

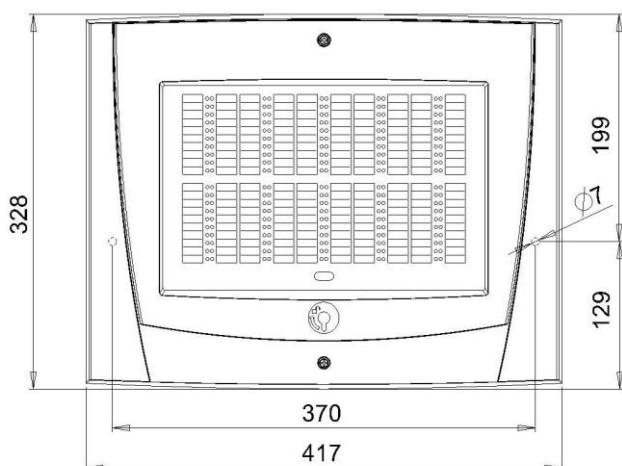
ZONE LED PANEL AND CONTROL UNIT

ZLPX Zone Led Panel and Control Units

The ZLPX zone LED panel is used for fire brigade as primary information source of the place of alarm in the building. The panel can function as pure display device showing zone specific fire place. The ZLPX can be connected to the FX NET panels: FXS, FXM, FX and FXL.



Mechanical installation



Zone name label installation

See the last page how to install the zone name label.

Use Adobe Acrobat Reader and the document "Zone name definition" 66521547 to name and print a customer specific zone name label. The file 66521547 has been published in extranet.

Technical data of ZLPX panel

Dimensions (W x H x D)	328 x 417 x 79 mm
Weight	5 kg
Colour	Blue (NCS S 4020-R80B)
Operating Temperature	+5°C ... +40°C
Humidity	max. RH 95%
Operating Voltage	19 ...30 VDC
Standby current	50 mA
Alarm state current. Max. 50 LEDs "on" at the same time	72 mA
Serial communication ports	In: RS485 or RS232 Out: RS485
IP Rating	IP30

Note! Both 24VDC inputs must be connected.

Current consumption/output

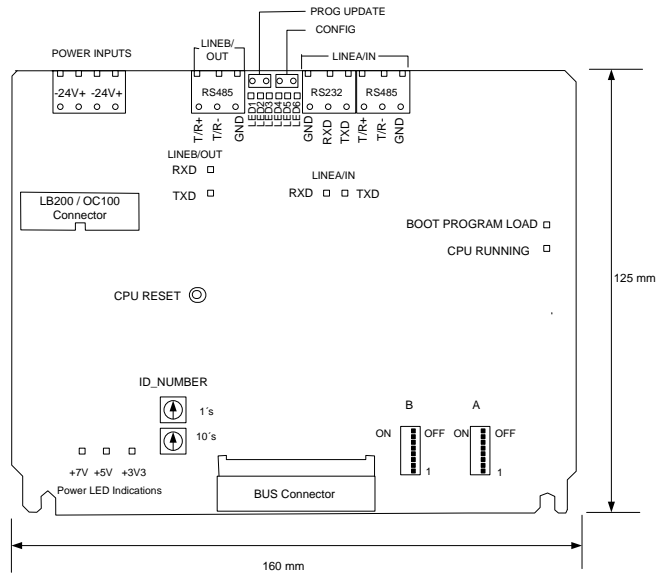
LB200	0,15 mA/active output
OC-100L	6,2 mA/active output
OC-100R+RB20	7,5 mA/active output

Pelco reserves the right to modifications.

