

MIX-M502MAPA Interface Module

Specifications

Normal Operating Voltage:	15 to 32 VDC
Maximum Alarm Current:	5.1mA (LED on)
Average Operating Current:	400µA, 1 communication and 1 LED flash every 5 seconds, 3.9k eol
EOL Resistance:	3.9K Ohms
Maximum IDC wiring resistance:	25 Ohms
IDC Supply Voltage (between Terminals T3 and T4)	
Regulated DC Voltage:	24 VDC power limited
Ripple Voltage:	0.1 Volts RMS maximum
Current:	90mA per module
Temperature Range:	32°F to 120°F (0°C to 49°C)
Humidity:	10% to 93% Non-condensing
Dimensions:	4½" H x 4" W x 1¼" D (Mounts to a 4" square by 2½" 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 MIX-M502MAPA Interface Module is intended for use in intelligent, two-wire systems, where the individual address of each module is selected using the built-in rotary decade switches. This module allows intelligent panels to interface and monitor two-wire conventional smoke detectors. It transmits the status (normal, open, or alarm) of one full zone of conventional detectors back to the control panel. All two-wire detectors being monitored must be ULC compatible with this module. The MIX-M502MAPA has a panel controlled LED indicator.

Compatibility Requirements

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

Mounting

The MIX-M502MAPA mounts directly to 4" square electrical boxes (see Figure 2A). The box must have a minimum depth of 2½". Surface mounted electrical boxes (SMB500) are available from Mircom.

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 2A.

Figure 1. Controls and indicators:

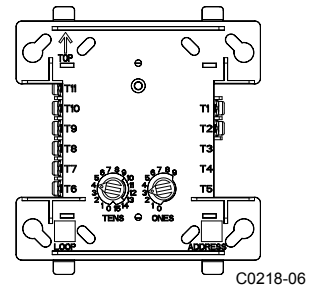


Figure 2A. Module mounting with barrier:

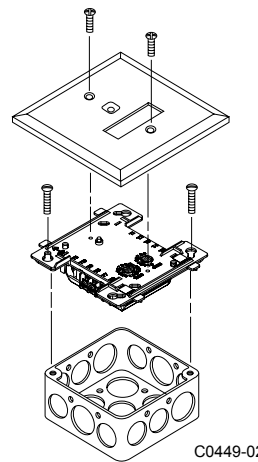
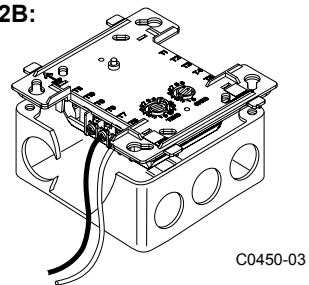


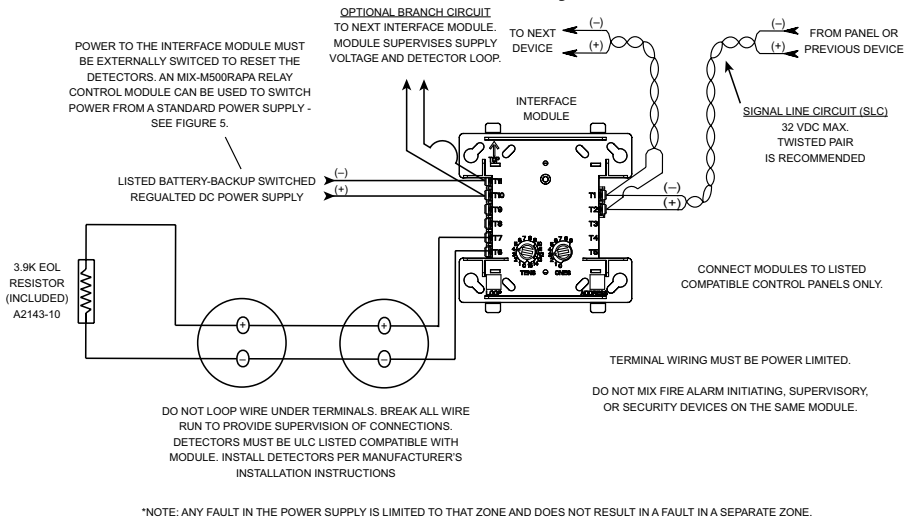
Figure 2B:



Compatible Two-wire System Sensor Smoke Detectors for Use with MIX-M502MAPA with Zone Identifier A:

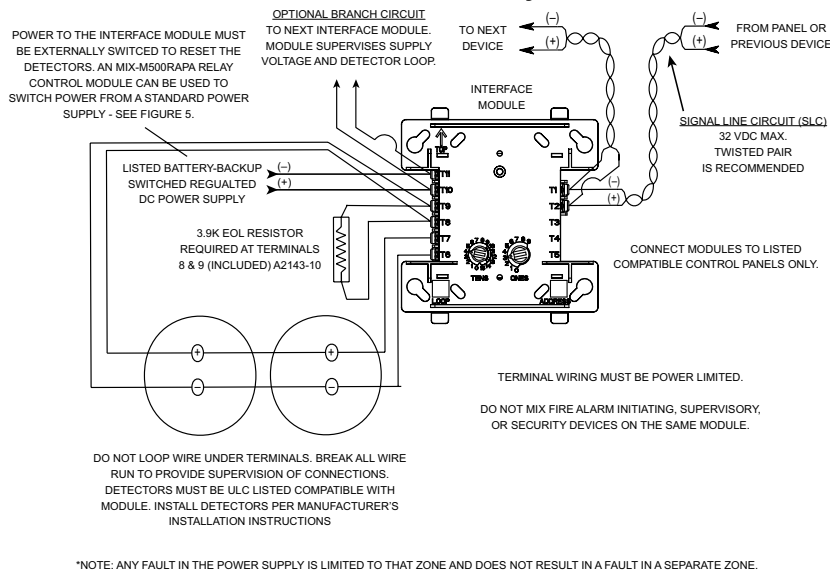
Detector Model	Compatibility ID	Detector Type	Base Model	Base Identifier	Max Detectors
1451A	A	Ionization	B401/BA	A	20
2451A	A	Photoelectric	B401/BA	A	20
2451THA	A	Photoelectric with Thermal	B401/BA	A	20
1400A	A	Ionization	N/A	—	20
2400A	A	Photoelectric	N/A	—	20
2400THA	A	Photoelectric with Thermal	N/A	—	20
1151A	A	Ionization	B110LPA/B401A	A	20
2151A	A	Photoelectric	B110LPA/B401A	A	20

Figure 3. Interface two-wire conventional detectors, NFPA Style B:



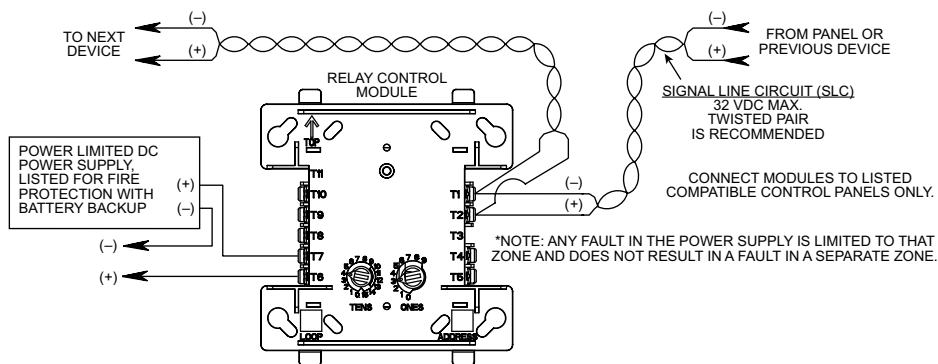
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Figure 4. Interface two-wire conventional detectors, NFPA Style D:



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Figure 5. Relay control module used to disconnect a power supply:



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