XP95A

Mini Monitor Module

Technical data

All data is supplied subject to change without notice. Specifications are typical at 24 V, 73°F and 50% RH unless otherwise stated.

Operating voltage	*17 V - 28 V dc*
UL listed to operate	*17 V - 28 V dc*
Digital communication	*XP95*
Current consumption at 24 V	
Quiescent current	*200 µA*
LED operated alarm	*3.4 mA + quiescent*
Remote and LED alarm	*6.2 mA + quiescent*
Switch fault LED	*+2.8 mA (pulsing 0.5 s on, 0.5 s off)*
Operating temperature	*32°F (0°C) to 100°F (38°C)*
Standards and approvals	*UL, ULC, FM, CSFM*
Dimensions	*1.53 in. (39 mm) x 1.53 in. (39 mm) x 0.7 in. (18 mm)*
Weight	*1.05 oz (30 g)*
Materials	*Housing: White flame-retardant polycarbonate Terminals: Nickel plated stainless steel*

Product overview

Product	Mini Monitor Module
Part No.	55000-765
Digital communication	XP95 - see Protocol Compatibility below

Compliance
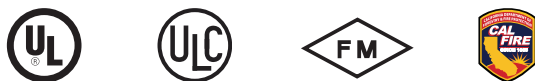
Product information

The XP95A Mini Monitor Module is a loop-powered device, which incorporates a monitored input circuit for connection to switches. The module is supplied in a small housing designed to fit into an electrical box, or to be DIN-rail mounted.

The Mini Monitor Module has an optional priority interrupt facility to give fast response and can be fitted in an electrical box behind a pull station. This option is selected via the eighth section of the DIP switch.

Note: When the eighth section of the DIP-switch is changed, the device will change the type code it sends to the panel. The panel will have to be programmed to accept this change.

- Designed for use where space is limited
- Interrupt/non-interrupt in one unit
- 'Pre-alarm' status available
- Three coloured LEDs, giving clearer status indication

Protocol Compatibility

The Mini Monitor Module uses XP95 protocol and is compatible with control equipment using XP95, Discovery and CoreProtocol® communication.

Operation

The device provides 'normal', 'trouble', 'pre-alarm' and 'alarm' states to the fire control equipment. The states are derived from the switched resistive values. The device accepts a maximum line resistance of 50Ω and requires a 20 KΩ end-of-line resistor.

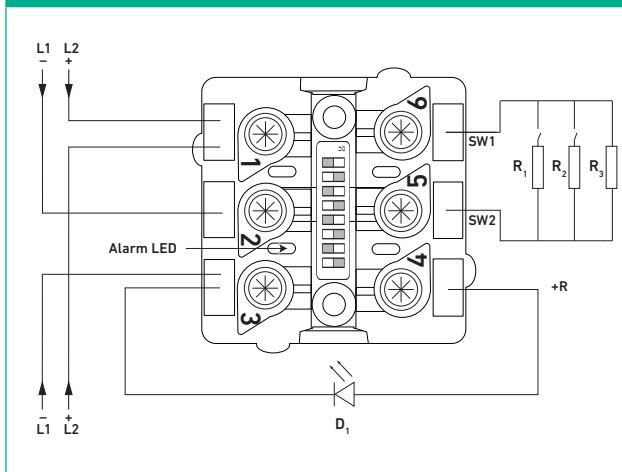The device has three status LEDs, one red, one green and one yellow.

The red LED is is switched by the fire control panel and illuminates in the event of an alarm condition being detected.

The green LED means that the device is polled.

The yellow LED can either mean a short-circuit on the loop-wiring (constant) or a fault on the monitored circuit (pulsing).

The unit has provision for a remote LED which is switched by the fire control panel. The length of cable used for the remote LED must not exceed three metres.

Assessed to ISO 9001:2015 Cert/LPCB ref. 010

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Cert/LPCB ref. 010

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Mini Monitor Module – wiring diagram

Key to resistors

R1 – Alarm	1 kΩ
R2 – Pre-alarm	10 kΩ
R3 – End-of-Line	20 kΩ
D1 – Optional remote LED	Max 3 m cable length

Analogue values related to circuit status and zone load (input resistance)

Status	Analogue value	Mini Monitor Module
Short-circuit fault	4	<0.1 kΩ
Indeterminate	4 or 64	0.1 kΩ to 0.2 kΩ
Alarm	64	0.2 kΩ to 2 kΩ (1 kΩ)*
Indeterminate	45 –51 or 64	2 kΩ – 3 kΩ
Pre-alarm	45 – 51	3 kΩ – 11 kΩ (10 kΩ)
Indeterminate	16 or 45 – 51	11 kΩ – 15 kΩ
Normal	16	15 kΩ – 25 kΩ (20 kΩ)*
Indeterminate	4 or 16	25 kΩ – 30 kΩ
Open circuit fault	4	>30 KΩ

*Note: * The values shown in brackets are recommended values, recommended value resistors supplied with the unit.*