Product Codes

Product	Code	Description
ZLPX	FFS0070 3840	Zone led panel with 200 LEDs
ZLPX-IC	FFS0070 3841	ZLPX controller
LB200	FFS0070 3842	Led board 200 LEDs
OC-100L	FFS0070 3843	Open collector output for 100 LEDs
OC-100R	FFS0070 3844	Open collector output for 100 relays
CCLO	FFS0070 3845	Connection cable for LED outputs, 3m
COL-10	FFS0070 3846	10 LEDs cable, 1m
RB20	FFS0070 3847	Relay board of 20 relays

ZLPX-IC
Electrical connections



Note! Both 24VDC inputs must be connected.

Settings and LED indications

A dip switch

A1	OFF	Not in use
	ON	Not in use
A2	OFF	Not in use
	ON	Not in use
A3	OFF	FX-panel connection
	ON	ESA/MESA panel connection (message set F or older)
A4	OFF	Not in use
	ON	Not in use
A5	OFF	Not in use
	ON	Not in use
A6	OFF	Not in use
	ON	Not in use
A7	OFF	Not in use
	ON	Not in use
A8	OFF	Normal state
	ON	Not in use

B dip switch

B1	OFF	Not in use
	ON	Not in use
B2	OFF	Not in use
	ON	Not in use
B3	OFF	OUT "B" port not in use
	ON	OUT "B" port in use
B4	OFF	Not in use
	ON	Not in use
B5	OFF	Not in use
	ON	Not in use
B6	OFF	IN "A" port baud rate 1200
	ON	IN "A" port baud rate 9600
B7	OFF	OUT "B" port baud rate 1200
	ON	OUT "B" port baud rate 9600
B8	OFF	To be "OFF"! Only for service purposes.
	ON	To be "OFF"! Only for service purposes.

LED indications in normal use

LED 1	Continuous	Fault in configuration file
	Blinking	Configuration state
LED 2	Continuous	Not in use
	Blinking	
LED 3	Continuous	Power supply input 1 or 2 fault
	Blinking	NA
LED 4	Continuous	IN "A" communication fault
	Blinking	IN "A" HW fault
LED 5	Continuous	OUT "B" communication fault
	Blinking	OUT "B" HW fault
LED 6	Continuous	Not in use
	Blinking	

Note! LEDs 1-6 in the ZLPX IC are activated in system fault.

LED indications in start up condition (10 seconds)

LED 1	Continuous	Display HW installed
	OFF	Display HW not installed
LED 2	Continuous	Isolated port installed
	OFF	Isolated port not installed
LED 3	Continuous	NA
	OFF	NA
LED 4	Continuous	LED board connector installed
	OFF	LED board connector not installed
LED 5	Continuous	NA
	OFF	NA
LED 6	Continuous	MCO HW installed
	OFF	MCO HW not installed

Jumpers for service purposes

Jumper	ON	OFF
Prog update	Program update	Normal use
Config	Configuration state	Normal use

Configuration

The ZLPX panel, as a part of FX NET fire detection system, can be used without a configuration in it. In this case the ZLPX displays the same fire alarm information as the FX fire panel. INFO protocol must be configured / enabled on the used port on fire panel (rs485 or rs232).

If there is a need to display zone/area specific fire alarm information only, then the ZLPX panel must be configured. The configuration is done with WinFMPX configuration tool via incoming RS232 serial port. During the configuration of the ZLPX panel the communication line to the FX panel (RS485) must be disconnected.

Configuration memory erasure

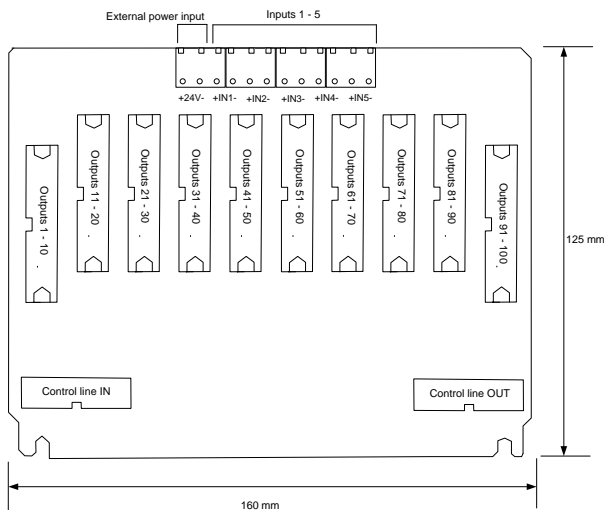
The configuration memory can be erased back to the factory defaults by the following:

- disconnect power from the unit (power inputs PI1 and PI2)
- set “config” jumper ON
- turn panel ID number switches to E and F (E = 10’s, F=1’s)
- connect power back
- follow the LED number 1:
 - when the LED is blinking quickly turn dip switch A8 ON
 - LED1 OFF: erasure in progress
 - LED ON continuous: erasure is ready
- disconnect power, set ID switches back to “0” and remove the “config” jumper
- connect power back
- unit is starting without configuration data

Software update

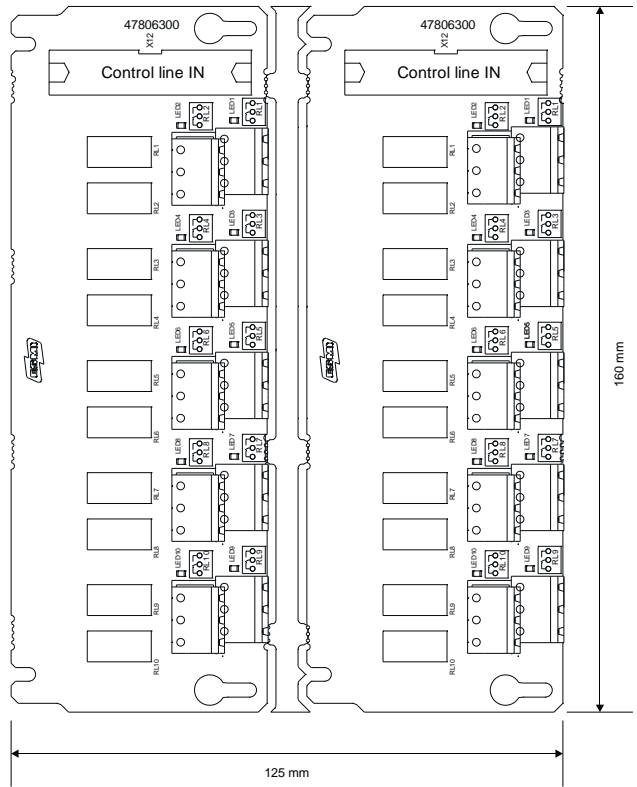
The panel is set to the software update state by setting “prog update” jumper ON and restarting the panel (by pressing the CPU reset button). The software update is done with PC loader software via incoming RS232 serial port. During the software update the communication line to the FX panel (RS485) must be disconnected.

Electrical connections of OC-100L and OC-100R

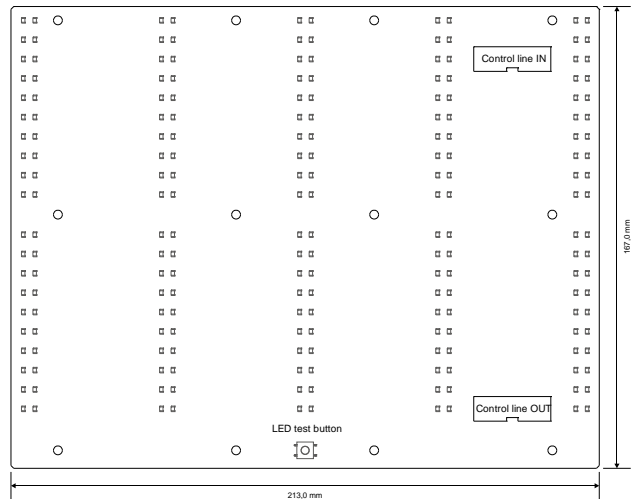


Input descriptions	
Input 1	Activates all outputs for 5 seconds
Inputs 2-5	Not in use
External power input	Normally not in use

