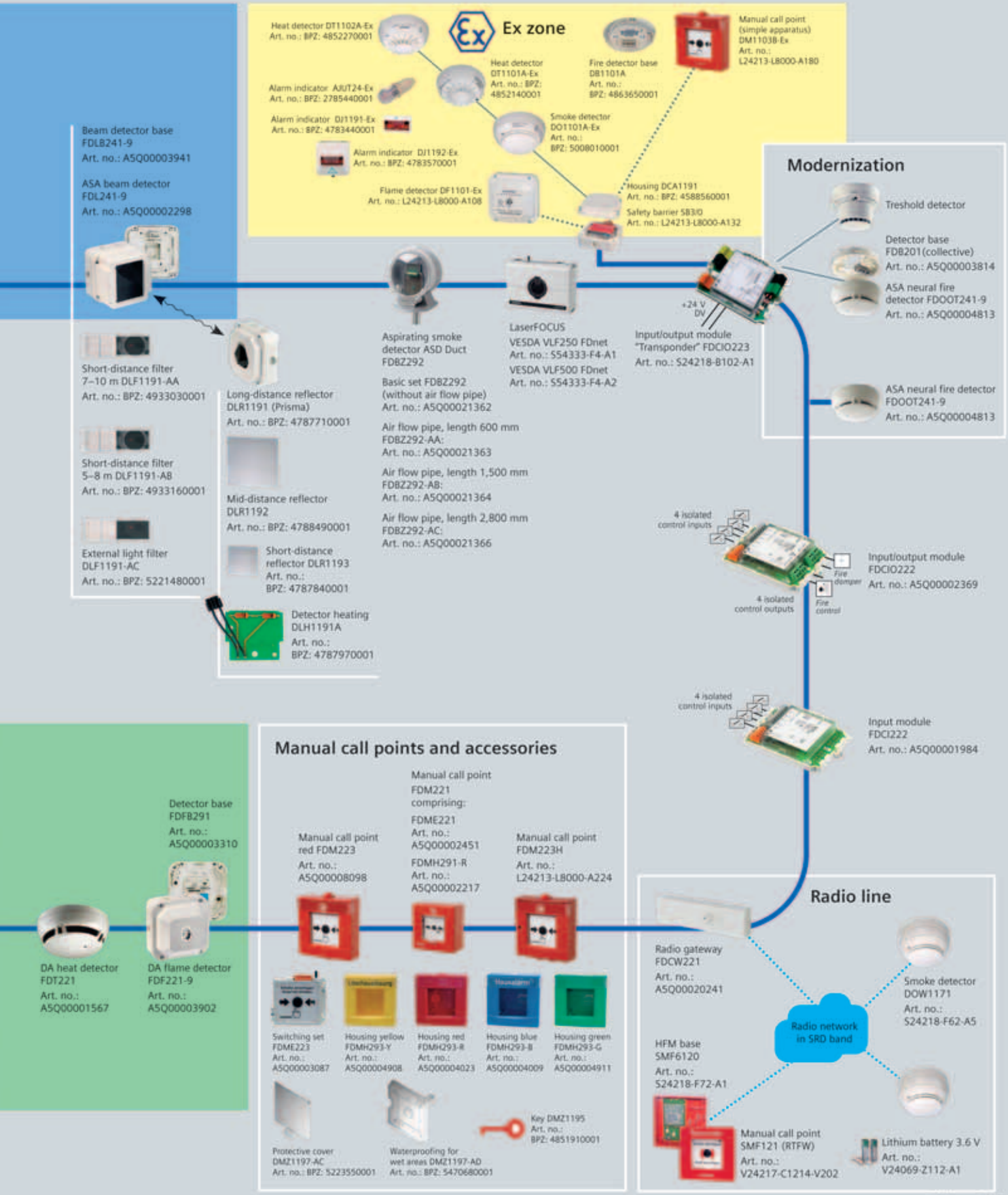

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Massive project?
Maximum complexity?
Challenging environment?

In these situations only the most powerful systems will suffice and only a system such as Sinteso can give you the required level of safety and reliability necessary to ensure lasting peace of mind.

This system has a decisive advantage:
Intelligence at all levels. Sinteso distributes the system responsibility to detectors and panels in a specific manner, providing exceptionally high levels of detection and unmatched configuration flexibility.

