

CONTROL PANELS

Control Panels of the FX 3NET (SLC) Fire Detection System

The FX 3NET intelligent fire detection and alarm system and panels from Schneider Electric have a modular construction and provide new features for efficient and reliable fire safety.

The control panels are FX 3ET, FXL 3NET, FXM 3NET and FXS 3NET.

The full range of Schneider Electric's intelligent and conventional detectors can be connected to the system.

A versatile built-in control logic enables easy control of both passive as well as active fire protective equipment and even a three-stage alert and evacuation alarm.

The system is compatible with other fire detection equipment, such as the fireman's panel FMPX, zone led panel ZLPX, alarm delay panel DAPX, communication protocol repeater REPX and multipurpose controller MCOX, as well as alarm management system ESGRAF. The system also provides an OPC communication interface, which enables integration to the building management system.

Panel installation

The FX panel is installed on a surface with the display at a height of approximately 170 cm. The wall has to be strong enough to support the weight of the panel and the batteries.

Connections

See overleaf for general overview of the connections of FX 3NET panels.

Cable entries are from behind, from above and from below.

Commissioning and Configuration

The system can be started after the jumper settings are verified. For customer/site specific settings and entry of alarm texts, a PC and licensed software "WinFX3Net" is used.

For further information, see the FX 3NET Installation and Commissioning Guide.



FX 3NET and FXL 3NET control panel



FXM 3NET control panel



FXS 3NET user interface

Technical data of the FX 3NET panels

	Control panels			
	FX 3NET	FXL 3NET	FXM 3NET	FXS 3NET
Product code	0070 3600	0070 3700	0070 3800	0070 3814
Dimensions (h*w*d) [mm]	578 x 425 x 130		328 x 425 x 130	328 x 417x79
Weight (fully equipped, excl. batteries)	11 kg	12 kg	6 kg	4.4 kg
IP Rating	IP30			
Operating ambient temperature	+5...+40°C			
Storage ambient temperature	0...+50°C			
Maximum ambient humidity	95% RH			
Back frame material	sheet steel			
Cover material	plastic			
Cover colour	bluish grey			
Mains supply voltage	230 VAC ±10% / 50 ... 60Hz			NA
Mains supply power	160 VA	80 VA		
Operating voltage range	21 ... 30 Vdc			
Maximum current consumption in standby condition	1.0 A @ 24 Vdc		0.5 A @ 24 Vdc	0.5 A @ 24 Vdc
Maximum current consumption in alarm condition	4.0 A @ 24 Vdc		2.2 A @ 24 Vdc	1 A @ 24 Vdc
Applied standards	EN54-2 EN54-4			EN54-2

Schneider Electric reserves the right to make modifications.

Construction of the FX 3NET panels

		Control panels				Note
		FX 3NET	FXL 3NET	FXM 3NET	FXS 3NET	
Base units	FX-UI2 user interface	1	1	1	1	
	FX-MC2 master controller	1	1	1	1	
	FX-PSA power supply	-	-	1	-	Note 1
	FX-PSB power supply	1	1	-	-	Note 1
	Card slots	5	9	2	1	Note 2
Card slot options	Loop controllers 1...4 pcs together					Note 3
	- FX-SLC, 2 AP200 series loops	0...4	0...4	0...2	0...1	Note 6
	- FX-CLC, 16 conventional loops	0...4	0...4	0...2	0...1	
	Control units 1...4 pcs together					
	- FX-IOC	0...4	0...4	0...2	0...1	
	- FX-OCA	0...4	0...4	0...2	0...1	
UI2 place options	REPX-OB protocol repeater	0...1	0...1	0...1	0...1	
	MCOX-OB logic control unit	0...1	0...1	0...1	0...1	
	ZLPX-IC	0...1	0...1	0...1	0...1	
	Display units					Note 4
Battery space	- FX2-LB32 panel display units	0...1	0...1	0...1	0...1	
	- FX-LB80 zone display units	0...1	0...1	0...1	0...1	
Battery space	Batteries	2 pcs	-	2 pcs	-	Note 5
		12 V/17 Ah		12 V/12 Ah		Note 1

Note 1 FXS requires a power feed from an FXM, FX or FXL panel. Available power from that panel may restrict the current consumption of the FXS panel.

