

SIEMENS



FS720

Cerberus™ PRO **Fire detection system**

**Components / Spare parts /
Repair parts**

IP5

Building Technologies

CPS Fire Safety

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1 About this document

Purpose

This document describes all components, spare parts and repair parts for the Cerberus PRO FS720 fire detection system.



This document is revised and expanded on a continuous basis.

Scope

This document contains information on all available components for IP4.

Target groups

This document arranges itself to all persons.

Reference documents

Refer to the following documents for more information:

A6V10227649	FS720 Fire detection system	Product data sheet
A6V10203220	FC721 Fire control panel (1-loop)	Product data sheet
A6V10206525	FC722 Fire control panel (2-loop)	Product data sheet
A6V10207176	FC724 Fire control panel (4-loop)	Product data sheet
A6V10263277	FC726 Fire control panel (Modular)	Product data sheet
A6V10207898	FT724 Fire terminal	Product data sheet
009393	FT2010-A1, FT2010-C1, FT2011-A1 Floor repeater terminal, floor repeater display	Product data sheet
A6V10082691	FT2001-A1 Mimic display driver, LED flat cable	Product data sheet
A6V10210355	FS720 Fire detection system	Technical description
A6V10210368	FS720 Fire detection system	Characteristic product data
A6V10210362	FS720 Fire detection system	Planning
A6V10210390	FS720 Fire detection system	Installation
A6V10210416	FS720 Fire detection system	Commissioning
A6V10211076	Fx20xx Fire control panel / Fire terminal	Operation
009310, 009311	FT2010-A1, FT2010-C1, FT2011-A1 Floor repeater terminal, floor repeater display	Operation

Conventions

(...)	Additional information
bold letters	Definitions of designations
see	Cross-reference

Document identification

Place	Signification
Title page	<ul style="list-style-type: none"> – System names – Product type – Document purpose
Last page bottom left	<ul style="list-style-type: none"> – Document number – Version date

Modification index

Version	Date	Brief description
A6V10227652_a_en	05.2009	Initial edition
A6V10227652_b_en	05.2010	FC726, FH7204-Z3, FH7205-Z3, FCM7212-Y3, FCL2001-A1, FCI2008-A1
A6V10227652_c_en	07.2010	Panels for version 3.0: New Network components:FN2008-A1, FN2009-A1, FHA2029-A1, FHA2030-A1
A6V10227652_e_en	05.2012	Corrections for IP4 FCA2008-A, FCM7204-Z3, FCM7205-Y3, FCM7206-H3, FN2007-A1, FN2007-A1, FCI2007-A1, FCI2009-A1
A6V10227652_f_en	11.2012	New pictures for batteries FA200x-A1 and new dimensions
A6V10227652_g_en	03.2014	New product SV 24V-150W (V24230-Z6-A5), Update of LPCB numbers, Corrections for IP5

Download

The current issue documentation and photos can be found in the Siemens Intranet.
<https://workspace.sbt.siemens.com/content/00001123/default.aspx> (STEP, Asset Portal)



2 Stand-alone fire control panels

2.1 Fire control panels FC721 (1-loop) in housing (Eco)

FC721-ZZ	Fire control panel (1L)	Part no.	S54400-C32-A2
FC721-YZ	Fire control panel (1L, 1LED)	Part no.	S54400-C32-A3
		Expansion	see chapter 2.2
		Accessories	see chapter 2.3
		Product data sheet	A6V10203220

FC721-ZZ



- The FC721 in housing (Eco) is compact prefabricated fire control panel with integrated operating unit capable of processing FD720 device signals.
- The fire control panel may be used as a stand-alone unit only.
- In addition, an Ethernet connection is available at each station. Via this fast Ethernet interface is remote control service possible.
- The FXS7212 Cerberus-Engineering-Tool permits the system to be adapted to specific customers' requirements.
- The FC721 is ideally suited for smaller applications, e.g. in workshops, hotels, etc.

FC721-YZ



With 24 indicator groups, with each one red and yellow LED

Consists of:

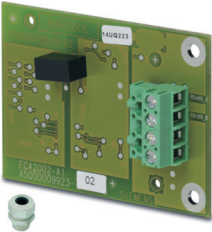
- Housing (Eco)
- Operating unit
- Periphery board
- Power supply 70 W, emergency power supply (batteries must be ordered separately)

Technical data

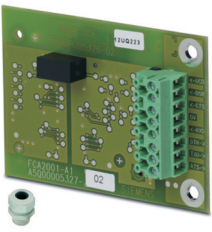
Mains voltage	85...265 VAC
Power supply	70 W
Operating voltage	21...28.6 VDC
Operating current	Max. 2.5 A
Battery capacity	2 x 12 V, 7 Ah
Connectable detector series	Cerberus PRO FD720 (C-NET)
Number of lines	1 loop or 2 stub lines
Number of addresses	Max. 126
Relay output	
– RT alarm	1
– RT fault	1
Monitored outputs	
– Alarm	1
– Fault	1
– Horn	1
Free programmable inputs/outputs	4
Operating temperature	-8...+42 °C
Storage temperature	-20...+60 °C
Humidity (no condensation permitted)	≤95 % rel.
Dimensions (W x H x D)	
– Without cover cap	430 x 398 x 80 mm
– With caver cap	430 x 398 x 108 mm
Color	
– Housing	grey, ~RAL 7035
– Cover	grey, ~RAL-Design 050 00 00
Protection category	IP30
Approvals VdS / LPCB	pending / 126bn/05

2.2 Expansion for fire control panels FC721


2.2.1 RS485 module

FCA2002-A1	RS485 module (isolated)	Part no.	A5Q00009923
			
Application For periphery devices with RS485 interface, e.g. for FAT (GER). – Plugged into the back side of the operating unit.			
Technical data Connection terminals 0.2...1.5 mm ² Dimensions (W x H x D) 50 x 15 x 70 mm			

2.2.2 RS232 module

FCA2001-A1	RS232 module (isolated)	Part no.	A5Q00005327
			
Application For periphery devices with RS232 interface, e.g. for event printer FTO2001-A1 or for external matrix printer DL3750+. – Plugged into the back side of the operating unit.			
Technical data Connection terminals 0.2...1.5 mm ² Dimensions (W x H x D) 50 x 15 x 70 mm			

2.2.3 Housing Eco (empty)

FH7201-Z3	Housing (Eco)	Part no.	S54400-B72-A1
			
Application – Empty housing for open use, e.g. additional batteries, power supply, event printer or mimic displays. – Space for batteries – 2 x FA2003-A1 (7 Ah)			
Technical data Dimensions (W x H x D) 430 x 398 x 80 mm Color – Housing grey, ~RAL 7035 – Cover grey, ~RAL-Design 050 00 00 Protection category IP30			

2.2.4 Housing Standard (empty)

FH7202-Z3	Housing (Standard)	Part no.	S54400-B70-A1
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Application

- Empty housing for open application, e.g. additional batteries, for operating add-on or for the event printer.
- Space for batteries
 - 2 x FA2003-A1 (7 Ah) or
 - 2 x FA2004-A1 (12 Ah) or
 - 2 x FA2006-A1 (26 Ah)

Technical data

Dimensions (W x H x D)	430 x 398 x 160 mm
Color	
– Housing	grey, ~RAL 7035
– Cover	grey, ~RAL-Design 050 00 00
Protection category	IP30

2.2.5 Auxiliary power supply

FP2003-A1	Power supply kit (70 W)	Part no.	A5Q00016005
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Application

Auxiliary power supply to all stations (control panels and terminals).

Function

Converts mains voltage to system voltage. Monitors mains voltage and batteries.

Technical data

Mains voltage	85...265 VAC
Current	0.5...1 A
Power consumption	Max. 90 VA
Dimensions (W x H x D)	95 x 170 x 54 mm

FP2004-A1	Power supply kit (150 W, A)	Part no.	A5Q00020825
------------------	------------------------------------	-----------------	--------------------



Application

- Power supply kit (150 W, A) as auxiliary power supply for installation into empty housing.

Function

Converts mains voltage to system voltage. Monitors mains voltage and batteries.

Technical data

Mains voltage	230 VAC
Current	1.2 A
Power consumption	Max. 300 VA
Dimensions (W x H x D)	130 x 150 x 70 mm

2.2.6 Event printer

FTO2001-A1	Event printer	Part no.	A5Q00010126
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Including cable for interface, power supply and paper roll

Application

The event printer can be used in all control panels, terminals or in all empty housings if space is available.

