ANZEx

Australian/New Zealand Certification Scheme
for Explosion Protected Equipment

Certificate of Conformity

Ex EQUIPMENT

Certificate No.: **ANZEx 13.4127X**	*Current Issue:* 1	*Date of Issue:* 2020-12-18

Applicant: **CCG Cable Terminations (Pty) Ltd**
33-37 Forge Road
Spartan Industrial Area
Kempton Park, Gauteng 1620
South Africa

Equipment: Posifit Junction Box Series

Type of Explosion Protection: Increased Safety “e”, Type of protection “nA”, Equipment dust ignition protection by enclosure “t”

Explosion Protection Marking: Ex e IIC T6 Gb / Ex nA IIC T6 Gc / Ex t IIIC T70°C Db IP66/67/68 (2m)
-60°C to 40/55°C

This certificate is granted subject to the conditions as set out in
Standards Australia/Standards New Zealand Miscellaneous Publication ***MP87.1***

Signed for and on behalf of issuing body ..... Ajay Maira

Name & Position Ajay Maira - Certification Authority

This certificate is not transferable and remains the property of the issuing body.
The status of this certificate can be confirmed through the database located at www.anzex.com.au

Certificate issued by:

Ex Testing & Certification Pty Ltd
1/30 Kennington Drive, Tomago NSW 2322, Australia

JAS-ANZ
WWW.JAS-ANZ.ORG/REGISTER

Ex TESTING & CERTIFICATION

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South Africa

Additional Manufacturing Location(s): None

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 60079-0:2011 (6th ed)	Explosive atmospheres Part 0: Equipment—General requirements
IEC 60079-7:2006 (4th ed)	Explosive atmospheres-Part 7: Equipment protection by increased safety "e"
IEC 60079-15:2010 (4th ed)	Explosive atmospheres-Part 15: Equipment protection by type of protection 'n'
IEC 60079-31:2008 (ed 1.0)	Explosive atmospheres-Part 31 : Equipment dust ignition protection by enclosure "t"

This Certificate does not indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

The equipment listed has successfully met the examination and test requirements as recorded in:

Test Report Nos. & Issuing Bodies associated with all issues of the certificate: 19300673.001 (TRA, Australia)

Quality Assessment Report No. & Issuing Body: ZA/ISC/QAR14.0001/06 (MASC, South Africa)

File Reference: 20119

(Certificate format based on template QMA-HAE-08-720 dated 2020-02-10)

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Schedule

Equipment Description:

The Posifit non-metallic junction box series is manufactured from DMC (Dough Moulding Compound). The enclosures have a cylindrical shaped body with a screw on cover, secured with a special tool that engages into splines on the cover of the enclosure. The junction box comprises pressed metallic inserts in the side of the enclosure with threaded entries for certified glands or plugs. An O-ring is utilized between the housing and the cover of the enclosure to maintain the IP rating. The Junction box can be manufactured in various types and sizes. (See table below).

An optional polycarbonate / DMC cover may be screwed with four M5 countersunk screws into metallic inserts in a DMC adaptor, which is threaded to replace the normal threaded cover. An O-ring is utilised between the polycarbonate section and adaptor to maintain the IP rating.

A component certificate covers empty enclosures under certificate ANZEx 13.4128U.

A special tool is supplied fitting in grooves on the round cover for closing and opening.

An instruction manual is available for this range of junction boxes.

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Posifit range of junction boxes (when marked as equipment (X))