Note 2 Card slots are for SLC, LC, CLC, IOC, OCA, REPX-OB, MCOX-OB and ZLPX-IC option boards.

Note 3 Loop controllers are optional. The maximum number of loop controllers is 1 in FXS, 2 in FXM and 4 in FX and FXL.

Note 4 Only 1 display unit per panel.
The FX-LB80 is used in the UK.

Note 5 Batteries of the FXL 3NET panel are installed in a separate FX BAT cabinet.

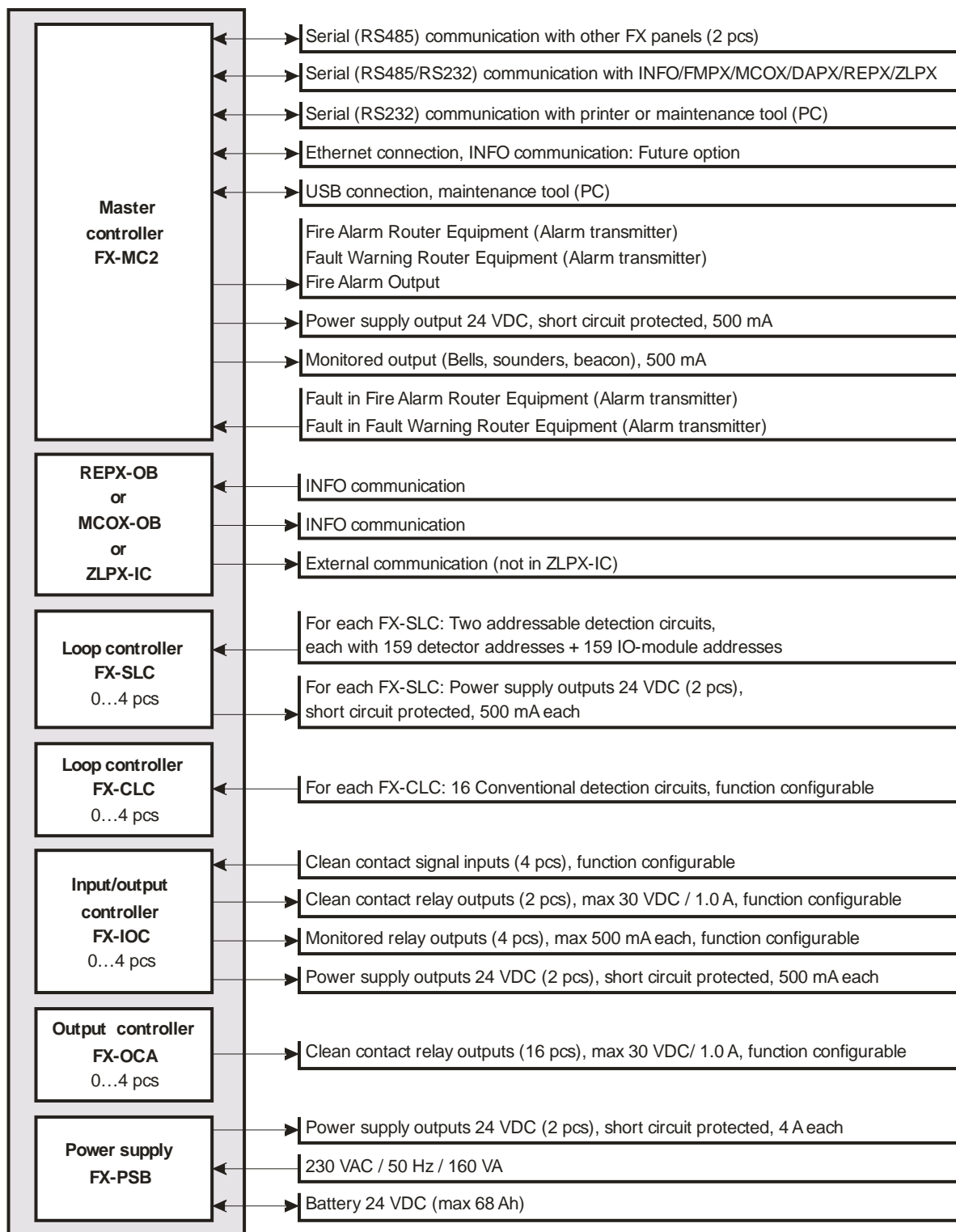
Note 6 SLC Loop controller can be configured to work as LC Loop controller in order to be able to use series 200 devices in the loop. When configured as LC, loop capacity (number of addresses and loop resistance value) is as specified for LC.