Function

The event printer is a thermal printer that logs alarms, faults and all messages.

- The RS232 module FCA2001-A1 is required to operate the printer.
- The RS232 module must be ordered separately.

Technical data

Operating voltage	9...48 VDC
Operating current	50 mA
quiescent	3 A
at 9 VDC	0,7 A
at 48 VDC	RS232 serial
Interface	0...+50 °C
Operating temperature	-20...+70 °C
Storage temperature	≤95 % rel.
Humidity (no condensation permitted)	85 x 85 x 55 mm
Dimensions (W x H x D)	

2.3 Accessories for fire control panels FC721

2.3.1 Key switches

FTO2005-C1	Key switch (Kaba)	Part no.	A5Q00010113
FTO2006-B1	Key switch (Nordic)	Part no.	A5Q00010129

FTO2005-C1



FTO2006-B1



Features

Kaba or Nordic key switch with mounting accessories and key as an option for operating access (operating unit).

Technical data

Lock	Kaba, Nordic
Key	Kaba 8 #100, Nordic

2.3.2 Relay module

Z3B171	Relay module 250 VAC, 10 A	Part no.	BPZ: 4843830001
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Application

To connect fire control, e.g. fire doors, fans, elevators, etc.
1 changeover contact 250 VAC / 10 A

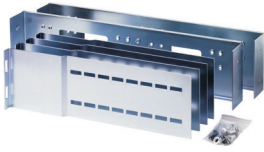
- Is mounted on existing DIN rail TS35.

Technical data

Dimensions (W x H x D)	70 x 50 x 15 mm
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2.3.3 19" mounting kit

FHA2016-A1	19" mounting kit	Part no.	A5Q00020179
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Application

To install fire control panels and fire terminals in a 19" third-party housing.

Technical data

Dimensions (W x H x D)

430 x 100 x 324 mm

2.3.4 Cable kit (communication)

FCA2014-A1	Cable kit (communication)	Part no.	A5Q00023027
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Application

For flexible cable connections to the modules on the PMI- & main board.

2.3.5 Matrix printer (Extern)

DL3750+	Matrix printer (Extern)	Part no.	A5Q00023962
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Application

The Fujitsu DL3750+ is a compact, noiseless A4 matrix printer. It is used for documenting relevant information in a system on continuous paper. The printer is constantly supervised by the fire control panel. The type of events to be printed is configurable. It offers a maximum of speed and reliability.

- The RS232 module FCA2001-A1 is required to operate the printer.
- The RS232 module must be ordered separately.

Technical data

Interface	RS232 serial
Resolution	360 x 360 dpi
Character set	6
Number of copies	5 incl. original
Operating temperature	+5...+38 °C
Storage temperature	-15...+60 °C
Humidity (no condensation)	≤95 % rel.
Dimensions (W x H x D)	415 x 120 x 330 mm

3 Networkable fire control panels

3.1 Fire control panels FC722 (2-loop) in housing (Standard)

FC722-ZZ
FC722-YZ

Fire control panels (2L)
Fire control panels (2L, 1LED)

Part no.	S54400-C29-A5
Part no.	S54400-C29-A4
Expansion	see chapter 0
Accessories	see chapter 3.6
Product data sheet	A6V10206525

FC722-ZZ



- The FC722 in housing (Standard) is a compact, prefabricated fire control panel with integrated operating unit capable of processing FD720 device signals.
- The fire control panel may be used as a stand-alone unit or networked.
- Up to 32 fire control panels and fire terminals can be connected in a single cluster (C-WEB/SAFEDLINK network), or up to 16 panels when the cluster is connected to a danger management system. Using a fiber-optic backbone (C-WEB/LAN) up to 14 of these clusters with up to 16 panels each can be networked. This topology enables the construction of an EN 54-compliant network with up to 64 fire control panels and fire terminals.
- The FXS7212 Cerberus-Engineering-Tool permits the system to be adapted to specific customers' requirements.
- Connection of Siemens Danger Management System.
- Suitable for smaller applications, e.g. workshops, hotels, etc.

FC722-YZ



With 24 indicator groups, with each one red and yellow LED

Consists of:

- Housing (Standard)
- Operating unit
- Periphery board
- Power supply 70 W, emergency power supply (batteries must be ordered separately)

Technical data

Mains voltage	AC 85...265 V
Power supply	70 W
Operating voltage	DC 21...28.6 V
Operating current	Max. 2,5 A
Battery capacity	2 x 12 V, 7...12 Ah
Connectable detector series	Cerberus PRO FD720 (C-NET)
Number of lines	2 (4) loops or 4 (8) stub lines
Number of addresses	Max. 252
Relay output	
– RT alarm	1
– RT fault	1
Monitored outputs	
– Alarm	1
– Fault	1
– Horn	1
Free programmable inputs/outputs	8
Operating temperature	-8...+42 °C
Storage temperature	-20...+60 °C
Humidity (no condensation permitted)	≤95 % rel.
Dimensions (W x H x D)	
– Without cover cap	430 x 398 x 160 mm
– With cover cap	430 x 398 x 188 mm
Color	
– Housing	grey, ~RAL 7035
– Cover	grey, ~RAL-Design 050 00 00
Protection category	IP30
Approvals VdS / LPCB	G209076 / 126bn/06

3.2 Fire control panels FC723 (Modular) in housing (Large)

FC723-ZA	Fire control panel	Part no.	S54400-C143-A1
FC723-ZA		Expansion	see chapter 0
		Accessories	see chapter 3.6
		Product data sheet	A6V10263277



- The FC723 is a modular fire control panel with integrated operating unit which processes signals from Cerberus PRO FD720 devices
- An integrated card cage with 2 slots allows:
 - C-NET line cards FCL2001-A1 to be used (for extra lines)
 - Interactive line cards, FCL 2006-A1
 - Interactive-Ex line cards, FCL2007-A1
 - SynoLOOP line cards, FCL 7201-Z3
 - I/O card FCI2008-A1 (with 12 programmable inputs/outputs)
- Mixed use of all lines and I/O cards possible
- The fire control panel may be used as a stand-alone unit or networked.
- Up to 32 fire control panels and fire terminals can be connected in a single cluster (C-WEB/SAFEDLINK network), or up to 16 panels when the cluster is connected to a danger management system. Using a fiber-optic backbone (C-WEB/LAN) up to 14 of these clusters with up to 16 panels each can be networked. This topology enables the construction of an EN 54-compliant network with up to 32 fire control panels and fire terminals.
- The FXS7212 Cerberus-Engineering-Tool permits the system to be adapted to specific customers' requirements.
- Connection of Siemens Danger Management System.
- Ideally suited for very large and complex applications, e.g. Hotels, high schools, offices complexes, etc. The FC723 can be used by the flexible cross-linking possibilities however also for extensive systems.

Consists of:

- Housing (Large)
- Operating unit
- Periphery board
- Card cage for use of max. 2 line cards and/or I/O card slots
- Power supply 150 W, emergency power supply (batteries must be ordered separately)

Technical data

Mains voltage	AC 230 V
Power supply	150 W
Operating voltage	DC 21...28.4 V
Operating current	Max. 5 A
Battery capacity	2 x 12 V, 45 Ah
Connectable detector series	Cerberus PRO FD720 (C-NET)
Number of lines	2 (4) loops or 4 (8) stub lines
Number of addresses	max. 756
Relay output	
– RT alarm	1
– RT fault	1
Monitored outputs	
– Alarm	1
– Fault	1
– Horn	1
Free programmable inputs/outputs	8
Operating temperature	-8...+42 °C
Storage temperature	-20...+60 °C
Humidity (no condensation permitted)	≤95 % rel.
Dimensions (W x H x D)	
– Without cover cap	430 x 796 x 165 mm
– With cover cap	430 x 796 x 188 mm
Color	
– Housing	grey, ~RAL 7035
– Cover	grey, ~RAL-Design 050 00 00
Protection category	IP30
Approvals VdS / LPCB	pending / pending

3.3 Fire control panels FC724 (4-loop) in housing (Comfort)

FC724-ZA
FC724-ZE

Fire control panels (4L)
Fire control panels (4L, 2LED)

Part no.	S54400-C30-A2
Part no.	S54400-C30-A3
Expansion	see chapter 0
Accessories	see chapter 3.6
Product data sheet	A6V10207176

FC724-ZA



- The FC724 is a compact, prefabricated fire control panel with integrated operating unit capable of processing FD720 device signals.
- The fire control panel may be used as a stand-alone unit or networked.
- Up to 32 fire control panels and fire terminals can be connected in a single cluster (C-WEB/SAFEDLINK network), or up to 16 panels when the cluster is connected to a danger management system. Using a fiber-optic backbone (C-WEB/LAN) up to 14 of these clusters with up to 16 panels each can be networked. This topology enables the construction of an EN 54-compliant network with up to 64 fire control panels and fire terminals.
- The FXS7212 Cerberus-Engineering-Tool permits the system to be adapted to specific customers' requirements.
- Connection of Siemens Danger Management System.
- Ideally suited for large-size applications, e.g. industrial facilities, regional banks, office complexes, etc. The FC724 can be used by the flexible cross-linking possibilities however also for extensive systems.

