# PROTOCOL REPEATER

REPX Protocol Repeater

The REPX protocol repeater duplicates the INFO serial communication line.

Max. four REPX units can be connected to one FX panel.
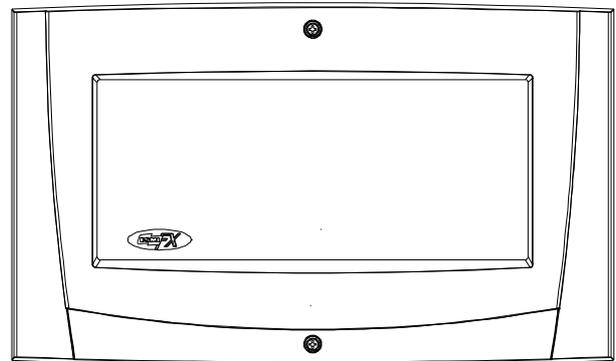
Mechanical installation
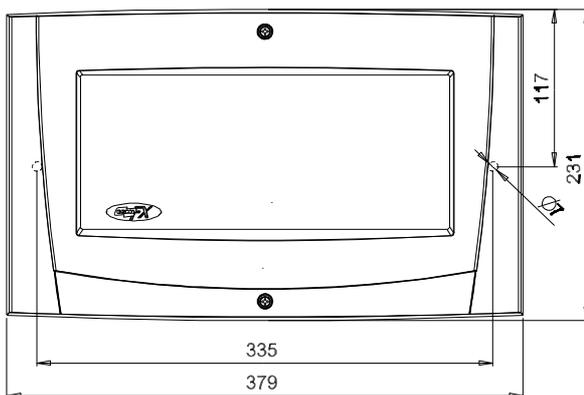
Technical data

Dimensions (W x H x D)	379 x 231 x 54 mm
Weight	2,1 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
Serial communication ports	In: RS485 or RS232 Out: RS485
IP Rating	IP30

Pelco reserves the right to modifications.

Product Codes

Product	Code	Description
REPX	FFS0070 3832	Panel version, wall mounting
REPX-OB	FFS0070 3833	PCB version, card slot mounting

Schneider Electric

Electrical connections
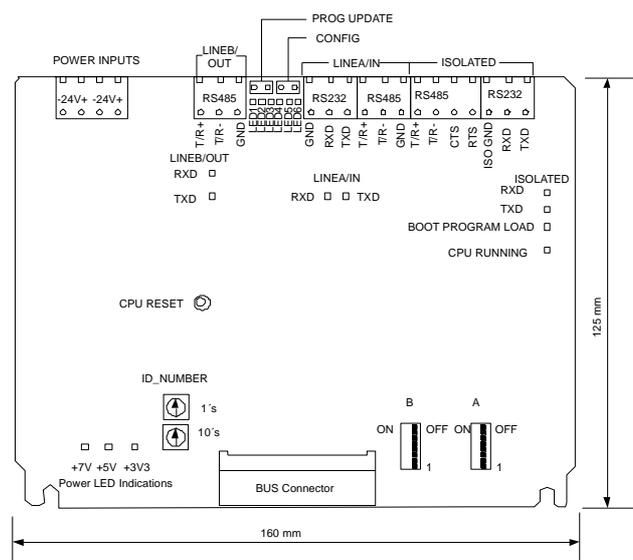
Settings and LED indications

A dip switch

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

B dip switch

B1	OFF	"EXT" isolated line faults monitored
	ON	"EXT" isolated line faults not monitored
B2	OFF	"EXT" isolated line not in use
	ON	"EXT" isolated line in use
B3	OFF	OUT "B" port not in use
	ON	OUT "B" port in use
B4	OFF	"EXT" isolated port baud rate. See table below.
	ON	"EXT" isolated port baud rate. See table below.
B5	OFF	"EXT" isolated port baud rate. See table below.
	ON	"EXT" isolated port baud rate. See table below.
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	

"EXT" isolated port baud rate

B4	B5	"EXT" port baud rate
OFF	OFF	1200
ON	OFF	2400
OFF	ON	4800
ON	ON	9600

LED indications in normal use

LED 1	Continuous	NA
	Blinking (1s)	NA
	Blinking quickly (100 ms)	NA
LED 2	Continuous	NA
	Blinking (1s)	NA
	Blinking slowly (4s)	NA
LED 3	Continuous	Power supply input 1 or 2 fault
	Blinking	NA
LED 4	Continuous	IN "A" line fault
	Blinking	IN "A" HW fault
LED 5	Continuous	OUT "B" line fault
	Blinking	OUT "B" HW fault
LED 6	Continuous	"EXT" isolated line fault
	Blinking	"EXT" isolated HW fault

Note! In system fault all LED indications are continuous.

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	NA
	OFF	NA
LED 5	Continuous	NA
	OFF	NA
LED 6	Continuous	MCOX HW installed
	OFF	**MCOX HW not installed**

Jumpers for service purposes

| Jumper	ON	OFF
Prog update	Program update	Normal use
Config	NA	NA

SW update

The unit is set to software update state by setting "prog update" jumper ON and restarting the unit (by pressing the CPU reset button). The sw update can be done with PC loader tool via incoming RS232 serial port. During the software update of the REPX unit the communication line to the FX panel (RS485) must be disconnected.
INFO protocol must be configured / enabled on the used port on fire panel (rs485 or rs232).

System principle
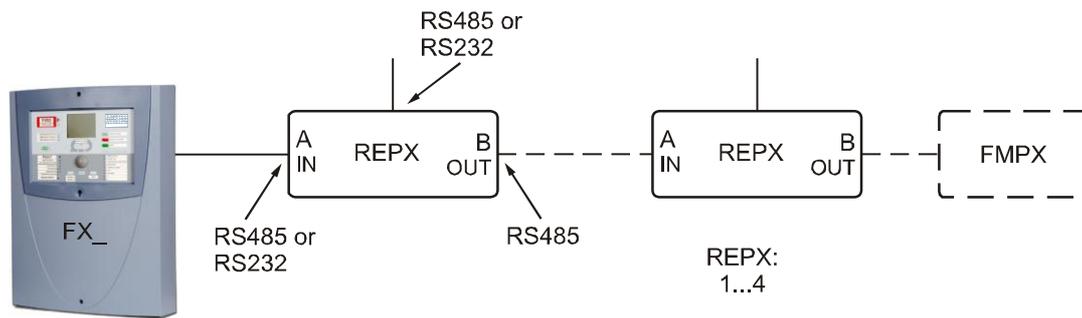
| Note! | The maximum number of REPX (REPX-OB) units connected to one FX_ panel is 4.

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

The RS232 setting is used for the software update.

The INFO-line in the REPX (REPX-OB) unit must be disconnected during the REPX (REPX-OB) configuration. |
|---|---|

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

The maximum RS232 cable length is 10 m. |
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