Addressable Devices

System Sensor M500X

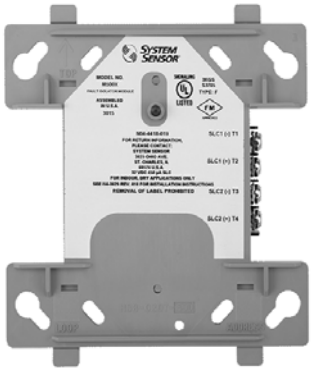
Style 7 Isolator Module

General

The System Sensor M500X Fault Isolator modules enable part of the communications signaling line circuit to continue operating when a short circuit occurs. The System Sensor 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.



M500X

Ordering Information

M500X: Isolator Module

FEATURES & BENEFITS

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

System Sensor M500X Technical Specifications

SYSTEMS

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)

*Normal operating current. During power failure, current drops to 0.045 amp, since the back light is extinguished.

TEMPERATURE AND HUMIDITY RANGES

This system meets NFPA requirements for operation at 0 – 49°C/32 – 120°F and at a relative humidity 93% ± 2% RH (noncondensing) at 32°C ± 2°C (90°F ± 3°F). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15 – 27°C/60 – 80°F.

STANDARDS

The M500X is designed to comply with the following standard:
UL Standard: UL 864 9th Edition

AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.
UL: S1949
FM
CSFM: 7300-1653:0103
ULC Listed
ISO 9001 Certification

For a complete listing of all compliance approvals and certifications, please visit: http://www.gamewell-fci.com/en-US/documentation/Pages/Listings.aspx

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This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

For more information
Learn more about Gamewell-FCI's System Sensor M500X and other products available by visiting www.Gamewell-FCI.com

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