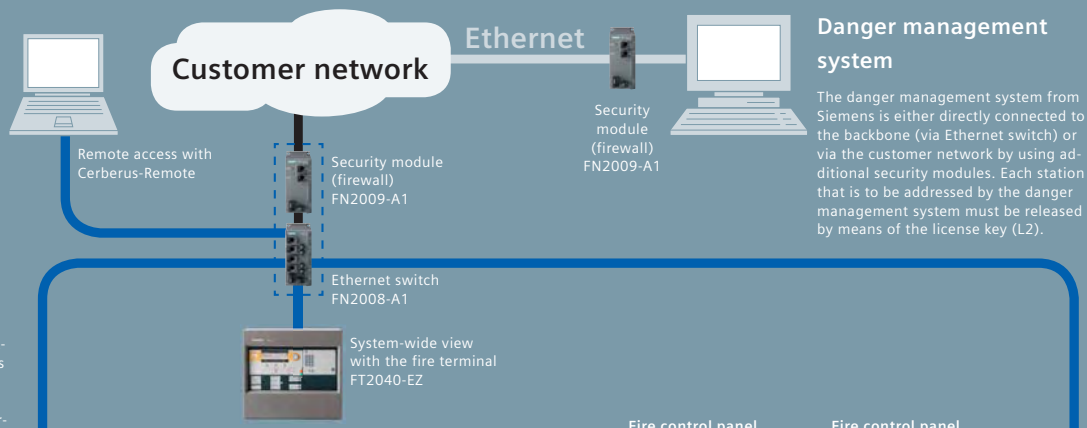
Cerberus PRO Planning Tool – panels, network, and accessories

To enable remote operation with Cerberus-Remote, the PC has to be connected to an Ethernet switch of the backbone. Access to a certain panel in a cluster will be granted by installing an L1 license key into this panel.



Danger management system

The danger management system from Siemens is either directly connected to the backbone (via Ethernet switch) or via the customer network by using additional security modules. Each station that is to be addressed by the danger management system must be released by means of the license key (L2).

Backbone (C-WEB/LAN)

Clusters can be networked via an Ethernet backbone, using industrial LAN technology. Siemens is the first manufacturer who offers this as EN 54-approved solution. With this architecture that is standard in IT, building structures and organizational processes can be ideally depicted.

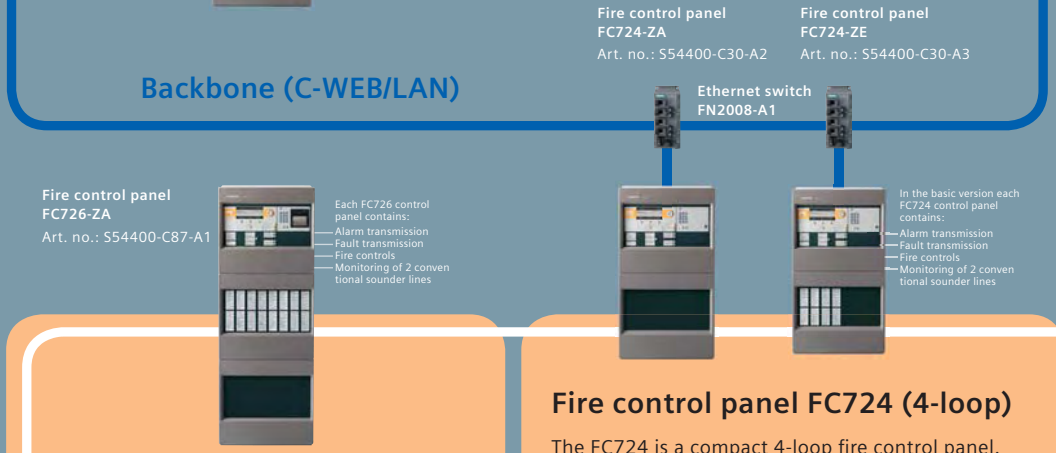
Characteristics of networking via backbone
- Ethernet switch to connect a cluster to the backbone
- Redundant transmission thanks to circular wiring
- Redundant connection possible due to two Ethernet switches
- Increased EMC protection thanks to fiber-optic cabling
- Easily programmable, EN 54-conform system-wide control
- Configurable view of single panels
- All panels can be used as router panel (for further information on FC726, please have a look into the separate documentation).

