

## **MMF-300 Monitor Module**

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## SPECIFICATIONS

Normal Operating Voltage:	15 to 32 VDC
Maximum Current Draw:	5.0mA (LED on)
Average Operating Current:	375 µA (group poll); 350 µA (direct poll); 600 µA Max. (Communicating, IDC Shorted)
EOL Resistance:	47K Ohms
Maximum IDC Resistance:	1,500 Ohms
Maximum IDC Voltage:	11 Volts
Maximum IDC Current:	450 µA
Temperature Range:	32°F to 120°F (0°C to 49°C)
Humidity:	10% to 93% Non-condensing
Dimensions:	4 <sup>1</sup> / <sub>2</sub> " H x 4" W x 1 <sup>1</sup> / <sub>4</sub> " D (Mounts to a 4" square by 2 <sup>1</sup> / <sub>8</sub> " 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.

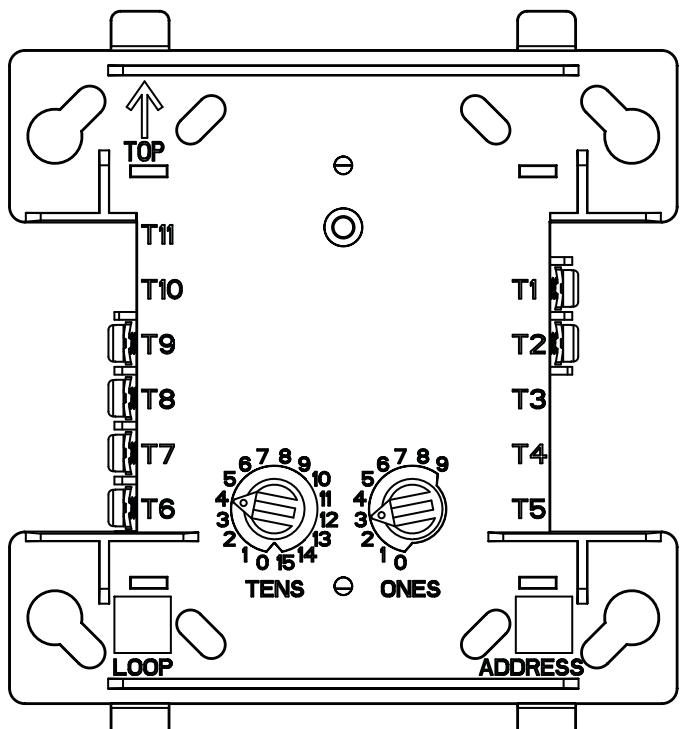
## **GENERAL DESCRIPTION**

The MMF-300 Monitor Module is intended for use in addressable, 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 or supervisory devices. The module has a panel controlled LED indicator. The MMF-300 can be used to replace an M300 module in existing systems.

#### **COMPATIBILITY REQUIREMENTS**

To ensure proper operation, these modules shall be connected to listed compatible system control panels only.

**FIGURE 1. CONTROLS AND INDICATORS:**

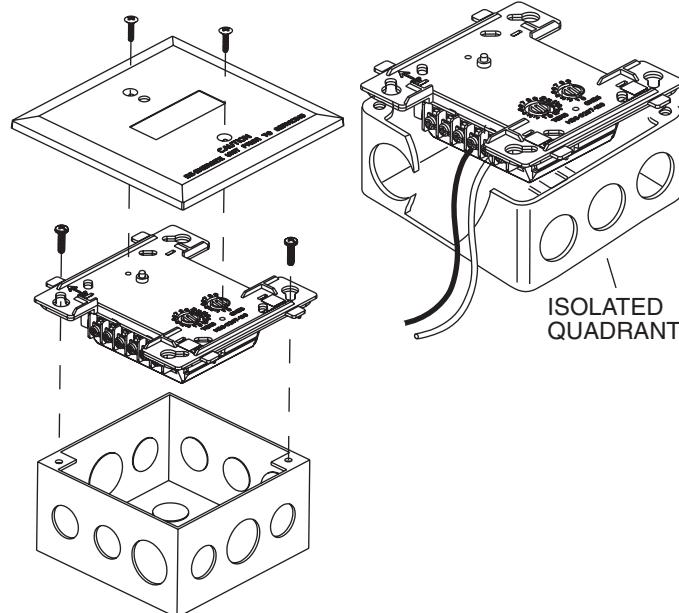


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## **Mounting**

The MMF-300 mounts directly to 4-inch square electrical boxes (see Figure 2). The box must have a minimum depth of  $2\frac{1}{8}$  inches. Surface mounted electrical boxes (SMB500) are available.