Type Index

Type	Description	Order No.	Page
	Auxiliary terminal	BPZ:4074540001	1-14, 4-51
A5Q00004142	Lithium brownstone battery 9 V / 1 Ah	A5Q00004142	1-18, 1-26, 4-73, 7-4, 7-9
A5Q00004478	Screwed cable gland M20 x 1.5	A5Q00004478	1-14, 4-18, 4-20, 4-23, 4-25, 4-31, 4-33, 4-35, 4-42, 4-52, 4-54, 4-57, 4-71, 5-2, 6-5, 6-7, 6-9, 6-11
A5Q00004479	Back nut M20	A5Q00004479	1-14, 4-21, 4-52
A5Q00006735	Locking plug M20 x 1.5 (1 hole)	A5Q00006735	4-23, 4-33, 6-7
A5Q00008131	V-plug PA M20 x 1.5	A5Q00008131	4-25, 4-35
A5Q00009786	Adapter with lever, screw and nut incl. attachment and bushing screw	A5Q00009786	9-10
A5Q00009787	Lever with screw and nut	A5Q00009787	9-10
A5Q00009788	Small flap with screw and nut	A5Q00009788	9-10
A5Q00009789	Large flap with screw and nut	A5Q00009789	9-10
A5Q00010055	Locking plug M20 x 1.5 (2 holes)	A5Q00010055	4-23, 4-33, 6-7
A5Q00017619	Thermo printer rolls for Custom Plus-S-0004	A5Q00017619	9-1
AI330	Adapter frame for alarm indicator	BPZ:3169430001	5-1, 6-8
AJUT24-Ex	Alarm indicator, model for recess mounting	BPZ:2785440001	6-9
AX1204	Battery (12 V, 7.2 Ah)	BPZ:2522560001	8-1
BPZ:2473130001	Washer	BPZ:2473130001	5-2, 6-9
BPZ:3048160001	Insulating cap for alarm indicators	BPZ:3048160001	6-9, 9-9
BPZ:3679630001	Halogen lamp 12 V / 50 W	BPZ:3679630001	9-11
BPZ:5304150001	Plate	BPZ:5304150001	9-7
BPZ:5358470001	Label 'avoid electrostatic charging' for manual call point in explosion-hazard area.	BPZ:5358470001	6-6
DB1101A	Base for collective detector series	BPZ:4863650001	6-2
DB3	Alarm device for explosion-hazard areas for zone 1 and 2	BPZ:5757970001	6-12
DBW1171	Base for radio smoke detector	S24218-F316-A1	4-70
DBZ1190	Locking device	BPZ:4585260001	4-70
DBZ1190-AA	Micro terminal 0.5 mm^2, 4-pole	BPZ:4677080001	4-17, 4-41, 4-45, 6-3, 6-11
DBZ1190-AB	Connection terminal 2.5 mm^2, 3-pole	BPZ:4942340001	4-17, 4-41, 4-45, 4-65, 6-3
DBZ1191	Base attachment for surface mounting	BPZ:4540830001	6-2