Key data

– Max. number of panels in EN 54 system:	64
– Max. number of panels in a cluster:	16
– Max. number of networkable clusters:	14
– Number of panels placed directly on backbone:	4*
– Number of panels with system-wide view:	5*
– Max. distance between clusters (fiber optic: multi mode):	3,000 m

* and more with respective system topology

The following guidelines must be observed
- To fulfill the EN 54 norm, you need only 1 Ethernet switch to connect control panels with less than 512 fire detectors to the backbone.



Cluster (C-WEB/SAFEDLINK)

Via the powerful cluster, up to 32 panels can be networked (fire control panels and fire terminals).

Characteristics of networking via the system bus
- Wiring with two wires
- Redundant transmission thanks to circular wiring
- Increased safety due to degrade mode using a second network module
- No additional cabling necessary for degrade mode; even for systems with more than 512 fire detectors
- Configurable view of individual panels

Key data

– Max. number of networkable panels:	32
– Max. number of networkable panels if connected to a danger management system:	16
– Max. distance between panels with copper cable	
• without repeater:	1,000 m
• with repeater:	2,000 m
– Max. distance between panels with fiber-optic cable	
• multi mode:	2,500 m
• single mode:	15,000 m
– Max. number of panels with system-wide view:	5

Fire control panel FC726 (modular)

FC726 is a modular fire control panel.
It has the following features:
- 4 C-NET loops
- 5 slots for additional module bus cards
- Integrated inputs/outputs for peripherals
- Integrated control unit
- Integrated power supply
- Automatic configuration
- Networkability via backbone (C-WEB/LAN), cluster (C-WEB/SAFEDLINK) or Ethernet

Cluster (C-WEB/SAFEDLINK)

Fire control panel FC724 (4-loop)

The FC724 is a compact 4-loop fire control panel.
It has the following features:
- 4 C-NET loops
- Integrated inputs/outputs for peripherals
- Integrated control unit
- Integrated power supply
- Automatic configuration
- Networkability via backbone (C-WEB/LAN), cluster (C-WEB/SAFEDLINK) or Ethernet

Fire terminal FT724

The FT724 has the following features:
- Integrated control unit
- Separate DC 24 V supply input possible
- Redundant DC 24 V supply input
- Networkability via C-WEB/SAFEDLINK or Ethernet

Fire terminal FT724-ZZ
Art. no.: S54400-C31-A2

C-NET

The C-NET is a modern, multi-purpose bus system. It allows rapid, fail-safe communication between the Cerberus® PRO bus elements and the fire control panel.

Characteristics of networking via the detector bus
- Use of all cable types (shielded or unshielded)
- Integration of star-shaped cable networks without modifications to cable network
- Shielding not necessary
- 2-wire loop
- Power supply to all bus elements via the C-NET (except transponder FDCIO223, LaserFOCUS, extinguishing control unit XC10)

Key data
- Up to 40 T-taps
- Up to 126 bus elements on one loop
- Cable lengths up to 3.3 km with up to 126 bus elements

C-NET
(For further details see also the Cerberus PRO Planning Tool – C-NET devices)

