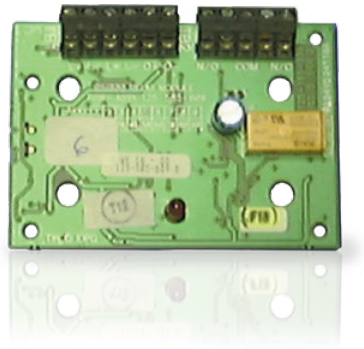
RIM800 Generation 6 MX Detection Range Relay Interface Module

Description

The RIM800 Addressable Relay Interface Module provides one volt-free changeover contact unsupervised output. The relay is controlled by a command sent from the *MX* Control and Indicating Equipment (CIE) via the *MX* addressable loop and may be used to signal states to other systems (e.g. security systems) or to energise loads such as Door Holders. The relay operation is determined by the CIE programming. The RIM800 has a red LED which may be configured to indicate relay activation and CIE polling.

Figure 1: RIM800



Features

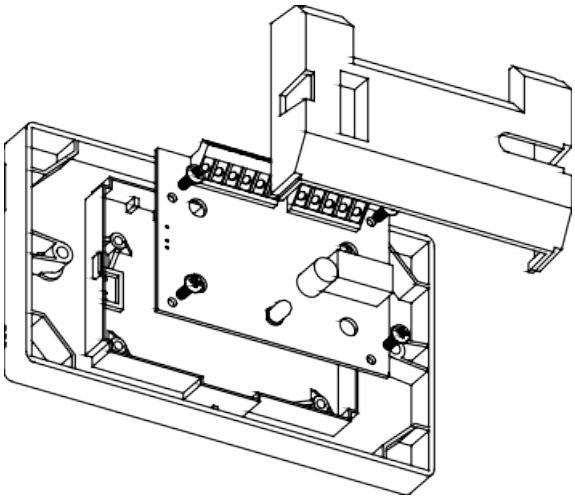
- Compatible with *MX* Addressable Loop on SIMPLEX 4100ESi, VIGILANT *MX1* and VIGILANT MX4428 panels
- Addressable changeover volt-free relay contact
- LED indication of relay operation
- Common *MX* module footprint
- AS ISO 7240.18 Listing Input/Output Modules

Mounting

The RIM800 is supplied as an open circuit board (PCB) with mounting hardware and must be fitted in a suitable enclosure. It may be mounted on a gear plate using plastic

standoffs, to an M520 Ancillary Cover and K2142 back box, or fitted into a D800 Ancillary Housing. The K2142 mounting box provides a convenient surface mounting enclosure and the M520 Cover is designed to accommodate the RIM800.

Figure 2: RIM800 fitted to M520 cover



Address Setting

The RIM800 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.

Specifications

Table 1: Specifications

Item	Description
Loop Voltage [1]	20 V to 40 Vdc
Quiescent Current	285 µA
Alarm State Current [2]	2.8 mA
Relay Contact [3] (maximum)	2A @ 30 Vdc
Max. RIM800 per Loop [4]	200/250
Ambient Temperature	–25 °C to +70 °C
Storage Temperature	–40 °C to +80 °C
Relative Humidity *Indoor Applications Only*	10% to 95% (non cond.)
Dimensions (HWD)	61 x 84 x 25 mm
Wire Size (maximum)	2.5sq. mm
ActivFire Listing	afp-3167
FPANZ Listing	VF/642
Standards	AS ISO 7240.18:2018

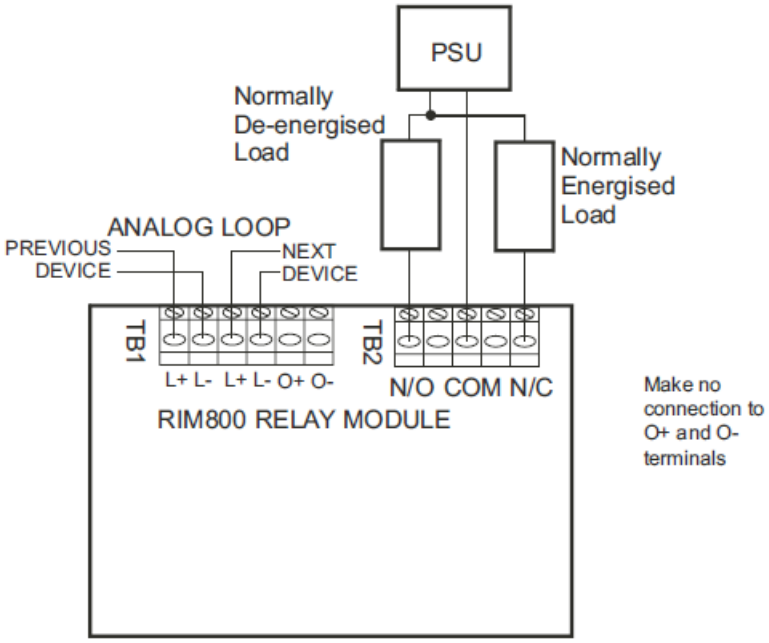
Table 2: Part numbers

Part number	Description
568.800.033	RIM800 Relay Interface Module
517.035.007	M520 Ancillary Cover
517.035.010	K2142 Back Box
547.004.002	DIN Rail Mounting Brkt
557.201.401	D800 Ancillary Housing

Callout	Description
1	Addressable loop voltage provided by MX CIE
2	With LED on
3	Relay current is for resistive load
4	MX4428/MX1. Refer to appropriate manual: LT0273 (MXP), LT0360 (MX1-NZ), LT0441 (MX1-Au) for design specifications.

Wiring

Figure 3: RIM800 wiring



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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.