

# The PA1180 Power Distribution Board, sold as the FP1196 Spare Part

## Installation Guide

### Description

A 14 A PSU powers the power distribution board (PDB). The PDB distributes power to four separately fused output pairs, each rated at 5 A and equipped with individual status indicators to monitor the output faults.

A 33 V tranzorb provides voltage transient protection across each output supply and earth. The designated mounting holes are used to install the PDB and to ensure that it is grounded correctly.

Fuse supervision is incorporated to comply with AS 4428 and AS ISO 7240 standards if the powered equipment is not supervised for faults in another way. For example, fault monitoring through a fire panel in the event of power loss.

### Specifications

Input:	0 to 30 VDC, 10A max, screw terminals 4 mm <sup>2</sup>
Output:	4 separate outputs, each fused at 5A (10.9 mm x 3.8 mm x 8.80 mm) Screw terminals, 2.5 mm <sup>2</sup> , two sets for each output Replaceable fuses, up to 5A each, subject to the power supply current limit
Suppression:	33 V bi-directional tranzorbs installed across the power supply and grounded through the mounting holes
Dimensions:	105 mm x 38 mm
Mounting:	4 x 4 mm diameter, 89 mm x 25.4 mm

### Kit contents

Table 1: Kit contents

Part	Qty	Description	Use
HW0052	4	Hardware, PBA06L PCB standoff	MX1 mounting
LT0748	1	Literature, MX1 PDB Installation Guide	Instructions
PA1180	1	PCB assembly, 1982-246, MX1 PDB	PDB
233400	4	Fuse, mini style blade, 5A	Spare fuse
LM0150	1	Loom 1.00APP G/Y 180 mm M4 Lug:Strip 5	Earth loom
WR0011	0.6 m	Wire auto 150 1.1-1.3Sq mm stranded violet	Spare wire
WR0013	1.05 m	Wire auto 150 1.1-1.3Sq mm stranded yellow	Spare wire

## Installation instructions

### MX1

1. Insert the four plastic standoffs into the holes at the centre bottom of the gearplate, positioned below the J33, MX1 Controller Loop Connector.  
For the exact location of the PDB, refer to the *Vigilant MX1-Au Fire Alarm System Wiring Diagrams (LT0442)*.  
If you replace the PDB in an existing setup, use the same connections as those in the existing installations.
2. Connect the LM0150 loom from the J3 GND earth terminal on the PDB to the J18 mounting hole on the MX1 main board with an MX1 mounting screw.

**Figure 1: PDB position near the MX1 controller**

