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 μA direct poll; 255 μA 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

Ordering Information

**FG-05-025**
FRM-1 Single intelligent relay output module