Consists of:

- Housing (Comfort)
- Operating unit
- Periphery board
- Power supply 150 W, emergency power supply (batteries must be ordered separately)

FC724-ZE



With 48 indicator groups, with each one red and yellow LED

Technical data

Mains voltage	AC 230 V
Power supply	150 W
Operating voltage	DC 21...28.4 V
Operating current	Max. 5 A
Battery capacity	2 x 12 V, 7...26 Ah
Connectable detector series	Cerberus PRO FD720 (C-NET)
Number of lines	4 (8) loops or 8 (16) stub lines
Number of addresses	Max. 504
Relay output	
– RT alarm	1
– RT fault	1
Monitored outputs	
– Alarm	1
– Fault	1
– Horn	2
Free programmable inputs/outputs	12
Operating temperature	-8...+42 °C
Storage temperature	-20...+60 °C
Humidity (no condensation permitted)	≤95 % rel.
Dimensions (W x H x D)	
– Without cover cap	430 x 796 x 160 mm
– With cover cap	430 x 796 x 188 mm
Color	
– Housing	grey, ~RAL 7035
– Cover	grey, ~RAL-Design 050 00 00
Protection category	IP30
Approvals VdS / LPCB	G209077 / 126bn/07

3.4 Fire control panels FC726 (Modular) in housing (Large)

FC726-ZA	Fire control panels (4L)	Part no.	S54400-C87-A1
FC726-ZA		Expansion	see chapter 3.5
		Accessories	see chapter 3.6
		Product data sheet	A6V10263277



- The FC726 is a modular fire control panel with integrated operating unit which processes signals from Cerberus PRO FD720 devices
- An integrated card cage with 5 slots allows:
 - C-NET line cards FCL2001-A1 to be used (for extra lines)
 - I/O card FCI2008-A1 (with 12 programmable inputs/outputs)
- Mixed use of all lines and I/O cards possible
- The fire control panel may be used as a stand-alone unit or networked.
- Up to 32 fire control panels and fire terminals can be connected in a single cluster (C-WEB/SAFEDLINK network), or up to 16 panels when the cluster is connected to a danger management system. Using a fiber-optic backbone (C-WEB/LAN) up to 14 of these clusters with up to 16 panels each can be networked. This topology enables the construction of an EN 54-compliant network with up to 64 fire control panels and fire terminals.
- The FXS7212 Cerberus-Engineering-Tool permits the system to be adapted to specific customers' requirements.
- Connection of Siemens Danger Management System.
- Ideally suited for very large and complex applications, e.g. Hotels, high schools, offices complexes, etc. The FC726 can be used by the flexible cross-linking possibilities however also for extensive systems.

Consists of:

- Housing (Large)
- Operating unit
- Periphery board
- Card cage for use of max. 5 line cards (C-NET) and/or I/O cards. 5 slots
- Power supply 150 W, emergency power supply (batteries must be ordered separately)

Technical data

Mains voltage	AC 230 V
Power supply	150 W
Operating voltage	DC 21...28.4 V
Operating current	Max. 5 A
Battery capacity	2 x 12 V, 45 Ah
Connectable detector series	Cerberus PRO FD720 (C-NET)
Number of lines	4 (8) loops or 8 (16) stub lines
Number of addresses	Max. 1512
Relay output	
– RT alarm	1
– RT fault	1
Monitored outputs	
– Alarm	1
– Fault	1
– Horn	2
Free programmable inputs/outputs	12
Operating temperature	-8...+42 °C
Storage temperature	-20...+60 °C
Humidity (no condensation permitted)	≤95 % rel.
Dimensions (W x H x D)	
– Without cover cap	430 x 796 x 260 mm
– With cover cap	430 x 796 x 288 mm
Color	
– Housing	grey, ~RAL 7035
– Cover	grey, ~RAL-Design 050 00 00
Protection category	IP30
Approvals VdS / LPCB	G201084 / 126bn/08

3.5 Expansion for fire control panels FC722, FC723, FC724 and FC726

3.5.1 License keys

FCA2033-A1	License key (S1)	Part no.	S54400-P154-A1
FCA2034-A1	License key (S2)	Part no.	S54400-P155-A1
FCA2035-A1	License key (S3)	Part no.	S54400-P156-A1



Application

S1 iButton

S2 iButton

S3 iButton

- New series of license keys to support the growing number of applications
- Replaces license keys L1 and L2.
- Backward compatible
- Type of installed license key is displayed in the Cerberus Engineering Tool

3.5.2 Event printer

FTO2001-A1	Event printer	Part no.	A5Q00010126
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Including cable for interface, power supply and paper roll

Application

The event printer can be used in all control panels, terminals or in all empty housings if space is available.

Function

The event printer is a thermal printer that logs alarms, faults and all messages.

- The RS232 module FCA2001-A1 is required to operate the printer.
- The RS232 module must be ordered separately.

Technical data

Operating voltage	DC 9...48 V
Operating current	50 mA
quiescent	3 A
at DC 9 V	0.7 A
at DC 48 V	RS232 serial
Interface	0...+50 °C
Operating temperature	-20... +70 °C
Storage temperature	≤95 % rel.
Humidity (no condensation permitted)	85 x 85 x 55 mm
Dimensions (W x H x D)	

3.5.3 Mounting plate

FHA2007-A1	Mounting plate	Part no.	A5Q00010151
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Features

The mounting plate can pivot allowing access to the underlying module. E.g. to mount the fire brigade periphery module or the sounder modules.

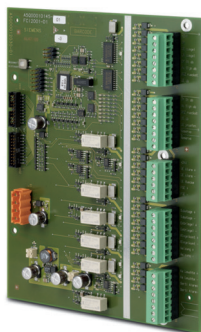
- Screwed on to the back wall of the housings.

Technical data

Dimensions (W x H x D)	221 x 241 x 46 mm
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3.5.4 Fire brigade periphery module

FCI2001-D1	Fire brigade periphery module	Part no.	A5Q00013100
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Application

For VdS compliant switching to fire department periphery devices (for Germany).

Features

The module has connections for FBF, FSD, ÜE, FSE, ÖA, KL, tamper alarm FSD.

- Mounted in the housing on the mounting plate FHA2007-A1, or on the back wall of the housing.

Technical data

Operating voltage	21...28.6 VDC
Operating current	max. 1.6 A
Connection terminals VdS peripheral devices	0.2...1.5 mm ²
Connection terminals for power supply	0.5...2.5 mm ²
Dimensions (W x H x D)	150 x 190 x 40 mm

3.5.5 Sounder module

FCA2005-A1	Sounder module	Part no.	A5Q00014866
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2 mounting feeds



Application

With the sounder module it's possible to split up a collective horn line on 4 lines. Each of this line controls and monitored each individual sounder. 2 sounder modules can be used, but condition is a cascading of both.

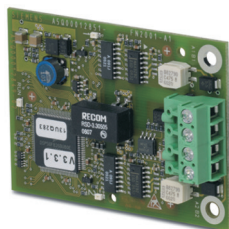
- The sounder module can be mounted onto the mounting plate FHA2007-A1 or onto the U-rail TS35 in control panel with the enclosed mounting feeds.

Technical data

Operating voltage	21...28.6 VDC
Operating current	Max. 2 A (fused with 2 AT)
Quiescent current	20 mA
Supervised output	4 x 1 A
Cable capacity	0,08...1,5 mm ²
Humidity	≤95 % rel. rel.
Color housing / cover	pure white, RAL 9010 / transparent matt
Dimensions (W x H x D)	132 x 90 x 24 mm

3.5.6 Network module (SAFEDLINK)

FN2001-A1	Network module (SAFEDLINK)	Part no.	A5Q00012851
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Application

To network multiple stations C-WEB/SAFEDLINK.