Type	Box size	Dimensions (Dia. X height) (mm)	Gland entry sizes (1.5mm pitch)	Max amount of terminals and size	Maximum Gland entry amount and arrangement
Posifit /TX box	0	100 x 78	M16, M20	6 x 4 mm² mini terminals or 4 x 2.5 mm² terminals	CCG Posi Fit 4 Way box 4 entries positioned orthogonal around the side walls with multiple gland entry sizes.
	1	118 x 91	M16, M20	10 x 2.5mm², 8 x 4mm², 6 x 6mm², 5 x 10mm², 4 x 16 mm² terminals or , 8 x 4mm² mini terminals	
	2	140 x 114	M16, M20, M25	12 x 2.5mm², 10 x 4mm², 8 x 6mm², 7 x 10mm², 6 x 16 mm², 3 x 35mm² terminals or 10 x 4mm² mini terminals.	
	3	203 x 142	M16, M20, M25, M32	20 x 2.5mm², 16 x 4mm², 12 x 6mm², 12 x 10mm², 10 x 16 mm², 6 x 35mm², 5 x 70mm² terminals or 14 x 4mm² mini terminals.	
	4	298 x 186	M16, M20, M25, M32, M40	46 x 2.5mm², 32 x 4mm², 28 x 6mm², 23 x 10mm², 14 x 16 mm², 6 x 35mm², 10 x 70mm² terminals or 35 x 4mm² mini terminals.	
Bottom entry angle box	1	118 x 98	M20, M25	10 x 2.5mm², 8 x 4mm², 6 x 6mm², 5 x 10mm², 4 x 16 mm² terminals or , 8 x 4mm² 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 closest to the base of the box.
	2	140 x 105	M20, M25, M32	12 x 2.5mm², 10 x 4mm², 8 x 6mm², 7 x 10mm², 6 x 16 mm², 3 x 35mm² terminals or 10 x 4mm² mini terminals.	
	3	202 x 140	M20, M25, M32, M40	20 x 2.5mm², 16 x 4mm², 12 x 6mm², 12 x 10mm², 10 x 16 mm², 6 x 35mm², 5 x 70mm² terminals or 14 x 4mm² mini terminals.	
3 Way bottom entry box	1	128 x 112	M16, M20	10 x 2.5mm², 8 x 4mm², 6 x 6mm², 5 x 10mm², 4 x 16 mm² terminals or , 8 x 4mm² 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
	2	162 x 160	M16, M20, M25	12 x 2.5mm², 10 x 4mm², 8 x 6mm², 7 x 10mm², 6 x 16 mm², 3 x 35mm² terminals or 10 x 4mm² mini terminals.	

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					closest to the rim of the box.
Y box	0	102 x 81	M16, M20	6 x 4 mm² mini terminals or 4 x 2.5 mm² 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.
	1	118 x 111	M16, M20	10 x 2.5mm², 8 x 4mm², 6 x 6mm², 5 x 10mm², 4 x 16 mm² terminals or , 8 x 4mm² mini terminals	
	2	138 x 123	M16, M20, M25	12 x 2.5mm², 10 x 4mm², 8 x 6mm², 7 x 10mm², 6 x 16 mm², 3 x 35mm² terminals or 10 x 4mm² mini terminals.	
	3	200 x 150	M16, M20, M25, M32	20 x 2.5mm², 16 x 4mm², 12 x 6mm², 12 x 10mm², 10 x 16 mm², 6 x 35mm², 5 x 70mm² terminals or 14 x 4mm² mini terminals.	
H box	1	118 x 94	M16, M20	10 x 2.5mm², 8 x 4mm², 6 x 6mm², 5 x 10mm², 4 x 16 mm² terminals or , 8 x 4mm² 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.
	2	138.5 x 100	M16, M20, M25	12 x 2.5mm², 10 x 4mm², 8 x 6mm², 7 x 10mm², 6 x 16 mm², 3 x 35mm² terminals or 10 x 4mm² mini terminals.	
ST Box strut box	1	158 x 104	M16, M20	6 x 4 mm² mini terminals or 4 x 2.5 mm² terminals	CCG Posi ST Box strut box: - 4 entries positioned on opposite sides with multiple gland entry sizes.
Angle Box	2	121 x 100	M20, M25	12 x 2.5mm², 10 x 4mm², 8 x 6mm², 7 x 10mm², 6 x 16 mm², 3 x 35mm² terminals or 10 x 4mm² mini terminals.	

