UK Type Examination Certificate CML 21UKEX3007U Issue 0

United Kingdom Conformity Assessment

1 Component Indented for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1

2 Component **Posi Fit Range of Enclosures**

3 Manufacturer **CCG Cable Terminations (Pty) Ltd**

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

5 The component 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 Section 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended by UKSI 2019:696), certifies that this component 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 The 'U' suffix after the certificate number indicates that the component is subject to conditions of safe 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 component. 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:

BS EN IEC 60079-0:2018 BS EN IEC 60079-7:2015+A1:2018 BS EN 60079-31:2013

10 The equipment shall be marked with the following:

Ex II 2 GD
Ex eb IIC Gb
Ex tb IIIC Db
Ts=-60°C to +110°C
IP66/IP67/IP68 (2m cont.)

Ex I M2
Ex eb I Mb

S. Roumbedakis
Technical Manager

11 Description

For product description refer to attached certificate CML 14ATEX3037U Iss. 3.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	21 Jan 2021	R13654B/00	Issue of Prime Certificate

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

13 Conditions of Manufacture

13.1 Any previously certified parts incorporated in the equipment shall be UKCA compliant by the 1st January 2022.

14 Schedule of Limitations

For Specific conditions of use refer to attached certificate CML 14ATEX3037U Iss.3.

Certificate Annex

Certificate Number	**CML 21UKEX3007U**
Component	**Posi Fit Range of Enclosures**
Manufacturer	**CCG Cable Terminations (Pty) Ltd**

The following documents describe the component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
100300-M-U	1 of 1	2	21 Jan 2021	"X" POSI BOX U-MARKING
10050-M-U	1 of 1	2	21 Jan 2021	"X" POSI MULTI BOX U-MARKING

EU Type Examination Certificate CML 14ATEX3037U Issue 3

1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

2 Component **Posi Fit Range of Enclosures**

3 Manufacturer **CCG Cable Terminations (Pty) Ltd**

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

5 The component is specified in the description of this certificate and the documents to which it refers.

6 CML B.V., Chamber of Commerce No 6738671, Hoogoorddreef 15, Amsterdam, 1101 BA, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this component 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 Annex II to the Directive.

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

7 The 'U' suffix after the certificate number indicates that the component is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.

8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.

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 60079-31:2013

10 The equipment shall be marked with the following:

Ex II 2 GD

Ex eb IIC Gb

Ex tb IIIC Db

Ex I M2

Ex eb I Mb

Ts = -60°C to +110°C

IP66/IP67/IP68 (2m cont.)

R C Marshall
Certification Officer

11 Description

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
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

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 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
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.

Type and size	Box size	Dimensions (Dia. x height)	Gland entry sizes (1.5mm pitch)	Max. No. of cable gland entries and arrangement
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.

Variation 1

This variation introduces the following modifications:

i. To update the certificate reference to the 2014/34/EU Directive.
ii. To allow an alternative 4 screw lid arrangement.

Variation 2

This variation introduces the following modifications:

i. Addition of a new junction box model; Mutli Box Posi Fit Assembly
ii. Assessment of the Posi Fit Junction Boxes for increased safety Group I explosive atmospheres.
iii. Inclusion of an additional O-ring material option
iv. Transfer of CML UK ATEX Certificates to CML BV
v. Update of standards to the latest editions

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	19 Jun 2014	R178A/00	Issue of Prime Certificate
1	16 Sep 2016	-	Addition of IP rating to certificate marking
2	29 Aug 2017	R11250A/01	Introduction of Variation 1
3	20 Mar 2020	R12877A/00	Introduction of Variation 2

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

13 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.

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

   Ts = -60°C to +110°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 the 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.

Certificate Annex

Certificate Number	**CMl 14ATEX3037U**
Equipment	**Posi Fit range of Enclosures**
Manufacturer	**CCG Cable Terminations (Pty) Ltd**

The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
1003-0 - 100304	1 of 1	-	19 June 2014	POSIFIT / TX BOX Ex
1003-0 – 100304-M	1 of 1	-	19 June 2014	POSIFIT / TX BOX Ex MATERIAL
100701-ALID	1 of 1	-	19 June 2014	ADAPTA LID COVER ASSEMBLY
1009-0 – 100903 - M	1 of 1	-	19 June 2014	POSIFIT Y BOX Ex - MATERIAL
1009-0 – 100903	1 of 1	-	19 June 2014	POSIFIT Y BOX Ex
065001-S M	1 of 1	-	19 June 2014	STRUT BOX MATERIAL
065001-S	1 of 1	-	19 June 2014	STRUT BOX
100201 - 100202	1 of 1	1	19 June 2014	3 WAY BOTTOM ENTRY BOX
100201 – 100202-M	1 of 1	-	19 June 2014	3 WAY BOTTOM ENTRY BOX - MATERIAL
100301-H – 100303-H	1 of 1	-	19 June 2014	POSIFIT H BOX Ex
100301-H – 100303-H-M	1 of 1	-	19 June 2014	POSIFIT H BOX Ex - MATERIAL
100922 - M	1 of 1	-	19 June 2014	ANGLE BOX Ex - MATERIAL
100922	1 of 1	-	19 June 2014	ANGLE BOX Ex
100921 – BE – 100923 -BE	1 of 1	-	19 June 2014	BOTTOM ENTRY ANGLE BOX Ex
100921 – M – 100923 -M	1 of 1	-	19 June 2014	BOTTOM ENTRY ANGLE BOX Ex - MATERIAL
100300-M-U	1 of 1	-	19 June 2014	“X” POSI BOX MARKING

Issue 1

No additional drawings issued.

Issue 2

Drawing No	Sheets	Rev	Approved date	Title
100301-SF – 100304-SF	1 of 1	-	29 Aug 2017	POSIFIT / TX BOX Ex

Certificate Annex

Certificate Number **CMl 14ATEX3037U**

Equipment **Posi Fit range of Enclosures**

Manufacturer **CCG Cable Terminations (Pty) Ltd**

Issue 3

Drawing No	Sheets	Rev	Approved date	Title
10050B – 10050C	1 of 1	1	20 Mar 2020	“X” Multi Box Posifit Assembly
10050-M-U	1 of 1	1	20 Mar 2020	“X” Posi Multi Box U-Marking
100300-M-U	1 of 1	1	20 Mar 2020	“X” Posi Box U-Marking
100301-SF-100304_SF	1 of 1	1	20 Mar 2020	“X” ALL Type CCG Screw Fit Box Assembly
065001-S M	1 of 1	1	20 Mar 2020	Strut Box Material
100201 – 100202-M	1 of 1	1	20 Mar 2020	3 Way Bottom Entry Box- Material
1003-0 – 100304	1 of 1	1	20 Mar 2020	PosiFit / TX Box Ex
1003_0 _ 100304 M	1 of 1	1	20 Mar 2020	PosiFit / TX Box Ex - Material
100701-ALID	1 of 1	1	20 Mar 2020	Adapta Lid Cover Assembly
1009-0 - 100903	1 of 1	1	20 Mar 2020	Posifit Y Box Ex
100921 – M – 100923 – M	1 of 1	1	20 Mar 2020	Bottom Entry Angle Box Ex-Material
100922 – M	1 of 1	1	20 Mar 2020	Angle Box Ex – Material