Type Index

Type	Description	Order No.	Page
DBZ1192	Base attachment for humid environment	BPZ:4588140001	4-71
DBZ1193A	Detector designation plate	BPZ:4864330001	4-18, 4-42, 4-71
DBZ1194	Protective cage	BPZ:4677110001	4-18, 4-41, 4-71
DBZ1197-AA	Air flow tube for ASD-Duct	BPZ:4926630001	4-64
DBZ1197-AC	Air flow tube for ASD-Duct	BPZ:4995140001	4-64
DBZ1197A	Air duct sampling chamber	BPZ:4926500001	4-60
DCA1191	Housing (empty)	BPZ:4588560001	5-2, 6-9, 6-11
DF1101-Ex	Infrared flame detector unit collective 'Ex'	BPZ:5166750001	6-4
DF11Ex	Infrared flame detector collective 'Ex'	DF11Ex__	6-4
DFB1190	Base for infrared flame detector	BPZ:5165360001	6-4
DFZ1190	Rain hood	BPZ:5302660001	4-54
DJ1191	Alarm indicator, resistor 75 Ω	BPZ:4783280001	5-1
DJ1191-Ex	Alarm indicator for door frames	BPZ:4783440001	6-8
DJ1192	Alarm indicator, resistor 75 Ω	BPZ:4783310001	5-1
DJ1192-Ex	Alarm indicator for wall mounting	BPZ:4783570001	6-8
DJ1193	Alarm indicator incl. insulating cap	BPZ:4876360001	5-2
DJZ1193	Alarm indicator housing incl. washer	BPZ:5302950001	5-2, 6-10
DLF1191-AA	Filter for short distances (7... 10 m)	BPZ:4933030001	4-58
DLF1191-AB	Filter for short distances (5... 8 m)	BPZ:4933160001	4-58
DLF1191-AC	Filter against external light influences	BPZ:5221480001	4-58
DLH1191A	Detector heating	BPZ:4787970001	4-58
DLR1191	Reflector for long distance (prism)	BPZ:4787710001	4-57
DLR1192	Reflector for middle distance (foil)	BPZ:4788490001	4-57
DLR1193	Reflector for short distance (foil)	BPZ:4787840001	4-58
DM1103	Collective manual call point	DM1103__	6-6
DMA1103D	Electronic unit collective (double action)	A5Q00004470	6-6
DMA1192-AA	Manual call point housing red	BPZ:5222870001	6-6
DMZ1195	Spare key	BPZ:4851910001	9-7
DMZ1196-AC	Spare glass neutral	BPZ:4942050001	9-7
DMZ1197-AC	Protective cover	BPZ:5223550001	4-23, 4-25, 4-30, 4-33, 4-35, 6-7
DMZ1197-AD	Protection seal	BPZ:5470680001	4-23, 4-25, 4-30, 4-33, 4-35, 6-7
DO1101A-Ex	Smoke detector, wide spectrum collective 'Ex'	BPZ:5008010001	6-1
DOW1171	Radio smoke detector	S24218-F62-A6	4-70
DOW1171/DBW1171	Radio smoke detector complete	S24218-F62-A5	4-69
DT1101A-Ex	Heat detector collective 'Ex'	BPZ:4852140001	6-1
DT1102A-Ex	Heat detector collective 'Ex'	BPZ:4852270001	6-2
DZW1171	Radio test set	BPZ:5762200001	4-73
EOL22(Ex)	Line termination	BPZ:5162220001	6-3, 6-5, 6-7
FA2003-A1	Battery (12 V, 7 Ah, VDS)	A5Q00019353	8-1
FA2004-A1	Battery (12 V, 12 Ah, VDS)	A5Q00019354	8-1
FA2005-A1	Battery (12 V, 17 Ah, VDS)	A5Q00019677	8-1
FA2006-A1	Battery (12 V, 26 Ah, VDS)	A5Q00019356	8-2

