



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.: **IECEx SIR 06.0030X** Page 1 of 3 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2008-03-31
Applicant: **Pratley Manufacturing (Pty) Limited**
Jackson Street
Factoria
Krugersdorp
South Africa
Equipment: **Ezee Fit Junction Boxes**
Optional accessory:
Type of Protection: **Increased safety and dust**
Marking: Ex e II
Ex tD A21 IP 64 T85 °C

Approved for issue on behalf of the IECEx
Certification Body:

C Ellaby

Position:

Certification Officer

Signature:
(for printed version)

Date:

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 www.iecex.com or use of this QR Code.



Certificate issued by:

SIRA Certification Service
Rake Lane
Eccleston
Chester
CH4 9JN
United Kingdom

sira
CERTIFICATION



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Manufacturer: **Pratley Manufacturing (Pty) Limited**
Jackson Street
Factoria
Krugersdorp
South Africa

Additional manufacturing locations: **Weidmüller**
43 Huntingwood Drive
Huntingwood
NSW 2148
Australia

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 equipment 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 60079-0:2004 Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
Edition:4.0

IEC 60079-7:2006-07 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:4

IEC 61241-0:2004 Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
Edition:1

IEC 61241-1:2004 Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"
Edition:1

This Certificate **does not** indicate compliance with 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:

[GB/SIR/ExTR07.0127/00](#)

Quality Assessment Reports:

[AU/ITA/QAR07.0004/00](#)

[GB/SIR/QAR06.0042/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Ezee fit range of junction boxes are manufactured in either orange or black Polyester with a lid manufactured from the same material or in clear polycarbonate. The junction boxes have a circular shape, with cable entry locations in the curved sidewall. The entry points are available in various configurations. The lid is fitted with an elastomeric gasket and is fixed to the base with four screws.

See Annexe for full description and Conditions of Manufacture

SPECIFIC CONDITIONS OF USE: YES as shown below:

When the junction boxes are manufactured from the orange polyester material or the clear polycarbonate lids are fitted, the

1. equipment is marked: WARNING STATIC HAZARD CLEAN WITH A DAMP CLOTH. Refer to the instruction manual for further advice on how to clean the equipment safely and prevent Static charge build up.

Annex:

[IECEx SIR 06.0030X_iss0_Annexe.pdf](#)

Annexe to: IECEx SIR 06.0030X
Applicant: Pratley Manufacturing (Pty) Limited
Apparatus: Ezee Fit Junction Boxes



Inside the enclosure, a terminal rail is fixed to the base with screws. Rail mounted certified terminals, either Weidmüller terminals, or Kwikblok terminals are fitted to the rail between partitions and end stops. The certification details of the Weidmüller terminals are shown in Table 1 and the permitted Kwikblok types in Table 2, along with their voltage and current ratings.

Table 1:

Manufacturer	Terminal Type	Coded	Certificate Number
Weidmüller	Type WDU	EEx e II	KEMA 98ATEX1683U
Weidmüller	Type SAK K	Ex e II	IECEX SIR 05.0032U
Weidmüller	Type SAK R	Ex nA II	IECEX SIR 05.0033U
Weidmüller	Type SAK S3	Ex nA II	IECEX SIR 05.0034U
Weidmüller	Type BK	Ex e II	IECEX SIR 05.0035U
Weidmüller	Type MK 3	Ex e II	IECEX SIR 05.0036U
Weidmüller	Type MK 6	Ex e II	IECEX SIR 05.0037U
Weidmüller	Type AKZ	Ex e II	IECEX SIR 05.0038U
Weidmüller	Type WDU 2.5/TC	Ex e II	IECEX SIR 05.0039U
Weidmüller	Type WDU SL	Ex e II	IECEX SIR 05.0040U
Weidmüller	Type DK	Ex e II	IECEX SIR 05.0041U
Weidmüller	Type W Series	Ex e II	IECEX ULD 05.0008U
Weidmüller	Type Z Series	Ex e II	IECEX ULD 05.0009U
Weidmüller	Type SAK & EK	Ex e II	IECEX KEM 06.0014U
Weidmüller	Type PDU, PEI & PPE Series	Ex e II	IECEX KEM 05.0032U