**FIGURE 2. MODULE MOUNTING:**

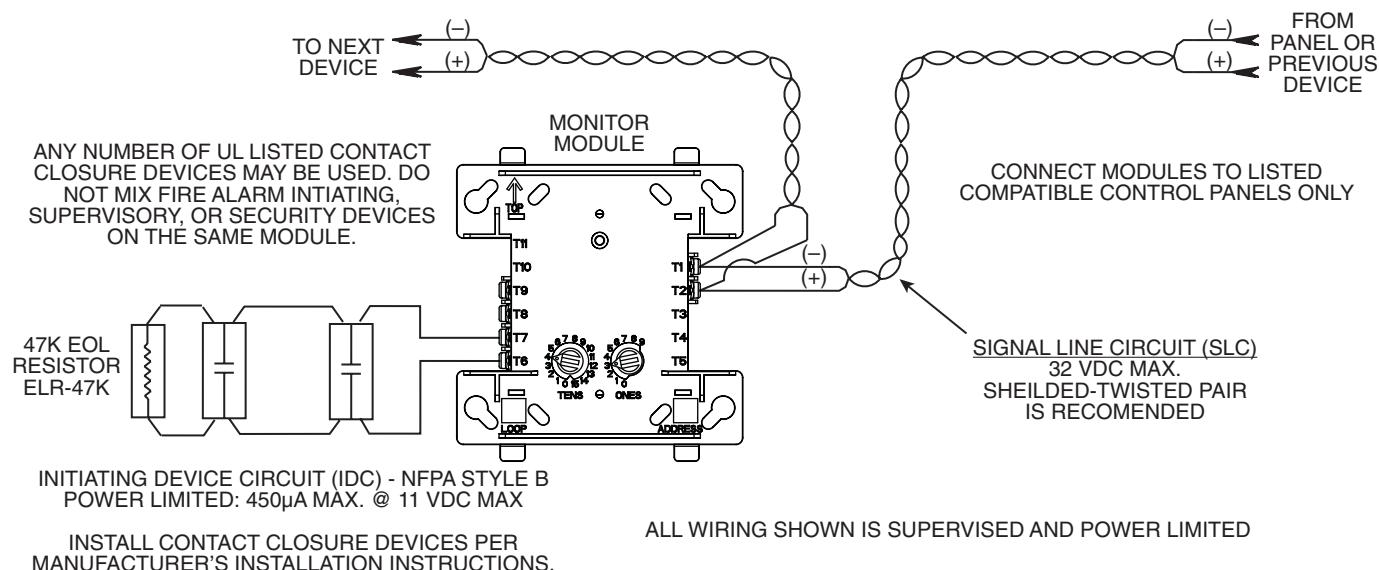


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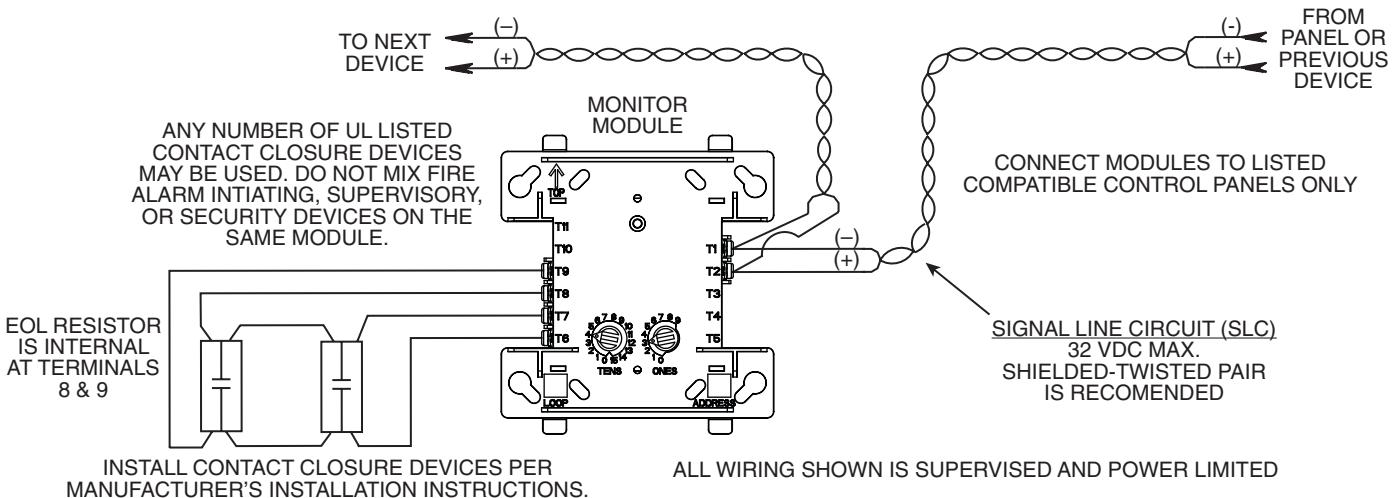
## WIRING

**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.
  3. Secure module to electrical box (supplied by installer), as shown in Figure 2.

**FIGURE 3. TYPICAL 2-WIRE INITIATING DEVICE CIRCUIT (IDC) CONFIGURATION, NFPA STYLE B (CLASS B):**

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**FIGURE 4. TYPICAL 4-WIRE FAULT TOLERANT INITIATING DEVICE CIRCUIT (IDC) CONFIGURATION, NFPA STYLE D (CLASS A):**

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