

M500 Input, Output and Isolator Modules

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System Sensor'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, manual call points, waterflow switches, and more. Each module is rigorously designed and tested for electromagnetic compatibility and environmental reliability, in many cases exceeding industry standards. Modules are addressed with easy-to-use rotary code switches. Full size modules mount in the standard SMB500 backbox. Wiring terminals are easily accessible for troubleshooting purposes.

Features:

- Mount in SMB500 (surface mounting box)
- Full analogue supervision (M500M and M500CH)
- Low stand-by current
- Latching output drive circuit controlled by panel command (M500M and M500CH)
- Rugged industrial construction
- SEMS screws for easy wiring
- Direct dial decade address entry (M500M and M500CH)
- Stable communications techniques with noise immunity
- Module visible LED controlled by panel

M500MB Monitor Module

System Sensor's monitor modules provide an interface to contact devices, such as waterflow switches. They provide full supervision of wiring to the monitored circuit. Conventional 4-wire smoke detectors can be monitored through their alarm and fault contacts, wired as an initiating circuit to the module.

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

M500CH Control Module

The M500CH Control Module provides supervised monitoring of wiring to load devices that require external power to operate, such as horns, strobes, bells, etc. Upon command from the panel, the M500CH will disconnect the supervision and connect the external supply in the correct polarity across the load device. The external supply is therefore isolated from the rest of the system.

Full analogue measurement of the supervised wiring is transmitted back to the panel and can be used to detect impedance changes.

Optionally the M500CH can be used to provide a voltage free changeover contact (unsupervised) where electrical isolation is required between the loop and the interfaced equipment.

M500X Isolator Module

The M500X Isolator Module is an automatic switch that opens when the line voltage drops below 4 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.

Specifications: M500MB

Standby Current:	400 μ A (includes 100 μ A normal supervision current)
LED Current:	5.1 mA latched on
End-of-Line Resistance:	47 k Ω (included)

Specifications: M500CH

Standby Current:	400 μ A (supervised) 300 μ A (unsupervised)
LED Current:	5.1 mA latched on
End-of-Line Resistance:	47 k Ω (included) for supervised circuit
Relay Contact Rating:	2A @ 30VDC resistive 0.6A @ 30VDC inductive

Specifications: M500X

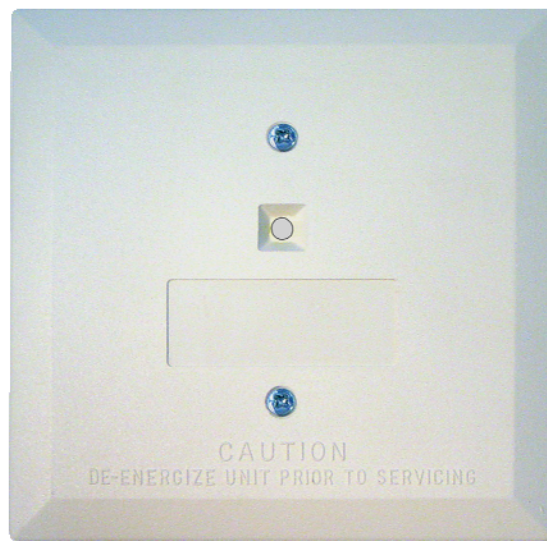
Standby Current:	450 μ A max
Isolation Impedance:	2.25 k Ω - 2.9 k Ω
Fault Detection Delay:	250 ms min.
Fault Detection Threshold:	4 Volts
Line Restoration Threshold:	7 Volts

Specifications: Common

Operating Voltage Range:	15 to 32VDC
Operating Humidity Range:	10% to 93% Relative Humidity, non-condensing
Operating Temperature Range:	0°C to 60°C
Dimensions (in SMB500):	125mm (h) x 125mm (w) x 50mm (d)
Weight:	150gm



M500CH or M500MB



M500X

Ordering Information:

Description

Module – Monitor AA – Input
Module – Control – Output
Isolator – Zone – M500X

Part Number

M500MB
M500CH
M500X

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