

UK Type Examination Certificate CML 21UKEX3008X Issue 1

United Kingdom Conformity Assessment

- 1 Product or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended) – Schedule 3A, Part 1
- 2 Equipment **Posi Fit, ScrewFit and MultiBox Junction Boxes**
- 3 Manufacturer **CCG Cable Terminations (Pty) Ltd**
- 4 Address **33-37 Forge Road,
Spartan Industrial Area,
Kempton Park, 1619,
South Africa**

- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port, CH65 4LZ, United Kingdom, Approved Body Number 2503, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

The examination and test results are recorded in the confidential reports listed in Section 12.

- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to specific conditions of use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This UK Type Examination certificate relates only to the design and construction of the specified equipment. Further requirements of the Regulations apply to the manufacturing process and supply of the product. These are not covered by this certificate.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018

EN IEC 60079-7:2015+A1:2018

EN 60079-31:2014

- 10 The equipment shall be marked with the following:

 II 2 G D

 I M2

Ex eb IIC T6 Gb

Ex eb I Mb

Ex tb IIIC T70°C Db

Ta = -60°C to +40°C/55°C

IP66/IP67/IP68 (2m cont.)





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11 Description

The PosiFit, ScrewFit and MultiBox Junction boxes comprise of non-metallic enclosure components certified under CML 14ATEX3037U that are fitted with terminals, as detailed in table 1 below:

Box Type	Size	Max. No. of terminals								
		2.5mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²	35 mm ²	50 mm ²	70 mm ²	4 mm ² 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.

Variation 1

This variation introduces the following modification:

- Update to the UKEX certificate to align with the latest corresponding ATEX Certificate.



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12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	25 Jan 2021	R13654C/00	Issue of Prime Certificate
1	19 Jun 2026	R21579A/00	Introduction of Variation 1

Note: Drawings that describe the equipment are listed in the Annex.

13 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.

14 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	TUV 18ATEX8221U	Ex eb IIC Gb	AKZ4 and AKE4	4 mm ²
Weidmuller	DEMKO 14 ATEX 1338 U	Ex eb IIC Gb	WDU & WPE 2.5, 4, 6, 10, 16, 35, 50 and 70N	2.5 mm ² , 4 mm 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.



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- vii. The creepage and clearance between terminal blocks and from the terminal block to any earthed / bonded metallic part shall comply with the EN 60079-7 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 has been subjected to impact tests equating to low risk of mechanical danger for Group I equipment in accordance with EN 60079-0 clause 26.4.2. When the equipment 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 has not been subjected to the tests for resistance to chemical agents for Group I equipment in accordance with EN 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.

Certificate Annex

Certificate Number CML 21UKEX3008X
Equipment Posi Fit, ScrewFit and MultiBox Junction Boxes
Manufacturer CCG Cable Terminations (Pty) Ltd.



The following documents describe the equipment defined in this certificate:

Issue 0

For drawings describing the equipment, refer to attached certificate CML 14ATEX3036X Issue 3. In addition to the drawings associated with CML 14ATEX3036X Issue 3, the following drawings include the additional marking required for this UK Type Examination certification:

Drawing No	Sheets	Rev	Approved date	Title
100300-M-X	1 of 1	2	25 Jan 2021	"X" POSI BOX X-MARKING
10050-M-X	1 of 1	2	25 Jan 2021	"X" POSI MULTI BOX X-MARKING

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The drawings approved for ATEX are relied upon; for all drawings, refer to attached certificate CML 14ATEX3036X Issue 4 and associated reports.