

TR-M500X

Fault Isolator module

GENERAL

The System Sensor TR-M500X Fault Isolator modules enable part of the communications signaling line circuit to continue operating when a short circuit occurs. The System Sensor TR-M500X Isolator Module is an automatic switch that opens when the line voltage drops below four volts. This module is rigorously designed and tested for electromagnetic compatibility and environmental reliability, in many cases exceeding industry standards.

When you install the Isolator Modules, the modules should be spaced between groups of sensors or modules in a signaling line circuit to protect the remainder of the signaling line circuit. 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 signaling line circuit continue to operate. No more than 20 devices are recommended for each group.

An LED indicator flashes in the normal condition and lights during a short circuit condition. When the short circuit is removed, the module will automatically restore the entire signaling line circuit.



TR-M500X

FEATURES & BENEFITS

- Up to 20 addressable devices may be grouped between isolator modules
- Provides a low standby current
- Offers a panel controlled status LED
- Mounts in a standard 4" (10.16cm) junction box
- Wiring terminals are easily manageable for troubleshooting purposes



Note: Specifications are subject to change without notice.



Technical Specifications

SPECIFICATIONS

Standby Current: .00045 amps. max.
Operating Temperature Range: 32° F to 120° F (0° C to 49° C)
Humidity Range: 10% to 93% non-condensing
Voltage Range: 15 - 32 VDC
Communication Line Impedance: 40 Ohms
Isolation Current: 5 mA max.
Fault Detection Delay: 250 ms min.
Fault Detection:
Threshold: 4 volts
Line Restoration:
Threshold: 7 volts
Dimensions: 4.5" H x 4" W .25" D (11.4 H x 10.2 W x .6 D cm)
Mounting Box: Mounts to a 4" square by 2.8"D (10.2 x 7.1 cm deep box)

STANDARDS

The TR-M500X is designed to comply with the following standards:
UL Standard: UL 864.

ORDERING INFORMATION

TR-M500X: Fault Isolator module

AGENCY LISTINGS AND APPROVALS

For exact certification listings for each model, please reference the respective agency website.

UL listed

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