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Reg No: 1999/027771/07 GOVERNMENT APPROVED TEST LABORATORY

IN TERMS OF ARP 0108: "REGULATORY REQUIREMENTS FOR EXPLOSION PROTECTED APPARATUS"

IA CERTIFICATE

08 Mar 2016 Date Issued: *Expiry date: 08 Mar 2026

> Page 1 of 3 Issue: 0

Ex - Type Examination Certificate

S-XPL/15.1783 X Certificate Number:

Equipment: Three-way bottom entry junction box

No 1 and No2 Model / Type:

Pratley Manufacturing (Pty) Ltd Applicant:

> PO Box 3035 Kenmare 1745

Manufacturer: Pratley Manufacturing (Pty) Ltd

Serial No: All serial numbers of equipment covered by a valid report or acceptable

product certification mark.

The unit(s) as described in Explolabs File Number XPL/17035/15.1783 is hereby certified "Explosion & Protected" Ex e IIC T6 Gb, Ex nA IIC T6 Gc and Ex tb IIIC T6 Db, having been tested, examined and

inspected in accordance with the relevant requirements of South African Standards:

| SANS 60079-0: 2012 Ed 5 IEC 60079-0: 2011 Ed 6 | Explosive atmospheres Part 0: Equipment — General requirements | |
|---|--|--|
| SANS 60079-7: 2007 Ed 3 IEC 60079-7: 2006 Ed 4 | | |
| SANS 60079-15: 2010 Ed 4 IEC 60079-15: 2010 Ed 4 | Explosive atmospheres Part 15: Equipment protection by type of protection "n" | |
| SANS 60079-31: 2009 Ed 1 IEC 60079-31: 2008 Ed 1 | Explosive atmospheres Part 31: Equipment dust ignition protection by enclosure "t" | |

| IOLAIS CEPTIOLAIS CE | Protection afforded | Equipment Protection Level (EPL) Group | Performance of protection | Conditions of operation | T class or Max Surface Temp (°C) |
|----------------------|------------------------|--|---|--|--|
| GINOLAS GINOL | High | Gb Group II | Suitable for normal operation and frequently occurring disturbances or equipment where faults are normally taken into account | Equipment remains functioning in zones 1 and 2 | T6 (85°C) |
| ANS CEPTIONANS | High | Db Group III | Suitable for normal operation and frequently occurring disturbances or equipment where faults are normally taken into account | Equipment remains functioning in zones 21 and 22 | T6 (85°C) |
| OLAIS (STRIOLA | Enhanced | Gc Group II | Suitable for normal operation | Equipment remains functioning in zone 2 | T6 (85°C) |

DOCUMENT No: XPL0105 RELEASE DATE: 31/07/2015













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 x103mm | 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 my only be used arias 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.

MARKING 5.

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

: S-XPL/15.1783 X IA Certificate No

| | DOCUMENT No: XPL0105 | RELEASE DATE: | REV:5 |
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EPIOLAIS **ANNEX TO CERTIFICATE NO S-XPL/15.1783 Responsible Testing Officer:** Reviewed by: **D** Maree H de Wet **Senior Testing Officer Testing Officer EXPLOLABS EXPLOSION PREVENTION SERVICES** This report/certificate shall not be reproduced except in full without the written approval of the company Explolabs (Pty) Ltd shall not be liable for any losses or damages sustained on account of any failure or omission to properly perform our duties in terms of any contract undertaken by us. This disclaimer is immutable and automatically incorporated in any contract undertaken by us; notwithstanding anything to the contrary, save for the express written waiver of our managing director. By marking the equipment in accordance with the documentation/standard, the manufacturer attests on his own responsibility that the equipment has been constructed in accordance with the applicable requirements of the relevant standards and that the routine verifications and tests have been successfully completed and that the product complies with the documentation and standard(s). The contents of electronic reports/certificates cannot be guaranteed. Original certification documents will be kept on file at Explolabs (Pty) Ltd

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