Series 200 loop devices can be used in SLC loop with AP200 devices.

In this case the following rules apply:

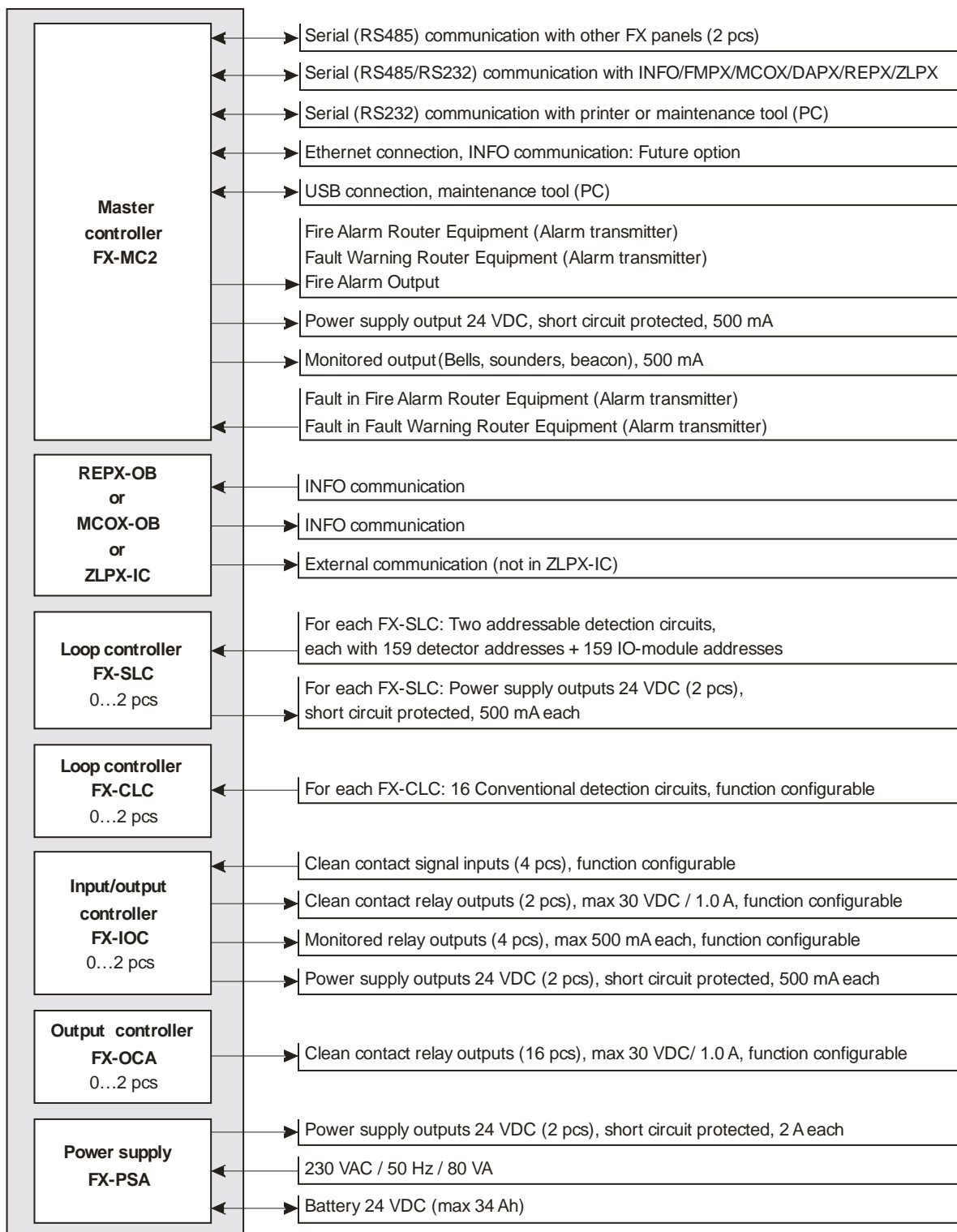
- There can be maximum 20 pcs of series 200 devices in the loop (among AP200 devices)
- The maximum loop resistance is 40 Ohm.

