



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

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEX CML 15.0071U**

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Certificate history:

Status: **Current**

Issue No: 3

Issue 2 (2017-08-29)

Issue 1 (2016-09-16)

Issue 0 (2015-10-14)

Date of Issue: 2020-03-20

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

Ex Component: Posi Fit Range of Enclosures

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

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

Marking: Ex eb I Mb
Ex eb IIC Gb
Ex tb IIIC Db
Ex ec IIC Gc
Ex tc IIIC Dc

Ts = -60°C to +110°C

IP66/IP67/IP68 (2m cont.)

Approved for issue on behalf of the IECEx
Certification Body:

R C Marshall

Position:

Certification Officer

Signature:
(for printed version)

Date:

2020-03-20

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 Ltd**
33-37 Forge Road
Spartan Industrial Area
Kempton Park, 1619
South Africa

Additional
manufacturing
locations:

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

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/ExTR19.0225/00](#)

[GB/CML/ExTR16.0132/00](#)

[GB/CML/ExTR17.0138/00](#)

Quality Assessment Report:

[ZA/ICS/QAR14.0001/05](#)



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Ex Component(s) covered by this certificate is described below:

The Posi Fit enclosures are non-metallic enclosures are manufactured from DMC (Dow Moulding Compound). The enclosures and have a cylindrical shaped body with a screw-on cover, which is secured with a special tool that engages into the spines on the cover enclosure and have an O-ring between the housing and cover to maintain the IP rating.

Refer to Annex for full description and conditions of manufacture.

SCHEDULE OF LIMITATIONS:

Refer to Annex for schedule of limitations.



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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 editions

Annex:

[IECEX CML 15.0071U Iss. 3 Certificate Annex.pdf](#)

Annexe to: IECEx CML 15.0071U Issue 3
Applicant: CCG Cable Terminations (Pty) Ltd
Apparatus: Posi Fit Enclosures



Description of Equipment

The Posi Fit enclosures are non-metallic enclosures are manufactured from DMC (Dow Moulding Compound). The enclosures and have a cylindrical shaped body with a screw-on cover, which is secured with a special tool that engages into the spines on the cover enclosure and have an O-ring between the housing and cover to maintain the IP rating.

An optional polycarbonate/DMC cover may be screwed with four countersunk M5 screws into metallic inserts in a DMC adaptor, which is threaded to replace normal threaded cover

The enclosures have pressed metallic inserts in the side wall with threaded entries for certified cable glands or stopping plugs.

A special tool is supplied, which fits in the grooves on the round cover for opening and closing the enclosure.

The enclosures can be manufactured in the following various types and sizes:

Type and size	Box size	Dimensions (Dia. x height)	Gland entry sizes (1.5mm pitch)	Max. No. of cable gland entries and arrangement
Posi Fit / Tx box	Size 0	100 x 78	M16-M20	CCG Posi Fit 4 Way box 4 entries positioned orthogonal around the side walls with multiple gland entry sizes
Posi Fit / Tx box	Size 1	118 x 91	M16-M20	CCG Posi Fit 4 Way box 4 entries positioned orthogonal around the side walls with multiple gland entry sizes
Posi Fit / Tx box	Size 2	140 x 114	M16-M25	CCG Posi Fit 4 Way box 4 entries positioned orthogonal around the side walls with multiple gland entry sizes
Posi Fit / Tx box	Size 3	203 x 142	M16-M32	CCG Posi Fit 4 Way box 4 entries positioned orthogonal around the side walls with multiple gland entry sizes
Posi Fit / Tx box	Size 4	298 x 186	M16-M40	CCG Posi Fit 4 Way box 4 entries positioned orthogonal around the side walls with multiple gland entry sizes
Bottom entry angle box	Size 1	118 x 98	M16-M20	CCG Bottom entry angle box 3 entries positioned at the bottom of the box. One entry closest to the rim of the box and two entries to the base of the box

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Type and size	Box size	Dimensions (Dia. x height)	Gland entry sizes (1.5mm pitch)	Max. No. of cable gland entries and arrangement
Bottom entry angle box	Size 2	140 x 105	M16-M25	CCG Bottom entry angle box 3 entries positioned at the bottom of the box. One entry closest to the rim of the box and two entries to the base of the box
Bottom entry angle box	Size 3	202 x 140	M16-M32	CCG Bottom entry angle box 3 entries positioned at the bottom of the box. One entry closest to the rim of the box and two entries to the base of the box
4 way Bottom entry box	Size 1	128 x 112	M16-M20	CCG Bottom entry box 3 entries positioned at the bottom of the box. One entry closest to the base of the box and two entries to the rim of the box
4 way Bottom entry box	Size 2	162 x 160	M16-M25	CCG Bottom entry box 3 entries positioned at the bottom of the box. One entry closest to the base of the box and two entries to the rim of the box
Y box	Size 0	102 x 81	M16-M20	CCG Posi Fit Y box – 2 entries positioned on the side of the box and 1 entry positioned on the opposite side of the box
Y box	Size 1	118 x 111	M16-M20	CCG Posi Fit Y box – 2 entries positioned on the side of the box and 1 entry positioned on the opposite side of the box
Y box	Size 2	138 x 123	M16-M25	CCG Posi Fit Y box – 2 entries positioned on the side of the box and 1 entry positioned on the opposite side of the box
Y box	Size 3	200 x 150	M16-M32	CCG Posi Fit Y box – 2 entries positioned on the side of the box and 1 entry positioned on the opposite side of the box
H box	Size 1	118 x 94	M16-M20	CCG Posi Fit H box – 2 entries positioned on the side of the box and 2 entries positioned on the opposite side of the box
H box	Size 2	138.5 x 100	M16-M25	CCG Posi Fit H box – 2 entries positioned on the side of the box and 2 entries positioned on the opposite side of the box

Type and size	Box size	Dimensions (Dia. x height)	Gland entry sizes (1.5mm pitch)	Max. No. of cable gland entries and arrangement
ST Box Strut box	Size 1	100 x 96	M16-M20	CCG Posi ST Box strut box – 2 entries positioned on opposite sides with multiple gland entry sizes.
Angle Box	Size 2	121 x 100	M20-M25	CCG Angle Box 3 entries positioned at the bottom of the box.
Multi Box PosiFit	Assembly B	(Rectangular) 196 x 132 x 109	See entry amount and arrangement	The entries could vary, with the A/C of the gland being the min distance between the entries.
Multi Box PosiFit	Assembly C	(Rectangular) 278 x 200 x 117	See entry amount and arrangement	The entries could vary, with the A/C of the gland being the min distance between the entries.

Conditions of Manufacture

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

- i. A copy of the certificate and instructions shall be supplied / made available to the end user.

Schedule of Limitations

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 PosiFit enclosure have the following service temperature range, when assessed as part of equipment, these temperatures shall not be exceeded:

 $T_s = -60^{\circ}\text{C}$ to $+110^{\circ}\text{C}$
- vi. The equipment/components have been subjected to impact tests equating to low risk of mechanical danger for Group I equipment in accordance with EN/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.
- vii. The equipment/components have not been subjected to the tests for resistance to chemical agents for Group I equipment in accordance with EN/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.