



Mining And Surface Certification (Pty) Ltd

2015/021934/07

THIS CERTIFICATE IS ISSUED AS AN I.A. CERTIFICATE IN TERMS OF THE RELEVANT REGULATIONS OF THE MINERALS ACT (INCORPORATING THE MINE HEALTH AND SAFETY ACT) AND THE ELECTRICAL MACHINERY REGULATIONS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT.

IA CERTIFICATE	MASC S/21-9002U	Issue	1
Issue Date	20 May 2021	Expiry Date	27 January 2031
** Based on Certificate No	IECEX CML15.0071U	Issue / Variations / Amendment	3
Requested by	CCG Cable Terminations (Pty) Ltd 33-37 Forge Road, Spartan Industrial Area, Kempton Park, 1619, South Africa		
Manufacturer	CCG Cable Terminations (Pty) Ltd 33-37 Forge Road, Spartan Industrial Area, Kempton Park, 1619, South Africa		
Description	<p>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.</p> <p>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.</p> <p>The enclosures have pressed metallic inserts in the side wall with threaded entries for certified cable glands or stopping plugs.</p> <p>A special tool is supplied, which fits in the grooves on the round cover for opening and closing the enclosure.</p> <p>The enclosures can be manufactured in the following various types and sizes: Refer to Schedule below.</p>		
Equipment	Posi Fit Range of Enclosures	Type	Refer to Schedule below
MARKING: Original marking as per certificate * remains applicable. <i>IA number must be added.</i>	Type: Ex Marking: IA Number: Warnings:	Refer to Annex Ex eb I Mb Ex eb IIC Gb Ex tb IIIC Db Ex ec IIC Gc Ex tc IIIC Dc Ts = -60°C to +110°C IP66/IP67/IP68 (2m cont.) MASC S/21-9002U See Base Certificate ** (original marking must be applied)	
Quality Assurance report (QAR) / Notification (QAN) Expiry date:	ZA/ICS/QAR14.0001/06		
Compliance:	The equipment as described above has been allocated the rating <u>Explosion Protected as above</u> utilizing the SANS/IEC Standards: <ul style="list-style-type: none"> SANS (IEC) 60079-0: 2019 (2017) Equipment - General requirements SANS (IEC) 60079-7: 2019 (2015) Equipment protection by Equipment protection by increased safety "e" SANS (IEC) 60079-31: 2014 (2013) Equipment dust ignition protection by enclosure "t" 		
Special conditions of safe use "X":	<ul style="list-style-type: none"> Refer to Annex below 		
Conditions of manufacture:	<ul style="list-style-type: none"> Refer to Annex below 		
 Terine Orsmond TECHNICAL OFFICER		 Regardt Zeelie TECHNICAL SPECIALIST	
This certificate covers all units sold as long as the QAR/QAN remains valid. According to the relevant requirements of the MHS Act and the OHS Act, production units of explosion protected equipment are required to comply with third party quality assurance (an approved mark scheme or batch testing by an accredited test laboratory).			

Apparatus in hazardous locations is subject to the following provisions as applicable, which shall be adhered to:
 SANS 10086 requirements;
 Any conditions mentioned in the above report
 Any restrictions and conditions enforced by the chief inspector of mines or chief inspector of factories
 Any relevant requirements of the MHS Act.

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Mining And Surface Certification (Pty) Ltd
 Unit 5 Lelyta Park, 45 Jurg Ave, Hennospark Ext 87
 Centurion, 0157

IA CERTIFICATE: MASC S/21-9002U
Equipment: Posi Fit Range of enclosures
(Rev 1 – Expiry date 27 January 2031)

ANNEX A

This document is based on and must be read in conjunction with certificate IECEx CML15.0071U	
Description (According to Base Certificate *)	
"Refer to description in Base Certificate ** (and any applicable schedules/issues/variations)."	
Revision 1: Dimensional update to 3 Way Bottom Entry Box.	
Standard compliance	See Base Certificate **
Schedule of Limitations ("U")	The following conditions relate to safe installation and/or use of the equipment. <ul style="list-style-type: none"> 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 PosiFit 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 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.
Conditions of manufacture	The following conditions are required of the manufacturing process for compliance with the certification. <ul style="list-style-type: none"> i. A copy of the certificate and instructions shall be supplied / made available to the end user.
Conditions of Certification	<ul style="list-style-type: none"> • This Certificate covers all units sold from the date of this approval and covered by a valid QAR and/or South African Markscheme / Batch testing. • The apparatus must be additionally marked with the MASC marking details above. • This approval only covers the equipment as certified above and does not include any scheduled additions or variations / amendments / new issues to the certificate(s), made after the above date. • The equipment does not need to be re-tested when used on the conditions and with such restrictions as prescribed by the certificate on which this IA Certificate is based and any other conditions in this IA Certificate. • The certification on which this IA Certificate is based must remain valid. • The extent of the requirements in the ARP 0108 (or regulations), SANS 10108 and any other applicable regulations on the certification of the equipment must remain unchanged. • The Ex quality assurance notification/report for the equipment must remain valid.
Conclusion:	<ul style="list-style-type: none"> • From the above and the selective examination of the documentation, nothing contrary to the requirements of the applicable standards was found, provided that the equipment / component is used as described in the above document / certificate and according to the MASC conditions below. A MASC IA certificate is issued based on the work done as per the Base Certificate **. • The routine tests for production units according to the Base Certificate ** must be complied with (if applicable).

This document is issued based on Mining And Surface Certification's Standard Contract terms and conditions available on request.

While every endeavour is made to ensure that a test / assessment / inspection is representative and accurately performed, and that a report / certificate is accurate in the quoted results and conclusions drawn from the test / assessment / inspection, MASC or its directors/employees shall in no way be liable for any error made in carrying out the test / assessment or for any erroneous statement, whether in fact or in opinion, contained in a report / certificate issued pursuant to a test / assessment / inspection.

MASC takes no responsibility for any non-conformances, exclusions or any results / assessments / inspections not in compliance with the standards. By marking the equipment in accordance with the documentation / standard, the manufacturer / applicant attests on his own responsibility that the equipment / installation has been designed and constructed in accordance with the applicable requirements of the relevant standards and documentation, that the routine verifications / routine tests have been correctly completed and the equipment / installation complies with the documentation and standard(s).

This document is only for use and application in South Africa. It is issued based on National interpretations and accepted practices.

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IA CERTIFICATE: MASC S/21-9002U
Equipment: Posi Fit Range of enclosures
(Rev 1 – Expiry date 27 January 2031)

SCHEDULE

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
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
3 way bottom entry box	Size 1	132 x 124	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
3 way bottom entry box	Size 2	162 x 160	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
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.
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.

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