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 CML 15.0072X**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 4	Issue 3 (2020-03-20) Issue 2 (2017-08-29) Issue 1 (2016-09-16) Issue 0 (2015-10-14)
Date of Issue:	2025-05-02		

Applicant: **CCG Cable Terminations (Pty) Ltd**
33-37 Forge Road
Spartan Industrial Area
Kempton Park, 1619
South Africa

Equipment: **Posi Fit, ScrewFit & MultiBox Junction Boxes**

Optional accessory:

Type of Protection: **Increased Safety Ex "eb", "ec", Dust Ignition Ex "tb", "tc"**

Marking:
Ex eb I Mb
Ex eb IIC T6 Gb
Ex tb IIIC T70°C Db
Ex ec IIC T6 Gc
Ex tc IIIC T70°C Dc

Ta = -60ºC to +40°C/55ºC

IP66/IP67/IP68 (2m cont.)

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

Position: **Assistant Certification Manager**

Signature: (for printed version)

Date: (for printed version) 2025-05-02

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:

Eurofins E&E CML Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom

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Manufacturer: **CCG Cable Terminations (Pty) Ltd**
33-37 Forge Road
Spartan Industrial Area
Kempton Park, 1619
South Africa

Manufacturing locations: **CCG Cable Terminations (Pty) Ltd**
33-37 Forge Road
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Kempton Park, 1619
South Africa

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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-31:2022 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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/CML/ExTR15.0072/00 GB/CML/ExTR16.0132/00 GB/CML/ExTR17.0138/00
GB/CML/ExTR19.0225/00

Quality Assessment Report:

ZA/ICS/QAR14.0001/10

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Refer to Certificate Annex for Product Description and Conditions of Manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:
Refer to Annex for specific conditions of use.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Issue 1

This issue introduced the following change:

1. Addition of IP rating to certificate marking.

Issue 2

This issue introduced the following changes:

1. To allow WDU and WPE feed through terminals to be fitted, covered under IECEx ULD 14.0005U.
2. To allow an alternative 4 screw lid arrangement.

Issue 3

This issue introduced the following changes:

1. Addition of a new junction box model; Multi Box Posi Fit Assembly
2. Assessment of the Posi Fit Junction Boxes for increased safety Group I explosive atmospheres.
3. Inclusion of an additional O-ring material option
4. Update of standards to the latest edition

Issue 4

This issue introduced the following changes:

1. Editorial modifications to the product description to align the number of terminals used in each junction box and enclosure.
2. Evaluation to IEC 60079-31:2022 Ed. 3

Annex:

IECEx CML 15.0072X Iss. 4 Certificate Annex_1.pdf

Description

The PosiFit, ScrewFit and MultiBox Junction boxes comprise of non-metallic enclosure components certified under IECEx CML 15.0071U that are fitted with terminals, as detailed in table 1 below:

Box Type	Size	Max. No. of terminals								
		2.5mm²	4 mm²	6 mm²	10 mm²	16 mm²	35 mm²	50 mm²	70 mm²	4 mm² mini terminals
Posi Fit 4-Way / Tx Box	0	-	-	-	-	-	-	-	-	8
	1	10	8	6	5	4	-	-	-	8
	2	12	10	8	7	6	3	-	-	10
	3	20	16	12	12	10	-	-	-	16
	4	46	35	28	23	18	14	-	10	35
Screw Fit 4-Way Box	0	-	-	-	-	-	-	-	-	8
	1	10	8	6	5	4	-	-	-	8
	2	12	10	8	7	6	3	-	-	10
	3	20	16	12	12	10	-	-	-	16
Posi Fit Y Box	0	-	-	-	-	-	-	-	-	8
	1	10	8	6	5	-	-	-	-	8
	2	12	10	8	7	6	-	-	-	10
	3	20	16	12	12	10	-	-	-	16
Posi Fit H Box	1	10	8	6	5	4	-	-	-	8
	2	12	10	8	7	6	-	-	-	10
Bottom Entry Angle Box	1	14	-	-	-	-	-	-	-	8
	2	12	10	8	7	-	-	-	-	8
	3	20	16	12	12	10	-	-	-	16
3-Way Bottom Entry Box	1	-	-	-	-	-	-	-	-	8
	2	12	12	8	7	6	-	-	-	12
Angle Box	2	12	10	8	7	6	-	-	-	10
ST Box / Strut Box	1	4	-	-	-	-	-	-	-	6
Multi Box	B	20	16	12	12	10	-	-	-	16
	C	46	35	28	23	14	6	12	-	35