- Plugged into the back side of the operating unit.

Technical data

Connection terminals	0,2...2.5 mm ²
Dimensions (W x H x D)	50 x 20 x 70 mm

3.5.7 Repeater (SAFEDLINK)

FN2002-A1	Repeater (SAFEDLINK)	Part no.	S24236-B2502-A1
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2 mounting feeds



Application

The module is a repeater in the C-WEB. It is used for the extension of the range of the system bus C-WEB. Between 2 stations max. 1 repeater can be used. The distance between network module and repeater may be max. 1000 m.

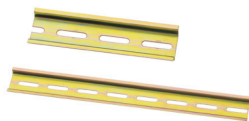
- The repeater can be mount directly on a plane surface, onto a U-rail TS35 with the enclosed mounting feeds or in a housing FDCH221.

Technical data

Communication protocol	SAFEDLINK (UDP/IP)
Operating voltage	9...30 VDC
Operating current	Max. 45 mA
Connection terminals	0.08...1.5 mm ²
Humidity	≤95 % rel. rel.
Color housing / cover	pure white, RAL 9010 / transparent matt
Protection category EN60529/IEC529	IP30
– with aux. housing FDCH221	IP65
Dimensions (W x H x D)	130 x 90 x 20 mm

3.5.7.1 Accessories for repeater

–	U-rail TS35, L=122 mm	Part no.	BPZ:5644780001
–	U-rail TS35, L=288 mm	Part no.	BPZ:5644230001



Application

Universal mounting rail enables mounting of various equipments.

FDCH221	Housing for input/output modules	Part no.	S54312-F3-A1
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Application

For the mounting of the input/output modules, repeater etc. for wet applications.

Technical data

Protection category EN60529/IEC529	IP65
Color housing / cover	white, ~RAL 9010 / transparent matt
Dimensions	207 x 119 x 48 mm

–	Metal screwed cable gland M20 x 1.5	Part no.	A5Q00004478
–	Back nut	Part no.	A5Q00004479

**Application**

For surface-mounted feed lines.

Technical data

Cable gland

Dimensions

M20 x 1.5

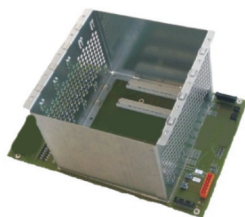
Back nut

Dimensions

M20

3.5.8 FCA2007-A1

FCA2007-A1	Card cage (2 slots)	Part no.	S54400-B38-A1
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**Application**

Enables use of max. 2 module bus cards in any combination (FC723)

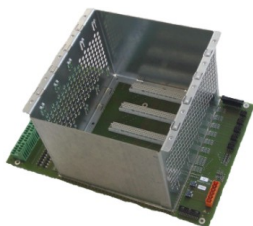
Technical data

Connection terminals

0.2...1.5 mm²

3.5.9 FCA2008-A1

FCA2008-A1	Card cage (5 slots)	Part no.	S54400-B28-A1
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**Application**

Enables use of max. 5 module bus cards in any combination (FC726)

Technical data

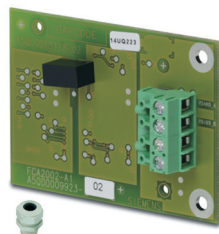
Connection terminals

Dimensions (W x H x D)

0.2...1.5 mm²

3.5.10 RS485 module

FCA2002-A1	RS485 module (isolated)	Part no.	A5Q00009923
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**Application**

For periphery devices with RS485 interface, e.g. for FAT (GER).

– Plugged into the back side of the operating unit.

Technical data

Connection terminals

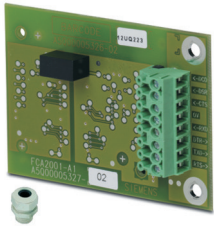
Dimensions (W x H x D)

0.2...1.5 mm²

50 x 15 x 70 mm

3.5.11 RS232 module

FCA2001-A1	RS232 module (isolated)	Part no.	A5Q00005327
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Application

For periphery devices with RS232 interface, e.g. for event printer FTO2001-A1 or for external matrix printer DL3750+.

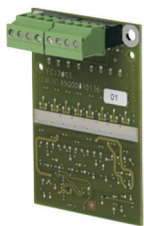
- Plugged into the back side of the operating unit.

Technical data

Connection terminals	0.2...1.5 mm ²
Dimensions (W x H x D)	50 x 15 x 70 mm

3.5.12 Loop extension (C-NET)

FCI2003-A1	Loop extension (C-NET)	Part no.	A5Q00010136
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Application

With the loop extension, the number of connectable loops is doubled from 2 to 4. The number of C-NET addresses per station remains unchanged. For each integrated line one loop extension can be equipped.

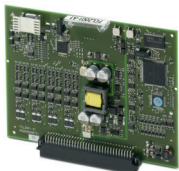
- Plugged onto the periphery board of the control panel.

Technical data

Number of detector lines	2 loops or 4 stub lines
Connection terminals	0.2...1.5 mm ²
Dimensions (W x H x D)	48 x 20 x 70 mm

3.5.13 Line card (C-NET)

FCL2001-A1	Line card (C-NET)	Part no.	A5Q00009875
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Application

The C-NET line card is an additional card to the integrated C-NET lines. It is used to expand FC726 with additional C-NET lines. Additionally, it can be applied when modernizing legacy detector lines to Cerberus. In this case, the legacy line card can simply be replaced by the C-NET line card. All C-NET devices can be connected to the line card.

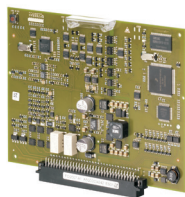
- Is mounted in card cage (5 slots) of FC726 fire control panel.

Technical data

Input current	max. 0.8 A
Number of detector lines	4 loops or 8 stub lines
Number of addresses	max. 252

3.5.14 I/O card (RT)

FCI2007-A1	I/O card (RT)	Part no.	S54400-A20-A1
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Application

For the transmission of alarms and faults. The card is mounted in the card cage (5 slots) of the fire control panel FC726.

2x monitored outputs for RT alarm / Horns
 1x relay output RT alarm
 1x monitored output RT fault
 1x relay output RT fault
 2x I/O

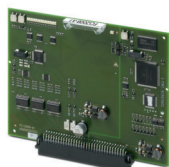
– I Exchange of defective cards possible during operation (Hot Plug)

Technical data

Input current	max. 4 A
Programmable inputs/outputs	8

3.5.15 I/O card (programmable)

FCI2008-A1	I/O card (programmable)	Part no.	S54400-A6-A1
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Application

The I/O card is an additional card with programmable inputs and outputs for expansion of the integrated inputs and outputs.

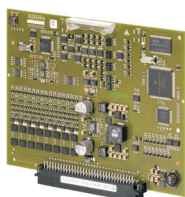
– Is mounted in card cage (5 slots) of FC726 fire control panel.

Technical data

Input current	max. 2 A
Programmable inputs/outputs	12

3.5.16 I/O card (horn/monitored)

FCI2009-A1	I/O card (horn/monitored)	Part no.	S54400-C103-A1
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Application

For 8 monitored horn lines or monitored outputs. The card is mounted in the card cage (5 slots) of the fire control panel FC726.

Configurable as supervised horn outputs / flashing lights or fire controls,
 Max. 2 A / output,
 Max. 4 A / card

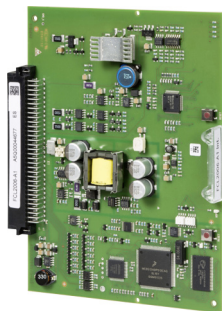
– I Exchange of defective cards possible during operation (Hot Plug)

Technical data

Input current	max. 4 A
Programmable outputs	8

3.5.17 Line card (Interactive)

FCL2006-A1	Line card (Interactive)	Part no.	S54400-A108-A1
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Application

The Interactive line card is an additional card for Interactive fire detectors with addressable signal evaluation. The line card is required for the migration of Interactive detectors to Cerberus Pro C-NET devices. The line card is designed for 1 loop per card.

