MX TECHNOLOGY ®
Tyco MIO800
Analogue Addressable
Multi-Input/Output Module

FIRE SYSTEMS PRODUCTS

INFORMATION SHEET

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 (c.i.e.).

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

- Multiple normally-open contacts, closing for alarm, with o/c fault
- A single normally-open contact, closing for alarm with s/c and o/c faults
- Multiple normally-closed, open for alarm contacts with s/c faults
- A single normally-closed contact, opening for alarm, with s/c and o/c 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 c.i.e.

The MIO800 has 4 logic level outputs labelled O1, O2, O3 and O4. These terminals must not be used.

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 c.i.e.

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 backbox or standoffs on a gearplate. Note that the MIO800 is a different size to the CIM, DIM, RIM, etc, and will therefore require a different mounting arrangement.

ADDRESS SETTING
The MIO800 is shipped with a default (invalid) address of 255 and must be set to the correct loop address using the 801AP *MX* Service Tool.
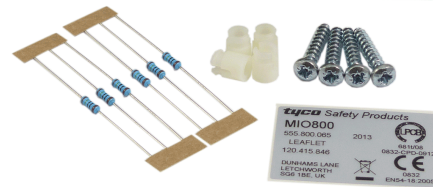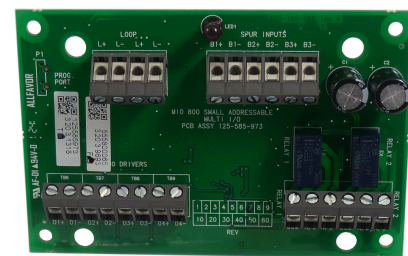
SPECIFICATIONS

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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	
Dimensions (HWD)	72 x 110 x 18 mm
Wire Size (maximum)	2.5sq. mm

Part Numbers

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555.800.065	MIO800 PCB
557.201.303	DIN Rail Mounting Kit
557.201.401	D800 Ancillary Housing

1. Addressable loop voltage provided by *MX* c.i.e.
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.
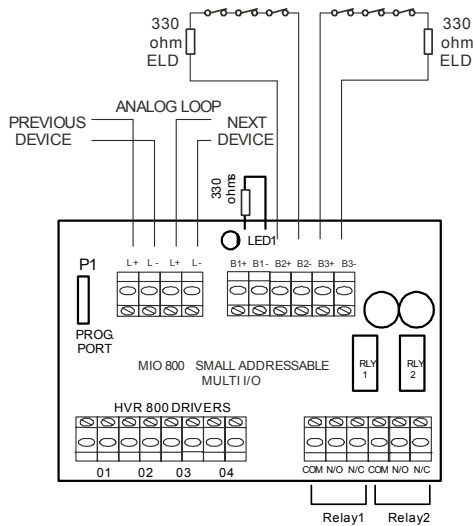
WIRING

MIO800 Wiring Options:
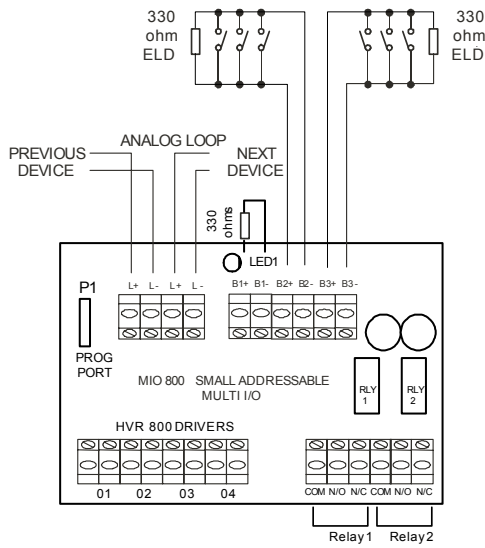
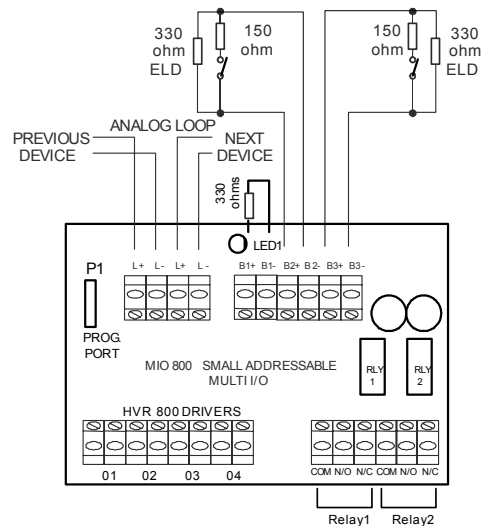**Normally Open,
S/C= Alarm, O/C=Fault**
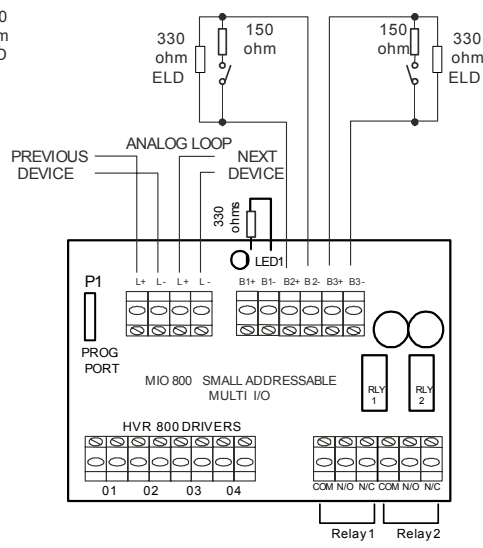
**Normally Open,
S/C= Fault, O/C= Fault**

Unused inputs (A, B or C) 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)**