

## Certificate of Assessment

## CML 14CA370-1

- 2 Equipment **Posi Fit Enclosures and Junction Boxes**  
Models: **Tx box Bottom entry angle box 4 way Bottom entry box**  
**Y box H box ST Box Strut box**  
**Angle Box**
- 3 Manufacturer **CCG Cable Terminations Ltd**
- 4 Address **33-37 Forge Road**  
**Spartan Industrial Area**  
**Kempton Park**  
**1619**  
**South Africa**
- 5 The components specified have been evaluated against the requirements of the standard specified in Section 7.
- 6 This evaluation is based on the following documents:  
Report R370A
- 7 Specification: **DTS01 DELUGE SYSTEMS - TEST SCHEDULE FOR ELECTRICAL EQUIPMENT TO BE INSTALLED IN AREAS SUBJECT TO WATER DELUGE SYSTEMS, DATED AUG 1991**
- 8 Assessment This is to certify that, on the basis of the testing carried out, that the above model ranges of Posi Fit Enclosure and Junction Boxes were considered to comply with the requirements listed in section 7, with respect to the DTS01 Deluge testing.
- 9 Date: 4<sup>th</sup> December 2014



## 10 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 fitted with terminals and are manufactured in the following various types and sizes:

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	6 x 4 mm <sup>2</sup> mini terminals or 4 x 2.5 mm <sup>2</sup> 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 <sup>2</sup> , 8 x 4mm <sup>2</sup> , 6 x 6 mm <sup>2</sup> , 5 x 10 mm <sup>2</sup> , 4 x 16 mm <sup>2</sup> terminals or 8 x 4 mm <sup>2</sup> 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 <sup>2</sup> , 10 x 4mm <sup>2</sup> , 8 x 6 mm <sup>2</sup> , 7 x 10 mm <sup>2</sup> , 6 x 16 mm <sup>2</sup> , 3 x 35 mm <sup>2</sup> terminals or 10 x 4 mm <sup>2</sup> 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 <sup>2</sup> , 16 x 4mm <sup>2</sup> , 12 x 6 mm <sup>2</sup> , 12 x 10 mm <sup>2</sup> , 10 x 16 mm <sup>2</sup> , 6 x 35 mm <sup>2</sup> , 5 x 70 mm <sup>2</sup> terminals or 14 x 4 mm <sup>2</sup> mini terminals	CCG Posi Fit 4 Way box 4 entries positioned orthogonal around the side walls with multiple gland entry sizes

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 4	298 x 186	M16-M40	46 x 2.5 mm <sup>2</sup> , 32 x 4mm <sup>2</sup> , 28 x 6 mm <sup>2</sup> , 23 x 10 mm <sup>2</sup> , 18 x 16 mm <sup>2</sup> , 14 x 35 mm <sup>2</sup> , 10 x 70 mm <sup>2</sup> terminals or 35 x 4 mm <sup>2</sup> 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 <sup>2</sup> 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 <sup>2</sup> , 10 x 4mm <sup>2</sup> , 8 x 6 mm <sup>2</sup> , 7 x 10 mm <sup>2</sup> terminals or 8 x 4 mm <sup>2</sup> 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 <sup>2</sup> , 16 x 4mm <sup>2</sup> , 12 x 6 mm <sup>2</sup> , 12 x 10 mm <sup>2</sup> , 10 x 16 mm <sup>2</sup> , 6 x 35 mm <sup>2</sup> terminals or 14 x 4 mm <sup>2</sup> 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 <sup>2</sup> 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 <sup>2</sup> , 10 x 4mm <sup>2</sup> , 8 x 6 mm <sup>2</sup> , 7 x 10 mm <sup>2</sup> , 6 x 16 mm <sup>2</sup> , 3 x 35 mm <sup>2</sup> terminals or 12 x 4 mm <sup>2</sup> 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 <sup>2</sup> 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

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
Y box Size 1	118 x 111	M16-M20	10 x 2.5 mm <sup>2</sup> , 8 x 4mm <sup>2</sup> , 6 x 6 mm <sup>2</sup> , 5 x 10 mm <sup>2</sup> or 8 x 4 mm <sup>2</sup> 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 <sup>2</sup> , 10 x 4mm <sup>2</sup> , 8 x 6 mm <sup>2</sup> , 7 x 10 mm <sup>2</sup> , 6 x 16 mm <sup>2</sup> , 3 x 35 mm <sup>2</sup> terminals or 10 x 4 mm <sup>2</sup> 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 <sup>2</sup> , 16 x 4mm <sup>2</sup> , 12 x 6 mm <sup>2</sup> , 12 x 10 mm <sup>2</sup> , 10 x 16 mm <sup>2</sup> , 6 x 35 mm <sup>2</sup> , 5 x 70 mm <sup>2</sup> terminals or 14 x 4 mm <sup>2</sup> 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 <sup>2</sup> , 8 x 4mm <sup>2</sup> , 6 x 6 mm <sup>2</sup> , 5 x 10 mm <sup>2</sup> , 4 x 16 mm <sup>2</sup> terminals or 8 x 4 mm <sup>2</sup> 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 <sup>2</sup> , 10 x 4mm <sup>2</sup> , 8 x 6 mm <sup>2</sup> , 7 x 10 mm <sup>2</sup> , 6 x 16 mm <sup>2</sup> , 3 x 35 mm <sup>2</sup> terminals or 10 x 4 mm <sup>2</sup> 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 <sup>2</sup> or 6 x 4 mm <sup>2</sup> 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 <sup>2</sup> , 10 x 4mm <sup>2</sup> , 8 x 6 mm <sup>2</sup> , 7 x 10 mm <sup>2</sup> , 6 x 16 mm <sup>2</sup> , 3 x 35 mm <sup>2</sup> terminals or 10 x 4 mm <sup>2</sup> mini terminals	CCG Angle Box 3 entries positioned at the bottom of the box.

## 11 Conditions of Manufacture

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

## 12 Conditions of Certification

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. When fitted with the polycarbonate (clear) cover, the enclosure shall be installed to prevent direct UV exposure of internal components.
- iii. Suitably certified cable glands and/or plugs shall be used in the enclosures threaded entries.
- iv. 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 <sup>2</sup>
11.12 A	15.86 A	4 mm <sup>2</sup>
14.25 A	20.33 A	6 mm <sup>2</sup>
19.81 A	28.26 A	10 mm <sup>2</sup>
26.42 A	37.68 A	16 mm <sup>2</sup>
43.46 A	61.98 A	35 mm <sup>2</sup>
52.50 A	74.88 A	50 mm <sup>2</sup>
66.75 A	95.21 A	70 mm <sup>2</sup>
Lower ambient		-60°C

- v. The Posi Fit empty enclosures have the following service temperature range, when assessed as part of equipment, these temperatures shall not be exceeded:

Service temperature range
-60°C to +110°C