FX 3NET and FXL 3NET panel external connections



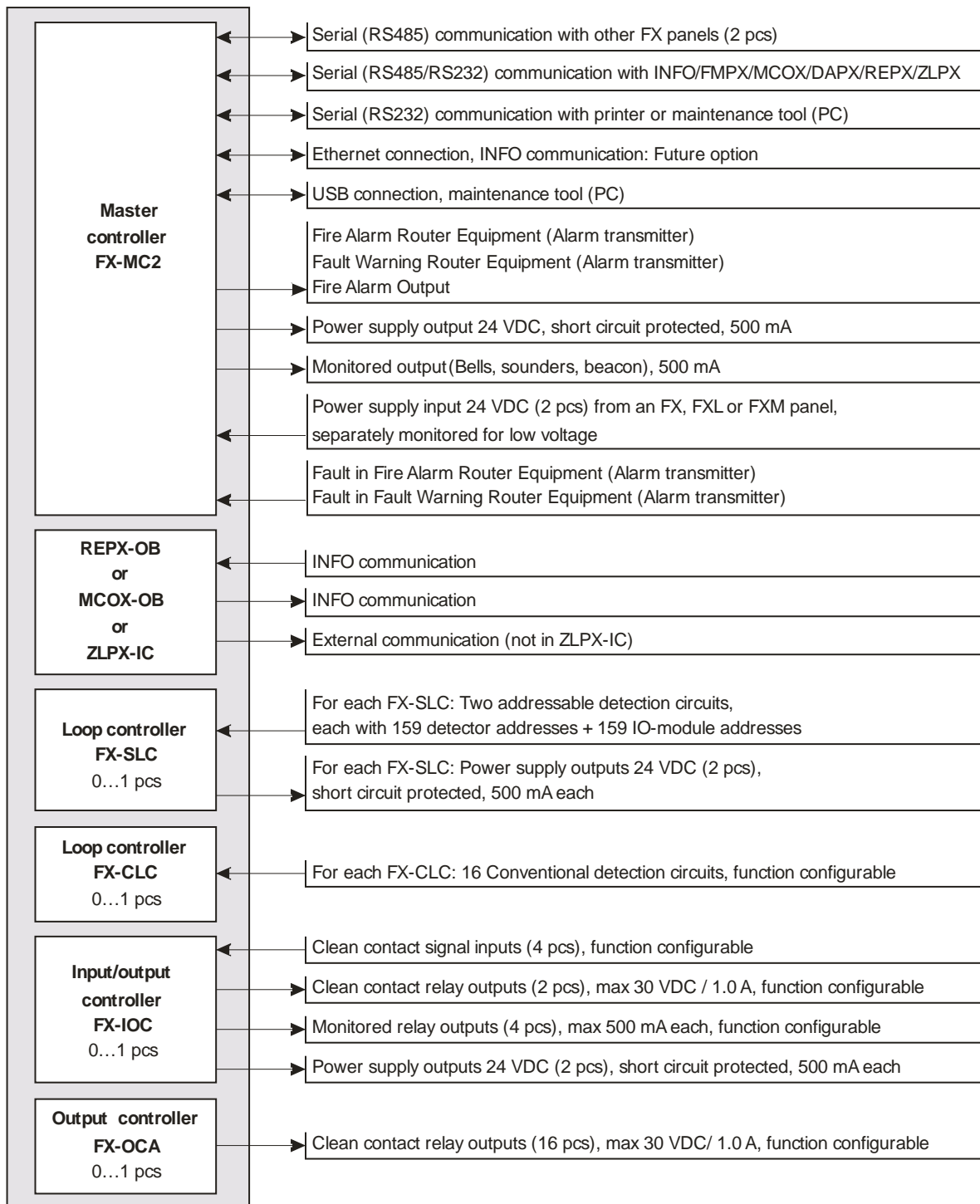
Note! The maximum total load of the panel is 1.0 A in normal condition and 4.0 A in alarm condition.
The maximum number of SLC, CLC, IOC, OCA, REPX-OB, MCOX-OB and ZLPX-IC boards is 5 in FX and 9 in FXL.