SIEMENS

Network components

Backbone

Security module (firewall) FN2009-A1
Art. no.: S54400-F95-A1

Ethernet switch FN2008-A1
Art. no.: S54400-F94-A1

Cluster

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

Housings

Housing (Eco) FH7201-Z3
Art. no.: S54400-B72-A1

Housing (Standard) FH7202-Z3
Art. no.: S54400-B70-A1

Housing (Comfort) FH7203-Z3
Art. no.: S54400-B71-A1

Housing (Large) FH7205-Z3
Art. no.: S54400-B86-A1

Housing (Large Extension) FH7204-Z3
Art. no.: S54400-B89-A1

19" mounting kit FHA2016-A1
Art. no.: A5Q00020179

Expansion options

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

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

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

Sounder module FCA2005-A1
Art. no.: A5Q00014866

License key L1 FCA2012-A1
Art. no.: A5Q00018856

License key L2 FCA2013-A1
Art. no.: A5Q00018857

Module bus cards for FC726

Line card (C-NET) FCL2001-A1
Art. no.: A5Q00009875

I/O card (programmable) FCI2008-A1
Art. no.: S54400-A6-A1

Operating add-ons

Operating add-on (2xLED-ind.) FCM7211-Y3
Art. no.: S54400-F75-A1

Operating add-on (4xLED-ind.) FCM7212-Y3
Art. no.: S54400-F88-A1

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

Key switch Nordic FTO2006-B1
Art. no.: A5Q00010129

Event printer FTO2001-A1
Art. no.: A5Q00010126

Event printer DL3750+
Art. no.: A5Q00023962

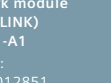
Power supply

Power supply kit (70 W) FP2003-A1
Art. no.: A5Q00016005

Additional power supply (150 W) FP2005-A1
Art. no.: A5Q00018779

Power supply kit (150 W) FP2004-A1
Art. no.: A5Q00020825

Fire control panel FC722-ZZ
Art. no.: S54400-C29-A5



Fire control panel FC722-YZ
Art. no.: S54400-C29-A4

Repeater (SAFEDLINK) FN2002-A1
Art. no.: S24236-B2502-A1

Fire control panel FC722 (2-loop)

The FC722 is a compact 2-loop fire control panel. It has the following features:
- 2 C-NET loops
- Integrated inputs/outputs for peripherals
- Integrated control unit
- Integrated power supply
- Automatic configuration
- Networkability via backbone (C-WEB/LAN), cluster (C-WEB/SAFEDLINK) or Ethernet

Fire control panel FC721 (1-loop)

The FC721 is a compact fire control panel. It has the following features:
- 1 C-NET loop
- Integrated inputs/outputs for peripherals
- Integrated control unit
- Integrated power supply
- Automatic configuration

Fire control panel FC721-YZ
Art. no.: S54400-C32-A3

Fire control panel FC721-ZZ
Art. no.: S54400-C32-A2

Fire control panel FC722-ZA
Art. no.: S54400-C29-A2

Fire control panel FC722-ZE
Art. no.: S54400-C29-A1

Floor repeater terminal FT2010-A1
Art. no.: A5Q00014104

Manual call point, red FDM221

Optical smoke detector OP720

Alarm sounder FDS221-R

Legend for the interfaces and networks:

Serial interfaces	One optional RS232 and/or one RS485 interface (also freely combinable) per panel or fire terminal
Backbone (C-WEB/LAN)	Network to connect clusters
Cluster (C-WEB/SAFEDLINK)	Network to connect panels
C-NET	Network to connect Cerberus PRO devices

Cerberus PRO Planning Tool – C-NET devices

Cerberus PRO control panels

Cluster (C-WEB/SAFEDLINK)

Fire control panel FC726

Fire control panel FC724

Fire control panel FC722

Fire control panel FC722

Cerberus PRO fire detectors

Sounder base DBS720
Art. no.: S54319-F5-A1

or

Detector base DB721
Art. no.: S54319-F11-A1

Multi-sensor smoke detector OH720
Art. no.: S54310-F2-A1

Optical smoke detector OP720
Art. no.: S54310-F1-A1

Heat detector HI722
Art. no.: S54310-F3-A1

Heat detector HI720
Art. no.: S54310-F4-A1

Alarm indicator FDAI91
Art. no.: S54370-F9-A1

Alarm indicator FDAI92
Art. no.: S54370-F3-A1
Additional frame AI330
Art. no.: BPZ:3169430001

Alarm indicator FDAI93
Art. no.: S54370-F5-A1

Detector base accessories

Detector base seal RS720
Art. no.: S54319-F8-A1

Designation plate FDBZ291
Art. no.: A5Q00002621

Detector locking device LP720
Art. no.: S54319-F9-A1

Floor repeater terminal FT2010-A1
Art. no.: A5Q00014104

Floor repeater display FT2011-A1
Art. no.: A5Q00017706

Flat rear FHA2013-A1
Art. no.: A5Q00016552

Mimic display driver FT2001-A1
Art. no.: A5Q00014417

LED flat cable 24 LEDs
Art. no.: BPZ:5291410001

Line separator FDCL221
Art. no.: A5Q00004011

Multi-line separator module FDCL221-M
Art. no.: S54312-F6-A1

Input/output module FDCIO222
Art. no.: A5Q00002369

Extinguishing panel standard XC1001-A
Art. no.: S54390-C1-A1

Test equipment

Line tester FDUL221
Art. no.: A5Q00004397

Detector exchanger DX791
Art. no.: S54319-F6-A1

Detector tester RE6 for smoke detectors
Art. no.: BPZ:3680300001

Detector tester RE7T for heat detectors
Art. no.: S54370-S3-A1

Detector tester RE10 for linear smoke detectors
Art. no.: BPZ:3685190001

Test lamp StapexHF for flame detectors 'Ex'
Art. no.: BPZ:4620910001

Test lamp LE3 for flame detectors
Art. no.: BPZ:3669510001

Alarm equipment (audible/visible)

