



# 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](http://www.iecex.com)

Certificate No.: **IECEx SIR 06.0029X** Page 1 of 5 [Certificate history:](#)  
Issue 0 (2006-08-15)

Status: **Current** Issue No: 1

Date of Issue: 2008-03-31

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

Equipment: **Klik Lok Junction Boxes**

Optional accessory:

Type of Protection: **Increased safety and dust**

Marking: Ex e II T6  
Ex tD A21 IP66/IP68 (2 m) 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.
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Certificate issued by:

**SIRA Certification Service**  
**CSA Group**  
**Unit 6, Hawarden Industrial Park**  
**Hawarden, Deeside, CH5 3US**  
**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 Reports:

[GB/SIR/ExTR06.0074/00](#)

[GB/SIR/ExTR08.0016/00](#)

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 Klik Lok range of junction boxes are manufactured in black, 30% glass reinforced, Polyamide 66 (PA66) 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 side wall. The entry points are available in various configurations. The lid is fitted with a nitrile rubber gasket and is attached and secured to the base by a locking mechanism, a retaining strap and by a cable tie. Inside the enclosure, a terminal rail is fixed to the base with screws.

Certified, rail mounted, Weidmuller terminals or Kwikblok terminals are fitted to the rail between partitions and end stops.

The appropriate details of the Weidmuller and Kwikblok terminals are detailed in Tables 1 and 2 respectively.

See Annexe for tables

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

1. The Klik Lok junction boxes are only to be installed into areas of low mechanical danger.
2. When the clear polycarbonate lids are fitted the 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.



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## Equipment (continued):

The manufacturer shall note the following condition of manufacture:

1. When the junction boxes are equipped by the manufacturer with terminals wired, a routine electric strength test shall be conducted in accordance with EN 60079-7:2003 clause 6.1.
2. All terminal blocks shall be mounted on terminal rails secured to the enclosure by two screws and vibration resistant washers. The terminals shall be fitted between end stops and partitions.
3. The maximum number of terminals permitted shall be calculated in accordance with EN 60079-7:2003, Annex E, clause E.2, and this shall not exceed the maximum dissipated power rating of the enclosure.
4. The Weidmüller WDU 2.5 and WDU 2.5 SL type terminals shall be limited to a maximum current of 15 A.
5. This certificate relies on the following previously certified products. When used as part of the Klik Lok junction boxes, the key attributes listed in the table below shall still be maintained by their original certificate

<b>Product</b>	<b>Certificate number</b>	<b>Key attributes</b>
Weidmüller Type WDU Terminal	KEMA 98ATEX1683U	EEx e II
Weidmüller Type WDU SL Terminal	IECEx SIR 05.0040U	Ex e II



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## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

Original dated 2006-8-15

Issue 1 dated 2008-03-31

1. The inclusion of an additional manufacturing location
2. The addition of additional Weidmüller Terminals

### **Annex:**

[IECEx SIR 06.0029X\\_Iss1\\_Annexe.pdf](#)

**Annexe to:** IECEx SIR 06.0029X Issue 1  
**Applicant:** Pratley Manufacturing & Engineering  
**Apparatus:** Klik Lok Junction Boxes



The Klik Lok range of junction boxes are manufactured in black, 30% glass reinforced, Polyamide 66 (PA66) 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 side wall. The entry points are available in various configurations. The lid is fitted with a nitrile rubber gasket and is attached and secured to the base by a locking mechanism, a retaining strap and by a cable tie.

Inside the enclosure, a terminal rail is fixed to the base with screws. Certified, rail mounted, Weidmüller terminals or Kwikblok terminals are fitted to the rail between partitions and end stops. The appropriate details of the Weidmüller and Kwikblok terminals are detailed in Tables 1 and 2 respectively.

Manufacturer	Terminal Type	Coded	Certificate Number
Weidmüller	Type WDU 2.5 (See Note)	EEx e II	KEMA 98ATEX1683U
Weidmüller	Type WDU 2.5 SL (See Note)	Ex e II	IECEX SIR 05.0040U
Weidmüller	Type SAK K	Ex e II	IECEX SIR 05.0032U
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

**Note: These terminals are limited to a maximum current of 15A.**

Kwikblok terminal type	Conductor size range	Max. current
IK3	0.5 to 4 mm <sup>2</sup>	15 A
IK5	0.5 to 6 mm <sup>2</sup>	21 A
IK10	0.5 to 10 mm <sup>2</sup>	37 A
IK16	0.5 to 16 mm <sup>2</sup>	47 A
IK25	10 to 25 mm <sup>2</sup>	63 A
IK50	16 to 50 mm <sup>2</sup>	98 A
IK70	25 to 95 mm <sup>2</sup>	121 A

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 the values in Table 3:

Junction Box Type	Maximum rated power dissipation
1	4.4 W
2	5.8 W

Suitably certified cable entries or blanking plugs maintaining the ingress protection of the enclosure are to be fitted directly into the enclosure wall. 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, an earth plate arrangement or via an earth stud.