Simplex®

*UL Listed**

MX Technology Addressable Devices

Model 4090-5250 Loop Powered Multiple I/O Module with Three Inputs and Two Outputs

Features

MX Technology addressable multiple input/output module features:

- MX loop powered, separate voltage is not required
- Three supervised Class B independent inputs for monitoring either N.O. or N.C. contacts
- Inputs that can be selected as Style B for multiple input contacts (short is an active input, open is a trouble) or as Style C for a single current limited contact (short or open is a trouble)
- Outputs are two separate Form C (dry/volt-free) latching relay contacts rated 2 A @ 24 VDC
- Relays are monitored for a "stuck" condition causing a relay fault
- Inputs and outputs are individually monitored and controlled by system programming
- Address is easily programmed with the MX 850EMT Engineering Management Tool
- Status LED illuminates when any of the three inputs is active; in the inactive state LED will blink to indicate polling from the MX Control Module (blink on poll is selectable when programming the control module)
- Mounts in D800 IP55 housing; cover allows viewing of module status LED
- UL listed to Standard 864

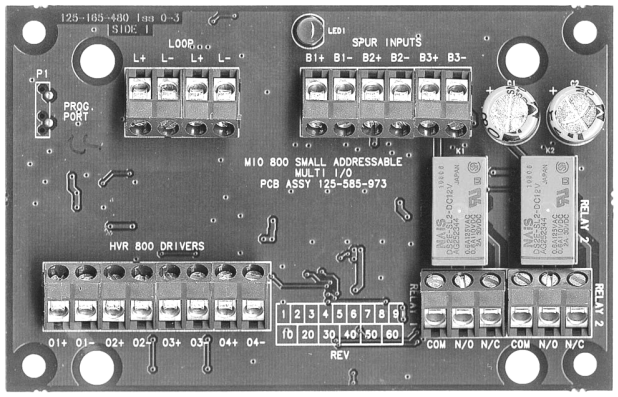
Multi-Point device:

- Programming uses three sub-points for the inputs and two for the outputs, five total

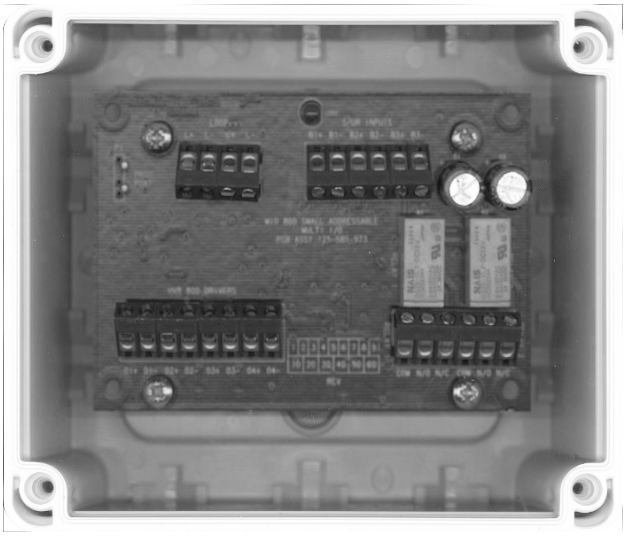
Compatibility:

- For use with Simplex® 4100ES and 4010ES Series fire alarm control panels equipped with an MX Loop Module
- Refer to data sheet S4100-0059 for MX Loop Module details
- Also compatible with DIN-Rail mounting (*not UL listed*)

* Listings and approvals under Simplex Time Recorder Co. are the property of Tyco Fire Protection Products.



4090-5250 Multiple I/O Module



4090-5250 Multiple I/O Module
(shown mounted in D800 housing with cover removed)

Description

4090-5250 Multiple I/O Modules use MX Technology to provide an addressable input/output module with flexible monitoring of three inputs and control of two outputs to satisfy a variety of applications. Modules are individually addressable and communicate with an MX Loop Module located in the host fire alarm control panel.

Applications include monitoring fire contacts such as extinguishing system control, ventilation control, fire door control, etc. Input are independent and the Form C output contacts are dry/volt-free suitable for a variety of applications.

Product Selection

Model	Description	Dimensions
4090-5250	Multiple I/O Module; 3 Class B inputs and 2 Form C relay outputs	110 mm W x 72 mm H x 18 mm D (4 $^{11}/_{32}$" x 2 $^{27}/_{32}$" x $^{23}/_{32}$")
557.201.401	D800 Ancillary housing; IP55 rated; provides viewing port for status LED	140 mm W x 120 mm H x 70 mm D (5 ½" x 4 ¾" x 2 ¾")
557.201.303	DIN-Rail Mounting Kit (**NOTE**: Not UL listed)	

Accessories

Model	Description
516.850.900	MX Engineering Management Tool, ref. MX Model 850EMT, sensor installation, diagnostic, and programming tool
516.800.922	MX Ancillary Program Lead (Spare)
516.800.923	MX Service Tool Accessory Kit
516.800.924	Package of 10 spare pins for ancillary programming lead

Specifications

MX Loop Current	0.7 mA in standby
	6.25 mA in alarm
Relay Contact Ratings	2 A @ 24 VDC
Wiring Resistance to Monitored Circuits	40 Ω maximum
Input Options	Single or multiple input N.O. contact Style B with open circuit = trouble/fault and short circuit = input active; requires 300 Ω end-of-line resistor
	N.O. or N.C. single input Style C contact with open circuit or short circuit = trouble/fault and current limited input = input active; Requires 300 Ω end-of-line resistor and 150 Ω resistor wired in series with contact common connection (refer to installation instructions for details)
Wiring Connections	Terminal blocks, for wire size 0.5 to 2.5 mm^2 (20 to 14 AWG)
Operating Temperature	32° F to 120° F (0° C to 49° C)
Humidity	up to 93% RH non-condensing
Installation Instructions	579-1083