Electrical connections of RB-20

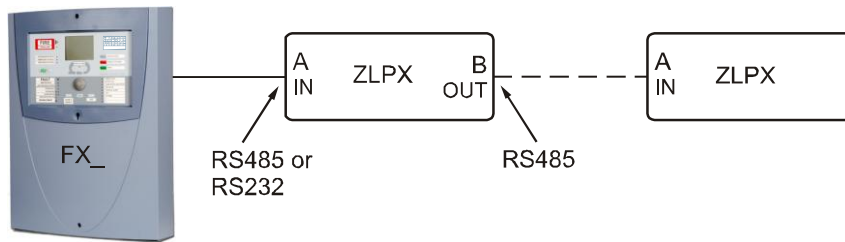


Electrical connections of LB-200



Note! By pressing “LED test button” all LEDs are ON 5 seconds.

Basic system principle with ZLPX panels



Note! The maximum number of ZLPX, ZLPX-IC, FMPX, DAPX, REPX, REPX-OB, MCOX, MCOX-OB units connected to one FX_ panel is 16.

The RS232 setting is used for the configuration and software update.

The INFO-line in the ZLPX (ZLPX-IC) panel must be disconnected during the ZLPX (ZLPX-IC) configuration.

Note! The maximum RS485 cable length between 2 devices is 1000 m.

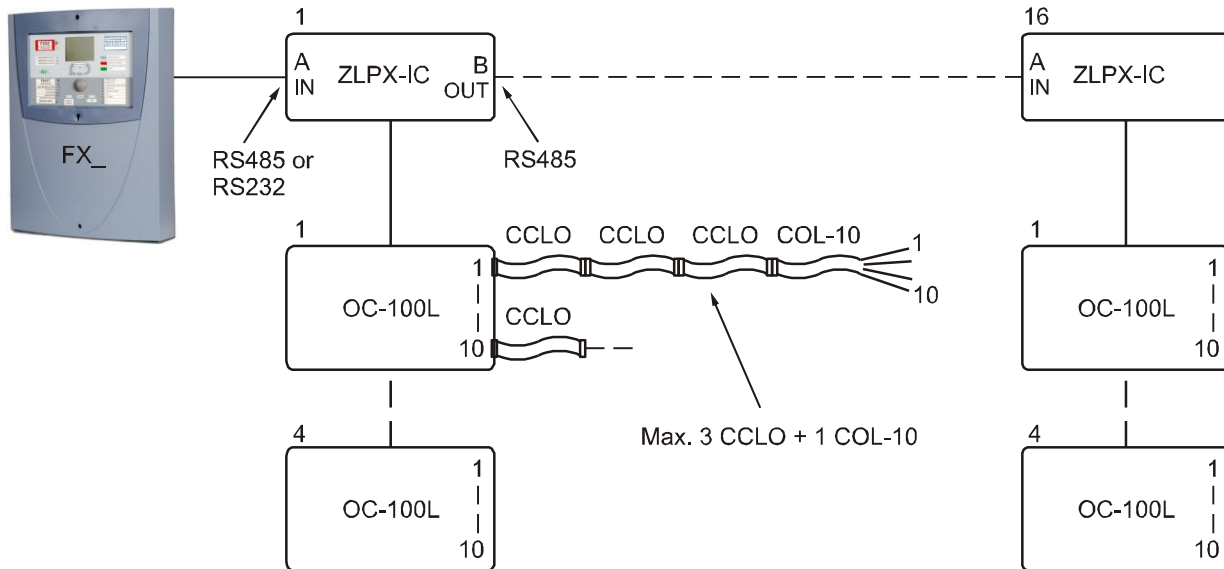
The maximum RS232 cable length is 10 m.

