

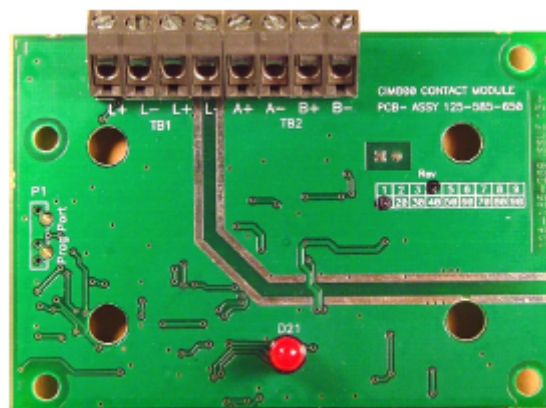
## Description

The CIM800 Addressable Contact Input Module supervises two circuits of voltage-free contacts such as outputs from extinguishing systems, ventilation controls, fire door controls, sprinkler flow switches, non indicating detectors, etc. The LED illuminates when any input goes into alarm, and can also be programmed to blink when polled by the *MX* Control and Indicating Equipment (CIE.). The CIM800 can be configured to supervise:

- Two circuits of multiple normally-open contacts; with short circuit alarm.
- Two circuits of multiple normally-closed contacts; open circuit alarm.
- Two circuits with a single normally-open contact closing for alarm; with short circuit fault. This requires a resistor in series with the alarm contact and special programming at the MX4428 CIE.

On the MX4428, the two circuits are presented as a single addressable point; either circuit in alarm puts the point into alarm, any circuit in fault puts the point into fault.

**Figure 1: CIM800**



## Features

- Compatible with *MX* Addressable Loop on SIMPLEX 4100ESi, VIGILANT *MX1* and VIGILANT MX4428 panels
- Supervise two circuits
- Supervise multiple contacts per circuit
- Up to 250 devices per loop<sup>2</sup>
- AS ISO 7240.18 Listing Input/Output Modules

# Specifications

**Table 1: Specifications**

Item	Description
Loop Voltage <sup>1</sup>	20 V to 40 Vdc
Quiescent Current	275 $\mu$ A
Alarm State Current	2.8 mA
Circuit Resistance	10 Ohm
EOL Resistor	200 Ohm
Alarm Resistance (s/c fault)	100 Ohm
Max. CIM800 per Loop <sup>2</sup>	200/250
Ambient Temperature	-25 °C to +70 °C
Storage Temperature	-40 °C to +80 °C
Relative Humidity <i>Indoor Applications Only</i>	10% to 95% (non cond.)
Dimensions (HWD)	61 x 84 x 25 mm
Wire Size (maximum)	2.5sq. mm
ActivFire Listing	afp-3164
FPANZ Listing	VF/640
Standards	AS ISO 7240.18:2018

**Table 2: Part numbers**

Part number	Description
555.800.032	CIM800 Contact Input 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	MX4428/MX1, 4100MXP. Refer to appropriate manual: LT0273 (MXP), LT0313 (4100MXP), LT0360 (MX1-NZ), LT0441 (MX1-Au) for design specifications

## Mounting

The CIM800 is supplied as an open circuit board (PCB) with mounting hardware and End of Line (EOL) resistors. 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 CIM800. The contacts supervised must be voltage free.

Do not connect the two circuits of a CIM800 together or join with other *MX* module inputs. Unused inputs must be terminated with an EOL resistor.

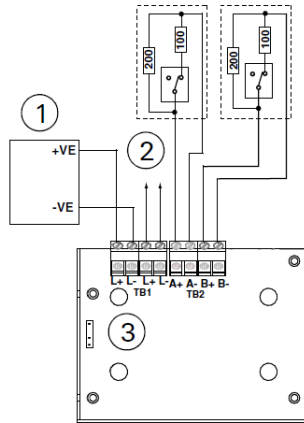
## Address Setting

The CIM800 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 and programming lead.

# Wiring

CIM800 wiring options:

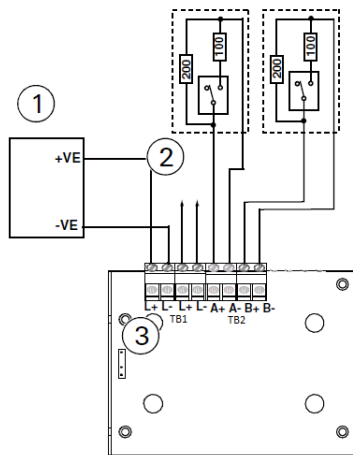
**Figure 2: Class B spur circuits normally closed contacts, short circuit A+ to A- or B+ to B = fault, in Mode 2**



Callout	Description
1	MX Controller
2	To next device
3	Programming port

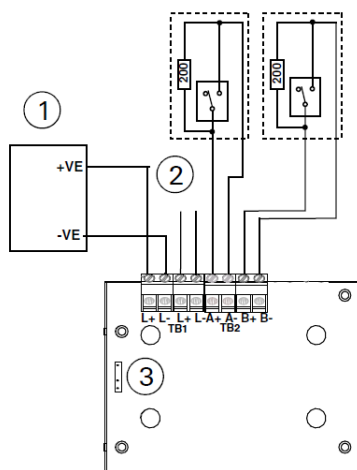
**Note:** If only one circuit is used the user circuit must be terminated with 200 ohm EOL resistor.

**Figure 3: Class B spur circuits normally open contacts, short circuit A+ to A- or B+ to B- = fault, in Mode 6**



Callout	Description
1	MX Controller
2	To next device
3	Programming port

**Figure 4: Class B spur circuits normally open contacts, short circuit between A+ and A- or B+ and B- = alarm, in Mode 5**



Callout	Description
1	MX Controller
2	To next device
3	Programming port

# Contact information

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