

FLM-325-ISO Short Circuit Isolator

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- ▶ Automatic verification of data line for short circuit
- ▶ Contacts are rated to 1 A at 30 VDC
- ▶ Can be placed at any location on SLC loop
- ▶ 256 devices at maximum per loop for Class A (Style 7)
- ▶ Yellow LED provides data line status

The FLM-325-ISO Short Circuit Isolator isolates a shorted section on a specific polling circuit from the rest of the system to minimize the loss of devices. It fits into a standard 4-inch square or double-gang electrical back box.

Functions

Basic Operation

If a short condition occurs, the two adjacent isolators activate and their respective LED turns on. This action prevents the entire polling circuit from becoming disabled. Upon removal of the shorted condition, the isolators automatically return to the normal operating state.

Start-up Delay

When power is applied or after a short is removed, detectors and devices cannot begin communicating with the fire panel until they are sufficiently charged. Because the isolator must first charge the devices that are connected down the polling circuit, a start-up delay of approximately 30 s occurs when a full circuit of devices or detectors is connected to a single isolator without an optional loop circuit return (Class B, Style 4). During charging, the LED remains on.

Status display

In case of a short circuit the isolator activates and the yellow LED turns on.

Certifications and approvals

Region	Certification	
USA	UL	UOXX: Control Unit Accessories, System (ANSI/UL 864)
	CSFM	see our website

Installation/configuration notes

Compatibility Information

The following products are compatible with the FLM-325-ISO Short Circuit Isolator:

Category	Product ID	Product Description
Fire Panels	FPA-1000	Analog Addressable Fire Panels

Class A, Style 7 Wiring

The isolator can be located between any devices on the SLC loop. In the event of a short circuit on the SLC loop, the two adjacent isolators (closest isolators to the left and right of the shorted section) will activate and their respective LED indicators will be turned on.

All devices between the active short circuit isolators will be disconnected from the loop. This will prevent entire loop failure. After removal of the short circuit condition, the isolator goes back to normal and the fire panel restores the entire loop to normal operating state.

Class B, Style 4 Wiring

The isolator can be located between any devices on the SLC loop. In the event of a short circuit on SLC loop, an isolator closest to the shorted section will activate and the LED will be turned on.

All the devices beyond the shorted section will be disconnected. After removal of the short circuit condition, the isolator will automatically restore the entire loop to the normal operating state.

Wiring



Notice

All wiring must conform to local codes, ordinances and regulations.

1. Install module wiring in accordance with job drawings and appropriate wiring diagram.
2. Secure the module to an approved electrical box (supplied by installer).

Parts included

Quant.	Component
1	FLM-325-ISO Short Circuit Isolator
1	Wall plate
1	Literature pack

Technical specifications

Electrical

Input Voltage	17 VDC to 41 VDC
Current Consumption	
• Standby	0.27 mA
• Active (LED on)	10 mA

Mechanics

Dimension (H x W x D)	4.7 in. x 4.2 in. x 1.4 in. (11.9 cm x 10.7 cm x 3.6 cm)
Weight	1.4 oz (39.7 g)
LED indication	Yellow
Maximum number per loop	127

Environmental Conditions

Operating Temperature	+32°F to +120°F (0°C to +49°C)
Relative Humidity	90 %, non-condensing

Ordering information

FLM-325-ISO Short Circuit Isolator

Isolates a shorted section on a specific polling circuit from the rest of the system to minimize the loss of communication

Order number **FLM-325-ISO**

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