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Type Index

Type	Description	Order No.	Page
FA2007-A1	Battery (12 V, 45 Ah, VDS)	A5Q00022897	8-2
FA2008-A1	Battery (12 V, 65 Ah, VDS)	A5Q00019357	8-2
FA2010-A1	Battery (12 V, 4.5 Ah)	A5Q00019674	8-1
FC1002-A	2-zone conventional unit (Standard)	A6E60500000	2-2
FC1002-B	2-zone conventional unit (Head removal monitoring)	A6E60500001	2-2
FC1002-C	2-zone conventional unit (Nordic)	A6E60500002	2-2
FC1002..	2-zone conventional unit	FC1002..	2-2
FC1004-A	4-zone conventional unit (Standard)	A6E60500003	2-4
FC1004-B	4-zone conventional unit (Head removal monitoring)	A6E60500004	2-4
FC1004-C	4-zone conventional unit (Nordic)	A6E60500005	2-4
FC1004-E	4-zone conventional unit (NL)	A6E60500006	2-4
FC1004..	4-zone conventional unit	FC1004..	2-4
FC1008-A	8-zone conventional unit (Standard)	A6E60500007	2-6
FC1008-B	8-zone conventional unit (Head removal monitoring)	A6E60500008	2-6
FC1008-C	8-zone conventional unit (Nordic)	A6E60500009	2-7
FC1008-D	8-zone conventional unit (CH)	A6E60500010	2-7
FC1008-E	8-zone conventional unit (Evacuation)	A6E60500011	2-7
FC1008-F	8-zone conventional unit (VdS)	A6E60500012	2-7
FC1008..	8-zone conventional unit	FC1008..	2-6
FC1012-A	12-zone conventional unit (Standard)	A6E60500014	2-10
FC1012-B	12-zone conventional unit (Head removal monitoring)	A6E60500015	2-10
FC1012-C	12-zone conventional unit (Nordic)	A6E60500016	2-11
FC1012-D	12-zone conventional unit (CH)	A6E60500017	2-11
FC1012-F	12-zone conventional unit (VdS)	A6E60500018	2-11
FC1012..	12-zone conventional unit	FC1012..	2-10
FC1024-A	12-zone conventional expansion unit	A6E60500019	2-7, 2-11
FC2020-AA	Fire control panel (2-loop) in housing (Comfort)	A5Q00016829	1-6
FC2020-AE	Fire control panel (2-loop) in housing (Comfort) with 2 LED indicators	A5Q00016851	1-7
FC2020-AZ	Fire control panel (2-loop) in housing (Standard)	A5Q00015550	1-4
FC2020-EZ	Fire control panel (2-loop) in housing (Standard) with 1 LED indicator	A5Q00016827	1-5
FC2020..	Fire control panel (2-loop)	FC2020..	1-3
FC2040-AA	Fire control panel (4-loop)	A5Q00016100	1-9
FC2040-AE	Fire control panel (4-loop) with 2 LED indicators	A5Q00016852	1-9
FC2040-AG	Fire control panel (4-loop) with 4 LED indicators	A5Q00016854	1-10
FC2040..	Fire control panel (4-loop)	FC2040..	1-8
FCA1000-FF	Interface card SST	A6E60500055	2-8, 2-12
FCA1001	Line extension card 4-zones	A6E60500020	9-2
FCA1002	Display unit	A6E60500021	2-8, 2-12
FCA1003	Sounder control card	A6E60500022	2-8, 2-12
FCA1004-F	Line extension card SST	A6E60500023	2-8, 2-12
FCA1005-D	RT-isolation card	A6E60500024	2-8, 2-12, 3-4
FCA1006-F	RS232 adapter	A6E60500025	2-8, 2-12
FCA1007	Key switch kit	A6E60500026	2-3, 2-5, 2-9, 2-13, 3-5

Type Index

Type	Description	Order No.	Page
FCA1007-B	Add-on line card	A6E60500027	2-8, 2-12, 9-2
FCA1008-F	VdS card (Germany)	A6E60500028	9-2
FCA1009-E	EVAC module	A6E60500029	9-2
FCA1010	Connection set 24-zones	A6E60500030	9-2
FCA1013	Universal accessory bag	A6E60500068	9-2
FCA2001-A1	RS232 module (isolated)	A5Q00005327	1-14, 1-23
FCA2002-A1	RS485 module (isolated)	A5Q00009923	1-14, 1-24
FCA2005-A1	Sounder module	A5Q00014866	1-12
FCA2010-F1	Battery kit (9 Volt)	A5Q00012569	1-18, 1-26
FCA2012-A1	License key (L1)	A5Q00018856	1-11, 1-23
FCA2014-A1	Cable kit (communication)	A5Q00023027	1-19, 1-27
FCE1001	EOL resistor 3.9 kΩ (set of 10 pcs.)	A6E60500031	9-2
FCE1002	Termination element, control line	A6E60500032	9-2, 9-5
FCE1003-B	EOL element for head removal monitoring	A6E60500033	9-2
FCE1004-F	EOL element for creeping short circuit monitoring	A6E60500034	9-4
FCH1002	Cover for the FC1002-A, -B, -C	A6E60500035	9-3
FCH1004	Cover for the FC1004-A, -B, -C	A6E60500036	9-3
FCH1004-E	Cover for the FC1004-E	A6E60500037	9-3
FCH1008	Cover for the FC1008-A, -B, -C	A6E60500038	9-3
FCH1008-D	Cover for the FC1008-D	A6E60500039	9-3
FCH1008-E	Cover for the FC1008-E	A6E60500040	9-3
FCH1008-F	Cover for the FC1008-F	A6E60500041	9-3
FCH1012	Cover for the FC1012-A, -B, -C	A6E60500043	9-3
FCH1012-D	Cover for the FC1012-D	A6E60500044	9-3
FCH1012-F	Cover for the FC1012-F	A6E60500045	9-3
FCH1024	Cover for the FC1024-A	A6E60500046	9-3
FCI2001-D1	Fire brigade periphery module	A5Q00010145-R	10-2
FCI2001-D1	Fire brigade periphery module	A5Q00013100	1-11
FCI2002-A1	Periphery board (2-loop)	A5Q00005545-R	10-2
FCI2003-A1	Loop extension (FDnet)	A5Q00010136	1-14
FCI2004-A1	Periphery board (4-loop)	A5Q00009953-R	10-2
FCM1002	Main board 2-zones	A6E60500047	9-3
FCM1004	Main board 4-zones	A6E60500048	9-3
FCM1008	Main board for 8-zone units	A6E60500049	9-4
FCM1008-D	Main board for 8-zone units (Switzerland)	A6E60500050	9-4
FCM2001-A2	Operating unit	A5Q00005168-R	10-1
FCM2002-A2	Operating unit (+LED ind.)	A5Q00013077-R	10-1
FCM2005-A2	Operating add-on	A5Q00015480-R	10-1
FCM2006-A1	Operating add-on (2xLED ind.)	A5Q00021771	1-16
FCM2006-A1	Operating add-on (2xLED ind.)	A5Q00021771-R	10-1
FCM2007-A1	Operating add-on (4xLED ind.)	A5Q00021772	1-17
FCM2007-A1	Operating add-on (4xLED ind.)	A5Q00021772-R	10-1
FCP1001	Power supply card 8/12-zone units	A6E60500051	9-4
FCP1002	Transformer for 2/4-zone units	A6E60500052	9-4
FCP1003	Transformer for 8/12-zone units	A6E60500053	9-4
FCP1004-E	Power supply 3.5 A	A6E60500054	2-8, 2-12, 9-5

