AA Isolator Module

Overview

The **AA Isolator Module** (**M500X**) is an automatic switch that opens when the analogue addressable loop voltage falls below 4 volts. Isolators should be spaced between groups of loop devices protect the remainder of the loop. If a short-circuit occurs between any two isolators, then both isolators immediately switch to an open-circuit state, isolating the devices between them. The other devices on the loop continue to function normally.

AA Isolator Module (M500X)

Features

- Visible LED controlled by panel
- Stable communications technique with noise immunity
- Low standby current
- SEMS screws for easy wiring
- Mount in PMB125 (universal mounting box)

Specification

Operating Voltage	15 Vdc to 32 Vdc
Standby Current	450 µA (not isolating)
Maximum Current Draw	17 mA (device in isolation)
Isolation Impedance	2.25 kΩ to 2.9 kΩ
Fault Detection Delay	250 ms min.
Fault Detection Threshold	4 Volts
Line Restoration Threshold	7 Volts
Operating Temperature Range	0 °C to 49 °C
Humidity	0 to 93 %, RH, non-condensing
Dimensions	110 x 120 x 30 mm (W x H x D) (Mounts to a 125W x 125H x 51.5D mm box)

Capacity

This following table shows the maximum number of detectors or modules that can be installed between two isolators.

Detector / Module Type	Max number between M500X or similar isolator
200 Series Detectors in B501AUS or B501AP Base	60
7251 Pinnacle	40
6500 Beam Detector	15
Old 500 Modules	6
M200 Modules (except CZ)	40
M210E-CZ Conventional Zone Module	10
Multi-modules	6
MCP5A Manual Call Point	4
Any sensor in B524RTE relay base	3

Ordering Information

Product Code	Description
M500X	AA Isolator Module (Uses PMB125 Mounting Box)
PMB125	Universal AA Mounting Box, 125 x 125 x 51.5 mm

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