



Mircom MIX-M502MAP Interface Module Instruction Manual

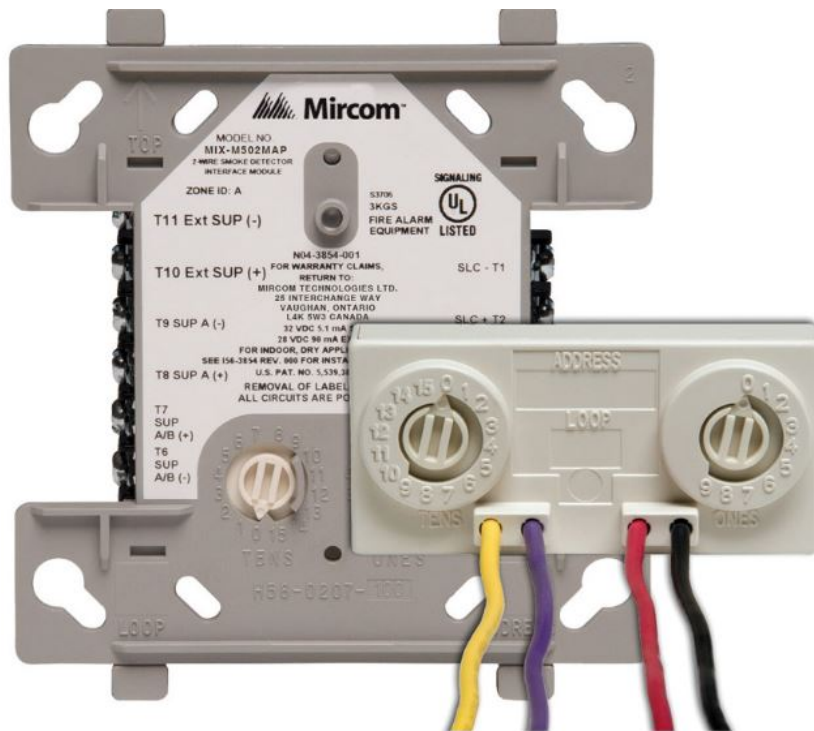
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Mircom MIX-M502MAP Interface Module



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:** 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 MIX-M502MAP Interface Module is intended for use in intel-ligent, 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 UL compatible with this module (see systemsensor.com for complete list). The MIX-M502MAP 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-M502MAP 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 System Sensor.

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 2A. Module mounting with barrier:

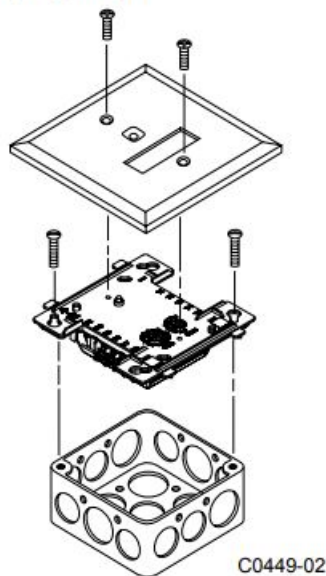


Figure 1. Controls and indicators:

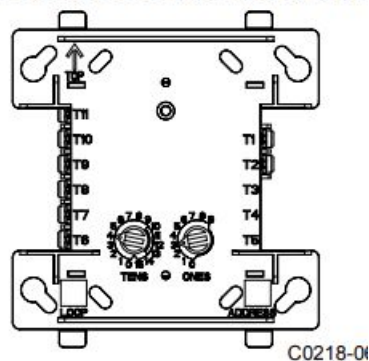
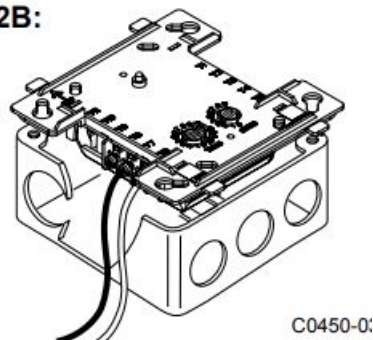


Figure 2B:



Compatible Two-wire System Sensor Smoke Detectors for Use with MIX-M502MAP with Zone Identifier A

Detector Model	Compatibility ID	Detector Type	Base Model	Base Identifier	Max Detectors
1451	A	Ionization	B401/B	A	20
2451	A	Photoelectric	B401/B	A	20
2451TH	A	Photoelectric with Thermal	B401/B	A	20
1400	A	Ionization	N/A	—	20
2400	A	Photoelectric	N/A	—	20
2400TH	A	Photoelectric with Thermal	N/A	—	20
1151	A	Ionization	B110LP/B401	A	20
2151	A	Photoelectric	B110LP/B401	A	20