Note! The maximum number of zones in one FX NET system is 8000.

Note! Due to current consumption max. 50 zonal outputs/ZLPX-IC card can be activated at the same time.

Note! There can be more than one output/zone.

System example: open collector LED outputs



Note! The maximum number of ZLPX, ZLPX-IC, FMPX, DAPX, REPX, REPX-OB, MCOX, MCOX-OB units connected to one FX_ panel is 16.

The RS232 setting is used for the configuration and software update.

The INFO-line in the ZLPX (ZLPX-IC) panel must be disconnected during the ZLPX (ZLPX-IC) configuration.

Note! The maximum RS485 cable length between 2 devices is 1000 m.

The maximum RS232 cable length is 10 m.

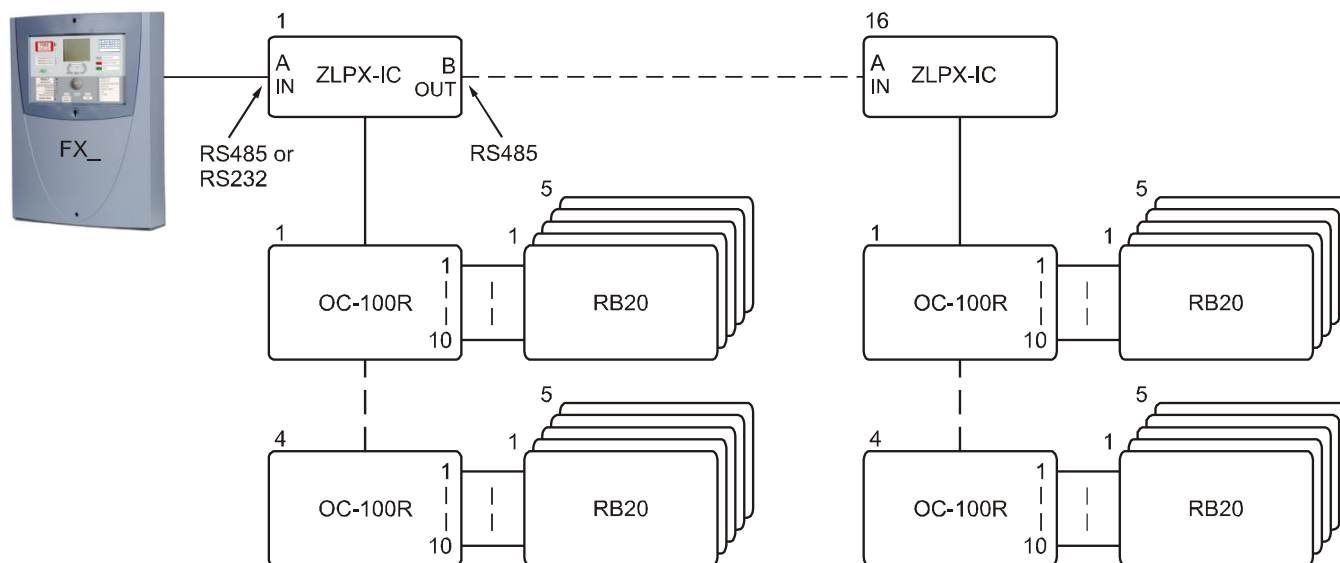
Note! The maximum number of zones in one FX NET system is 8000.

If the load taken from IC board exceeds 1A then an external power supply input (OC-100I and OC-100R) must be used

Note! Due to current consumption max. 50 zonal outputs/ZLPX-IC card can be activated at the same time.

Note! There can be more than one output/zone.

System example: relay outputs



Note! The maximum number of ZLPX, ZLPX-IC, FMPX, DAPX, REPX, REPX-OB, MCOX, MCOX-OB units connected to one FX_ panel is 16.

The RS232 setting is used for the configuration and software update.

The INFO-line in the ZLPX (ZLPX-IC) panel must be disconnected during the ZLPX (ZLPX-IC) configuration.