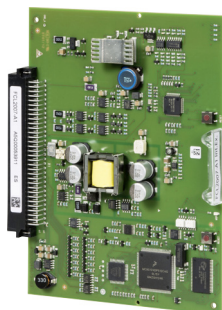
- Is mounted in card cage of FC723 (2 slots) and of FC726 (5 slots) fire control panels.

Technical data

Output current	max. 0.5 A per card
Number of detector lines	1 loop
Number of addresses	max. 128

3.5.18 Line card (Interactive-Ex)

FCL2007-A1	Line card (Interactive-Ex)	Part no.	S54400-A134-A1
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Application

The Interactive-Ex line card is an additional card for Interactive-Ex fire detectors with addressable signal evaluation. The line card is required for the migration of Interactive-Ex detectors to Cerberus Pro C-NET-Ex devices. The line card is designed for 1 loop per card.

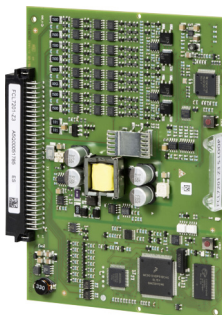
- Is mounted in card cage of FC723 (2 slots) and of FC726 (5 slots) fire control panels.

Technical data

Output current	max. 0.5 A per card
Number of detector lines	1 loop
Number of addresses	max. 30

3.5.19 Line card (SynoLOOP)

FCL2007-A1	Line card (SynoLOOP)	Part no.	S54400-A134-A1
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Application

The SynoLOOP line card is an additional card with 4 loops (per loop 128 addresses).

- Is mounted in card cage of FC723 (2 slots) and of FC726 (5 slots) fire control panels.

Technical data

Output current	max. 0.5 A per card
Number of detector lines	4 loops
Number of addresses per loop	max. 128

3.5.20 Network components

FN2008-A1	Ethernet switch)	Part no.	S54400-F94-A1
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Application

The Ethernet switch connects individual clusters via the Ethernet backbone. A second switch can be added if a cluster has more than 512 detectors. With a mounting kit (FHA2029-A1 or FHA2030-A1), the Ethernet switch can be easily integrated into panels or additional housings.

NK8237.2	Modbus GW)	Part no.	S54461-C7-A1
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Application

The NK8237 Modbus GW allows bi-directional communication between 3rd party Modbus devices and Cerberus PRO fire detection panels via standard open Modbus protocol.

FN2006-A1	Fiber network module (SM)	Bestell-Nr.	S54400-A61-A1
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Application

With the fiber optic cable network module **Single Mode (SM)**, FS20 stations can be networked over great distances by means of glass fiber optic cables using the system bus FCnet/SAFEDLINK. The single mode transmission goes up to 40 km

FN2007-A1	Fiber network module (MM)	Bestell-Nr.	S54400-A62-A1
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Application

With the fiber optic cable network module **Multi Mode (MM)**, FS20 stations can be networked over great distances by means of glass fiber optic cables using the system bus FCnet/SAFEDLINK. The multi mode transmission goes up to 4 km

FHA2029-A1	Mounting kit	Part no.	S54400-B79-A1
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Application
Mounting kit for Ethernet switch (Comfort)

FHA2030-A1	Mounting kit	Part no.	S54400-B81-A1
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Application
Mounting kit for Ethernet switch (Large)

3.5.21 Housing Standard und Comfort (empty)

FH7202-Z3	Housing (Standard)	Part no.	S54400-B70-A1
FH7204-Z3	Housing (Comfort)	Part no.	S54400-B89-A1

FH7202-Z3



Application
FH7202-Z3

- Empty housing for open application, e.g. additional batteries, for operating add-on or for the event printer.
- Space for batteries
 - 2 x FA2003-A1 (7 Ah) or
 - 2 x FA2004-A1 (12 Ah) or
 - 2 x FA2006-A1 (26 Ah)

FH7204-Z3



FH7204-Z3

- Empty housing for open application, e.g. additional batteries, for operating add-on or for the event printer.
- Space for batteries
 - 2 x FA2007-A1 (45 Ah) or
 - 2 x FA2008-A1 (65 Ah) or
 - 2 x FA2009-A1 (100 Ah)

Technical data

Dimensions (W x H x D)	FH7202-Z3	430 x 398 x 160 mm
Dimensions (W x H x D)	FH7204-Z3	430 x 398 x 260 mm
Color		
– Housing		grey, ~RAL 7035
– Cover		grey, ~RAL-Design 050 00 00
Protection category		IP30

3.5.22 Housing Comfort und Large (empty)

FH7203-Z3	Housing (Comfort)	Part no.	S54400-B71-A1
FH7205-Z3	Housing (Large)	Part no.	S54400-B86-A1

FH7203-Z3



Application

FH7203-Z3

- Empty housing for open application, e.g. additional batteries, for operating add-on or for the event printer.
- Space for batteries
 - 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)

FH7205-Z3

- Empty housing for open application, e.g. additional batteries, for operating add-on or for the event printer.
- Space for batteries
 - 4 x FA2006-A1 (26 Ah) or
 - 4 x FA2007-A1 (45 Ah) or
 - 2 x FA2008-A1 (65 Ah) or
 - 2 x FA2009-A1 (100 Ah)


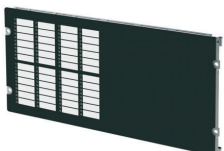
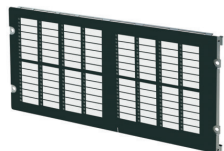
FH7205-Z3



Technical data

Dimensions (W x H x D)	FH7203-Z3	430 x 796 x 160 mm
Dimensions (W x H x D)	FH7205-Z3	430 x 796 x 260 mm
Color		
– Housing		grey, ~RAL 7035
– Cover		grey, ~RAL-Design 050 00 00
Protection category		IP30

3.5.23 Operating add-on

FCM7205-Y3	Operating add on (1xLED ind.)	Part no.	S54400-F82-A1
	Application To update 24 LED display groups, with one red and one yellow LED each. Inclusive cables and screws for installation.		
	– Can be inserted in all empty housings.		
	Technical data Dimensions (W x H x D)	427 x 200 x 25 mm	
FCM7213-Y3	Operating add-on (2xLED ind.)	Part no.	S54400-B149-A1
	Application To update 48 LED display groups, with one red/green (selectable) and yellow LED each.		
	– Can be inserted in all available housings.		
	Technical data Dimensions (W x H x D)	427 x 200 x 25 mm	
FCM7214-Y3	Operating add-on (4xLED ind.)	Part no.	S54400-B150-A1
	Application To update 96 LED display groups, with one red/green (selectable) and yellow LED each.		
	– Can be inserted in all available housings.		
	Technical data Dimensions (W x H x D)	427 x 200 x 25 mm	

3.5.24 Auxiliary power supply

FP2003-A1	Power supply kit (70 W)	Part no.	A5Q00016005
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Application

Auxiliary power supply to all stations (control panels and terminals).

Function

Converts mains voltage to system voltage. Monitors mains voltage and batteries.

Technical data

Mains voltage	AC 85...265 V
Current	0.5...1 A
Power consumption	Max. 90 VA
Dimensions (W x H x D)	95 x 170 x 54 mm

FP2004-A1	Power supply kit (150 W, A)	Part no.	A5Q00020825
FP2005-A1	Power supply kit (150 W, B)	Part no.	A5Q00018779



Application

- Power supply kit (150 W, A) as auxiliary power supply for installation into empty housing.
- Power supply kit (150 W, B) as auxiliary power supply for cascading.

Function

Converts mains voltage to system voltage. Monitors mains voltage and batteries.

Technical data

Mains voltage	AC 230 V
Current	1.2 A
Power consumption	Max. 300 VA
Dimensions (W x H x D)	130 x 150 x 70 mm

3.6 Accessories for fire control panels FC722, FC724 and FC726

3.6.1 Key switches

FTO2005-C1	Key switch (Kaba)	Part no.	A5Q00010113
FTO2006-B1	Key switch (Nordic)	Part no.	A5Q00010129

FTO2005-C1



Features

Kaba or Nordic key switch with mounting accessories and key as an option for operating access (operating unit).

FTO2006-B1



Technical data

Lock

Kaba, Nordic

Key

Kaba 8 #100, Nordic

3.6.2 Relay module

Z3B171	Relay module 250 VAC, 10 A	Part no.	BPZ: 4843830001
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Application

To connect fire control, e.g. fire doors, fans, elevators, etc.
1 changeover contact AC 250 V / 10 A

– Is mounted on existing DIN rail TS35.

