UK Type Examination Certificate CML 21UKEX1017X Issue 0

United Kingdom Conformity Assessment

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

2 Equipment **No 1 CCG Ex d Box and No 1 CCG-SPG Ex d Box**

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 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 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 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 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:

BS EN 60079-0:2012:A11,Corr3:2014 BS EN 60079-1:2014 BS EN 60079-31:2014

10 The equipment shall be marked with the following:

Ex I M2 / II 2 G D

Ex db I/II* T6 Mb/Gb

Ex tb IIIC T85°C Db

IP66/68 (2m cont)

II* = IIA, IIB or IIC

(as applicable)

Ta= -20°C≤ Tamb ≤ 55°C

S. Roumbedakis
Technical Manager

11 Description

For product description refer to attached certificate CML 15ATEX1065X Iss.1.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	28 Jan 2021	R13654L/00	Issue of prime certificate

Note: Drawings that describe the equipment 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 of January 2022.

For additional conditions of manufacture refer to attached certificate CML 15ATEX1065X Iss.1.

14 Specific Conditions of Use

Refer to attached certificate CML 15ATEX1065X Iss.1.

Certificate Annex

Certificate Number	**CML 21UKEX1017X**
Equipment	**No 1 CCG Ex d Box and No 1 CCG-SPG Ex d Box**
Manufacturer	**CCG Cable Terminations PTY LTD**

The following documents describe the equipment defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
100801-14	5 of 5	4	28 Jan 2021	MARKING PLATE
100811-14	5 of 5	2	28 Jan 2021	MARKING PLATE - 1 FLP-SPG ENCLOSURE

EU Type Examination Certificate CML 15ATEX1065X Issue 1

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

2 Equipment **No 1 CCG Ex d Box and No 1 CCG-SPG Ex d Box**

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 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 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 Annex II to the Directive.

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 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 60079-0:2012:A11, Corr3:2014 EN 60079-1:2014 EN 60079-31:2014

10 The equipment shall be marked with the following:

Ex I M2 / II 2 G D

Ex db I/II* T6 Mb/Gb
Ex tb IIIC T85ºC Db
IP66/68 (2m cont)

II* = IIA, IIB or IIC
(as applicable)

Ta= -20°C ≤ Tamb ≤ 55°C

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11 Description

The No 1 CCG Ex d Box is a cast iron cylindrical junction box and consists of two parts, a base and cover with a flanged joint. The enclosure is approximately 154mm in diameter and has a height of 81mm, the cover is held in place by four M6 x 20mm LG hex socket head cap screws (Stainless steel A2-70).

The enclosure has in internal volume of 450ml and has four M20 / M25 x 1.5 (6H) optional gland entries, equally spaced around the enclosure base.

The junction box may be fitted with terminal blocks on a single rail, alternatively, conductors may be internally connected by means of end connectors / insulated terminations.

The No 1 CCG-SPG Ex d box is a cast iron cylindrical junction box and consists of two parts, a base and cover with a spigot joint. The cover is held in place by four M6 x 20mm LG hex socket head cap screws (Stainless Steel A2-70).

The enclosure has in internal volume of 500ml and has four M20 / M25 x 1.5 (6H) optional gland entries, equally spaced around the circumference of the enclosure base.

The junction box may be fitted with terminal blocks on a single rail, alternatively, conductors may be internally connected by means of end connectors / insulated terminations.

Variation 1

This variation introduces the following modifications:

i. To include an additional No 1 CCG-SPG Ex d box
ii. To update the flameproof standard to the later edition
iii. To allow minor updates to the drawings
iv. The description, marking and specific conditions of use have been modified in accordance with the above modifications
v. To transfer the certificate to CML B.V. and update the certificate reference to the 2014/34/EU Directive.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	09/06/2015	R616A/00	Issue of prime certificate
1	16/07/2018	R11800A/00	Introduction of Variation 1

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.

13.1 Where the product incorporates certified parts or safety critical components, the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.

13.2 A copy of the certificate and instructions shall be made available to the end user/installer.

14 Specific Conditions of Use (Special Conditions)

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

14.1 Suitably ATEX certified glands/adaptor/plugs shall be used to maintain the Flameproof (Ex d)/ Dust protected (Ex tb), including IP rating characteristics as applicable.

14.2 The enclosure flamepaths are more restrictive than those listed in EN 60079-1. Therefore, any repairs shall be in accordance with the constructional drawings obtained from the manufacturer only.

14.3 The nominal current (Max continuous circuit current) per circuit in the junction box is limited by the size of the conductor and the terminal block / connector ratings. The lower of the values in the table below and the maximum rated current of the terminal block / connector shall be used.

Conductor size	Current limitation
1.5 mm^2	15 A
2.5 mm^2	17 A
4 mm^2	20 A
6 mm^2	25 A

Certificate Annex

Certificate Number	CML 15ATEX1065X
Equipment	No 1 CCG Ex d Box and No 1 CCG-SPG Ex d Box
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**
100801-14	1 of 5	1	09/06/2015	No 1 CCG FLP Ex d I/IIC Enclosure Assembly
100801-14	2 of 5	1	09/06/2015	CCG Ex d Box Base
100801-14	3 of 5	1	09/06/2015	CCG Ex d Box Cover
100801-14	4 of 5	1	09/06/2015	CCG Ex d Box Cover Gasket
100801-14	5 of 5	1	09/06/2015	Marking Plate

Issue 1

Drawing No	Sheets	Rev	Approved date	**Title**
100811-00	1 of 5	1	16 Jul 2018	CCG 1 FLP-SPG Ex d I/IIC Enclosure Assembly
100811-01	2 of 5	1	16 Jul 2018	CCG Ex d Box base
100811-02	3 of 5	1	16 Jul 2018	CCG Ex d Cover
100811-03	4 of 5	1	16 Jul 2018	CCG Ex d Cover Gasket
100811-14	5 of 5	1	16 Jul 2018	Marking Plate – 1 FLP-SPG Enclosure
100801-00	1 of 5	3	16 Jul 2018	CCG 1 FLP Ex d I/IIC Enclosure Assembly
100801-01	2 of 5	3	16 Jul 2018	CCG Ex d Box base
100801-02	3 of 5	3	16 Jul 2018	CCG Ex d Cover
100801-03	4 of 5	3	16 Jul 2018	CCG Ex d Cover Gasket
100801-14	5 of 5	3	16 Jul 2018	Marking Plate