Sounder base FDB221
Art. no.: A5Q00001664

or

Sounder base flat FDB222
Art. no.: S54319-F1-A1

Sounder base DBS720
Art. no.: S54319-F5-A1

Alarm sounder FDS221-W
Art. no.: A5Q00006711

Alarm sounder FDS221-R
Art. no.: A5Q00004117

Alarm sounder beacon FDS229-R
Art. no.: A5Q00023093

Alarm sounder beacon FDS229-A
Art. no.: A5Q00023092

Alarm indicator (addressable) FDCAI221
Art. no.: S54370-F10-A1

C-NET

The C-NET is a modern, multi-purpose bus system. It allows rapid, fail-safe communication between the Cerberus® PRO bus elements and the fire control panel.

Sounder accessories

Sealing element FDBZ295
Art. no.: S54319-F10-A1

Base attachment wet FDB293
Art. no.: A5Q00003945

Designation plate FDBZ291
Art. no.: A5Q00002621

Designation plate DBZ1193A
Art. no.: BPZ:4864330001

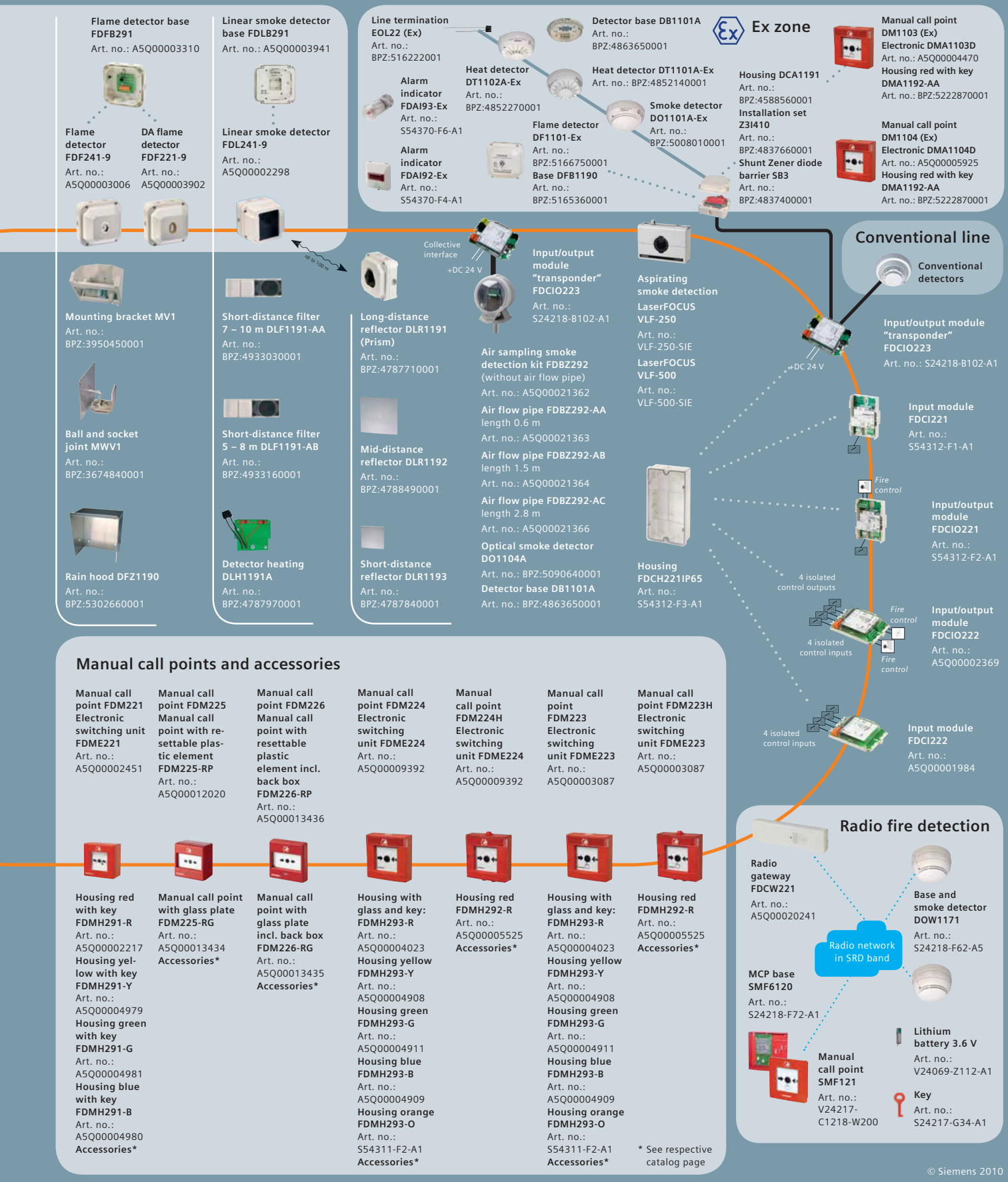
Base attachment FDB291
Art. no.: A5Q00001603