The Kwikblok terminals accept conductor sizes and current ratings as follows:

Table 2:

Kwikblok Terminal type	Conductor size range	Maximum current (A)
IK3	0.5 to 4 mm ²	15
IK5	0.5 to 6 mm ²	21
IK10	0.5 to 10 mm ²	37
IK16	0.5 to 16 mm ²	47
IK25	10 to 25 mm ²	63
IK50	16 to 50 mm ²	98
IK70	25 to 95 mm ²	121

Combinations of the terminals listed in Table 1 and 2 may be fitted, provided the maximum power dissipation in accordance with EN 60079-7 Annex E, E.2 does not exceed:

Junction Box Type	Maximum power
0	2.4 W
1	3.1 W
2	5.4 W
3	9.6 W
4	13.4 W

Suitably certified cable entry devices may be selected by the installer, or alternatively the entry locations may be fitted with Pratley gland accessories to form integral cable glands suitable for armoured or non-armoured cable. Stopping plugs and conduit adaptors may also be provided.

There is a facility for the connection of an earthing or equipotential bonding conductor provided inside the main body by either an earth terminal block from one of the ranges as detailed in Table 1 or 2 or a threaded brass insert embedded in polyester.

Annexe to: IECEx SIR 06.0030X
Applicant: Pratley Manufacturing (Pty) Limited
Apparatus: Ezee Fit Junction Boxes



Conditions of Manufacture

1. When the junction boxes are equipped by the manufacturer with wired terminals, a routine electric strength test shall be conducted in accordance with IEC 60079-7:2007 clause 6.1.
2. The maximum number of terminals permitted shall be calculated in accordance with IEC 60079-7:2007, Annex E, clause E.2, and this shall not exceed the maximum dissipated power rating of the enclosure.
3. The Weidmüller WDU 2.5 and SAK 2.5 type terminals must be limited to a maximum current of 15 A.
4. This certificate relies on the following previously certified products. When used as part of the Ezee Fit Range of Junction Boxes, the key attributes listed below shall still be maintained by their original certificate.

Description	Certificate Number	Key Attributes
Type WDU	KEMA 98ATEX1683U	EEx e II and compliance with the electrical parameters stated in the prime certificate.
Type SAK K	IECEX SIR 05.0032U	Ex e II and compliance with the electrical parameters stated in the prime certificate.
Type BK	IECEX SIR 05.0035U	Ex e II and compliance with the electrical parameters stated in the prime certificate.
Type MK 3	IECEX SIR 05.0036U	Ex e II and compliance with the electrical parameters stated in the prime certificate.
Type MK 6	IECEX SIR 05.0037U	Ex e II and compliance with the electrical parameters stated in the prime certificate.
Type AKZ	IECEX SIR 05.0038U	Ex e II and compliance with the electrical parameters stated in the prime certificate.
Type WDU 2.5/TC	IECEX SIR 05.0039U	Ex e II and compliance with the electrical parameters stated in the prime certificate.
Type WDU SL	IECEX SIR 05.0040U	Ex e II and compliance with the electrical parameters stated in the prime certificate.
Type DK	IECEX SIR 05.0041U	Ex e II and compliance with the electrical parameters stated in the prime certificate.
Type W Series	IECEX ULD 05.0008U	Ex e II and compliance with the electrical parameters stated in the prime certificate.
Type Z Series	IECEX ULD 05.0009U	Ex e II and compliance with the electrical parameters stated in the prime certificate.
Type SAK & EK	IECEX KEM 06.0014U	Ex e II and compliance with the electrical parameters stated in the prime certificate.
Type PDU, PEI & PPE Series	IECEX KEM 05.0032U	Ex e II and compliance with the electrical parameters stated in the prime certificate.