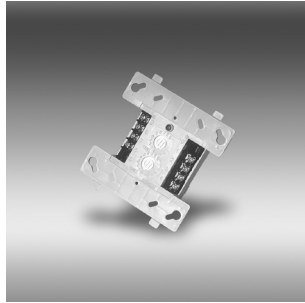
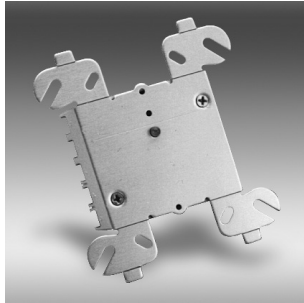


## MIX-M500 SERIES

### Special Application Intelligent Addressable Modules



MIX-M500MDOD



MIX-M500XDOD

### Description

Mircom's intelligent module products are designed to meet a wide range of applications. Monitor and control modules can be used to supervise and activate sounders, strobes, door closers, pull stations, waterflow switches, conventional smoke detectors, and more. Each module is rigorously designed and tested for electromagnetic compatibility and environmental reliability, in many cases exceeding industry standards and meet MIL-S-901C specification for shock and vibration. Modules are addressed with easy-to-use rotary code switches. Full size modules mount in standard 4" x 4" x 2-1/8" junction box. Wiring terminals are easily accessible for troubleshooting purposes.

#### MIX-M500MDOD Monitor Module

Mircom's monitor modules provide an interface to contact devices, such as security contacts, waterflow switches, or pull stations. They are capable of Styles A, B and D supervised wiring to the load device. Conventional 4-wire smoke detectors can be monitored through their alarm and trouble contacts, wired as an initiating loop to the module.

In addition to transmitting the supervised state of the monitored device (normal, open, or short), the full analog supervision measurement is sent back to the panel. This allows impedance changes in the supervised loop to the monitored device to be detected.

#### MIX-M500XDOD Isolator Module

The MIX-M500XDOD Isolator Module is an automatic switch that opens when the line voltage drops below four volts. Isolator modules should be spaced between groups of sensors or modules in a loop to protect the rest of the loop. If a short occurs between any two isolators, then both isolators immediately switch to an open circuit state and isolate the devices between them. The remaining units on the loop continue to fully operate. No more than 25 devices are recommended for each group.

### Features

- SEMS screws for easing wiring
- Panel controlled status LED
- Analog communications
- Rotary address switches
- Low standby current
- Mounts in standard 4" junction box
- Meets MIL-S-901C Specification for Shock and Vibration

#### MIX-M500SDOD Control Module

The MIX-M500SDOD Control Module provides supervised monitoring of wiring to load devices that require an external power supply to operate, such as horns, strobes, or bells. It is capable of Styles Y and Z supervision. Upon command from the control panel, the MIX-M500SDOD will disconnect the supervision and connect the external power supply across the load device. The disconnection of the supervision provides a positive indication to the panel that the control relay actually turned on.

The external power supply is always relay isolated from the communication loop, so that a trouble condition on the power supply will never interfere with the rest of the system. Full analog measurement of the supervised wiring is transmitted back to the panel and can be used to detect impedance changes or other special test functions.

#### MIX-M500RDOD Relay Module

The MIX-M500RDOD Relay Module contains two isolated sets of Form-C contacts, which operate as a DPDT switch. The module allows the control panel to switch these contacts on command. No supervision is provided for the notification appliance circuit.



S5434

## Specifications

### General Specifications

<b>Operating Voltage</b>
15-32 VDC
<b>Communication Line Loop Impedance</b>
40 $\Omega$ max.
<b>Temperature Range</b>
32° to 120°F (0° to 49°C)
<b>Relative Humidity</b>
10% to 93%: noncondensing
<b>Dimensions</b>
4.25"W x 4.65"H x 1.1"D
<b>Shipping Weight</b>
6.3 oz (196g)

### MIX-M500MDOD and MIX-M500SDOD Specifications

<b>Standby Current</b>
400 $\mu$ A max @ 24 VDC (one communication every 5 sec. with 47k EOL) 550 $\mu$ A max @ 24 VDC (one communication every 5 sec. with EOL<1k) (short circuit condition) 5.5 mA (with LED latched on)
<b>End-of-Line Resistance</b>
47 k $\Omega$ (included)

### MIX-M500XDOD Specifications

<b>Standby Current</b>
450 $\mu$ A max
<b>Isolation Impedance</b>
2.25 k $\Omega$ - 2.9 k $\Omega$
<b>Fault Detection Delay</b>
250 ms min.
<b>Fault Detection Threshold</b>
4 Volts
<b>Line Restoration Threshold</b>
7 Volts

### MIX-M500RDOD Specifications

<b>Standby Current</b>
300 $\mu$ A @ 24 VDC (one communication every 5 sec. with LED enabled)
<b>LED Current</b>
5.5 mA (with LED latched on)
<b>Relay Contact Ratings</b>
3.0 A @ 30 VDC resistive 0.9 A @ 110 VDC resistive 0.9 A @ 125 VAC resistive 0.5 A @ 125 VAC inductive (PF=.35) 0.7 A @ 75 VAC inductive (PF=.35)

## Ordering Information

Model	Description
MIX-M500MDOD	Special Application Monitor Module
MIX-M500RDOD	Special Application Relay Module
MIX-M500SDOD	Special Application Supervised Control Module
MIX-M500XDOD	Special Application Isolator Module
<b>Accessories</b>	
CB500	Control Module Barrier
SMB500	Surface Mount Box