Detector locking device FDBZ293
Art. no.: A5Q00005035

Legend for the designation of fire detectors:

Cluster (C-WEB/SAFEDLINK)	Network for connecting up to 32 panels or up to 16 panels if connected to a danger management system
C-NET	Network for connecting Cerberus PRO devices
...xxx-9	Connection to collective and conventional technology possible

SIEMENS



Manual call points and accessories

Manual call point FDM221 Electronic switching unit FDME221
Art. no.: A5Q00002451

Manual call point FDM225 Manual call point with re-settable plastic element FDM225-RP
Art. no.: A5Q00012020

Manual call point FDM226 Manual call point with resettable plastic element incl. back box FDM226-RP
Art. no.: A5Q00013436

Manual call point FDM224 Electronic switching unit FDME224
Art. no.: A5Q00009392

Manual call point FDM224H Electronic switching unit FDME224
Art. no.: A5Q00009392

Manual call point FDM223 Electronic switching unit FDME223
Art. no.: A5Q00003087

Manual call point FDM223H Electronic switching unit FDME223
Art. no.: A5Q00003087

Housing red with key FDMH291-R
Art. no.: A5Q00002217
Housing yellow with key FDMH291-Y
Art. no.: A5Q00004979
Housing green with key FDMH291-G
Art. no.: A5Q00004981
Housing blue with key FDMH291-B
Art. no.: A5Q00004980
Accessories*

Manual call point with glass plate FDM225-RG
Art. no.: A5Q00013434
Accessories*

Manual call point with glass plate incl. back box FDM226-RG
Art. no.: A5Q00013435
Accessories*

Housing with glass and key: FDMH293-R
Art. no.: A5Q00004023
Housing yellow FDMH293-Y
Art. no.: A5Q00004908
Housing green FDMH293-G
Art. no.: A5Q00004911
Housing blue FDMH293-B
Art. no.: A5Q00004909
Housing orange FDMH293-O
Art. no.: S54311-F2-A1
Accessories*

Housing red FDMH292-R
Art. no.: A5Q00005525
Accessories*

Housing with glass and key: FDMH293-R
Art. no.: A5Q00004023
Housing yellow FDMH293-Y
Art. no.: A5Q00004908
Housing green FDMH293-G
Art. no.: A5Q00004911
Housing blue FDMH293-B
Art. no.: A5Q00004909
Housing orange FDMH293-O
Art. no.: S54311-F2-A1
Accessories*

Housing red FDMH292-R
Art. no.: A5Q00005525
Accessories*

* See respective catalog page

Radio fire detection

Radio gateway FDCW221
Art. no.: A5Q00020241

Radio network in SRD band

Base and smoke detector DOW1171
Art. no.: S24218-F62-A5

MCP base SMF6120
Art. no.: S24218-F72-A1

Manual call point SMF121
Art. no.: V24217-C1218-W200

Lithium battery 3.6 V
Art. no.: V24069-Z112-A1

Key
Art. no.: S24217-G34-A1