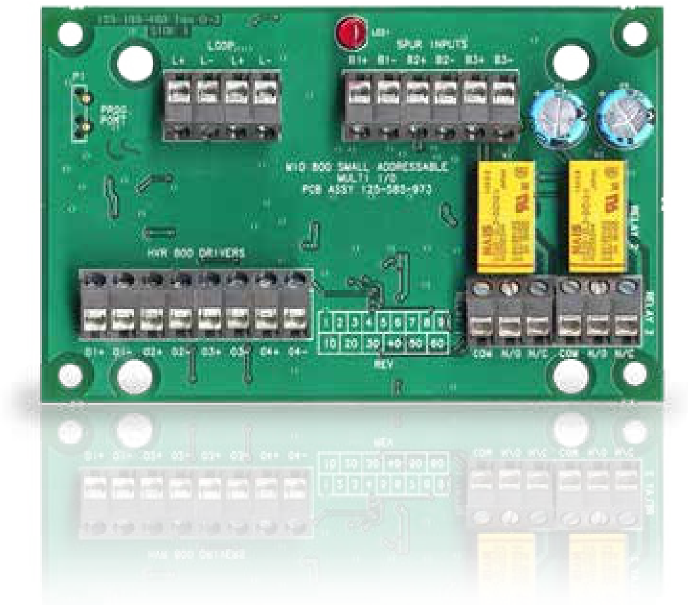
MIO800

MX Detection Range - Multi-Input/Output Module

VIGILANT



Features

- // Three configurable inputs and two relay outputs from latching relays
- // LED indication of relay operation
- // Larger *MX* module footprint
- // Range of mounting options

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.

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

Loop Voltage[1]	20V to 40Vdc
Quiescent Current	480µA
Operated Current (LED on)	3mA
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 @ 24Vdc[4]
Ambient Temperature	–25°C to +70°C
Storage Temperature	–40°C to +80°C
Relative Humidity	10% to 95% (non cond.)
Indoor Applications Only	
ActivFire Listing	afp-1446
FPANZ Listing	VF/655
Dimensions (HWD)	72 x 110 x 18 mm
Wire Size (maximum)	2.5sq. mm

Part Numbers

555.800.065	MIO800
557.201.303	DIN Rail Mounting Kit
557.201.401	D800 Ancillary Housing

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

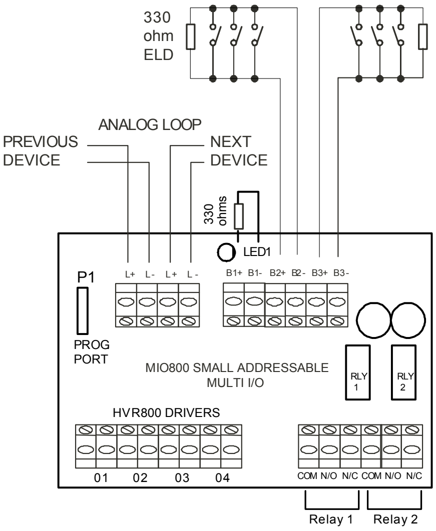
The on-board LED will turn on when any input is in the alarm condition, and can also be programmed to blink when the device is polled by the CIE. With additional programming the LED can indicate output operation.

Address Setting

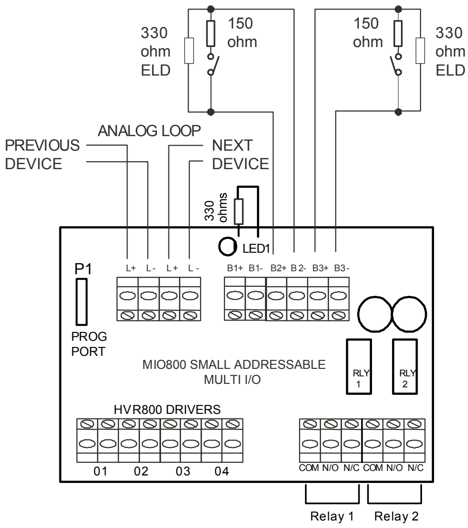
The MIO800 is shipped with a default (invalid) address of 255 and must be set to the correct loop address using the 850EMT or *MX* Service Tool and programming lead.

Wiring

MIO800 wiring options.

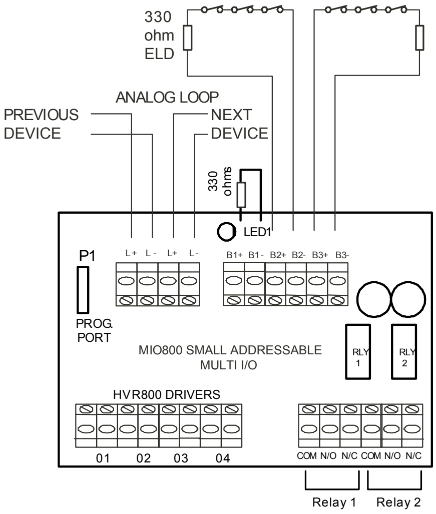


Normally Open,
S/C=Alarm, O/C=Fault

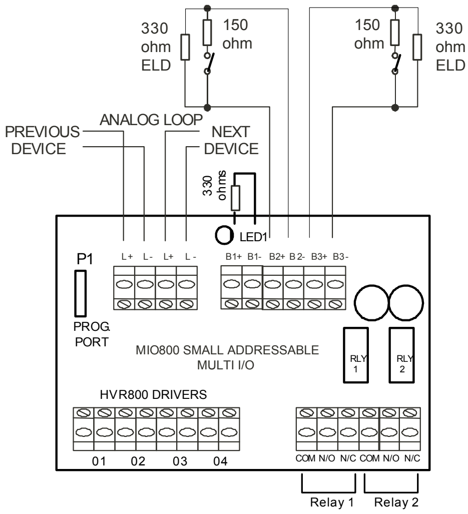


Normally Open,
S/C=Fault, O/C=Fault

Unused inputs (B1, B2 or B3) should be terminated with a 330 ohm resistor. Input contacts must be voltage free



Normally Closed,
S/C=Fault, O/C=Alarm



Normally Closed,
O/C=Fault, S/C=Fault
(NZS 4512 Compliant)

Australia
Tyco Fire Protection Products
Level 3, 95 Coventry Street
Southbank VIC 3006
Tel : 1300 725 688
Tel : +61 3 9313 9700
Email : tfppcustservice.au@tycofp.com

New Zealand
Tyco Fire Protection Products
17 Mary Muller Drive
Hillsborough PO Box 19-545
Woolston Christchurch 8241
Tel : +64 9 635 0760
Email : tsp.sales.nz@tycoint.com

MIO800datTFPP1506