



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx ICS 15.0006X Issue No: 0 Certificate history:
Status: **Current** Page 1 of 3 [Issue No. 0 \(2015-09-17\)](#)
Date of Issue: **2015-09-17**
Applicant: **Pratley Manufacturing (Pty) Ltd**
No 14 Jackson Street,
Factoria,
Krugersdorp,
1745
South Africa
Electrical Apparatus: **Flameproof Enclosure No 1, 2 & 4**
Optional accessory:
Type of Protection: **Ex d, Ex tb**
Marking:
See Annex to certificate

*Approved for issue on behalf of the IECEx
Certification Body:*

Roelof Viljoen

Position:

Certification Authority

*Signature:
(for printed version)*

Date:

2015-09-17

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](#).

Certificate issued by:

South Africa Mining and Surface Certification (MASC)

45 Jurg Street
Lelyta Park Unit 5,
Hennospark Ext 87
Centurion, 0157, Gauteng
South Africa





IECEX Certificate of Conformity

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Manufacturer: **Pratley Manufacturing (Pty) Ltd**
No 14 Jackson Street,
Factoria,
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1745
South Africa

Additional Manufacturing
location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1 : 2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:6

IEC 60079-31 : 2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[ZA/ICS/ExTR15.0007/00](#)

Quality Assessment Report:

[GB/SIR/QAR06.0042/04](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

See Annex to certificate

CONDITIONS OF CERTIFICATION: YES as shown below:

See Annex to certificate

Annex:

[Annex to Certificate 15.0006X.pdf](#)



IECEx Certificate of Conformity – Annex



Certificate No.: IECEx ICS 15.0006X **Issue:** 0 **Date:** 2015-09-17
Electrical Apparatus: Flameproof enclosure No 1, 2 and 4

1. EQUIPMENT

The enclosure is cast from cast iron with approximate dimensions as below. The cylindrical enclosure has a flat cover fastened with four screws onto a flange / serrated flange in the base. Threaded entries are placed in the side of the base.

Size	Ex rating	Max. Dia. / Max. height / Empty Vol.	Threaded entries	Cover flamepath	Fasteners
1	Ex d I/IIC T6 MbGb Ex tb IIIC T85°C Db IP 65	150.2mm x 77mm 408cm ³	Two to four entries M20 x 1.5 (6H)	Flange L = 13mm min l = 8mm min Gap = 0.04mm max	M5 X 0.8 x 14mm min (Grade 12.9) (fastener hole threaded through flange)
2	Ex d I/IIB+H2 T6 MbGb Ex tb IIIC T85°C Db IP 65	173mm x 80mm 747cm ³	Two to four entries M25 x 1.5 (6H)	Flange L = 15.8mm min l = 10.5mm min Gap = 0.04mm max	M6 X 1.0 x 14mm min (Grade 12.9) (fastener hole threaded through flange)
4	Ex d I/IIB T6 MbGb Ex tb IIIC T85°C Db IP 65	277mm x 134mm 3814cm ³	Two to four entries M40 x 1.5 (6H)	Flange L = 14.5mm min l = 9.3mm min Gap = 0.15mm max	M8 X 1.25 x 25mm min (Grade 12.9) (fastener hole threaded through flange)
2	Ex d I/IIC T6 MbGb Ex tb IIIC T85°C Db IP 65	173mm x 80mm 747cm ³	Two to four entries M25 x 1.5 (6H)	Serrated L = 10.5mm min serration Flange gap = 0.04mm max	M6 X 1.0 x 14mm min (Grade 12.9) (fastener hole threaded through flange)

The enclosure may be fitted with terminal blocks, end connectors, relays and / or circuit-breakers on a single rail.

2. CONDITIONS OF CERTIFICATION

Conditions of Certification / Manufacture:

- A copy of the certificate must be made available to the end user.
- The equipment must be routine hydraulic overpressure tested at 1370kPa (size 1 and 2) and 1150kPa (size 4).

Special conditions of use:

- Suitably certified glands / adaptors / plugs shall be used to maintain the flameproof / Ex tb (including the IP rating) characteristics as applicable.
- The limitations for current, power, types of components that may be fitted, fitment method, position and size as indicated on Pratley instructions must be followed.
- The applicable flamepaths are listed on the Pratley instructions.