Note! The maximum RS485 cable length between 2 devices is 1000 m.

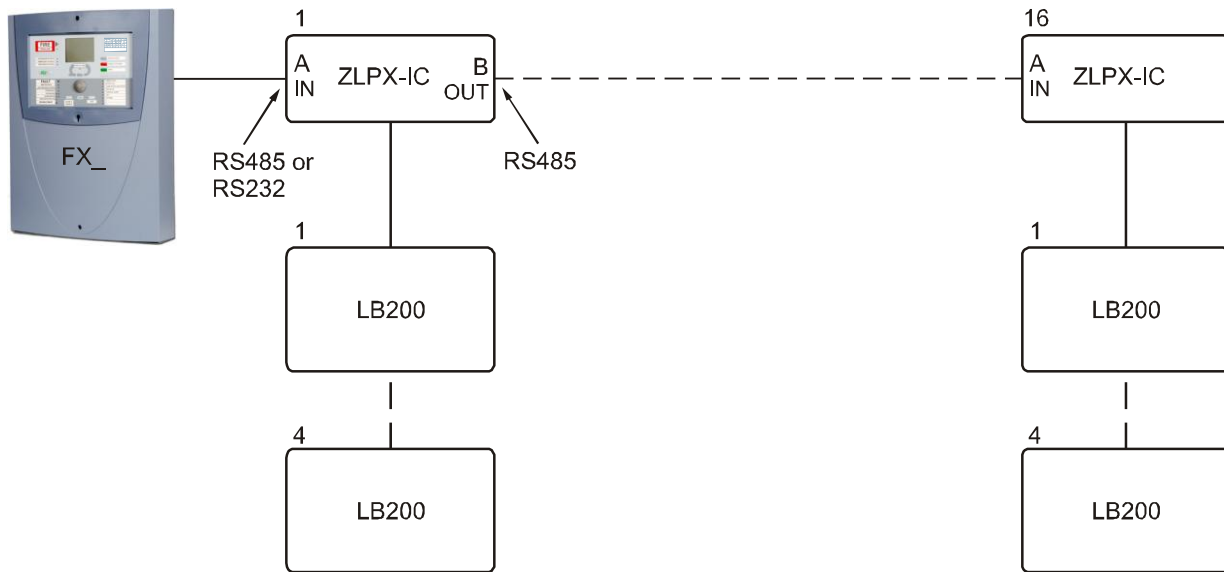
The maximum RS232 cable length is 10 m.

Note! The maximum number of zones in one FX NET system is 8000.

Note! Due to current consumption max. 50 zonal outputs/ZLPX-IC card can be activated at the same time.

Note! There can be more than one output/zone.

System example: LED board LB200 outputs



Note! The maximum number of ZLPX, ZLPX-IC, FMPX, DAPX, REPX, REPX-OB, MCOX, MCOX-OB units connected to one FX_ panel is 16.

The RS232 setting is used for the configuration and software update.

The INFO-line in the ZLPX (ZLPX-IC) panel must be disconnected during the ZLPX (ZLPX-IC) configuration.

Note! The maximum RS485 cable length between 2 devices is 1000 m.

