

# FRM-1

## Relay Module



Intelligent/Addressable Devices

### General

The FRM-1 Addressable Relay Module provides the system with a dry-contact output for activating a variety of auxiliary devices, such as fans, dampers, control equipment, etc. Addressability allows the dry contact to be activated, either manually or through panel programming, on a select basis.

### Features

- Built-in type identification automatically identifies these devices to the control panel.
- Internal circuitry and relay powered directly by two-wire SLC loop.
- Integral LED “blinks” green each time a communication is received from the control panel and turns on in steady red when activated.
- LED blink may be deselected globally (affects all devices).
- High noise immunity (EMF/RFI).
- Wide viewing angle of LED.
- Direct-dial entry of address 01– 159 for FlashScan loops, 01 – 99 for CLIP mode loops.
- Compatible with FlashScan® and CLIP protocol systems

### Applications

The FRM-1 may be programmed to operate dry contacts for applications such as door holders and Air Handling Unit shutdown.



### Operation

Each FRM-1 uses one of 159 possible module addresses on a SLC loop (99 on CLIP loops). It responds to regular polls from the control panel and reports its type and status, including the open/normal/short status of its Notification Appliance Circuit (NAC). The LED blinks with each poll received. On command, it activates its internal relay.

## Specifications

Normal operating voltage:	15 to 32 VDC.
Maximum current draw:	6.5 mA (LED on).
Average operating current:	230 $\mu$ A direct poll; 255 $\mu$ A group poll.
EOL Value:	Not used.
Temperature range:	0°C to 49°C.
Humidity range:	10% to 93% non-condensing.
Current Ratings:	3.0 A @ 30 VDC resistive, non-coded. 2.0 A @ 30 VDC resistive, coded. 0.9 A @ 110 VDC resistive, non-coded. 0.9 A @ 125 VDC , resistive, non-coded. 0.5 A @ 30 VDC inductive (L/R = 5 ms), coded. 1.0 A @ 30 VDC inductive (L/R = 2 ms), coded. 0.3 A @ 125 VDC inductive, (PF=0.35), non-coded. 1.5A @ 25 VDC , inductive, (PF=0.35), non-coded. 0.7 A @ 70.7 VDC inductive, (PF=0.35), non-coded. 2.0A @ 25 VDC , inductive, (PF=0.35), non-coded.

**NOTE:** Maximum (Speakers): 70.7 V RMS, 50 W

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