FXM 3NET panel external connections



Note! The maximum total load of the panel is 0.5 A in normal condition and 2.2 A in alarm condition.
The maximum number of SLC, CLC, IOC, OCA, REPX-OB, MCOX-OB and ZLPX-IC boards is 2.

FXS 3NET panel external connections



Note! The FXS 3NET panel requires a power feed from an FX 3NET, FXL 3NET or FXM 3NET panel. The maximum number of SLC, CLC, IOC, OCA, REPX-OB, MCOX-OB and ZLPX-IC boards is 1.

**0832****Pelco Finland Oy P.O. Box 415, 02601 Espoo Finland**

For FX 0832-CPD-1082 Issue 4

For FXL 0832-CPD-1083 Issue 3

For FXM 0832-CPD-1084 Issue 3

EN 54-2:1997/AC:1999/A1:2006**EN 54-4:1997/AC:1999/A1:2002/A2:2006****Options:**7.8; 7.9.1; 7.10.3; 7.11; 7.12.2; 7.13; 8.3; 8.4; 8.9; 9.5;
10**Control and indicating equipment for fire detection and fire alarm systems for buildings****FX, FXL, FXM****Other technical data:**

66571764: installation and commissioning

66571744: operation manual

66571758 (SLC), 66571761 (ALC): system planning (held by the manufacturer)

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Connections

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FX 3NET and FXL 3NET control panel



FXM 3NET control panel



FXS 3NET user interface

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Mains supply voltage	230 VAC ±10% / 50 ... 60Hz			NA
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	FX-PSB power supply	1	1	-	-	Note 1
	Card slots	5	9	2	1	Note 2
Card slot options	Loop controllers 1...4 pcs together					Note 3
	- FX-ALCA, 1 Intellia loop	0...4	0...4	0...2	0...1	
	- FX-ALCB, 2 Intellia loops	0...4	0...4	0...2	0...1	
	- FX-CLC, 16 conventional loops	0...4	0...4	0...2	0...1	
	Control units 1...4 pcs together					
	- FX-IOC	0...4	0...4	0...2	0...1	
	- FX-OCA	0...4	0...4	0...2	0...1	
REPX-OB protocol repeater	0...1	0...1	0...1	0...1		
MCOX-OB logic control unit	0...1	0...1	0...1	0...1		
ZLPX-IC	0...1	0...1	0...1	0...1		
UI2 place options	Display units					Note 4
	- FX2-LB32 panel display units	0...1	0...1	0...1	0...1	
	- FX-LB80 zone display units	0...1	0...1	0...1	0...1	
Battery space	Batteries	2 pcs 12 V/17 Ah	-	2 pcs 12 V/12 Ah	-	Note 5 Note 1

Note 1 FXS requires a power feed from an FXM, FX or FXL panel. Available power from that panel may restrict the current consumption of the FXS panel.

