

## CONTROL PANELS

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

The FX NET 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 NET, FXL NET, FXM NET and FXS.

The full range of Schneider Electric's intelligent, as well as 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, like the firemans panel FMPX, zone led panel ZLPX, alarm delay panel DAPX, communication protocol repeater REPX and multipurpose controller MCOX as well as Schneider Electric's alarm management system ESGRAF. The system provides also an OPC communication interface, which enables the integration to the building management system.

#### Panel installation

The FX\_ panel is installed on surface with the display in approx. 170 cm height. The wall has to be rigid enough to support the weight of the panel and the batteries.

#### Connections

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

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

#### Commissioning and Configuration

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

See further information in the FX NET Installation and Commissioning Guide.



*FX NET and FXL NET control panel*



*FXM NET control panel*



*FXS user interface*

## Technical data of the FX NET panels

	Control panels			
	FX NET	FXL NET	FXM NET	FXS
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 color	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 @ 24Vdc		0,5 A @ 24Vdc	0,5 A @ 24Vdc
Maximum current consumption in alarm condition	4,0 A @ 24Vdc		2,2 A @ 24Vdc	1 A @ 24Vdc
Applied standards	EN54-2 EN54-4			EN54-2

Schneider Electric reserves the right to modifications.

## Construction of the FX NET panels

		Control panels				Note
		FX	FXL	FXM	FXS	
Base units	FX-UI user interface	1	1	1	1	
	FX-MC NET 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	
	- FX-LC, 2 200-series 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	
MC 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	
	Serial communication adapter 1 pcs					Note 4
	- FX-SAA	0...1	0...1	0...1	0...1	
UI place options	- FX-SAB	0...1	0...1	0...1	0...1	
	- FX-SAC	0...1	0...1	0...1	0...1	
Battery space	Display units					Note 5
	- FX-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	
	Batteries	2 pcs 12 V/17Ah	-	2 pcs 12 V/12Ah	-	Note 6 Note 1

**Note 1** FXS requires 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.

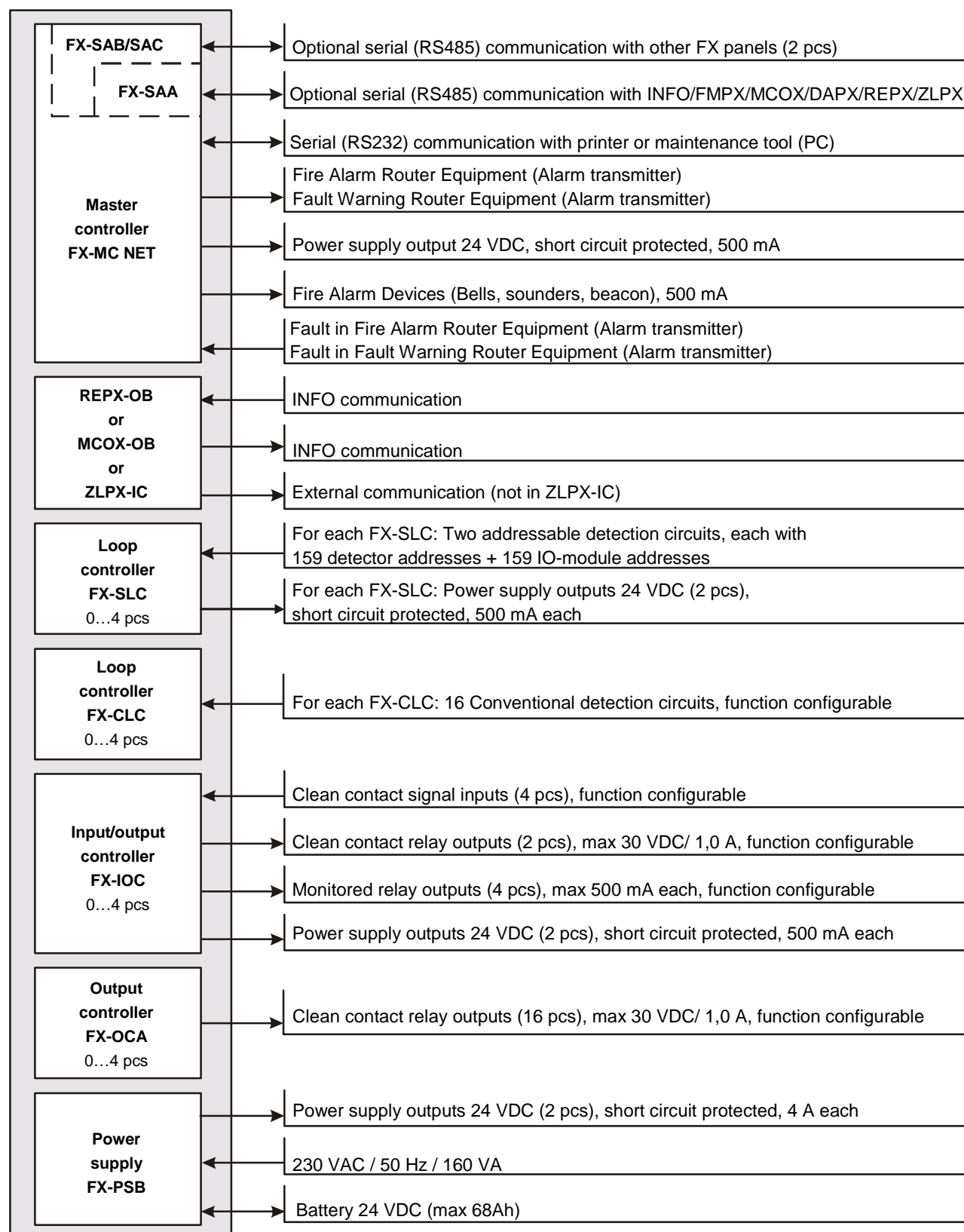
**Note 3** Loop controllers are optional. The maximum number of loop controllers is 1 in FXS, 2 in FXM and 4 in FX and FXL.