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Type Index

Type	Description	Order No.	Page
FDB201	Detector base collective	A5Q00003814	4-14, 4-63
FDB201	Detector base collective (colored)	A5Q00016446	4-15
FDB201-AA	Detector base collective with 1 micro terminal	A5Q00012742	4-14, 4-63
FDB221	Detector base addressable (colored)	A5Q00016447	4-16
FDB221	Detector base addressable	A5Q00001664	4-15, 4-40, 4-62
FDB221-AA	Detector base addressable with 1 micro terminal	A5Q00012741	4-16, 4-40, 4-63
FDB291	Base attachment (colored)	A5Q00016448	4-17
FDB291	Base attachment	A5Q00001603	4-17, 4-41
FDB293	Base attachment humid with seal	A5Q00003945	4-18, 4-41
FDBH291	Detector heating incl. 2 micro terminals	A5Q00004439	4-17
FDBZ291	Designation plate	A5Q00002621	4-16, 4-40, 4-44
FDBZ292	Air sampling smoke detection kit	A5Q00021362	4-60
FDBZ292-AA	Air flow tube 0.6 m	A5Q00021363	4-64
FDBZ292-AB	Air flow tube 1.5 m	A5Q00021364	4-64
FDBZ292-AC	Air flow tube 2.8 m	A5Q00021366	4-64
FDBZ292-AD	Sealing kit for air flow tubes	A5Q00021367	4-64
FDBZ292-AF	Mounting bracket	A5Q00021369	4-65
FDBZ293	Detector locking device	A5Q00005035	4-6, 4-13, 4-39
FDBZ294	EMC Protective cage	A5Q00023040	4-18
FDCH291	Housing for in-/output modules	A5Q00002395	1-13, 4-51
FDCH292	Housing for in-/output modules	A5Q00003942	1-13, 4-51
FDCI222	Input module	A5Q00001984	4-47
FDCIO222	Input/output module	A5Q00002369	4-48
FDCIO223	Transponder	S24218-B102-A1	4-50
FDCIO224	Input/output module	A5Q00018689	4-49
FDCL221	Line separator	A5Q00004011	4-46
FDCM291	Mounting feeds for in-/output modules	A5Q00003855	9-9
FDCW221	Radio gateway	A5Q00020241	4-68
FDF	Infrared flame detector	FDF__	4-53
FDF221-9	DA Infrared flame detector unit (1 sensor) (C-LINE)	A5Q00003902	4-53
FDF241-9	ASA Infrared flame detector unit (3 sensors) (S-LINE)	A5Q00003006	4-54
FDFB291	Base for infrared flame detectors FDF2x1-9	A5Q00003310	4-54
FDL	ASA Linear smoke detector	FDL__	4-56
FDL241-9	ASA Linear smoke detector unit (S-LINE)	A5Q00002298	4-56
FDLB291	Base for linear smoke detector FDL241-9	A5Q00003941	4-57
FDLU291	Adjustment device set for linear smoke detector	A5Q00004905	4-58, 7-7
FDLU291	Adjustment device for FDLU291	A5Q00006540	9-10
FDM221	Manual call point	FDM221__	4-19
FDM223	Manual call point	FDM223__	4-31
FDM223	Manual call point complete	A5Q00008098	4-30
FDM223H	Manual call point 'Heavy Duty'	FDM223H__	4-34
FDM224	Manual call point	FDM224__	4-21
FDM224H	Manual call point 'Heavy Duty'	FDM224H__	4-24
FDM225-RG	Manual call point with glass plate	A5Q00013434	4-26