Table 1.

Note: 4mm² mini terminals are fitted to a TS 15 Mini Rail. All other sizes are fitted to a TS 35 Top Hat Rail.

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Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

i. The Junction boxes covered by this certificate incorporate certified devices from other suppliers. It is the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices. The manufacturer shall inform CML of any modifications of the devices that impinge upon the explosion safety design of their products.

Specific Conditions of Use

The following conditions relate to safe installation and/or use of the equipment.

i. For enclosures that do not utilise locking screws on the cover / lid, only the CCG tool supplied shall be used for opening and closing.
ii. Under certain extreme circumstances, the polycarbonate (clear) cover incorporated in the enclosure may generate an ignition-capable level of electrostatic charge. Therefore, the enclosure shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with a damp cloth.
iii. When fitted with the polycarbonate (clear) cover, the enclosure shall be installed to prevent direct UV exposure of internal components.
iv. Suitably certified cable glands and/or plugs shall be used in the enclosures threaded entries.
v. The Junction boxes listed in this certificate shall only be used with the following terminals. Specific installation conditions as set by the terminal manufacturer / terminal certification, shall be considered. This includes considering the use of the applicable partitions and end plates for the terminal blocks, conductor installation, tightening down of terminal block screws etc.

Manufacturer	Certificate No.	Ex coding	Type	Size
Weidmuller	IECEx TUR 18.0024U	Ex eb IIC Gb	AKZ4 and AKE4	4 mm^2
Weidmuller	IECEx ULD 14.0005U	Ex eb IIC Gb	WDU & WPE 2.5, 4, 6, 10, 16, 35, 50 and 70N	2.5 mm^2, 4 m m^2, 6 mm^2, 10 mm^2, 16 mm^2, 35 mm^2 50 mm^2 and 70 mm^2

vi. Terminal blocks shall only be utilised on the applicable rail and shall allow sufficient space to make connections and to close the cover / lid.
vii. The creepage and clearance between terminal blocks and from the terminal block to any earthed / bonded metallic part shall comply with the IEC 60079-7 / IEC 60079-15 requirements for the applicable voltage of the terminal blocks.

viii. The current per circuit in the junction box is limited by the size of the conductor and shall not exceed the following:

Max. current		Conductor / terminal block size
≤55°C ambient	≤40°C ambient	
8.34 A	11.90 A	2.5 mm^2
11.12 A	15.86 A	4 mm^2
14.25 A	20.33 A	6 mm^2
19.81 A	28.26 A	10 mm^2
26.42 A	37.68 A	16 mm^2
43.46 A	61.98 A	35 mm^2
52.50 A	74.88 A	50 mm^2
66.75 A	95.21 A	70 mm^2

ix. The equipment/components have been subjected to impact tests equating to low risk of mechanical danger for Group I equipment in accordance with IEC 60079-0 clause 26.4.2. When the equipment/components are used in Group I explosive atmospheres, the user shall ensure that they are additionally protected or installed in an area where they are at low risk of mechanical impact.

x. The equipment/components have not been subjected to the tests for resistance to chemical agents for Group I equipment in accordance with IEC 60079-0 clause 26.11. The user shall ensure that the equipment is not exposed to oils, greases, hydraulic fluids or any other chemical agents that may damage the equipment or invalidate the type of protection.

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