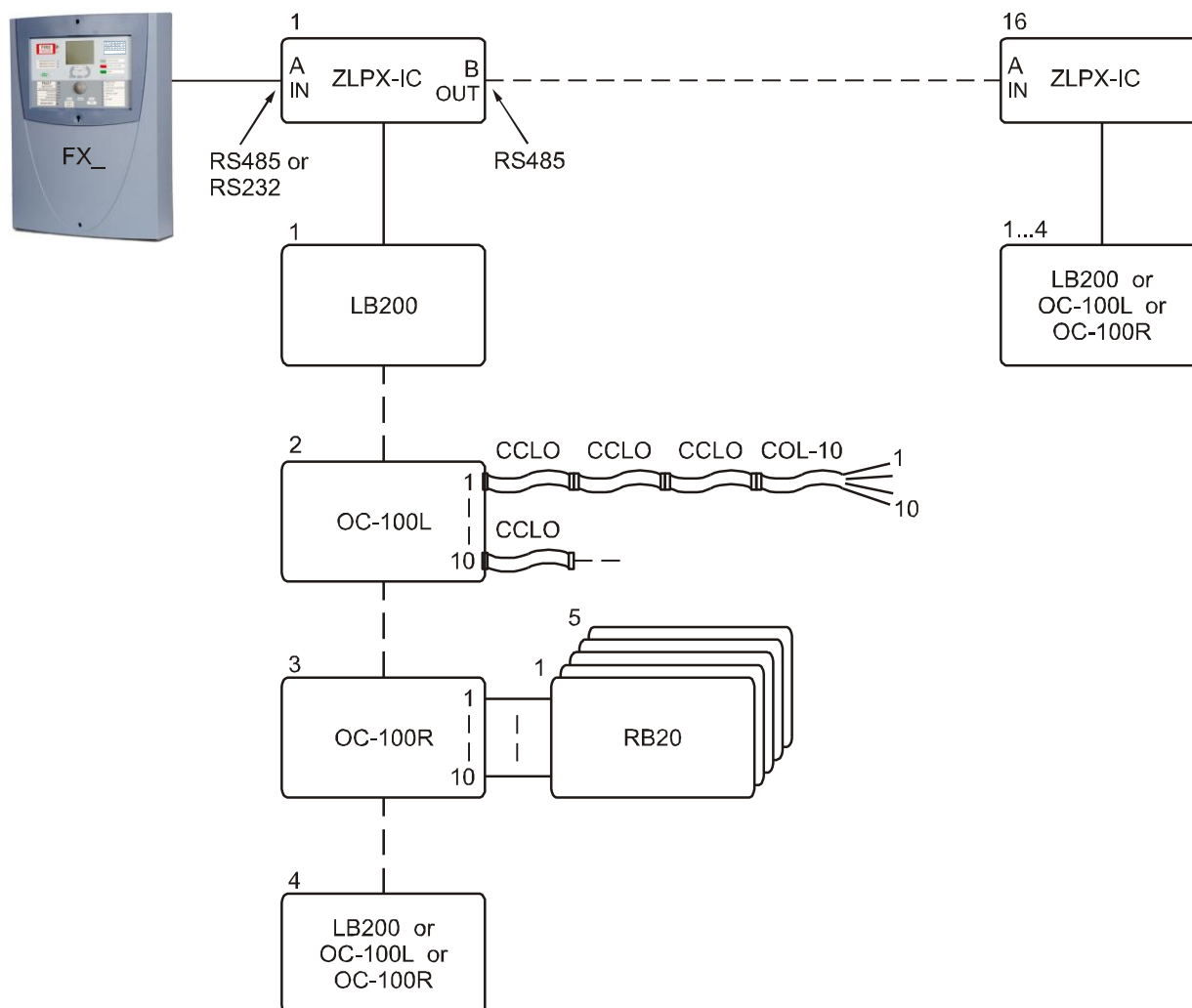
The maximum RS232 cable length is 10 m.

Note! The maximum number of zones in one FX NET system is 8000.

Note! Due to current consumption max. 50 zonal outputs/ZLPX-IC card can be activated at the same time.

Note! There can be more than one output/zone.

System example: mixed outputs



Note! The maximum number of ZLPX, ZLPX-IC, FMPX, DAPX, REPX, REPX-OB, MCOX, MCOX-OB units connected to one FX_ panel is 16.

The RS232 setting is used for the configuration and software update.

The INFO-line in the ZLPX (ZLPX-IC) panel must be disconnected during the ZLPX (ZLPX-IC) configuration.