Type Index

Type	Description	Order No.	Page
FDM225-RG (F)	Manual call point with glass plate for France	A5Q00020274	4-26
FDM225-RP	Manual call point with resettable plastic element	A5Q00012020	4-27
FDM225-RP (F)	Manual call point with resettable plastic element for France	A5Q00020273	4-27
FDM226-RG	Manual call point with glass plate incl. housing base	A5Q00013435	4-29
FDM226-RP	Manual call point with resettable plastic element incl. housing base	A5Q00013436	4-29
FDMC291	Protective cover	A5Q00001644	4-20
FDMC295	Protective cover	A5Q00013440	4-28–29
FDME221	Switching unit with direct alarm actuation	A5Q00002451	4-20
FDME223	Switching unit with indirect alarm actuation	A5Q00003087	4-32, 4-34
FDME224	Switching unit with direct alarm actuation	A5Q00009392	4-22, 4-24
FDMG291	Replacement glass	A5Q00002122	9-7
FDMG295	Glass plate neutral	A5Q00013442	9-7
FDMG295-F	Glass plate 'French'	A5Q00013443	9-8
FDMG295-S	Glass plate 'Swedish'	A5Q00013444	4-28
FDMH291-B	Housing blue with key	A5Q00004980	4-20
FDMH291-G	Housing green with key	A5Q00004981	4-20
FDMH291-R	Housing red with key	A5Q00002217	4-19
FDMH291-Y	Housing yellow with key	A5Q00004979	4-19
FDMH292-R	Housing red 'Heavy Duty'	A5Q00005525	4-24, 4-34
FDMH293-B	Housing blue, with glass and key	A5Q00004909	4-22, 4-32
FDMH293-G	Housing green, with glass and key	A5Q00004911	4-22, 4-32
FDMH293-R	Housing red, with glass and key	A5Q00004023	4-21, 4-31
FDMH293-Y	Housing yellow, with glass and key	A5Q00004908	4-22, 4-32
FDMH295-R	Housing base	A5Q00013437	4-28
FDMH295-S	Housing base with holes and grommet	A5Q00013438	4-28
FDMK291	Cover with key	A5Q00001643	9-7
FDMK295	Spare key	A5Q00013448	9-8
FDMP295	Plastic element neutral	A5Q00013445	9-8
FDMP295-F	Plastic element 'French'	A5Q00013446	9-8
FDMP295-S	Plastic element 'Swedish'	A5Q00013447	4-28
FDO221	Smoke detector, FDnet wide spectrum DA (C-LINE) (colored)	A5Q00016440	4-4–5
FDO221	Smoke detector, FDnet wide spectrum DA (C-LINE)	A5Q00001565	4-4
FDO221	Smoke detector, FDnet wide spectrum DA (C-LINE) for detector exchange	A5Q00001565-R	10-6
FDO241	Smoke detector, FDnet wide spectrum ASA (S-LINE)	A5Q00004811	4-11, 4-61
FDO241	Smoke detector, FDnet wide spectrum ASA (S-LINE) for detector exchange	A5Q00004811-R	10-6
FDO241	Smoke detector, FDnet wide spectrum ASA (S-LINE) (colored)	A5Q00016441	4-11
FDOOT221	Multi-sensor smoke detector, neural DA (C-LINE) for detector exchange	A5Q00001566-R	10-6
FDOOT221	Multi-sensor smoke detector, neural DA (C-LINE)	A5Q00001566	4-3
FDOOT221	Multi-sensor smoke detector, neural DA (C-LINE) (colored)	A5Q00016442	4-4
FDOOT241-9	Multi-sensor smoke detector, neural ASA (S-LINE) (colored)	A5Q00016443	4-9
FDOOT241-9	Multi-sensor smoke detector, neural ASA (S-LINE) for detector exchange	A5Q00004813-R	10-6

