



国家防爆

Certificate number: CNEx21.3507X

Electrical Apparatus for Explosive Atmospheres CERTIFICATE OF CONFORMITY

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

Product Junction Boxes

Type See annex

Marking Ex e IIC T6 Gb/ Ex tD A21 IP66/IP67/IP68 T70°C/Ex tD A22 IP66/IP67/IP68 T70°C

Standard(s) —

Drawing No. 1003-0 - 100304, 1003-0 - 100304-M, 100301-H - 100303-H, 100201 - 100202-M, 100201 - 100202, 065001-S M, 065001 - S, 10050B - 10050C, 1009-0 - 100903 -M, 1009-0 - 100903, 100301-H - 100303-H-M, 100301-SF-100304-SF, 100701-ALID, 100921-BE-100923-BE, 100921-M-100923-M, 100922 - M, 100922

The drawings, technical documents and the samples are verified and certified according to standard(s) for safety as below:

GB 3836.1-2010 Explosive atmospheres - Part 1: Equipment - General requirements
GB 3836.3-2010 Explosive atmospheres - Part 3: Equipment protection by increased safety "e"
GB12476.1-2013 Electrical apparatus for use in the presence of combustible dust - Part 1: General requirements
GB12476.5-2013 Electrical apparatus for use in the presence of combustible dust - Part 5: Protection by enclosure "tD"

Note:

See Annex (5 page in total).

Director

Date:

2021-8-30

Valid until:

2026-8-29



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Electrical Apparatus for Explosive Atmospheres

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Page 1 of 5

This product has been certified, under certificate number IECEx CML 15.0072X, issue 3, dated 2020-03-20 and Test report GB/CML/ExTR19.0225/00 dated 2020-03.

Product Description:

The enclosures are non-metallic enclosures are manufactured from DMC (Dow Moulding Compound).

Type designation:

- Detailed models refer to the following table:

The Junction boxes comprise of a non-metallic enclosure component CCC certified that is fitted with terminals, as detailed in the table below:

Type and size	Dimensions (Dia. x height)	Gland entry sizes(1.5mm pitch)	Max. amount of terminals and size	Max. No. of cable gland entries and arrangement
Posi Fit / Tx box Size 0	100 x 78	M16-M20	9 x 4 mm ² mini terminals, 12 x 2.5 mm ² terminals or 12 x 2.5 mm ² mini terminals	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	10 x 2.5 mm ² , 8 x 4mm ² , 6 x 6 mm ² , 5 x 10 mm ² , 4 x 16 mm ² terminals or 8 x 4 mm ² mini terminals	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	12 x 2.5 mm ² , 10 x 4mm ² , 8 x 6 mm ² , 7 x 10 mm ² , 6 x 16 mm ² , 3 x 35 mm ² terminals or 10 x 4 mm ² mini terminals	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	20 x 2.5 mm ² , 16 x 4mm ² , 12 x 6 mm ² , 12 x 10 mm ² , 10 x 16 mm ² , 6 x 35 mm ² , 5 x 70 mm ² terminals or 14 x 4 mm ² mini terminals	CCG Posi Fit 4 Way box - 4 entries positioned orthogonal around the side walls with multiple gland entry sizes

Director

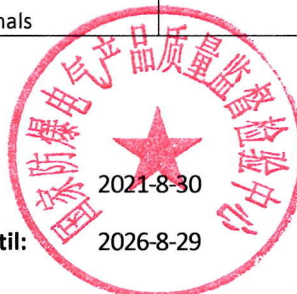


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Page 2 of 5

Posi Fit / Tx box Size 4	298 x 186	M16-M40	46 x 2.5 mm ² , 32 x 4mm ² , 28 x 6 mm ² , 23 x 10 mm ² , 18 x 16 mm ² , 14 x 35 mm ² , 10 x 70 mm ² terminals or 35 x 4 mm ² mini terminals	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	8 x 4 mm ² mini terminals	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	12 x 2.5 mm ² , 10 x 4mm ² , 8 x 6 mm ² , 7 x 10 mm ² terminals or 8 x 4 mm ² mini terminals	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	20 x 2.5 mm ² , 16 x 4mm ² , 12 x 6 mm ² , 12 x 10 mm ² , 10 x 16 mm ² , 6 x 35 mm ² terminals or 14 x 4 mm ² mini terminals	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
3 way bottom entry box Size 1	128 x 112	M16-M20	8 x 4 mm ² mini terminals	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
3 way bottom entry box Size 2	162 x 160	M16-M25	12 x 2.5 mm ² , 10 x 4mm ² , 8 x 6 mm ² , 7 x 10 mm ² , 6 x 16 mm ² , 3 x 35 mm ² terminals or 12 x 4 mm ² mini terminals	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	6 x 4 mm ² mini terminals	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

