FCM-1-REL(A)

Releasing Control Module

NOTIFIER® by Honeywell

Intelligent/Addressable Devices

General

The FCM-1-REL Releasing Control Module is specifically designed for fire suppression releasing applications in FlashScan® systems. Power to the release agent solenoid(s) runs through the module for full-time monitoring and supervision.

The FCM-1-REL Releasing Control Module uses a redundant protocol; the module must be armed with a pair of signals in order to activate. It will then enter a 3-second window awaiting a pair of confirmation signals. If no confirmation is received, the module will automatically reset. It also supervises the wiring to the connected load and reports the status to the panel as NORMAL, OPEN, or SHORT CIRCUIT. The module has two pairs of output termination points available for fault-tolerant wiring and a panel-controlled LED indicator. The module may be connected to either one 24VDC solenoid or up to two 12VDC solenoids (in series). To ensure proper operation, this module shall be connected to a compatible Notifier system control panel only (list available from Notifier). In addition, please refer to Notifier *Device Compatibility Document* PN 15378 for the list of compatible solenoids.

NOTE: *FCM-1-REL is required for all new FlashScan-mode releasing applications with NFS2-3030 (version 14.0 or higher), NFS2-640 (version 12.0 or higher) and NFS-320(E)(C) (version 12.0 or higher) panels. Use FCM-1 for releasing applications on NFS-640, NFS-3030, and all CLIP mode panels.*

Features

- Redundant protocol for added protection
- Configurable for Class A or Class B operation
- External supply voltage monitoring
- Can power one 24V or two 12V solenoids
- SEMS screws for easing wiring
- Panel controlled status LED
- Analog communications
- Rotary address switches
- Low standby current
- Mounts in standard 4" (10.16 cm) junction box
- FlashScan operation

Specifications

GENERAL SPECIFICATIONS

- **Operating Voltage:** 15 to 32 VDC
- **Communication Line Loop Impedance:** 40 Ohm max.
- **Temperature Range:** 14°F to 140°F (-10° to 60°C)
- **Relative Humidity:** 10% to 95% noncondensing
- **Shipping Weight:** 5.5 oz (156 g)
- **Dimensions:** 4.275" W × 4.675" H × 1.400" D (10.86 cm W × 11.87 cm H × 3.56 cm D)

SLC

- **Average Operating Current:** 700 µA max @ 24 VDC (one communication every 5 sec. with LED enabled)
- **Maximum Activation Current:** 9.0 mA (LED on)



FCM-1-REL

EXTERNAL SUPPLY

- **Normal Operating Voltage:** 24 VDC Nominal
- **Maximum Line Loss:** 2.3 VDC (total allowable loss from power supply to module and from module to solenoid)
- **Minimum Operating Voltage to Activate Solenoid:** 18 VDC (at solenoid)
- **Standby Current:** 6.4 mA
- **Activation Current:** 10 mA

SOLENOID

- **Supervisory Loop Voltage:** 3.3 V
- **Supervisory Loop Current (Normal):** 30 mA
- **Maximum Activation Current:** 2 A

Product Line Information

NOTE: *"A" suffix indicates ULC Listed model.*

FCM-1-REL(A): Releasing Control Module.

SMB500: Optional Surface-Mount Backbox.

CB500: Control Module Barrier — required by UL for separating power-limited and non-power limited wiring in the same junction box as **FCM-1-REL**.

Agency Listings and Approvals

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listings may be in process. Consult factory for latest listing status.

- **UL Listed:** S635
- **ULC Listed:** (FCM-1-RELA)
- **FM Approved**
- **CSFM:** 7300-0028:249

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ENGINEERING & MANUFACTURING
QUALITY SYSTEMS

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