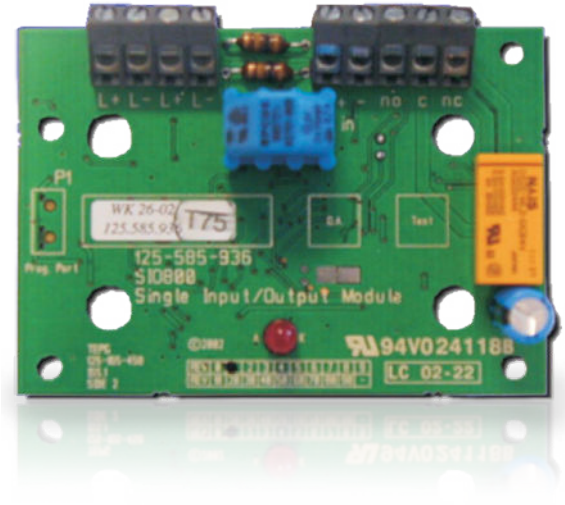
VIGILANT

SIO800

Generation 6 *MX* Single Input/Output Module



Features

- Compatible with *MX* Addressable Loop on the VIGILANT *MX1* fire panel
- Single input for clean contact devices
- Normally open/closed operation
- Optional Interrupt for fast operation
- Change-over relay output
- Loop powered

The SIO800 Addressable Single Input/Output Module is an *MX* addressable module that provides one clean contact input and a voltage-free changeover relay output. The input supports normally-open or normally-closed contacts and short/open circuit faults – depending on the input mode selected by the Control and Indicating Equipment (CIE). The relay is controlled by a command sent from the CIE via the *MX* addressable loop. The LED illuminates when the input goes into alarm, and can also be programmed to blink when polled by the CIE.

The *MX1* CIE supports the following modes for the input circuit:

- Normally-open contact, closing for alarm, with open circuit fault.
- Normally-open contact, closing for alarm, with short and open circuit fault.
- Normally-closed contact, opening for alarm, with short circuit fault.
- Normally-closed contact, opening for alarm, with short and open circuit fault.

Interrupt operation can be enabled for any mode to speed up indication of an alarm at the CIE.

The relay output is unsupervised, but a check-back fault will be generated if the relay state does not match the commanded state for the relay.

Specifications

Loop Voltage[1]	20V to 40Vdc
Quiescent Current	300µA
Alarm State Current	3mA
Circuit Resistance	50 Ohm
EOL Resistor	3k3 Ohm
Alarm Resistor	680 Ohm
Relay Contact Rating	2A @ 24Vdc
Max. SIO800 per Loop[2]	250
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-3178
FPANZ Listing	VF/671
Dimensions (HWD)	61 x 84 x 15 mm
Wire Size (maximum)	2.5sq. mm

Part Numbers

555.800.063	SIO800 PCB [3]
517.035.007	M520 Ancillary Cover
517.035.010	K2142 Back box
557.201.401	D800 Ancillary Housing

1. Addressable loop voltage provided by *MX* CIE.
2. *MX1*: Refer to appropriate CIE manual for design specifications. *MX1*: LT0441(Au), or LT0361 (NZ).
3. PCB c/w EOL resistor, mounting screws, cover labels.

Installation

The SIO800 is supplied as an open circuit board (PCB) with mounting hardware and End of Line (EOL) resistor. It 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 into the D800 Ancillary Housing.

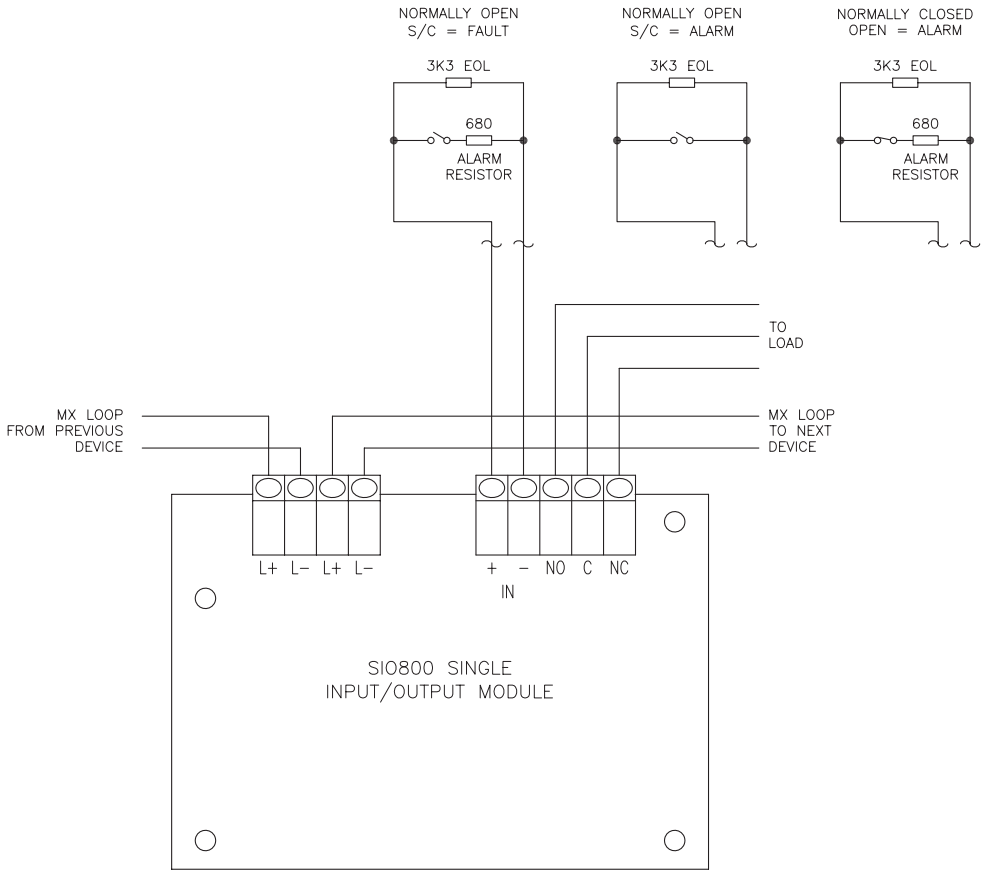
The K2142 mounting box provides a convenient surface mounting enclosure and the M520 Cover is designed to accommodate the SIO800. The contacts supervised must be voltage free. Do not connect two SIO800 inputs together or join with other *MX* module inputs.

Address Setting

The SIO800 is supplied with a default (invalid) address of 255 and must be set to the correct loop address using the 850EMT or 801AP *MX* Service Tool.

Wiring

SIO800 simplified wiring diagrams.



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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 QE90 voice evacuation systems. VIGILANT product is widely supported throughout Australia and New Zealand by a network of installation companies, service companies and distributors.

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