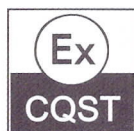
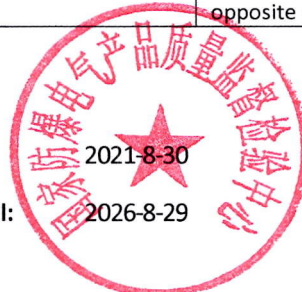
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Page 3 of 5

Y box Size 1	118 x 111	M16-M20	10 x 2.5 mm ² , 8 x 4mm ² , 6 x 6 mm ² , 5 x 10 mm ² or 8 x 4 mm ² mini terminals	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	12 x 2.5 mm ² , 10 x 4mm ² , 8 x 6 mm ² , 7 x 10 mm ² , 6 x 16 mm ² , 3 x 35 mm ² terminals or 10 x 4 mm ² mini terminals	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	20 x 2.5 mm ² , 16 x 4mm ² , 12 x 6 mm ² , 12 x 10 mm ² , 10 x 16 mm ² , 6 x 35 mm ² , 5 x 70 mm ² terminals or 14 x 4 mm ² mini terminals	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	10 x 2.5 mm ² , 8 x 4mm ² , 6 x 6 mm ² , 5 x 10 mm ² , 4 x 16 mm ² terminals or 8 x 4 mm ² mini terminals	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	12 x 2.5 mm ² , 10 x 4mm ² , 8 x 6 mm ² , 7 x 10 mm ² , 6 x 16 mm ² , 3 x 35 mm ² terminals or 10 x 4 mm ² mini terminals	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	4 x 2.5 mm ² or 6 x 4 mm ² mini terminals	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	12 x 2.5 mm ² , 10 x 4mm ² , 8 x 6 mm ² , 7 x 10 mm ² , 6 x 16 mm ² , 3 x 35 mm ² terminals or 10 x 4 mm ² mini terminals	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	20 x 2.5mm ² , 16 x 4mm ² , 12 x 6mm ² , 12 x 10mm ² , 10 x 16 mm ² , 6 x 35mm ² , 6 x 50mm ² , 5 x 70mm ² terminals or 14 x 4mm ² mini terminals.	The entries could vary, with the A/C of the gland being the min distance between the entries.

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Page 4 of 5

Multi Box PosiFit Assembly C	(Rectangular) 278 x 200 x 117	See entry amount and arrangement	46 x 2.5mm ² , 32 x 4mm ² , 28 x 6mm ² , 23 x 10mm ² , 14 x 16 mm ² , 6 x 35mm ² , 12 x 50mm ² , 10 x 70mm ² , 8 x 95/120mm ² terminals or 35 x 4mm ² mini terminals.	The entries could vary, with the A/C of the gland being the min distance between the entries.
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IP degree: IP66/IP67/IP68(2m/cont)

Ex marking: Ex e IIC T6 Gb/Ex tD A21 IP66/IP67/IP68 T70°C/ Ex tD A22 IP66/IP67/IP68 T70°C

Specific conditions of safety use:

- Ambient temperature range: -60°C~+40/55°C.
- For enclosures that do not utilise locking screws on the cover / lid, only the CCG tool supplied shall be used for opening and closing.
- 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.
- When fitted with the polycarbonate (clear) cover, the enclosure shall be installed to prevent direct UV exposure of internal components.
- Suitably CCC certified cable glands and/or plugs shall be used in the enclosures threaded entries.
- The Junction boxes shall only be used with the following CCC certified 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.

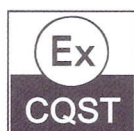
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Page 5 of 5

Manufacturer	Ex coding	Type	Size
Weidmuller	Ex e IIC Gb	AKZ4 and AKE4	4 mm ²
Weidmuller	Ex e IIC Gb	AKZ 2.5	2.5 mm ²
Weidmuller	Ex e IIC Gb	WDU & WPE 2.5, 4, 6, 10, 16, 35 and 70N	2.5 mm ² , 4mm ² , 6mm ² , 10 mm ² , 35mm ² and 70 mm ²

- Terminal blocks shall only be utilised on the applicable rail and shall allow sufficient space to make connections and to close the cover / lid.

- The creepage and clearance between terminal blocks and from the terminal block to any earthed / bonded metallic part shall comply with the GB3836.3 requirements for the applicable voltage of the terminal blocks.

- 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
82.75 A	-	95 mm ²
94.57 A	-	120 mm ²

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