Note! The maximum RS485 cable length between 2 devices is 1000 m.

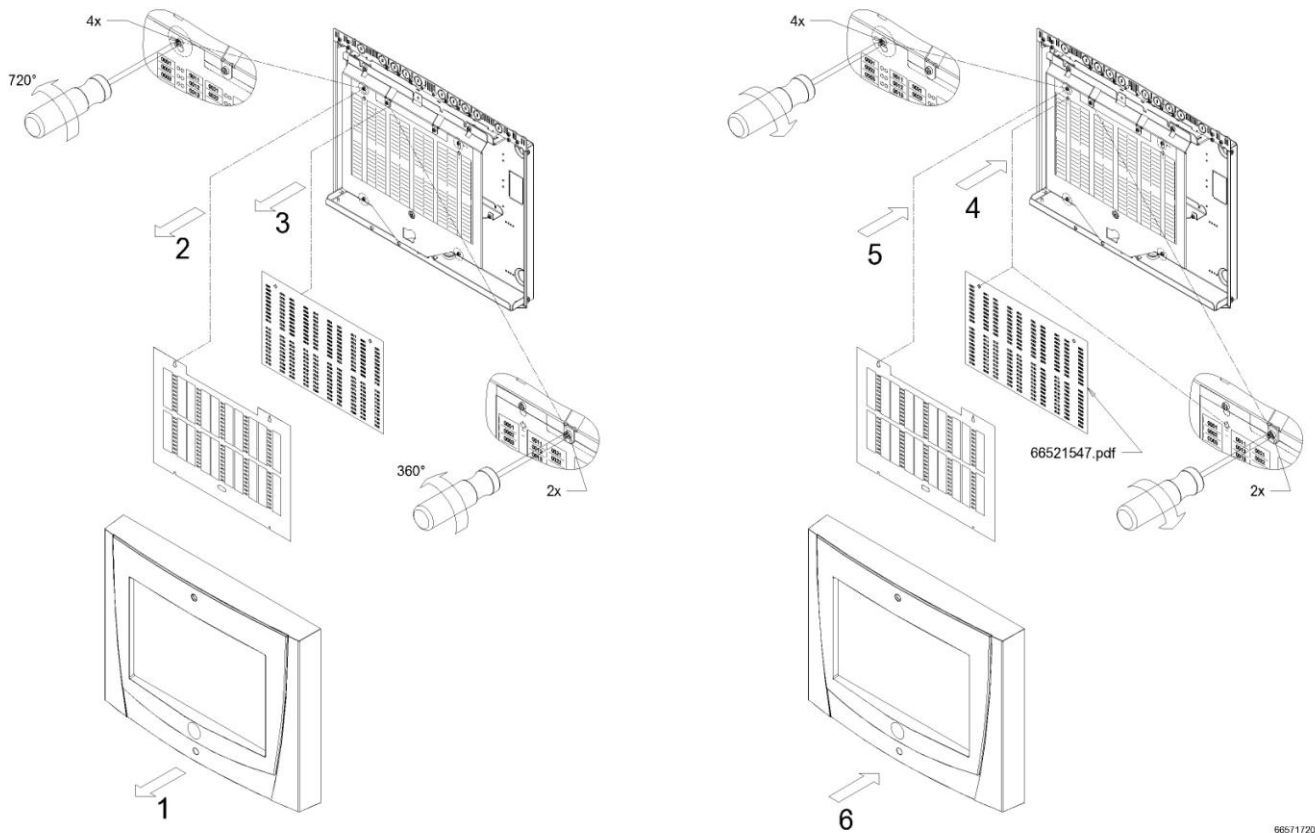
The maximum RS232 cable length is 10 m.

Note! The maximum number of zones in one FX NET system is 8000.

Note! Due to current consumption max. 50 zonal outputs/ZLPX-IC card can be activated at the same time.

Note! There can be more than one output/zone.

Zone numbering label installation



665/1720