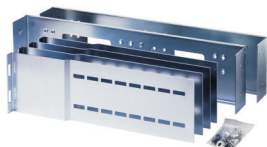
Technical data

Dimensions (W x H x D)

70 x 50 x 15 mm

3.6.3 19" mounting kit

FHA2016-A1	19" mounting kit	Part no.	A5Q00020179
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Application

To install fire control panels and fire terminals in a 19" third-party housing.

Technical data

Dimensions (W x H x D)	430 x 100 x 324 mm
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3.6.4 Cable kit (communication)

FCA2014-A1	Cable kit (communication)	Part no.	A5Q00023027
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Application

For flexible cable connections to the modules on the PMI- & main board.

3.6.5 Matrix printer (Extern)

DL3750+	Matrix printer (Extern)	Part no.	A5Q00023962
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Application

The Fujitsu DL3750+ is a compact, noiseless A4 matrix printer. It is used for documenting relevant information in a system on continuous paper. The printer is constantly supervised by the fire control panel. The type of events to be printed is configurable. It offers a maximum of speed and reliability.

- The RS232 module FCA2001-A1 is required to operate the printer.
- The RS232 module must be ordered separately.

Technical data

Interface	RS232 serial
Resolution	360 x 360 dpi
Character set	6
Number of copies	5 incl. original
Operating temperature	+5...+38 °C
Storage temperature	-15...+60 °C
Humidity (no condensation)	≤95 % rel.
Dimensions (W x H x D)	415 x 120 x 330 mm

4 Networkable fire terminal

4.1 Fire terminal FT724 in housing (Eco)

FT724-ZZ

Fire terminal

Part no.

S54400-C31-A2

Expansion

see chapter 4.2

Accessories

See chapter 4.3

Product data sheet

A6V10207898

FT724-ZZ



- The fire terminal is an operating panel remote from the control unit.
- Up to 32 fire control panels and fire terminals can be connected in a single cluster (C-WEB/SAFEDLINK network), or up to 16 panels when the cluster is connected to a danger management system. Using a fiber-optic backbone (C-WEB/LAN) up to 14 of these clusters with up to 16 panels each can be networked. This topology enables the construction of an EN 54-compliant network with up to 64 fire control panels and fire terminals.
- Connection of Siemens Danger Management System.

consists of:

- Housing (Eco)
- Operating unit
- Fire terminal board
- Place for optional power supply 70 W, emergency power supply (batteries must be ordered separately)

Technical data

Operating voltage	DC 21...28.6 V
Current consumption at 24 V	
– Quiescent current (illumination of the LCD inactive)	125 mA
– Alarm current (illumination of the LCD active)	130 mA
Operating temperature	-8...+42 °C
Storage temperature	-20...+60 °C
Humidity (no condensation permitted)	≤95 % rel.
Dimensions (W x H x D)	
– Without cover cap	430 x 398 x 80 mm
– With cover cap	430 x 398 x 108 mm
Color	
– Housing	grey, ~RAL 7035
– Cover	grey, ~RAL-Design 050 00 00
Protection category	IP30
Approvals VdS / LPCB	G209078 / 126bn/R02

4.2 Expansion for fire terminal FT724

4.2.1 License keys

FCA2033-A1

License key (S1)

Part no.

S54400-P154-A1

FCA2034-A1

License key (S2)

Part no.

S54400-P155-A1

FCA2035-A1

License key (S3)

Part no.

S54400-P156-A1

Details see chapter 3.5.1



4.2.2 Event printer

FTO2001-A1

Event printer

Part no.

A5Q00010126

Details see chapter 3.5.2



4.2.3 Network module (SAFEDLINK)

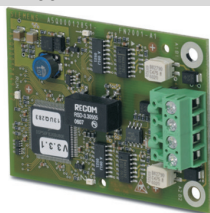
FN2001-A1

Network module (SAFEDLINK)

Part no.

A5Q00012851

Details see chapter 3.5.6



4.2.4 RS485 module

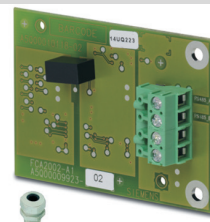
FCA2002-A1

RS485 module (isolated)

Part no.

A5Q00009923

Details see chapter 3.5.103.5.8



4.2.5 RS232 module

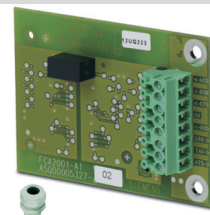
FCA2001-A1

RS232 module (isolated)

Part no.

A5Q00005327

Details see chapter 3.5.11



4.2.6 Network components

FN2008-A1	Ethernet switch)	Part no.	S54400-F94-A1
------------------	-------------------------	-----------------	----------------------



Application

The Ethernet switch connects individual clusters via the Ethernet backbone. A second switch can be added if a cluster has more than 512 detectors. With a mounting kit (FHA2029-A1 or FHA2030-A1), the Ethernet switch can be easily integrated into panels or additional housings.

FN2009-A1	Security module)	Part no.	S54400-F95-A1
------------------	-------------------------	-----------------	----------------------



Application

The security module protects devices and networks in automation and industrial communication with a combination of different security measures such as firewall and VPN (Virtual Private Network) via IPsec tunnel. The security module can be easily integrated into a panel with a mounting kit (FHA2029-A1 or FHA2030-A1).

FN2006-A1	Fiber network module (SM)	Bestell-Nr.	S54400-A61-A1
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Application

With the fiber optic cable network module **Single Mode (SM)**, FS20 stations can be networked over great distances by means of glass fiber optic cables using the system bus FCnet/SAFEDLINK. The single mode transmission goes up to 40 km

FN2007-A1	Fiber network module (MM)	Bestell-Nr.	S54400-A62-A1
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Application

With the fiber optic cable network module **Multi Mode (MM)**, FS20 stations can be networked over great distances by means of glass fiber optic cables using the system bus FCnet/SAFEDLINK. The multi mode transmission goes up to 4 km

FHA2029-A1	Mounting kit	Part no.	S54400-B79-A1
-------------------	---------------------	-----------------	----------------------



Application
Mounting kit for Ethernet switch (Comfort)

FHA2030-A1	Mounting kit	Part no.	S54400-B81-A1
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Application
Mounting kit for Ethernet switch (Large)


4.2.7 Power supply kit (70 W)

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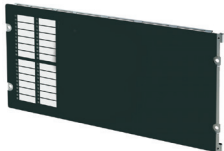
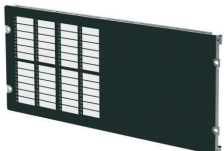
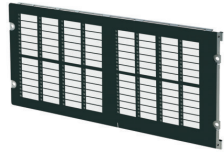


Details see chapter 3.5.24

4.2.8 Housing (Eco)

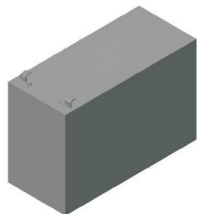
FH7201-Z3	Housing (Eco)	Part no.	S54400-B72-A1
	Application – Empty housing for open use, e. g. additional batteries, power supply, event printer or mimic displays.		
	Technical data Dimensions (W x H x D) 430 x 398 x 80 mm Color – Housing grey, ~RAL 7035 – Cover grey, ~RAL-Design 050 00 00 Protection category IP30		

4.2.9 Operating add-on

FCM7205-Y3	Operating add on (1xLED ind.)	Part no.	S54400-F82-A1
	Application To update 24 LED display groups, with one red and one yellow LED each. Inclusive cables and screws for installation. – Can be inserted in all empty housings.		
	Technical data Dimensions (W x H x D) 427 x 200 x 25 mm		
FCM7213-Y3	Operating add-on (2xLED ind.)	Part no.	S54400-B149-A1
	Application To update 48 LED display groups, with one red/green (selectable) and yellow LED each. – Can be inserted in all available housings.		
	Technical data Dimensions (W x H x D) 427 x 200 x 25 mm		
FCM7214-Y3	Operating add-on (4xLED ind.)	Part no.	S54400-B150-A1
	Application To update 96 LED display groups, with one red/green (selectable) and yellow LED each. – Can be inserted in all available housings.		
	Technical data Dimensions (W x H x D) 427 x 200 x 25 mm		

4.2.10 Battery

FA2003-A1	Battery (12 V, 7 Ah, VDS) Details see chapter 5	Part no.	A5Q00019353
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4.3 Accessories for fire terminal FT724

4.3.1 Key switches

FTO2005-C1	Key switch (Kaba)	Part no.	A5Q00010113
FTO2006-B1	Key switch (Nordic) Details see chapter 3.6.1	Part no.	A5Q00010129



4.3.2 19" mounting kit

FHA2016-A1	19" mounting kit Details see chapter 3.6.3	Part no.	A5Q00020179
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4.3.3 Cable kit (communication)

FCA2014-A1	Cable kit (communication) Details see chapter 3.6.4	Part no.	A5Q00023027
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4.4 Floor repeater display and floor repeater terminal

4.4.1 Floor repeater terminals

FT2010-A1

Floor repeater terminal

Part no.