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Specific Conditions of Use:

Only the terminal block(s) in the table below are permitted to be installed inside the junction box (when the enclosure is marked as equipment "X"):

Manufacturer	Certificate Number	Ex Rating	Type	Size
Weidmuller	IECEx ULD 05.0008U	EEx e II	WDU 2.5, 4, 6, 10, 16, 35 and 70N WPE 2.5, 4, 6, 10, 16, 35 and 70N	2,5 mm², 4 mm², 6 mm², 10 mm², 16 mm², 35 mm² and 70 mm²
Weidmuller	IECEx ULD 05.0008U	EEx e II	AKZ4 and AKE4	4 mm ²

1. The CCG supplied tool must be used to open & close units that do not utilize the locking screw on the cover / lid.
2. When fitted with the polycarbonate (clear) cover the equipment must be installed to prevent the generation of electrostatic charge.
3. When fitted with the clear lid, the unit must be installed to prevent UV exposure to the internal components fitted.
4. Only the terminal blocks as per the description may be utilised in the junction box. Specific installation conditions as set by the terminal manufacturer / terminal certification must be considered. This includes considering the use of the applicable partitions and end plates for terminal blocks, conductor installation, tightening down of terminal block screws etc.
5. Terminal blocks may only be utilized on the applicable rail and must allow sufficient space to make connections and to close the cover / lid.
6. The creepage and clearance between terminal blocks and from the terminal block to any earthed / bonded metallic part must comply with IEC 60079-7 requirements for the applicable voltage of the terminal blocks.
7. Suitably certified glands / plugs must be used in the threaded entries.
8. Information w.r.t. entries is indicated on the instructions.

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9. The current per circuit in the junction box is limited by the size of the conductor, as follows:

Maximum Current (<55°C ambient)	Maximum Current (<40°C ambient)	Conductor/Terminal Block Size
8.34 A	11.90 A	2,5 mm²
11.12 A	15.86 A	4 mm²
14.25 A	20.33 A	6 mm²
19.81 A	28.26 A	10 mm²
26.42 A	37.68 A	16 mm²
43.46 A	61.98 A	35 mm²
52.50 A	74.88 A	50 mm²
66.75 A	95.21 A	75 mm²

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History of Issues and Variations
includes the current issue

Issue 0 dated 2014-04-01

Manufacturer's Documents associated with Issue 0:

Document Title	Document Number	Pages / Sheets	Revision	Date
POSIFIT / TX BOX Ex	1003-0 - 100304	1 of 1	Original	2009-11-12
POSIFIT / TX BOX Ex - MATERIAL	1003-0 - 100304-M	1 of 1	Original	2009-11-12
ADAPTA LID COVER ASSEMBLY	100701-ALID	1 of 1	Original	2011-05-10
POSIFIT Y BOX Ex - MATERIAL	1009-0 - 100903 - M	1 of 1	Original	2009-11-18
POSIFIT Y BOX Ex	1009-0 - 100903	1 of 1	Original	2009-11-18
STRUT BOX MATERIAL	065001-S M	1 of 1	Original	2012-06-06
STRUT BOX	065001-S	1 of 1	Original	2012-06-06
3 WAY BOTTOM ENTRY BOX	100201 - 100202	1 of 1	Original	2009-11-18
3 WAY BOTTOM ENTRY BOX - MATERIAL	100201 - 100202-M	1 of 1	Original	2009-11-18
"X" POSI BOX MARKING	100300-M-X	1 of 1	Original	2013-01-19
POSIFIT H BOX Ex	100301-H - 100303-H	1 of 1	Original	2009-11-18
POSIFIT H BOX Ex - MATERIAL	100301-H - 100303-H-M	1 of 1	Original	2009-11-18
BOTTOM ENTRY ANGLE BOX Ex	100921 - BE - 100923 - BE	1 of 1	Original	2010-08-06
BOTTOM ENTRY ANGLE BOX Ex - MATERIAL	100921 - M - 100923 - M	1 of 1	Original	2010-08-06
ANGLE BOX Ex - MATERIAL	100922 - M	1 of 1	Original	2009-11-18
ANGLE BOX Ex	100922	1 of 1	Original	2009-11-18

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Issue 1 dated 2020-12-18

Variations Permitted by Issue 1:

- Manufacturer QAR has been updated to ZA/ISC/QAR14.0001/06.
- Certificate has been updated to the most recent template.

Variations to the Specific Conditions of Use associated with Issue 1:

None

Manufacturer's Documents associated with Issue 1:

None