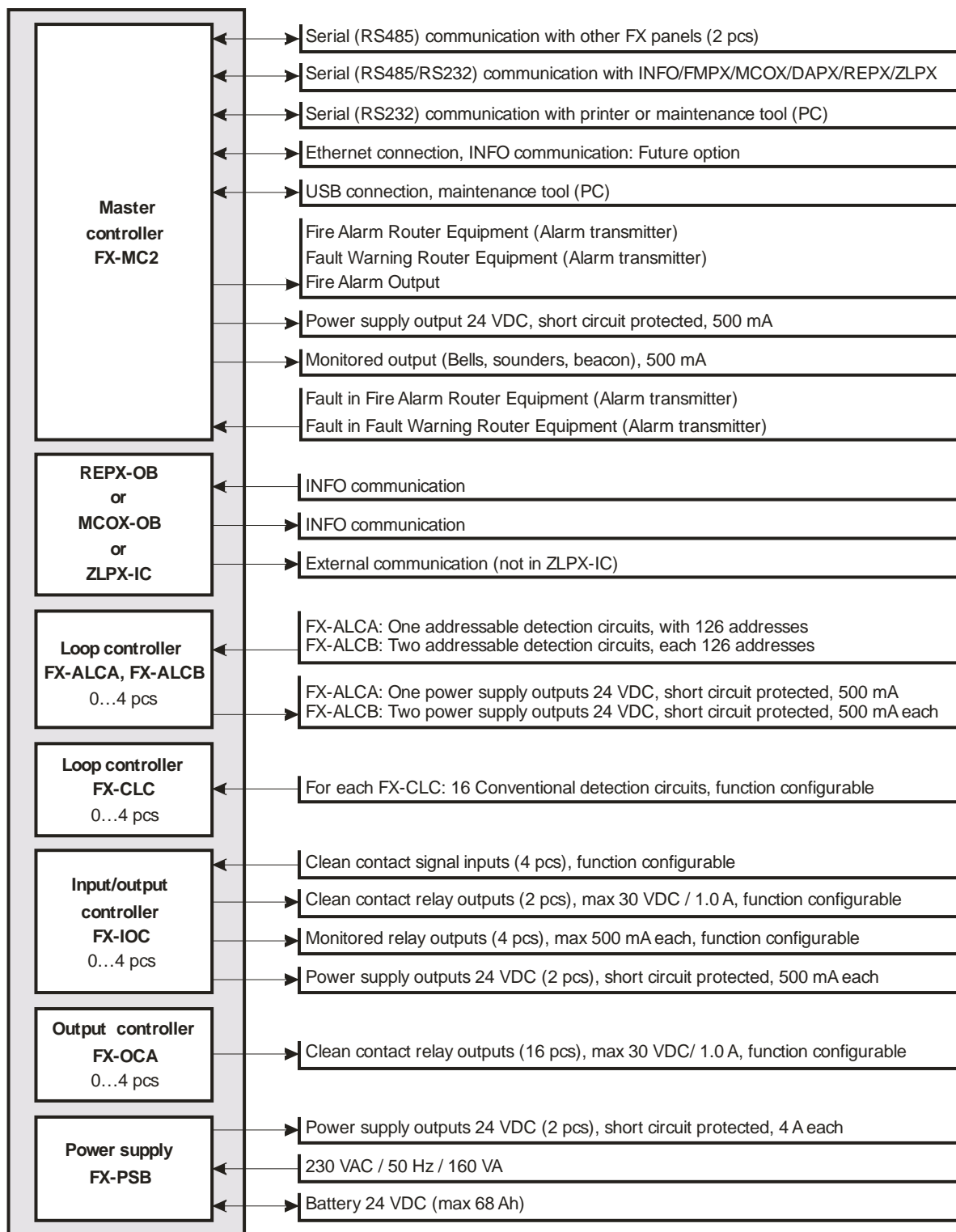
Note 2 Card slots are for ALCA, ALCB, CLC, IOC, OCA, REPX-OB, MCOX-OB and ZLPX-IC option boards.

Note 3 Loop controllers are optional. The maximum number of loop controllers is 1 in FXS, 2 in FXM and 4 in FX and FXL.

Note 4 Only 1 display unit per panel.
The FX-LB80 is used in the UK.