**Note 4** Adapters are optional. Only 1 adapter per panel. The adapter is installed on the FX-MC board.

**Note 5** Only 1 display unit per panel. FX-LB32 is used together with the FX-SAC adapter.  
The FX-LB80 is used in UK.  
The display unit is installed on the FX-UI board.

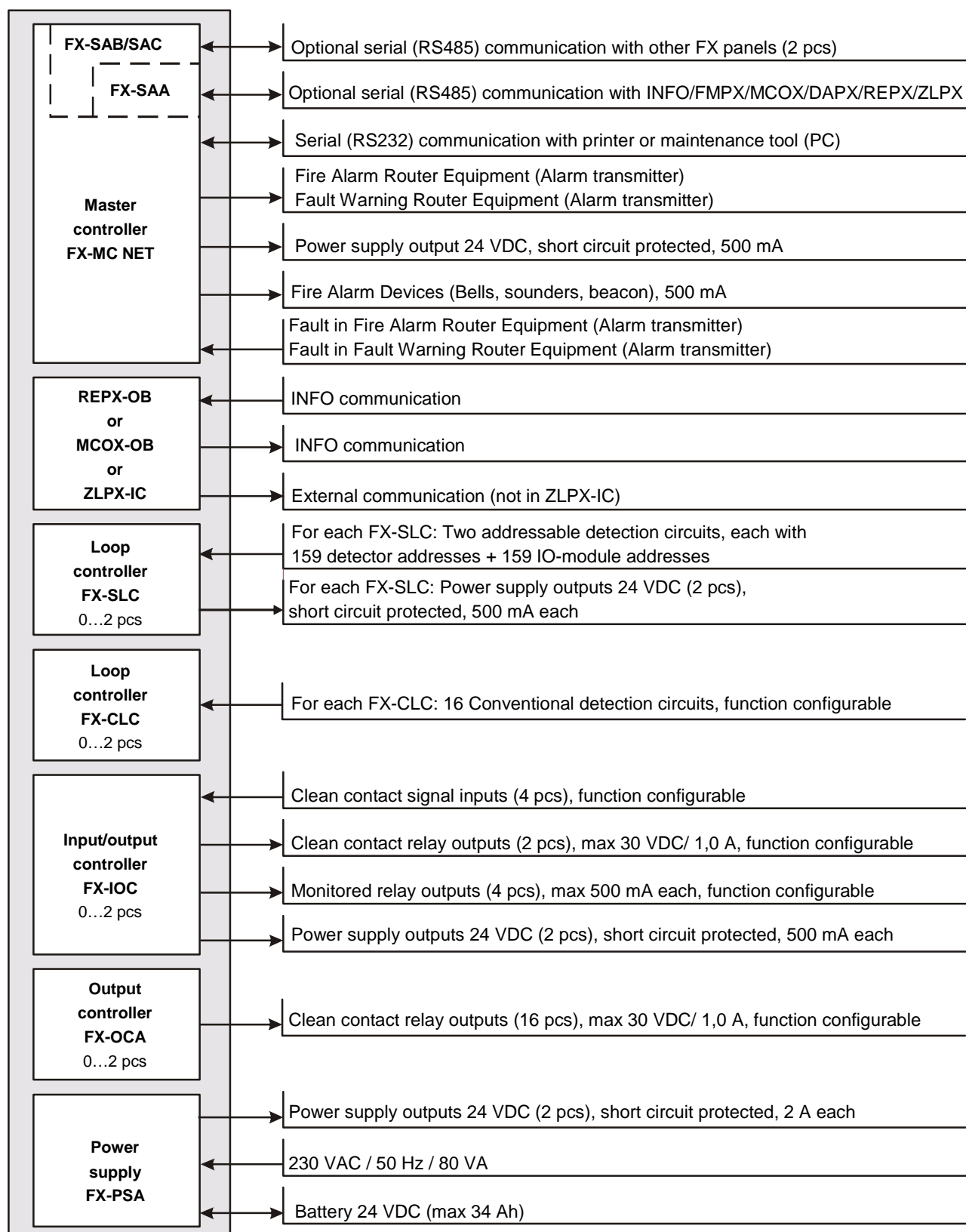
**Note 6** Batteries of the FXL NET panel are installed in a separate FX BAT cabinet.

