

MIX-M500S Control Module

The MIX-M500S 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-M500S 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.

Specifications

General Specifications

Operating Voltage	
15-32 VDC	
Communication Line Loop Impedance	
40 Ω max.	
Temperature Range	
32° to 120°F (0° to 49°C)	
Relative Humidity	
10% to 93%: noncondensing	
Dimensions	
MIX-M501M	2.7"W x 1.7:"H x 0.5"D
Others:	4.25"W x 4.65"H x 1.1"D
Shipping Weight	
MIX-M501M: 1.2 oz. (37 g)	Others: 6.3 oz. (196 g)

MIX-M500M, MIX-M500S, MIX-M501M Specifications

Standby Current
400 µA max @ 24 VDC (one communication every 5 sec. with 47k EOL)
550 µA max @ 24 VDC (one communication every 5 sec. with EOL<1k) (short circuit condition)
5.5 mA (with LED latched on)
End-of-Line Resistance
47 kΩ (included)

MIX-M500R Specifications

Standby Current
300 µA @ 24 VDC (one communication every 5 sec. with LED enabled)
LED Current
5.5 mA (with LED latched on)
Relay Contact Ratings
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)

MIX-M502M Specifications

Standby Current
300 µA max @ 24 VDC (one communication every 5 sec. with LED enabled)
External Power Supply
18-28 VDC (100 mV ripple max.)
End-of-Line Resistance
3.9 kΩ (included)
External Supply Standby Current
11.5 mA @ 24 VDC (nominal)
External Supply Alarm Current
80 mA @ 24 VDC (nominal)

MIX-M500DM Specifications

Standby Current
750 µA max. @ 24 VDC (one communication every 5 sec. with 47k EOL)
Alarm Current
970 µA max. (one communication every 5 sec.) 6 mA (with LED latched on)
End-of-Line Resistance
47 kΩ (two included)

M500X Specifications

Standby Current
450 µA max
Isolation Current
5 mA max
Fault Detection Delay
250 ms min.
Fault Detection Threshold
4 Volts
Line Restoration Threshold
7 Volts

Ordering Information

Model	Description
MIX-M500M	Monitor Module
MIX-M500R	Relay Module
MIX-M500S	Supervised Control Module
MIX-M501M	Mini Monitor Module
MIX-M502M	Zone Interface Module
MIX-M500DM	Dual Input Monitor Module
M500X	Isolator Module

Add suffix "A" for Canadian models.

