# **MX TECHNOLOGY**® Tyco LIM800

Analogue Addressable

Loop Isolator Module

#### DESCRIPTION

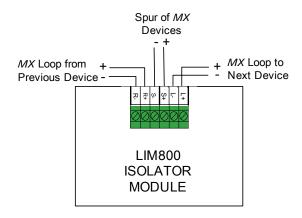
The LIM800 is an MX Addressable Loop Isolator Module that can be used to provide short circuit isolation between zones or portions of the MX addressable loop. LIM800s are installed at appropriate positions around the MX loop to monitor the loop voltage either side of the device. If the voltage drops 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 (c.i.e.). The LIM800 includes an additional spur output that can be wired to additional MX devices (usually all in one zone). 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 c.i.e. 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.

#### WIRING

LIM800 wiring:



## INFORMATION SHEET



K2142

557.201.401

SPECIFICATIONS	
Loop Voltage <sup>1</sup>	20V to 40Vdc
Input Current	
Normal	80μΑ
Tripped (max)	10mA
Series Resistance (max)	0.25 Ohm
Equivalent Capacitance	0.5nF
IB Units between Isolator	100
Max. LIM800 per Loop <sup>2</sup>	200/250
Ambient Temperature	-25°C to +70°C
Storage Temperature	-40°C to +80°C
Relative Humidity	10% to 95% (non cond.)
Indoor Applications Only	
Dimensions (HWD)	61 x 84 x 14 mm
Wire Size (maximum)	2.5sq. mm
Part Numbers	
545.800.004	LIM800 PCB
M520	Ancillary Cover

- 1. Addressable loop voltage provided by MX c.i.e.
- 2. Maximum number of devices between 5BI limited to 40 for AS 1670.1-2004 systems. Refer to LT0273 (MXP), LT0313 (4100MXP), LT0360 (MX1-NZ), LTO441 (MX1-Au) for design specifications



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Back box

D800 Ancillary Housing

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