A5Q00014104

Product data sheet 009393



Application

Small display and operating panel for floors.

The floor repeater terminal is a C-NET device and can be operated in loops or stub lines.

Features

- Display of alarms, pre-alarms, technical messages, faults, isolations possible
- Acknowledge and reset events
- Event text identical to the fire control panel or fire terminal
- Operating access with key
- The key switch (Nordic) may be replaced by key switch (Kaba)
- Power supply via C-NET, separate 24 V power supply possible

Technical data

Operating voltage	DC 12...32 V
External supply input	DC 20...30 V / AC 15...18 V
Current consumption at 24 V	
– Quiescent current (LCD lighting inactive)	5 mA
– Maximum current (LCD lighting active)	45 mA
LCD illumination white	6 x 40 characters
Key switch for operating access	Nordic
Operating temperature	-8...+42 °C
Storage temperature	-20...+60 °C
Humidity (no condensation permitted)	≤95 % rel.
Communication protocol	C-NET
Connection terminals	0.8...1.5 mm ²
Protection category	IP30
Color	grey, ~RAL 7035
Dimensions (W x H x D)	283 x 207 x 79 mm
Approvals VdS / LPCB	G208011 / 126bp/02

FT2010-C1

Floor repeater terminal

Part no.

S54400-F34-A1

Product data sheet 009393



Application

Small display and operating panel for floors.

The floor repeater terminal is a C-NET device and can be operated in loops or stub lines.

Features

- Display of alarms, pre-alarms, technical messages, faults, isolations possible
- Acknowledge and reset events
- Event text identical to the fire control panel or fire terminal
- Operating access with key
- With key switch Kaba and flat rear (sheet metal)
- Power supply via C-NET, separate 24 V power supply possible

Technical data

Operating voltage	DC 12...32 V
External supply input	DC 20...30 V / AC 15...18 V
Current consumption at 24 V	
– Quiescent current (LCD lighting inactive)	5 mA
– Maximum current (LCD lighting active)	45 mA
LCD illumination white	6 x 40 characters
Key switch for operating access	Nordic
Operating temperature	-8...+42 °C
Storage temperature	-20...+60 °C
Humidity (no condensation permitted)	≤95 % rel.
Communication protocol	C-NET
Connection terminals	0.8...1.5 mm ²
Protection category	IP30
Color	grey, ~RAL 7035
Dimensions (W x H x D)	283 x 207 x 79 mm
Approvals VdS / LPCB	pending / —

4.4.2 Floor repeater display

FT2011-A1

Floor repeater display

Part no.

A5Q00017706

Product data sheet 009393



Application

Small display panel for floors.

The floor repeater display is a C-NET device and can be operated in loops or stub lines.

Features

- Display of alarms, pre-alarms, technical messages, faults, isolations possible
- Event text identical to the fire control panel or fire terminal
- Buzzer can be switched off for alarm messages
- Power supply via C-NET, separate 24 V power supply possible

Technical data

Operating voltage	DC 12...32 V
External supply input	DC 20...30 V / AC 15...18 V
Current consumption at 24 V	
– Quiescent current (LCD lighting inactive)	5 mA
– Maximum current (LCD lighting active)	45 mA
LCD illumination white	6 x 40 characters
Operating temperature	-8...+42 °C
Storage temperature	-20...+60 °C
Humidity (no condensation permitted)	≤95 % rel.
Communication protocol	C-NET
Connection terminals	0.8...1.5 mm ²
Protection category	IP30
Color	grey, ~RAL 7035
Dimensions (W x H x D)	283 x 207 x 79 mm
Approvals VdS / LPCB	G208011 / 126bp/03

4.4.2.1 Accessory for floor repeater terminal FT2010-A1

FTO2005-C1

Key switch (Kaba)

Part no.

A5Q00010113

Details see chapter 3.6.1



4.4.2.2 Accessory for FT2010-A1 and FT2011-A1

FHA2013-A1

Rear (FT201x flat)

Part no.

A5Q00016552



Application

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.

Technical data

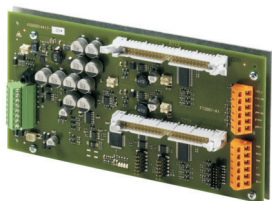
Material	Zinc-plated sheet metal
Dimensions (W x H x D)	271 x 191 x 27.5 mm

4.5 Mimic display driver

FT2001-A1**Mimic display driver****Part no.****A5Q00014417**

Product data sheet

A6V10082691

**Application**

The FT2001-A1 has 2x24 outputs for LED activation for mimic display panels.
The mimic display driver is a C-NET device and can be operated in loops or stub lines.

Features

- 2 control outputs for 'Local buzzer' and 'LED operation'
- 2 inputs for 'Switch-off buzzer' and 'Lamp test'
- integrated line separator
- Power supply via C-NET, separate 24 V power supply possible
- Connection to LED via flat cable F50F410 (50-wire, 24 red LEDs, cable length 1 m, must be ordered separately).

Technical data

Operating voltage	DC 12...32 V
Operating current	Max. 45 mA
Quiescent current	Max. 5 mA
External supply input	DC 14...32 V, galvanically isolated AC 11...22 V, galvanically isolated
Outputs	
– 'Operating LED'	Max. 2.5 mA und 2.5 VDC
– 'Local buzzer'	Max. 5 mA und 12 VDC
Operating temperature	0...+40 °C
Storage temperature	-20...+60 °C
Humidity	≤95 % rel.
Communication protocol	C-NET
Connection terminals	0,08...1,5 mm ²
Protection category	IP30 (3rd party housing)
Dimensions (W x H x D)	106 x 200 x 45 mm
Approvals VdS / LPCB	G208044 / 126bp/01

F50F410**LED flat cable 50-wire, with 24 red LEDs****Part no.****BPZ:5291410001****Application**

Two F50F410 LED cables can be connected directly to the mimic display driver to offer a total of 48 (2x24) red LEDs.

Features

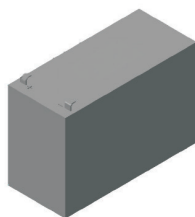
- The LEDs can be easily configured via the configuration tool.

Technical data

Cable length	1 m
LED	24 (red)

5 Batteries

FA2003-A1	Battery (12 V, 7 Ah, VDS)	Part no.	A5Q00019353
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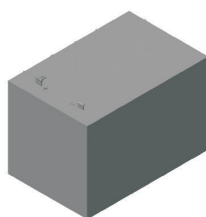
Features

- Rechargeable sealed lead-acid battery for emergency power supply.
- Must be ordered 2 batteries (system voltage 24 V).

Technical data

Dimensions max. (W x H x D) 153 x 103 x 67 mm

FA2004-A1	Battery (12 V, 12 Ah, VDS)	Part no.	A5Q00019354
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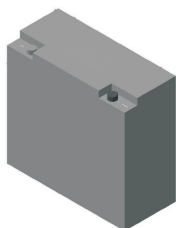
Features

- Rechargeable sealed lead-acid battery for emergency power supply.
- Must be ordered 2 batteries (system voltage 24 V).

Technical data

Dimensions max. (W x H x D) 153 x 100 x 102 mm

FA2005-A1	Battery (12 V, 17 Ah, VDS)	Part no.	A5Q00019677
------------------	-----------------------------------	-----------------	--------------------



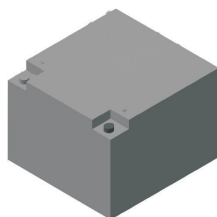
Features

- Rechargeable sealed lead-acid battery for emergency power supply.
- Must be ordered 2 batteries (system voltage 24 V).