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Type Index

Type	Description	Order No.	Page
FDOOT241-9	Multi-sensor smoke detector, neural ASA (S-LINE)	A5Q00004813	4-8, 4-62
FDOOT241-9M	Multi-sensor smoke detector and collective base, Migration kit FDOOT241-9 + FDB201	A5Q00015955	4-10
FDS221-R	Alarm sounder red	A5Q00004117	4-36
FDS221-W	Alarm sounder white	A5Q00006711	4-37
FDS229-A	Alarm sounder beacon, orange	A5Q00023093	4-39
FDS229-R	Alarm sounder beacon, red	A5Q00023092	4-38
FDSB291	Sounder base (FDnet)	A5Q00001647	4-43
FDSB292	Sounder base (collective)	A5Q00013755	4-44
FDT221	Heat detector, DA (C-LINE) (colored)	A5Q00016444	4-6
FDT221	Heat detector, DA (C-LINE)	A5Q00001567	4-5
FDT241	Heat detector, ASA (S-LINE) (colored)	A5Q00016445	4-13
FDT241	Heat detector, ASA (S-LINE)	A5Q00004812	4-12
FDUD291	Detector exchanger	A5Q00003585	7-2
FDUD292	Detector exchanger and tester	A5Q00003357	7-3
FDUD292-A	Adapter cable	A5Q00004990	9-10
FDUD293	Intelligent detector tester	A5Q00018261	7-4
FDUL221	Line tester	A5Q00004397	7-9
FDUL221-A	Line connection set	A5Q00008436	9-11
FDUL221-B	Mains adapter set	A5Q00008437	9-11
FDUL221-C	PC cable (RS232)	A5Q00008438	9-11
FDUM291	Telescope rod	A5Q00004996	7-5
FDUM292	Telescope rod	A5Q00004997	7-5
FDUZ221	MCL USB adapter	A5Q00020131	7-10
FDZ291	Detector dust cap	A5Q00004814	4-6, 4-13
FH2001-A1	Housing (Eco)	A5Q00016865	1-24
FH2001-E1	Housing (Eco + 2xLED ind.)	A5Q00016866	1-25
FH2001-G1	Housing (Eco + 4xLED ind.)	A5Q00016867	1-25
FH2002-A1	Housing (Standard)	A5Q00018931	1-15
FH2003-A1	Housing (Comfort)	A5Q00009906	1-16
FH2004-A1	Housing (Large Extension)	A5Q00018778	1-15
FH2005-A1	Housing (Large)	A5Q00019543	1-16
FH2006-A1	Housing (Eco +plan comp.)	A5Q00022364	1-24
FH2007-A1	Housing (Std. +plan comp.)	A5Q00022369	1-15
FHA2007-A1	Mounting plate	A5Q00010151	1-11
FHA2011-A1	Cover cap (unlabeled)	A5Q00021774	9-1
FHA2011-A2	Cover cap (Sinteso)	A5Q00021773	9-1
FHA2013-A1	Rear (FT201x flat)	A5Q00016552	4-75
FHA2015-A1	FM-blind 2HU	A5Q00024621	1-19
FHA2016-A1	19" mounting kit	A5Q00020179	1-19, 1-26
FHA2017-A1	FM-blind 1HU	A5Q00024719	1-19, 1-27
FN2001-A1	Network module (SAFEDLINK)	A5Q00012851	1-12, 1-23
FN2001-A1	Network module (SAFEDLINK)	A5Q00012851-R	10-3
FN2002-A1	Repeater (SAFEDLINK)	S24236-B2502-A1	1-12
FP2001-A1	Power supply (70 W)	A5Q00005568-R	10-4
FP2003-A1	Power supply kit (70 W)	A5Q00016005	1-17, 1-24
FP2004-A1	Power supply (150 W, A)	A5Q00020825-R	10-4
FP2004-A1	Power supply kit (150 W, A)	A5Q00020825	1-17

