

**MX TECHNOLOGY®****Tyco DIM800**

*Analogue Addressable  
Detector Input Module*

**INFORMATION SHEET****DESCRIPTION**

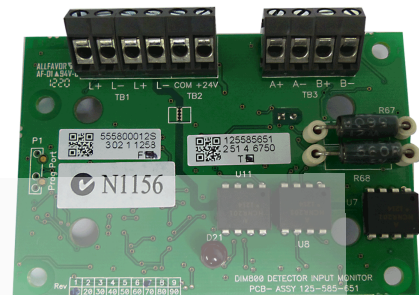
The DIM800 Addressable Detector Input Module interfaces two collective detector circuits onto the MX addressable loop. Each circuit can support 3mA of detector quiescent current and requires a 4k7 Ohm EOL (End Of Line) resistor. The DIM800 requires a suitably rated external 24V supply to power the detector circuits. On the MX4428 Control and Indicating Equipment (c.i.e.) the two circuits are treated as a single addressable point; either circuit in alarm will put the point into alarm. Unused circuits must be terminated with an EOL.

**MOUNTING**

The DIM800 is supplied as an open circuit board (PCB) with mounting hardware and EOL resistors 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 K2 142 back box, or into a D800 Ancillary Housing. The K2 142 mounting box provides a convenient surface mounting enclosure and the M520 Cover is designed to accommodate the DIM800. Note that the external supply voltage rating is critical for compatibility with some detectors. This supply may be common to a number of DIM800s at the same location, but do not connect the circuit wiring to any other circuit or non-isolated equipment.

**ADDRESS SETTING**

The DIM800 is shipped with a default (invalid) address of 255 and must be set to the correct loop address using the 801AP MX Service Tool.

**SPECIFICATIONS**

Loop Voltage <sup>1</sup>	20V to 40Vdc
Quiescent Current	280µA
Alarm State Current	280µA
Detector Load	3mA
Detector EOL	4k7 Ohm
External Supply <sup>2</sup>	18 to 28.7Vdc
Current per Circuit	7.5mA
Alarm Current	30 to 50mA
Max. DIM800 per Loop <sup>3</sup>	200/250
Ambient Temperature	-25°C to +70°C
Storage Temperature	-40°C to +80°C
Relative Humidity	10% to 95% (non cond.)
<i>Indoor Applications Only</i>	
Dimensions (HWD)	61 x 84 x 25 mm
Wire Size (maximum)	2.5sq. mm

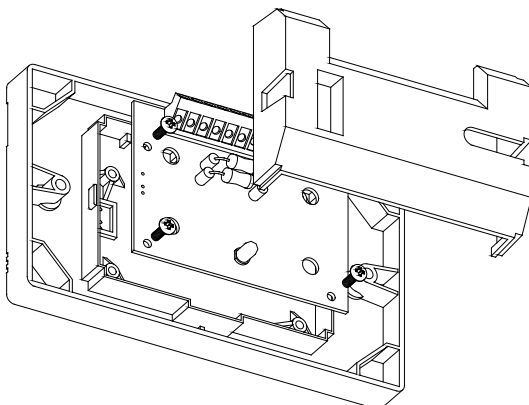
**Part Numbers**

DIM800	DIM800 PCB
M520	Ancillary Cover
K2 142	Back box
557.201.401	D800 Ancillary Housing

1. Addressable loop voltage provided by MX c.i.e.

2. Refer to table on page 2 for specific detectors

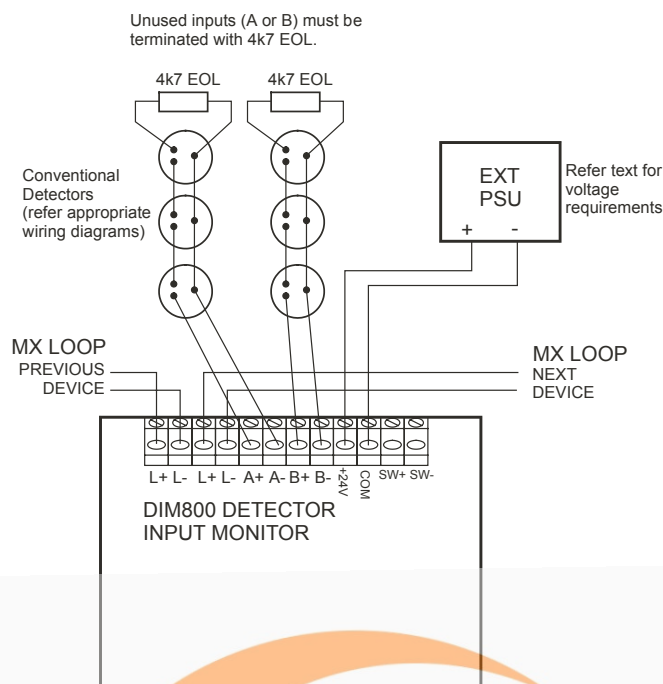
3. MX4428/MX 7, 4100MXP. Refer to appropriate manual: LT0273 (MXP), LT0313 (4100MXP), LT0360 (MX 1-NZ), LT0441 (MX 1-Au) for design specifications.



M520 Ancillary Cover, DIM800 PCB and cover

## WIRING

### DIM800 Field Wiring



### DIM800 DETECTOR COMPATIBILITY

Series	Detector	Qty	Ext. Supply Voltage	Series	Detector	Qty	Ext. Supply Voltage
Tyco	614P Photoelectric	25	20.0V-28.7V	Olsen	P24B Photoelectric	24	20.7V-24.7V
	614I Ionisation	38	20.0V-28.7V		P29B Photoelectric	20	20.7V-26.7V
	614CH CO/Heat	32	20.0V-28.7V		C24B Ionisation	40	20.7V-26.7V
	614T Heat	23	20.0V-28.7V		C29BEx Ionisation	40	20.7V-26.7V
	601FEx* Flame	4	20.0V-28.7V		R23B Flame	20	20.7V-24.7V
	S231f+ Flame	7	21.0V-28.7V		R24B Flame	3	22.7V-24.7V
Minerva	MD614 Heat	40	20.7V-28.7V	System Sensor	DO1101 Photoelectric	16	22.7V-27.7V
	MR614 Photoelectric	22	20.7V-28.7V		DLO1191 Beam	1	22.7V-28.7V
	MR614T HPO	21	20.7V-28.7V		P136 DSU	5	19.0V-28.7V
	MU614 CO	40	20.7V-28.7V		T56B Heat	40	18.0V-28.7V
	MF614 Ionisation	30	20.7V-28.7V		Hard Contact Devices	40	18.0V-28.7V
	T614 Heat	23	20.7V-28.7V		885WP-B	40	20.0V-28.7V
Simplex	4098-9603EA Ion	24	18.0V-28.7V	Hard contact devices must be rated for at least 30V and currents up to 50mA. * Although detector is Ex rated, this is a direct connection without I.S. barrier.			
	4098-9601EA Photo	24	18.0V-28.7V				
	4098-9618EA Heat						
	4098-9619EA Heat						
	4098-9621EA Heat	24	18.0V-28.7V				

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