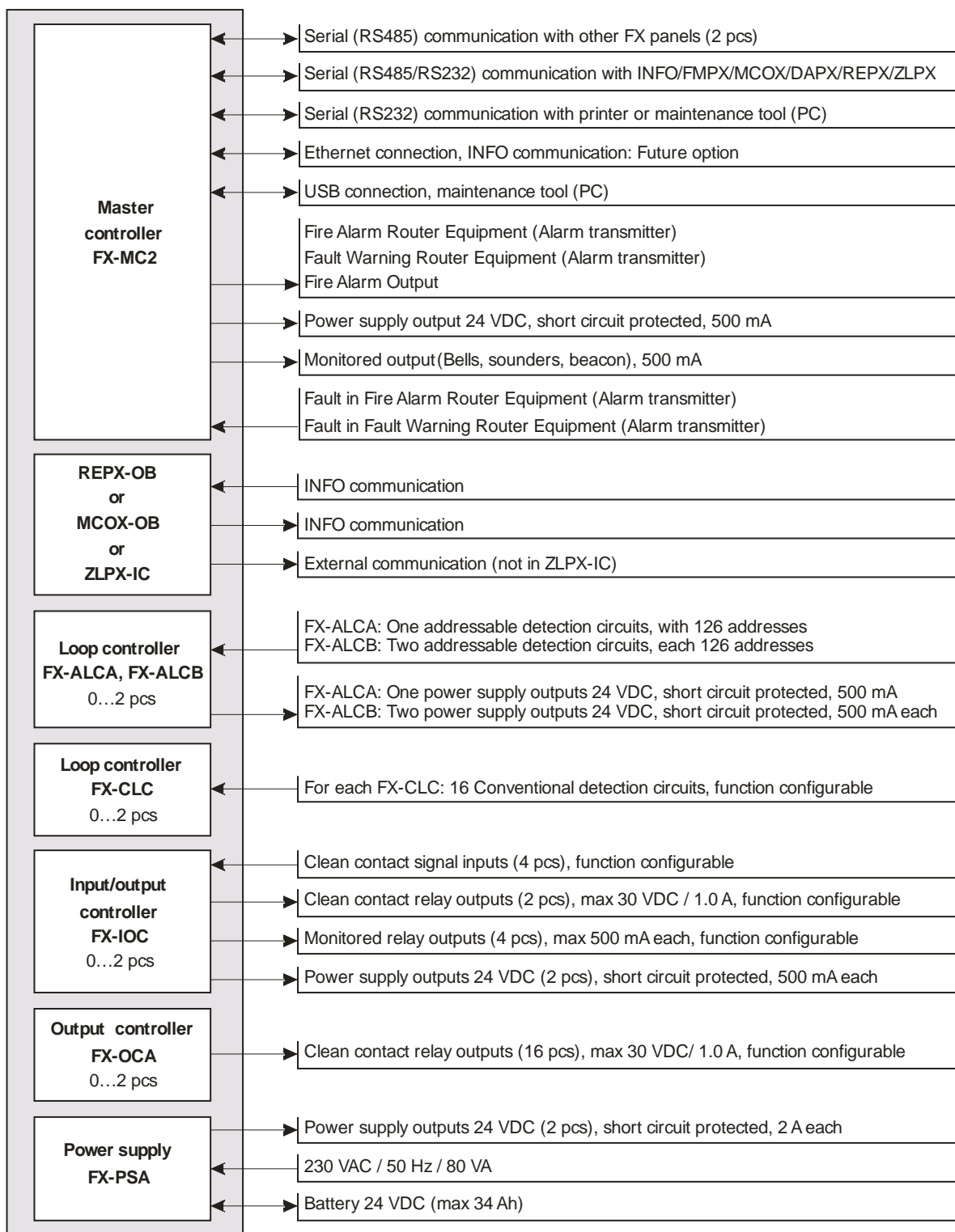
Note 5 Batteries of the FXL 3NET panel are installed in a separate FX BAT cabinet.

