Rea No: 1999/027771/07

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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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Ex – Type Examination Certificate

S-XPL/16.1202 X Certificate Number: Klik- lok Junction box Equipment:

No1 and No2 Model / Type:

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

SANS 60079-15: 2010 Ed 4

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

IEC 60079-7: 2006 Ed 4

Explosive atmospheres Part 15: Equipment protection by type of protection

IEC 60079-15: 2010 Ed 4

SANS 60079-31: 2009 Ed 1

Risk of ignition provided:

Explosive atmospheres Part 31: Equipment dust ignition protection by enclosure "t" IEC 60079-31: 2008 Ed 1

Protection afforded	Equipment Protection Level (EPL) Group	Performance of protection	Conditions of operation	T class or Max Surface Temp (℃)
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℃)
Enhanced	Gc Group II	Suitable for normal operation	Equipment remains functioning in zone 2	T6 (85℃)





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

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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)

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.
- 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.

CONDITIONS OF CERTIFICATION 4.

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

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5. MARKING

v)

viii)

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

Periolais Periolais

Supplier : Pratley Manufacturing (Pty) Ltd Manufacturer : Pratley Manufacturing (Pty) Ltd

Equipment : Klik- lok Junction box

Model/Type : No1 and No2

Serial No. : ---

Ex Rating : Ex e IIC T6 Gb, Ex nA IIC T6 Gc and Ex t IIIC T6 Db IP68 (2m continues)

IA Certificate No : S-XPL/16.1202 X

This certification indicates compliance with R10.1 of the Mines Health and Safety Act and/or EMR 9(2) of the Occupational Health and Safety Act, provided that the apparatus is used as relevant in accordance with:

- SANS 10086 and IEC/SANS 61241-14 requirements as applicable;
- iii) Any conditions mentioned in the above report; iv) Any relevant requirements and codes of prac
 - Any relevant requirements and codes of practice enforced in terms of the Mine Health and Safety Act or Occupational Health and Safety Act; and
 - Any restrictions and conditions enforced by the Chief Inspector of Mines or the Principal Inspector or the Chief Inspector: Occupational Health and Safety.
- vi) A revision certificate replaces all previous version of the certificate.
- vii) * Only covers equipment Imported between the "Issued" and "Expire" dates.
 - If and when your QAN (Quality Assurance Notification) Certificate for your equipment manufacturer expires during the valid period of the IA Certification (issued for your equipment) and a new certificate is not submitted the existing IA Certification will then be cancelled. It is thus the client's responsibility to always submit the updated and valid QAN certificate(s) to Explolabs (Pty) Ltd

Responsible Testing Officer:

Reviewed by:

D Maree Senior Testing Officer

H de Wet 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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