



**1. DESCRIPTION OF EQUIPMENT**

The three-way bottom entry junction boxes comprises a moulded non-metallic housing with the following approximate dimensions and electrical ratings:

Box Size	Dimensions	Electrical ratings
No 1	127mm x 105mm x 87mm	Rated up to 550V (For Ex e application) and 1000V (for Ex nA application) with a maximum rated current of 47A (max) and a maximum dissipated power of 2.3W.
No 2	160mm x 156mm x 103mm	Rated up to 550V (For Ex e application) and 1000V (for Ex nA application) with a maximum rated current of 121A (max) and a maximum dissipated power of 4.0W.

The junction box cover is secured onto the enclosure body by means of four brass screws (Box size 1: M5 x 16.5mm and Box size 2: M5 x 16.5mm). The junction boxes were equipped with an earth harness permanently attached to the enclosure body by means of encapsulation. The junction boxes are provided with four mounting holes as part of the external housing.

Cabling to the junction boxes is by means of three threaded entries that is located in the wall of the enclosures:

Box size 1: Three M20 entries

Box size 2: Three M25 entries

**2. SPECIAL CONDITIONS FOR SAFE USE (denoted by X after certificate number)**

a) The three-way bottom entry junction boxes may only be used areas with a low risk of mechanical impact when equipped with a PA66 glass reinforced polyamide enclosure lid.

b) A static hazard exists when the enclosure is fitted with a transparent lid manufactured from Makrolon® type 2607 polycarbonate material. The enclosure should be marked with the appropriate warning marking.

**3. INSTALLATION INSTRUCTIONS**

It is the manufacturer's responsibility to supply installation instructions with each unit offered for sale as required by IEC/SANS 60079-0 Clause 30.

**4. CONDITIONS OF CERTIFICATION**

- All production units must be covered by a QAN (Quality Assurance Notification), Product Mark Scheme or batch evaluation.

**5. MARKING**

The following (or similar) information have to be clearly and permanently marked on all units:

Supplier : Pratley Manufacturing (Pty) Ltd  
 Manufacturer : Pratley Manufacturing (Pty) Ltd  
 Equipment : Three-way bottom entry junction box  
 Model/Type : No 1 and No2  
 Serial No. : ---  
 Ex Rating : Ex e IIC T6 Gb, Ex nA IIC T6 Gc and Ex tb IIIC T6 Db  
 IA Certificate No : S-XPL/15.1783 X

Responsible Testing Officer:

Reviewed by:



**D Maree**  
Senior Testing Officer

**H de Wet**  
Testing Officer

**EXPLOLABS EXPLOSION PREVENTION SERVICES**

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