Technical data

Dimensions max. (W x H x D) 183 x 170 x 80 mm

FA2006-A1	Battery (12 V, 26 Ah, VDS)	Part no.	A5Q00019356
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Features

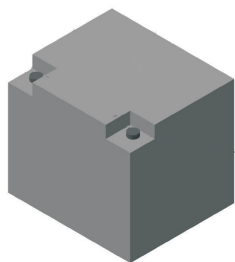
- Rechargeable sealed lead-acid battery for emergency power supply.
- Must be ordered 2 batteries (system voltage 24 V).

Technical data

Dimensions max. (W x H x D) 177 x 127 x 168 mm

Batteries

FA2007-A1	Battery (12 V, 45 Ah, VDS)	Part no.	A5Q00022897
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Features

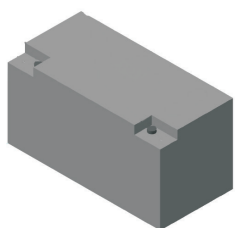
- Rechargeable sealed lead-acid battery for emergency power supply.
- Must be ordered 2 batteries (system voltage 24 V).

Technical data

Dimensions max. (W x H x D)

200 x 176 x 170 mm

FA2008-A1	Battery (12 V, 65 Ah, VDS)	Part no.	A5Q00019357
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Features

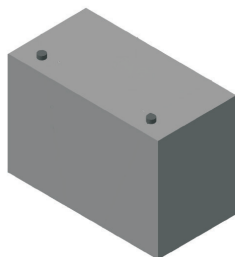
- Rechargeable sealed lead-acid battery for emergency power supply.
- Must be ordered 2 batteries (system voltage 24 V).

Technical data

Dimensions max. (W x H x D)

355 x 185 x 170 mm

FA2009-A1	Battery (12 V, 100 Ah, VDS)	Part no.	A5Q00023101
------------------	------------------------------------	-----------------	--------------------



Features

- Rechargeable sealed lead-acid battery for emergency power supply.
- Must be ordered 2 batteries (system voltage 24 V).

Technical data

Dimensions max. (W x H x D)

333 x 224 x 175 mm

6 Spare parts

6.1 Cover caps

FHA7201-A3	Cover cap (Cerberus)	Part no.	S54400-B77-A1
-------------------	-----------------------------	-----------------	----------------------



- Cover with Cerberus label.
- Use as spare part.

FHA7202-A3	Cover cap (without print)	Part no.	S54400-B74-A1
-------------------	----------------------------------	-----------------	----------------------



- Unlabeled cover.
- Use as spare part.

6.2 Operating add-on

FCM7215-Y3	Operating unit	Part no.	S54400-B51-A1
-------------------	-----------------------	-----------------	----------------------



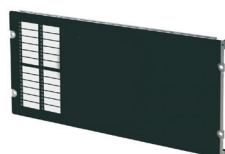
- Operating add-on (complete base) without accessories.
- Use as spare part.

FCM7204-Z3	Operating unit	Part no.	S54400-F85-A1
-------------------	-----------------------	-----------------	----------------------



- Operating add-on (complete base) without accessories.
- Use as spare part.

FCM7205-Y3	Operating unit	Bestell-Nr.	S54400-F82-A1
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- Operating add-on (complete base) without accessories.
- Use as spare part.

FCM7206-H3	Operating unit (EVAC)	Part no.	S54400-F92-A1
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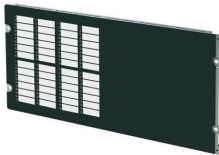
- Operating add-on (complete base) without accessories.
- Use as spare part.

FCM7210-Z3	Operating add-on	Part no.	S54400-F76-A1
-------------------	-------------------------	-----------------	----------------------



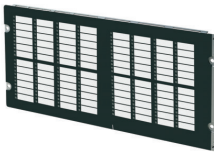
- Operating add-on (complete base) without accessories.
- Use as spare part.

FCM7211-Y3	Operating add-on	Part no.	S54400-F75-A1
-------------------	-------------------------	-----------------	----------------------



- Operating add-on (complete base) without accessories.
- Use as spare part.

FCM7212-Y3	Operating add-on	Part no.	S54400-F88-A1
-------------------	-------------------------	-----------------	----------------------



- Operating add-on (complete base) without accessories.
- Use as spare part.

6.3 Power supply

SV 24V-150W	Power supply kit (150 W)	Part no.	V24230-Z6-A4
--------------------	---------------------------------	-----------------	---------------------



- Power supply (150 W) without accessories.
- Use as spare part.

SV 24V-150W	Power supply	Part no.	V24230-Z6-A5
--------------------	---------------------	-----------------	---------------------



- Power supply (150 W) without accessories.
- Use as spare part.

6.4 Printer rolls and typewriter ribbon

–	Thermo printer rolls for Custom Plus-S-0004	Part no.	A5Q00017619
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- Replacement printer rolls (10 rolls) for event printer FTO2001-A1.

–	Typewriter ribbon	Part no.	A5Q00023963
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- Genuine Fujitsu CA02374-C104 black fabric impact printer ribbon designed for the Fujitsu DL3750+ matrix printer.
- Use as spare part.

Technical data

Color	black
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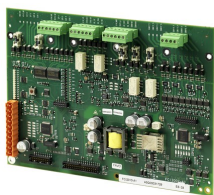
7 Repair parts

7.1 Operating units

FCM7201-Z3	Operating unit	Part no.	A5Q00018923-R
	– Complete operating unit (support base, keypad, MMI main board, CPU module) without accessories.		
	– Use as repair part only.		
FCM7202-Y3	Operating unit (+LED ind.)	Part no.	A5Q00018925-R
	– Complete operating unit (support base, keypad, MMI main board, CPU module) without accessories.		
	– Use as repair part only.		

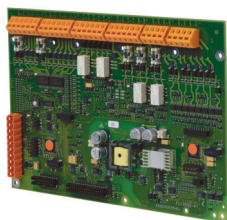
7.2 Periphery boards

FCI2010-A1	Periphery board (1-loop)	Part no.	A5Q00031729-R
-------------------	---------------------------------	-----------------	----------------------



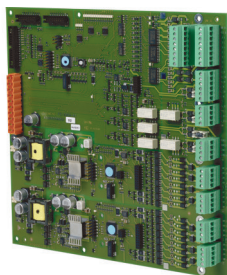
- Periphery board (1-loop) without accessories.
- Use as repair part only.

FCI2002-A1	Periphery board (2-loop)	Part no.	A5Q00005545-R
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- Periphery board (2-loop) without accessories.
- Use as repair part only.

FCI2004-A1	Periphery board (4-loop)	Part no.	A5Q00009953-R
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- Periphery board (4-loop) without accessories.
- Use as repair part only.

7.3 Fire terminal board

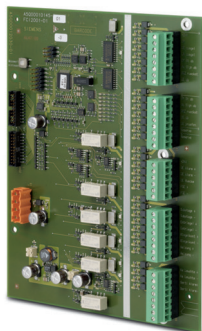
FTI2001-A1	Fire terminal board	Part no.	A5Q00013279-R
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- Fire terminal board without accessories.
- Use as repair part only.

7.4 Fire brigade periphery module

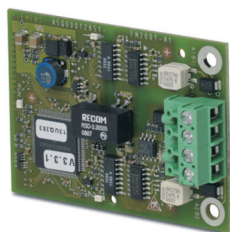
FCI2001-D1	Fire brigade periphery module	Part no.	A5Q00010145-R
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- Fire brigade periphery module without accessories.
- Use as repair part only.

7.5 Network module (SAFEDLINK)

FN2001-A1	Network module (SAFEDLINK)	Part no.	A5Q00012851-R
------------------	-----------------------------------	-----------------	----------------------



- Network module (SAFEDLINK) without accessories.
- Use as repair part only.
- Power supply (70 W) without accessories
- Use as repair part only.

7.6 Floor repeater terminal and floor repeater display

FT2010-A1	Floor repeater terminal	Part no.	A5Q00014104-R
------------------	--------------------------------	-----------------	----------------------



- Front part of the floor repeater terminal (cover cap, stick-on labels, keypad) without accessories.
- Use as repair part only.

FT2011-A1	Floor repeater display	Part no.	A5Q00017706-R
------------------	-------------------------------	-----------------	----------------------



- Front part of the floor repeater terminal (cover cap, stick-on labels, keypad) without accessories.
 - Use as repair part only.
-

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