FLM-325-2R4-A Dual Relay Modules Family Datasheet

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Invented for life

▶ Provides 8 A of current with built-in short circuit isolator circuitry

▶ Two independently configurable Form C contacts

▶ Contacts are rated 1 A at 30 VDC or 0.5 A at 125 VAC

▶ Module address programming with the D5070 Analog Device Programmer

▶ Bi-colored LED provides module status

The modules provide two independently controlled Form C contacts while utilizing only one address point at the Signaling Line Circuit (SLC). The two Form C contacts can be used for a variety of Normally Open and Normally Closed applications such as fan, elevator and door control, or auxiliary notification.
As the modules use mechanically latching relays, a separate 24 VDC power supply is not required.
They fit into a standard 4-inch square or double-gang electrical back box.

Functions

Flexibility
The modules have been designed to provide flexibility and quick response to emergency conditions. The operating parameters for the modules are saved at the integrated EEPROM and maintained by each module so that during emergency situations no communication with the fire panel is needed. The fire panel only broadcasts system conditions on the Signaling Line Circuit (SLC) and each module processes them according to its configuration.

Status display
The modules have a green LED that flashes every time the module is polled.

Short Circuit Isolation
The FLM-325-2R4-2AI and FLM-325-2R4-8AI modules have built-in short circuit isolating (SCI) circuitry. In the event of a short circuit on the SLC line, the SCI circuitry will prevent entire loop failure, send a short circuit condition report to the FACP, and upon removal of the short circuit condition, automatically restore the entire loop to normal operation.

Certifications and approvals

Region	Regulatory compliance/quality marks	
USA	UL	UOXX: Control Unit Accessories, System (ANSI/UL 864)
	CSFM	see the Bosch website (www.boschsecurity.com)

Installation/configuration notes

Compatibility Information

The following products are compatible with the modules:

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

Technical specifications

Electrical

Current	
SLC	0.720 mA
SCI Isolation	10 mA typical

Relay Contact Ratings	
FLM-325-2R4-2A	2 A at 30 VDC, 1 pF; or 0.5 A at 120 VAC, 0.6 pF
FLM-325-2R4-8A	8 A at 30 VDC, 1 pF or 250 VAC resistive; or 4.8 A at 250 VAC, 0.6 pF

Voltage	
Operating	24 VDC to 39 VDC
SLC Applied	25.5 VDC to 39 VDC

Environmental

Operating Temperature:	+32℉ to +120℉ (0℃ to 49℃)
Relative Humidity:	Up to 90%, non-condensing

Mechanical

Dimensions (H x W x D):	4.7 in. x 4.2 in. x 0.85 in. (11.9 cm x 10.7 cm x 2.16 cm)
Bicolored LED:	Red and green
Contacts:	Two Form C

Trademarks

All hardware/software product names used in this document are likely to be registered trademarks and must be treated accordingly.

Ordering information

FLM-325-2R4-2A Dual relay module, 2A
Provides 2 A current at two independently-controlled Form C contacts for a variety of Normally Open and Normally Closed applications, compatible with 254 addresses
Order number **FLM-325-2R4-2A**

FLM-325-2R4-2AI Dual relay module with isolator, 2A
Provides 2 A current with built-in short circuit isolator circuitry at two independently-controlled Form C contacts for a variety of Normally Open and Normally Closed applications, compatible with 254 addresses
Order number **FLM-325-2R4-2AI**

FLM-325-2R4-8A Dual relay module, 8A
Provides 8 A current at two independently-controlled Form C contacts for a variety of Normally Open and Normally Closed applications, compatible with 254 addresses
Order number **FLM-325-2R4-8A**

FLM-325-2R4-8AI Dual relay module with isolator, 8A
Provides 8 A current with built-in short circuit isolator circuitry at two independently-controlled Form C contacts for a variety of Normally Open and Normally Closed applications, compatible with 254 addresses
Order number **FLM-325-2R4-8AI**