

Description

The MIO800 Addressable Multi-Input/Output Module has three inputs and two outputs from latching relays that communicates with compatible *MX* Control and Indicating Equipment (CIE).

Each input on the MIO800 supports one of the following modes:

- Multiple normally-open contacts, closing for alarm, with open-circuit fault
- A single normally-open contact, closing for alarm with short-circuit and open-circuit faults
- Multiple normally-closed, open for alarm contacts with short-circuit faults
- A single normally-closed contact, opening for alarm, with short-circuit and open-circuit faults.

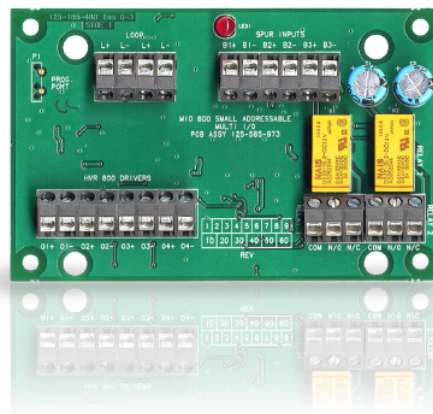
Interrupt operation to speed up response is available on some configurations. As the MIO800 will interrupt on lowering resistance only (alarm or short circuit applied), interrupts cannot be used for normally-closed applications. Also, Input 3 does not support interrupt mode.

The MIO800 includes two unsupervised change-over relay outputs, labelled Relay 1 and Relay 2. These relays can be controlled by the CIE.

The MIO800 has 4 logic level outputs labelled 01, 02, 03 and 04. These terminals must not be used.

The MIO800 must NOT be used to switch mains voltages.

Figure 1: MIO800



Features

- Compatible with *MX* Addressable Loop on SIMPLEX 4100ESi, VIGILANT *MX1* panels
- Three configurable inputs and two relay outputs from latching relays
- LED indication of relay operation
- Larger *MX* module footprint
- Range of mounting options
- AS ISO 7240.18 Listing Input/Output Modules

Mounting

The MIO800 is supplied as an open circuit board (PCB) which can be fitted into a D800 Ancillary Housing, may be DIN rail mounted, or fitted to a suitable electrical back box or standoffs on a gear plate. Note that the MIO800 is a different size to the CIM, DIM, RIM, etc, and will therefore require a different mounting arrangement.

Specifications

Table 1: Specifications

Item	Description
Loop Voltage ¹	20 V to 40 Vdc
Quiescent Current	480 μ A
Operated Current (LED on)	3 mA
Max. MIO800 per Loop ²	250
Input EOL	330 Ohm
Input Alarm Resistor	150 Ohm
Maximum Circuit Resistance	40 Ohm
Relay Contact Rating ³	2A @ 24Vdc4
Ambient Temperature	-25 °C to +70 °C
Storage Temperature	-40 °C to +80 °C
Relative Humidity <i>Indoor Applications Only</i>	10% to 95% (non cond.)
Dimensions (HWD)	72 x 110 x 18 mm
Wire Size (maximum)	2.5sq. mm
ActivFire Listing	afp-3166
FPANZ Listing	VF/655
Standards	AS ISO 7240.18:2018

Table 2: Part numbers

Part number	Description
555.800.065	MIO800 Multi Input/Output Module
557.201.303	DIN Rail Mounting Kit
557.201.401	D800 Ancillary Housing

Callout	Description
1	Addressable loop voltage provided by MX CIE.
2	For use with MX1. Refer to appropriate manual: LT0360 (MX1-NZ), LT0441 (MX1-Au) for design specifications.
3	Output current is for a resistive load
4	The MIO800 must not be used to switch mains voltages

Operation

The on-board LED will turn on when any input is in the alarm condition, and can also be programmed to blink when the device is polled by the CIE. With additional programming the LED can indicate output operation.

Address Setting

The MIO800 is shipped with a default (invalid) address of 255 and must be set to the correct loop address using the 850EMT or *MX* Service Tool and programming lead.

