Description

The MIM800 and MIM801 Addressable Mini Input Modules supervise one circuit of voltage-free contacts, such as outputs from extinguishing systems, ventilation controls, etc., and transmit the state to the *MX* Control and Indicating Equipment (CIE).

Both devices can be programmed to supervise either normally-open or normally-closed contacts. The default MIM800 configuration is to supervise normally-open contacts; the default for MIM801 is to supervise normally- closed contacts. The MIMs can be programmed to supervise:

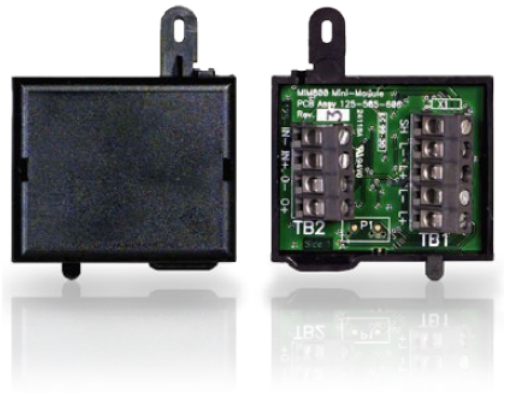
- One circuit of multiple normally-open contacts, with short circuit alarm.
- One circuit of multiple normally-closed contacts, with open circuit alarm.
- One circuit with a single normally-open contact, closing for alarm, with fault detection for short circuit. This requires a 100 ohm resistor in series with the alarm contact and appropriate programming at the *MX* CIE.

Interrupt operation can be enabled for fast transmission of a change-of-state to the *MX* CIE.

The contacts supervised by the MIM800/801 must be voltage free. Do not connect the MIM800/801 input to non- isolated equipment or to the inputs of other *MX* devices.

The MIM800/801 has a output suitable for connection to a co-located LED. No series resistor is required. This can be controlled by the CIE.

Figure 1: MIM800/801



Features

- Compatible with *MX* Addressable Loop on SIMPLEX 4100ESi, VIGILANT *MX1* and VIGILANT MX4428 panels
- Single monitored input
- Programmable configuration
- Monitor multiple N/O or multiple N/C contacts
- Controllable output for LED
- AS ISO 7240.18 Listing Input/Output Modules

Specifications

Table 1: Specifications

Item	Description
Loop Voltage [1]	20 V to 40 Vdc
Quiescent Current	275 µA (typical)
Alarm State Current	2.8 mA
Max. CIM800 per Loop [2]	200/250
Input Cable Length	1 m (maximum)
Environment	Indoor Application
Ambient Temperature	–25 °C to +70 °C
Storage Temperature	–40 °C to +80 °C
Relative Humidity	10% to 95% (non cond.)
Dimensions (HWD)	13 x 48 x 57 mm
Weight	22 g
ActivFire Listing	afp-3165 (MIM800)
FPANZ Listing	VF/641 (MIM800)
	VF/645 (MIM801)
Standards	AS ISO 7240.18:2018

Table 2: Part numbers

Part number	Description
555.800.001	MIM800 Monitored Input Module
FP0837	MIM801 (NZ only)

Callout	Description
1	Addressable loop voltage provided by MX CIE
2	MX4428/MX1. Refer to appropriate manual: LT0273 (MXP), LT0360 (MX1-NZ), LT0441 (MX1-Au) for design specifications.

Mounting

The MIM800/801 must be housed in a suitable enclosure immediately adjacent to the contacts being monitored. It can be fixed to a surface or mounted with a screw through the tab and a 8.5 mm standoff. The MIM800/801 is for internal use only unless housed in a weatherproof enclosure.

Address Setting

The MIM800 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.

Wiring

The MIM800/801 field wiring examples are shown in the following images.

Figure 2: N/O with S/C fault

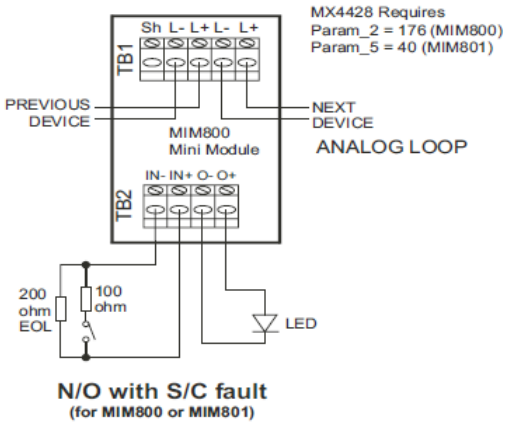


Figure 3: Normally open

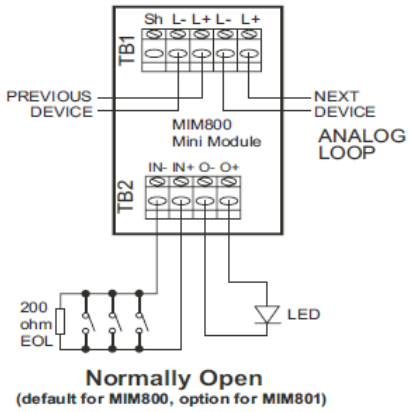
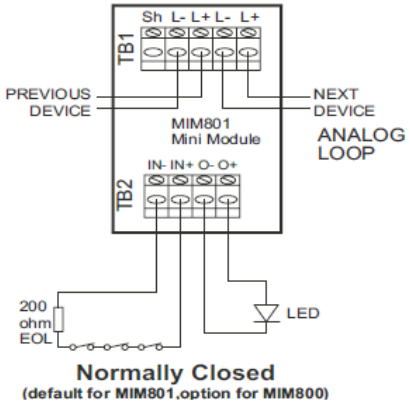


Figure 4: Normally closed



Note

The input wiring must be as short as possible (< 1m) and located well away from all electrical noise sources.

Contact information

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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.