

GOVERNMENT APPROVED TEST LABORATORY

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

IA CERTIFICATE

Date Issued: **20 Oct 2016**
 *Expiry date: **20 Oct 2026**
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Issue: 0

Ex – Type Examination Certificate

Certificate Number: **S-XPL/16.1202 X**
 Equipment: **Klik- lok Junction box**
 Model / Type: **No1 and No2**
 Applicant: **Pratley Manufacturing (Pty) Ltd**
PO Box 3055
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/17890/16.1202** is hereby certified "Explosion Protected" **Ex e IIC T6 Gb, Ex nA IIC T6 Gc and Ex t IIIC T6 Db IP68 (2m continues)**, having been tested, examined and inspected in accordance with the relevant requirements of South African Standards:

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

Risk of ignition provided:

Protection afforded	Equipment Protection Level (EPL)	Performance of protection	Conditions of operation	T class or Max Surface Temp (°C)
	Group			
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)
High	Db Group III		Equipment remains functioning in zones 21 and 22	T6 (85 °C)
Enhanced	Gc Group II	Suitable for normal operation	Equipment remains functioning in zone 2	T6 (85 °C)



T0104

The South African National Accreditation System (SANAS) is a member of the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA). This Arrangement allows for the mutual recognition of technical test and calibration data by the member accreditation bodies worldwide. For more information on the Arrangement please consult www.ilac.org

1. DESCRIPTION OF EQUIPMENT

The Klik-lok junction box comprise of a moulded Nylon 66 housing with the following approximate dimensions Box size 1: 123.0mm x 120mm x 87mm and Box size 2: 149mm x 149mm x 112mm. The cover of the enclosure is moulded from Nylon 66 or alternatively a clear Polycarbonate material.

The klik-lok junction box cover is secured onto the body by means of a locking mechanism. The junction boxes is equipped with an earth harness permanently attached the enclosure body by means of two M4 x 9mm long brass screws.

The junction boxes had the following electrical ratings:

Box size No1:

Rated up to 550V (For Ex e and Ex nA applications) with a maximum rated current of 47A (max) and a maximum dissipated power of 4.4W.

Box size No 2:

Rated up to 550V (For Ex e and Ex nA applications) with a maximum rated current of 121A (max) and a maximum dissipated power of 5.8W.

Cabling to the junction boxes is by means of four threaded entries that are located in the wall of the enclosure.

Box size 1: Four 20mm plain entries.

Box size 2: Four 25mm plain entries.

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

- a) The klik-lok box has a maximum internal wattage dissipation as follow:
No 1: 4.4W
No 2: 5.8W
- b) All unused entries must be blanked off by means of the Pratley blanking plugs as detailed in Pratley's instruction leaflet.
- c) The klik-lok box may only be populated with previously certified Ex e terminals for use in an environment requiring a EPL of Gb or Gc.
- d) The klik-lok box is only suitable for use in an aria with a low risk of mechanical impact when equipped with the Nylon 66 (black) cover.

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.