## FX NET and FXL NET panel external connections



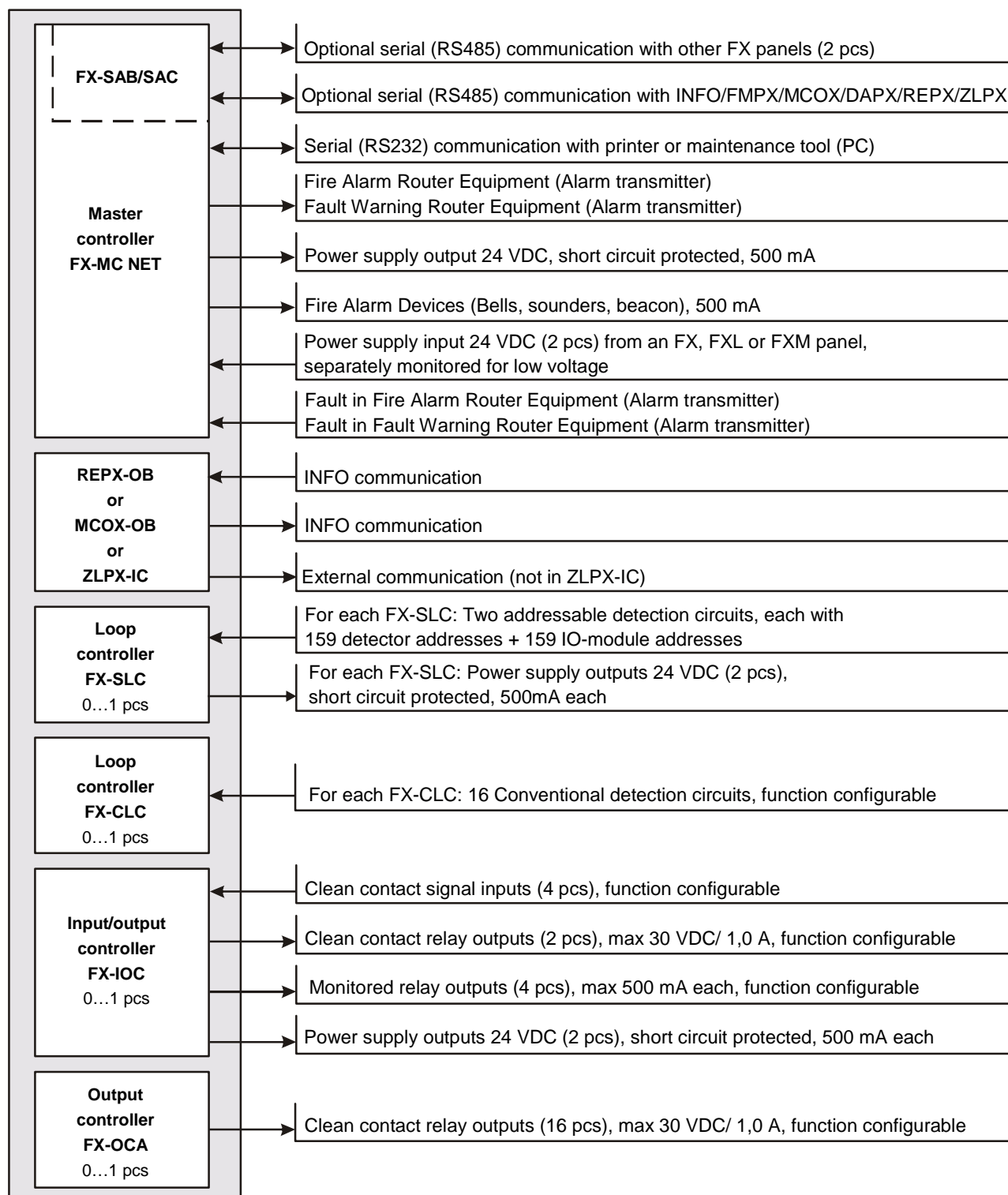
**Note!** The maximum total load of the panel is 1,0 A in normal condition and 4,0 A in alarm condition.  
The maximum number of SLC, CLC, IOC, OCA, REPX-OB, MCOX-OB and ZLPX-IC boards is 5 in FX and 9 in FXL.

## FXM NET 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 panel external connections



**Note!** The FXS panel requires power feed from an FX NET, FXL NET or FXM NET 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****For FXL 0832-CPD-1083****For FXM 0832-CPD-1084****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:**

66571661: installation and commissioning

66571662: operation manual

66571715 (SLC), 66571654 (LC), 66571655 (ALC): system  
planning (held by the manufacturer )