FMM-1 Monitor Module

Specifications
- Normal Operating Voltage: 15 to 32 VDC
- Maximum Current Draw: 5.1 mA (LED on)
- Average Operating Current: 400μA (LED flashing)
- EOL Resistance: 47K Ohms
- Maximum IDC wiring resistance: 1,500 Ohms
- Temperature Range: 32°F to 120°F (0°C to 49°C)
- Humidity: 10% to 93% Noncondensing
- Dimensions: 4 1/2" H x 4" W x 1 1/4" D (Mounts to a 4" square by 2 1/8" deep box.)
- Accessories: SMB500 Electrical Box

Before Installing
This information is included as a quick reference installation guide. Refer to the control panel installation manual for detailed system information. If the modules will be installed in an existing operational system, inform the operator and local authority that the system will be temporarily out of service. Disconnect power to the control panel before installing the modules.

NOTICE: This manual should be left with the owner/user of this equipment.

General Description
The FMM-1 Monitor Module is intended for use in intelligent, two-wire systems, where the individual address of each module is selected using the built-in rotary switches. It provides either a 2-wire or 4-wire fault tolerant initiating device circuit (IDC) for normally open contact fire alarm and supervisory devices, or either normally open or normally closed security devices. The module has a panel controlled LED indicator. The FMM-1 can be used to replace an MMX-1 module in existing systems.

Compatibility Requirements
To ensure proper operation, this module shall be connected to a compatible Notifier system control panel (list available from Notifier).

Mounting
The FMM-1 mounts directly to 4" square electrical boxes (see Figure 2A). The box must have a minimum depth of 2 1/8". Surface mounted electrical boxes (SMB500) are available from Notifier.

Wiring
NOTE: All wiring must conform to applicable local codes, ordinances, and regulations. This module is intended for power limited wiring only.
1. Install module wiring in accordance with the job drawings and appropriate wiring diagrams.
2. Set the address on the module per job drawings.
   Note: Some panels support extended addressing. In order to set the module above address 99 on compatible systems, carefully remove the stop on the upper rotary switch with thumb in the direction shown in Figure 1.
3. Secure module to electrical box (supplied by installer), as shown in Figure 2A.

Figure 1. Removing Rotary Switch Stop:

Figure 2A. Module mounting:
Note: For UL Listed security installations, the FMM-1 must be mounted within the control panel enclosure.

Figure 2B:
Figure 3. Typical 2-wire initiating circuit configuration, NFPA Style B:

ANY NUMBER OF UL LISTED CONTACT CLOSURE DEVICES MAY BE USED. DO NOT MIX FIRE ALARM INITIATING, SUPERVISING, OR SECURITY DEVICES ON THE SAME MODULE.

47 K EOL RESISTOR ELR-47K

INITIATING DEVICE CIRCUIT (IDC) - NFPA STYLE B
POWER LIMITED: 230µA MAX @ 12 VDC MAX

INSTALL CONTACT CLOSURE DEVICES PER MANUFACTURER’S INSTALLATION INSTRUCTIONS.

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Figure 4. Typical 4-wire fault tolerant initiating circuit configuration, NFPA Style D:

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EOL RESISTOR IS INTERNAL AT TERMINALS 8 & 9.

INSTALL CONTACT CLOSURE DEVICES PER MANUFACTURER’S INSTALLATION INSTRUCTIONS.

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Figure 5. Typical 2-wire initiating circuit configuration for security systems (with alarm versus short capability):

Note: For UL Listed security installations, the FMM-1 must be mounted within the control panel enclosure.

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14K SERIES RESISTOR

47 K EOL RESISTOR ELR-47K

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