FX 3NET and FXL 3NET panel external connections



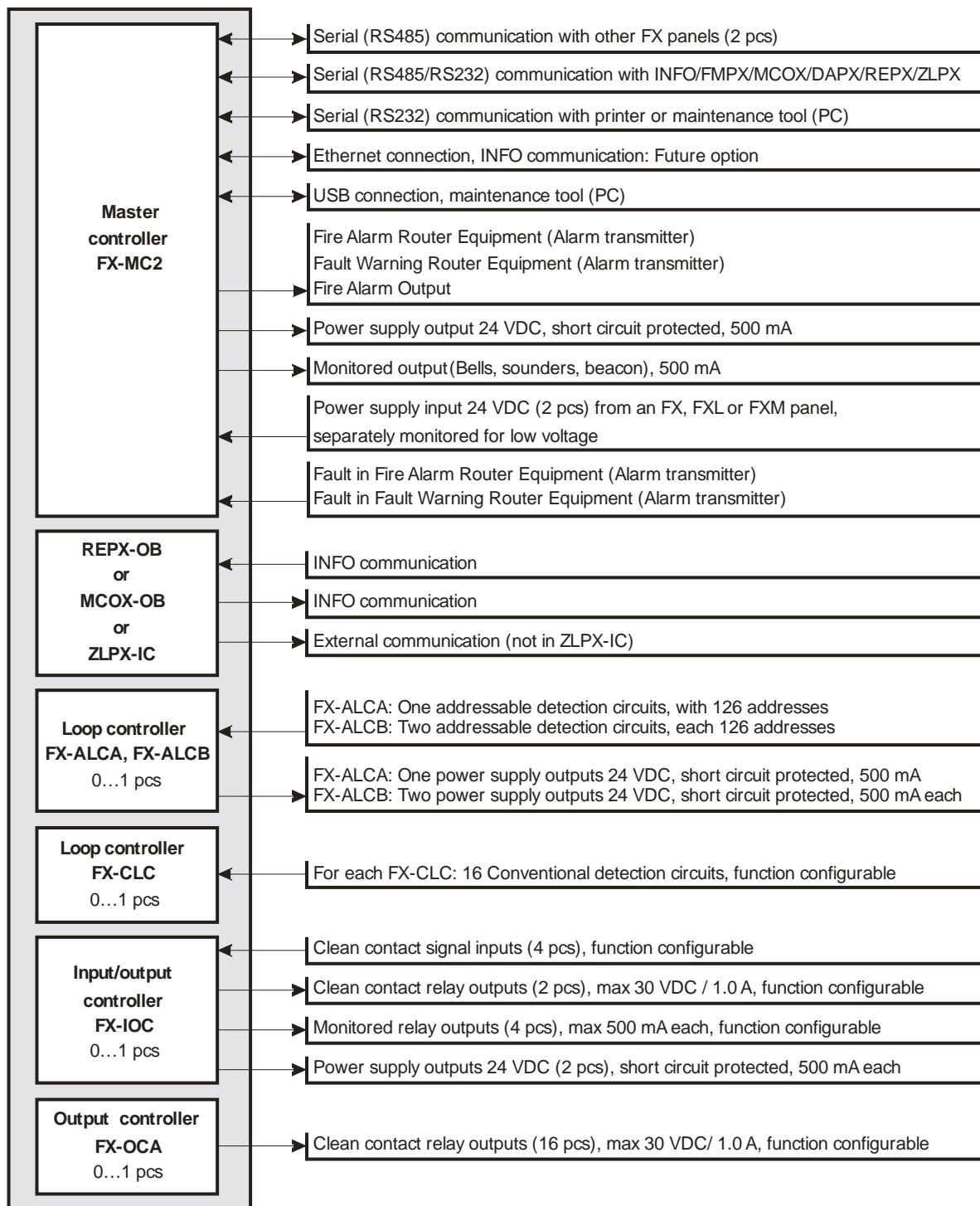
Note! The maximum total load of the panel is 1.0 A in normal condition and 4.0 A in alarm condition.
The maximum number of ALCA, ALCB, CLC, IOC, OCA, REPX-OB, MCOX-OB and ZLPX-IC boards is 5 in FX and 9 in FXL.

FXM 3NET panel external connections



Note! The maximum total load of the panel is 0.5 A in normal condition and 2.2 A in alarm condition.
The maximum number of ALCA, ALCB, CLC, IOC, OCA, REPX-OB, MCOX-OB and ZLPX-IC boards is 2.

FXS 3NET panel external connections



Note! The FXS 3NET panel requires a power feed from an FX 3NET, FXL 3NET or FXM 3NET panel. The maximum number of ALCA, ALCB, CLC, IOC, OCA, REPX-OB, MCOX-OB and ZLPX-IC boards is 1.

**0832****Pelco Finland Oy P.O. Box 415, 02601 Espoo Finland****09**

For FX 0832-CPD-1082 Issue 4

For FXL 0832-CPD-1083 Issue 3

For FXM 0832-CPD-1084 Issue 3

EN 54-2:1997/AC:1999/A1:2006**EN 54-4:1997/AC:1999/A1:2002/A2:2006****Options:**7.8; 7.9.1; 7.10.3; 7.11; 7.12.2; 7.13; 8.3; 8.4; 8.9; 9.5;
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