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

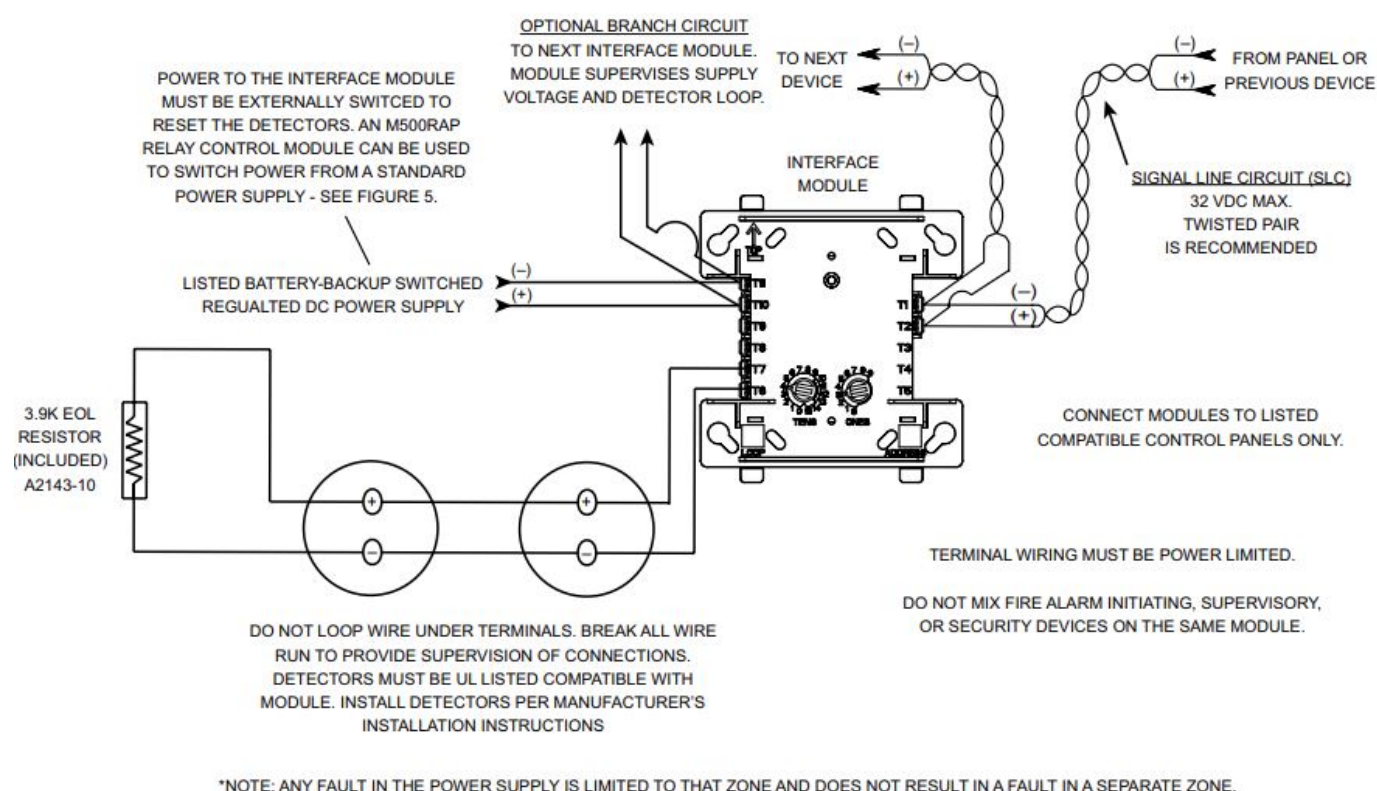
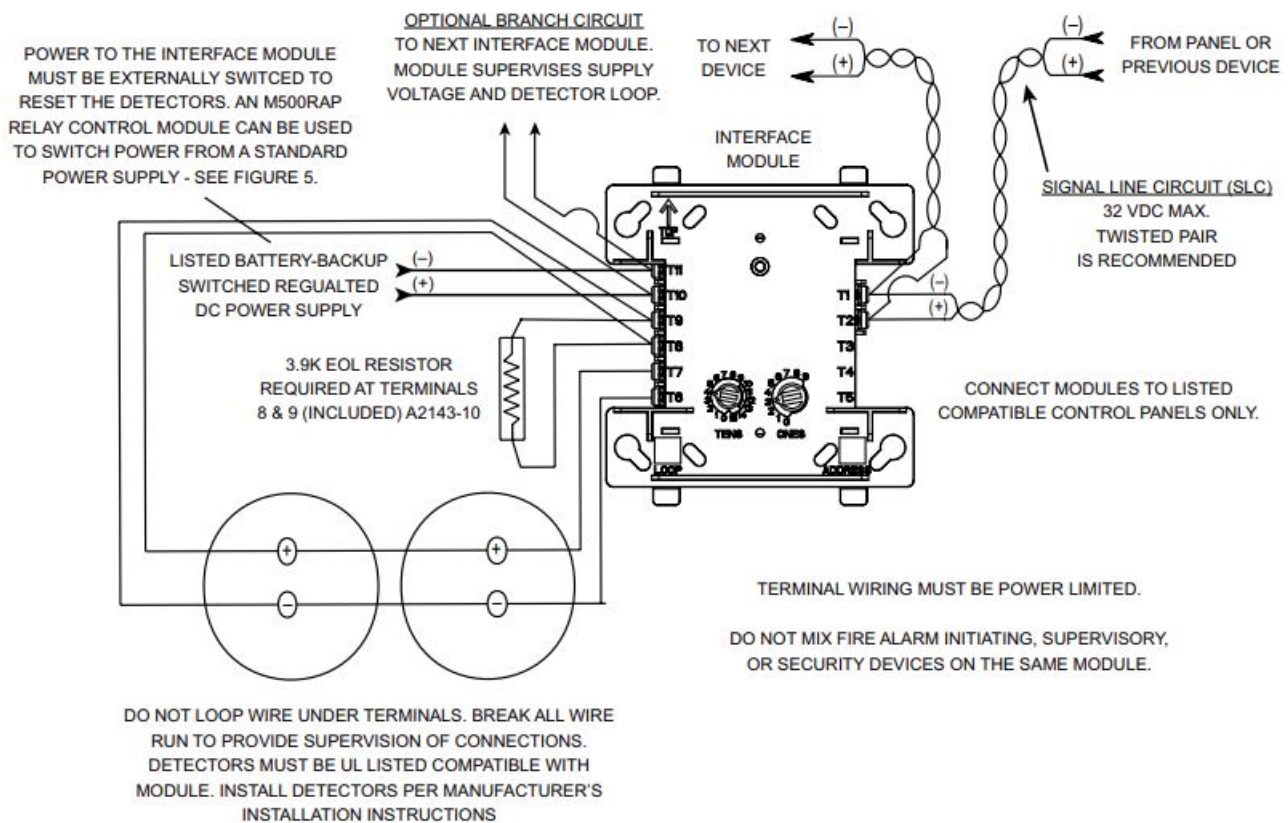
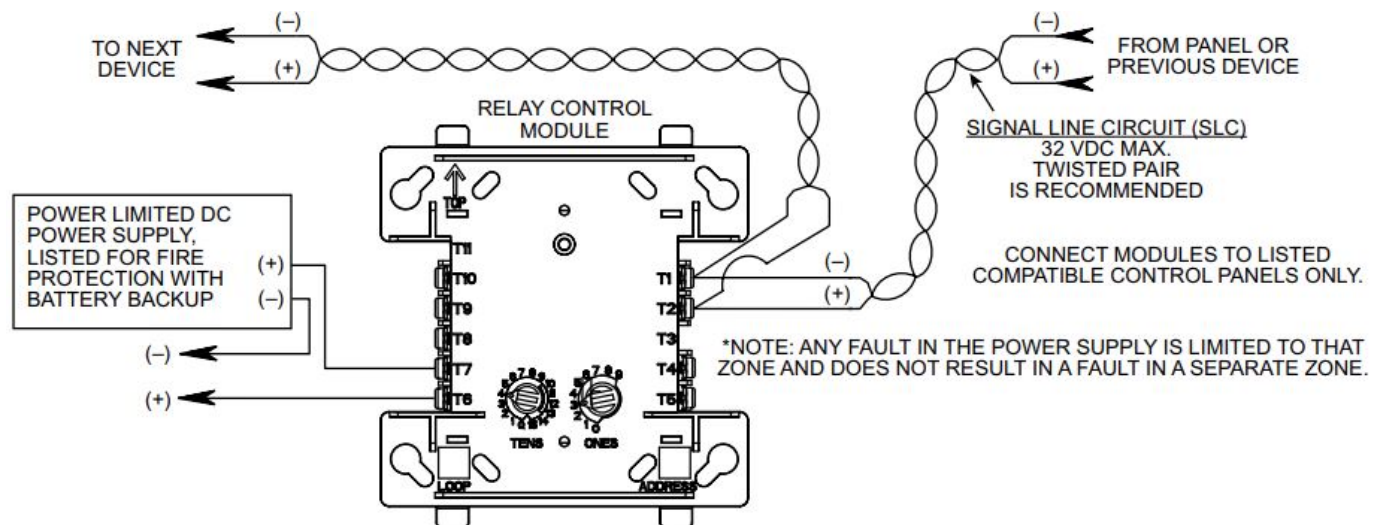


Figure 4. Interface two-wire conventional detectors, NFPA Style D:



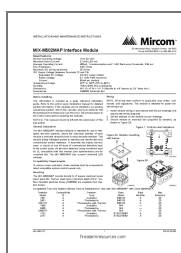
*NOTE: ANY FAULT IN THE POWER SUPPLY IS LIMITED TO THAT ZONE AND DOES NOT RESULT IN A FAULT IN A SEPARATE ZONE.

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



firealarmresources.com

Documents / Resources



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MIX-M502MAP Interface Module, MIX-M502MAP, Interface Module, Module

References

-  [Fire Alarm Resources | Download fire alarm documents](#)
-  [System Sensor | Honeywell Building Technologies](#)

Manuals+.