

LIM800

Generation 6 *MX*Detection Range Line Isolator Module

Features

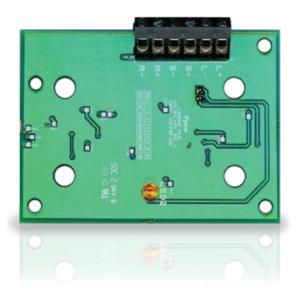
- Compatible with MX Addressable Loop on SIMPLEX 4100ESi, VIGILANT MX1 and VIGILANT MX4428 panels
- Automatic short circuit protection for the MX addressable loop
- LED indication of LIM800 operation
- Common MX module footprint



The LIM800 is an MX Addressable Loop Isolator Module that can be used to provide short circuit isolation between zones or portions of the MX addressable loop. LIM800s are installed at appropriate positions around the MX loop to monitor the loop voltage either side of the device. If the voltage drops to zero volts (e.g. due to a short), the two LIM800s either side of the short open their electronic switches and isolate the shorted section allowing the rest of the loop to be driven by the MX Control and Indicating Equipment (CIE). The LIM800 includes an additional spur output that can be wired to additional MX devices (usually all in one zone 3). If a short occurs on the spur, the two electronic switches in the LIM800 operate and disconnect the shorted spur from the loop. The LIM800 includes a yellow LED to indicate when one of its connections is shorted. The LIM800 supports up to 100 IB units of MX load on each connection, so additional LIM800s can be installed on long sections of cable to isolate each block of devices. Refer to the appropriate CIE manual for technical design specifications.

Mounting

The LIM800 is supplied as an open circuit board (PCB) with mounting hardware and must be fitted into a suitable enclosure. It may be mounted on a gearplate using plastic standoffs, to an M520 Ancillary Cover and K2142 back box, or into a D800 Ancillary Housing. The K2142 mounting box provides a convenient surface mounting enclosure and the M520 cover is designed to accomodate the LIM800.



Specifications

Loop Voltage ¹ Input Current

Normal

Tripped (max.)
Series Resistance (max.)
Equivalent Capacitance
IB Units between Isolator
Max. LIM800 per Loop ²
Ambient Temperature
Storage Temperature
Relative Humidity
Indoor Applications Only
Dimensions (HWD)
Wire Size (maximum)
ActivFire Listing
FPANZ Listing

Part Numbers

545.800.004 517.035.007 517.035.010 547.004.002 557.201.401 20V to 40Vdc

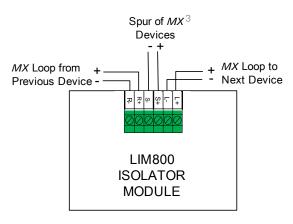
80μA 10mA 0.25 Ohm 0.5nF 100 (max.) 200/250 -25°C to +70°C -40°C to +80°C 10% to 95% (non cond.)

61 x 84 x 14 mm 2.5sq. mm afp-3170 VF/657

LIM800 M520 Ancillary Cover K2142 Back Box DIN Rail Mounting Brkt D800 Ancillary Housing

- 1. Addressable loop voltage provided by MX CIE.
- Maximum number of devices between isolators limited to 40 for AS 1670.1-2004 systems. Refer to LT0273 (MXP), LT0360 (MX1-NZ), LT0441 (MX1-Au) for design specifications.
- 3. Not approved for external wiring on MX4428.





Termination

L+ Line IN +ve

L- Line IN -ve

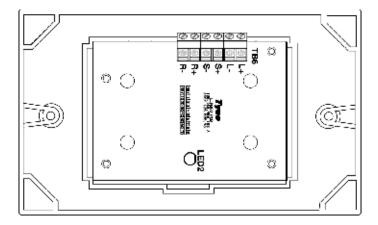
S+ Spur +ve

S- Spur -ve

R+ Line OUT +ve

R- Line OUT -ve

Mounting LIM800 fitted to M520 Cover.



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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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