FLM-420-RLE-S Extinguishing module

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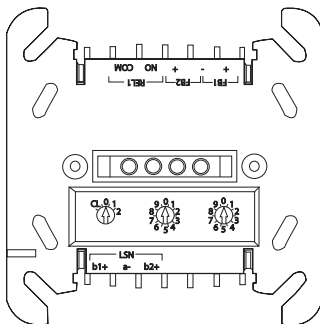**BOSCH**

Invented for life

- ▶ Rotary switches for automatic or manual address setting
- ▶ 2 input lines usable as independent inputs
- ▶ LED display for status indication
- ▶ Power supply via LSN
- ▶ Surface or DIN rail mounting

The FLM-420-RLE-S is used for the supervised monitoring and activation of extinguishing systems connected to the Local SecurityNetwork.

FB1+	Feedback +
b1+ / a- / b2+	LSN

System overview

Designation	Connection
NO / COM	Relay
FB2+	Feedback +
FB1- / FB2-	Feedback -

Functions

The FLM-420-RLE-S is fitted with a low voltage relay for connecting one extinguishing system to one LSN fire panel. Two feedback lines allow the FLM-420-RLE-S to signal a fault or the activation of the extinguishing system. These are indicated by a yellow and red LED. The feedback lines can also be used as independent input lines for the supervised monitoring of different peripherals.
The address of the interface module is defined by setting the rotary switches accordingly.

Address setting (rotary switches 1-3)

0 0 0	Loop/stub in LSN mode improved version with automatic addressing (T-tap system not possible)
0 0 1 - 254	Loop/stub/T-tap system in LSN mode improved version with manual addressing
CL 0 0	Loop/stub in LSN classic mode

Features of LSN improved version

The interface modules in the 420 series offer all the features of LSN improved technology:

- Flexible network structures including T-taps without additional elements
- Up to 254 LSN improved elements per loop or stub line
- Unshielded cables can be used
- Downwards compatible with existing LSN systems and control panels

Short circuit isolators

Integrated isolators ensure that function is maintained in the event of a short circuit or line interruption in the LSN loop (according to EN 54-17). A fault indication is sent to the fire panel.

Certifications and approvals

Complies with EN 54-17:2005, EN 54-18:2005 and VdS 2496

Region	Regulatory compliance/quality marks	
Germany	VdS	G 209085 FLM-420-RLE-S
Europe	CE	FLM-420-RLE-S
	CPD	0786-CPD-20725 FLM-420-RLE-S
Hungary	TMT	TMT-36/2010 szamu FLM-420-O8I2-S, FLM-420-O1I1-E, FLM-420-O1I1-D, FLM-420-RLE-S
Ukraine	MOE	UA1.016.0120702-11 FLM-420-RLE-S

Installation/configuration notes

- Can be connected to the fire panels FPA-5000 and FPA-1200 and the classic LSN control panels BZ 500 LSN, UEZ 2000 LSN and UGM 2020 (from WinPara SW version 4.83).
- The FLM-420-RLE-S can be surface-mounted with the provided housing, or mounted on a DIN rail without the housing. A DIN rail adapter is included in the delivery.

Parts included

Quantity	Component
1	FLM-420-RLE-S Extinguishing Interface Module
1	Surface-mount housing
1	DIN rail adapter
2	3.3 kOhm resistors
2	680 Ohm resistors

Technical specifications

Electrical

Input voltage	15 V DC to 33 V DC
Max. current consumption	7.9 mA
Activation extinguishing system	
• after initialization / during standby	3.3 kOhm
• during alarm	680 Ohm
Max. monitoring voltage	6 V
Max. monitoring current	1.5 mA (line short-circuit)

Mechanics

Operating/display elements	2 LEDs (1 yellow, 1 red)
Address setting	3 rotary switches for
	• LSN classic mode or LSN improved version
	• Automatic or manual addressing
Connection	8 screw terminals
Material	
• Interface module	PPO (Noryl)
• Surface-mount housing	ABS/PC blend
Color	
• Interface module	Gray white, similar to RAL 9002
• Housing	Signal white, RAL 9003
Dimensions	
• with housing	Approx. 126 x 126 x 71 mm (4.96 x 4.96 x 2.8 in.)
• without housing (with DIN rail adapter)	Approx. 110 x 110 x 48 mm (4.33 x 4.33 x 1.89 in.)
Weight	
• with housing	Approx. 390 g (13.8 ounces)
• without housing	Approx. 150 g (5.3 ounces)

Environmental conditions

Permitted operating temperature	-20 °C to 50 °C (-4 °F to 122 °F)
Permitted storage temperature	-25 °C to 85 °C (-13 °F to 176 °F)
Permitted relative humidity	< 96%

Classes of equipment as per IEC 60950	Class III equipment
Protection class as per IEC 60529	IP 54