Wiring

MIO800 wiring options:

Figure 2: Normally open, S/C=Alarm, O/C=Fault

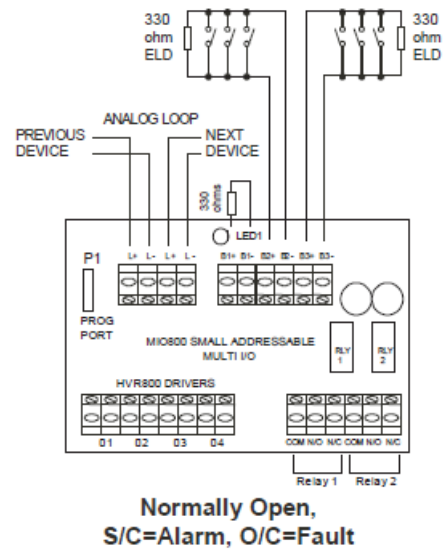


Figure 3: Normally open, S/C=Fault, O/C=Fault

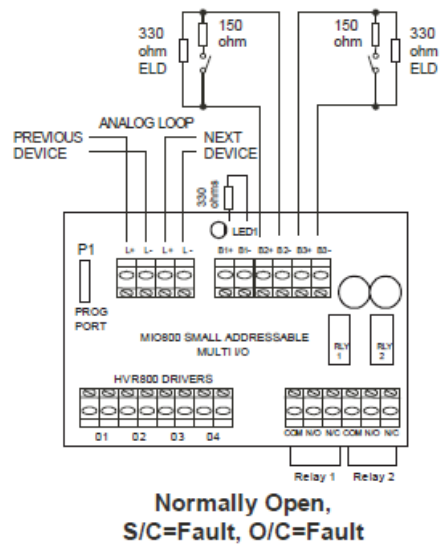


Figure 4: Normally closed, S/C=Fault, O/C=Alarm

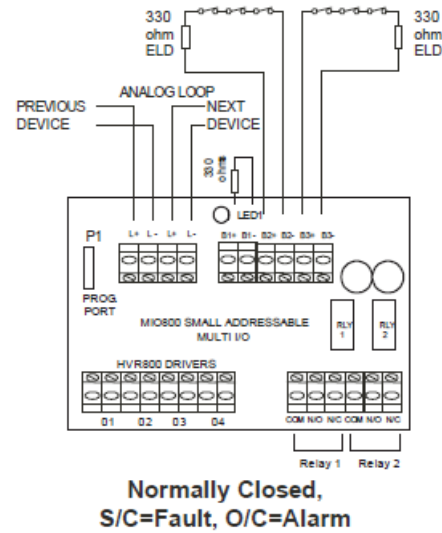
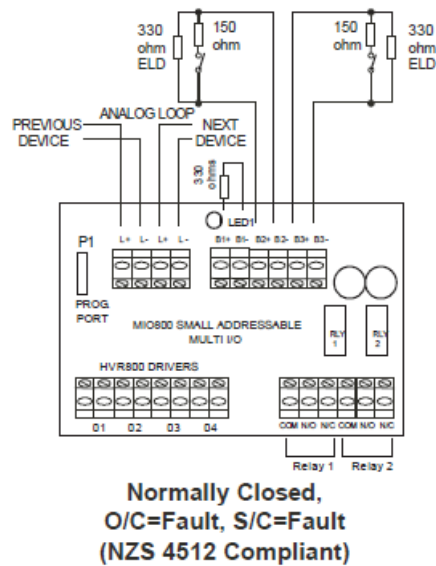


Figure 5: Normally closed, S/C=Fault, O/C=Fault, (NZS 4512 Compliant)



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VIGILANT, a respected regional brand of Johnson Controls, is a technology leader in the Australian and New Zealand fire detection markets with AS and NZS product approvals. The VIGILANT product line includes a comprehensive range of MX TECHNOLOGY fire detection products and the market-leading QE20/QE90 voice evacuation systems. VIGILANT product is widely supported throughout Australia and New Zealand by a network of installation companies, service companies and distributors.