Type Index

Type	Description	Order No.	Page
FP2005-A1	Power supply kit (150 W, B)	A5Q00018779	1-17
FT2010-A1	Floor repeater terminal	A5Q00014104-R	10-5
FT2010-A1	Floor repeater terminal	A5Q00014104	4-74
FT2011-A1	Floor repeater display	A5Q00017706-R	10-5
FT2011-A1	Floor repeater display	A5Q00017706	4-75
FT2040-AZ	Fire terminal	A5Q00016702	1-22
FT2040-EZ	Fire terminal with 1 LED indicator	A5Q00016720	1-22
FT2040..	Fire terminal	FT2040..	1-21
FTI2001-A1	Fire terminal board	A5Q00013279-R	10-2
FTO2001-A1	Event printer	A5Q00010126	1-11, 1-13, 1-23, 4-51
FTO2001-A1	Event printer	A5Q00010126-R	10-1
FTO2005-C1	Key switch (Kaba)	A5Q00010113	1-18, 1-26, 4-75
FTO2006-B1	Key switch (Nordic)	A5Q00010129	1-18, 1-26
LE3	Test lamp for flame detectors	BPZ:3669510001	4-55, 7-7
MM8000xxx	MM8000 management station	MM8000xxx	11-2
MV1	Mounting bracket	BPZ:3950450001	4-55
MVH1	Mounting arm	BPZ:3496190001	5-3
MWV1	Ball and socket joint	BPZ:3674840001	4-55
RE10	Detector tester for linear smoke detectors	BPZ:3685190001	4-59, 7-7
RE6	Detector tester for smoke detectors	BPZ:3680300001	7-6
RE6T	Detector tester for heat detectors	BPZ:3680270001	7-6
REF8	Test gas can for smoke detectors	A5Q00011687	7-6
REF8-S	Test gas can for smoke detectors	A5Q00011688	7-6
SB3	Shunt Zener diode barrier	BPZ:4837400001	6-11
SMF	Manual call point	SMF__	4-71
SMF121	Manual call point	V24217-C1214-V202	4-72
SMF121	Manual call point	V24217-C1214-C201	4-72
SMF6120	Radio base	S24218-F72-A1	4-72
StabexHF	Test lamp for flame detectors 'Ex'	BPZ:4620910001	6-5, 7-7
TF04	Alarm test filter (Absorption 77 %)	BPZ:4931090001	4-59, 7-8
TS35_122	U-rail TS35/7.5/122	BPZ:5644780001	1-13, 4-46, 4-51
TS35_288	U-rail TS35/7.5/288	BPZ:5644230001	1-13, 4-46, 4-51
V24069-Z112-A1	Lithium battery 3.6 V / 2.1 Ah	V24069-Z112-A1	4-72
VESDA LaserFocus VLF-250	Aspirating smoke detector with display	S54333-F4-A1	4-66
VESDA LaserFocus VLF-500	Aspirating smoke detector with display	S54333-F4-A2	4-67
XC1001-A	Extinguishing control unit	A6E60500060	3-2
XC1001-B	Extinguishing control unit (France)	A5Q00018177	3-3
XCA1016	Add-on module	A5Q00016213	3-4
XCA1020	Accessory set for FDCIO	A5Q00025158	3-4
XCE1001	Terminating resistor 3.3 kΩ	A6E60500065	9-5
XCE1002	Trigger element	A5Q00015659	3-4
XCE1003	Fuse 2 A	A5Q00016960	9-5
XCH1001	Cover	A6E60500064	9-6
XCH1001-B	Cover	A5Q00018564	9-6

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Type Index

Type	Description	Order No.	Page
XCM1001	Main board	A5Q00023946	9-5
XCM1001-B	Main board	A5Q00025160	9-5
Z3B171	Relay module with 1 contact	BPZ:4843830001	1-18, 2-3, 2-5, 2-9, 2-13, 3-5, 6-6
Z3I410	Installation set	BPZ:4837660001	6-11

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