

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Enclosure for Electrical Equipment**

with type designation(s)

Posi Fit Box Series, 3 Way Bottom Box, Angle Box, Bottom Entry Angle Box, Flameproof Box, Flameproof SPG Box

Issued to

**CCG Cable Terminations (Pty) Ltd.
KEMPTON PARK, South Africa**

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft**Application :****Hazardous area junction box.****Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.****Degree of protection IP66, IP67, IP68
Vibration class**Issued at **Høvik** on **2021-01-11**for **DNV GL**This Certificate is valid until **2025-10-13**.DNV GL local station: **Newcastle-upon-Tyne**Approval Engineer: **Nicolay Horn****Marta Alonso Pontes
Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Job Id: **262.1-019235-2**
 Certificate No: **TAE0000011**
 Revision No: **1**

Product description

Hazardous Area Junction box

Type	Posi-fit box series
Application	The POSI_FIT BOX is a connection box with a DIN rail mount for terminal blocks for use in explosive atmospheres. It is available with entries arranged in a 4-way cruciform or 'H' formation and 3-way in a 'Y' formation. Empty enclosures are also available.
Certification	IECEX, ATEX
Operating temperature	-60° C to +40/55° C -60° C to +110° C for empty enclosure
Ingress protection	IP66, IP67, IP68
Box material	Impact, corrosion and UV resistant glass-filled polyester (PBT)
No. of Box Sizes (4 way, H, Y)	5, 4, 2
Gland entry size	M16 to M40
Cable size	2,5mm ² to 70mm ²
Max voltage Rating	550V Dependent on terminals used
Max Current (40° C , 55° C)	(11,9A-95,21A; 8,34A - 66,75A) Dependent on conductor/ terminal used
Data sheet	BH011014
Assembly drawing No.	1003-0 - 100304- /M 1009-0 - 100903- /M 100301-H -100303 - H- /M

Type	Ex-3-way bottom entry box
Application	The Ex 3-WAY BOTTOM ENTRY BOX is a connection box with an optional DIN rail mount for terminal blocks for use in explosive atmospheres. Empty enclosures are also available.
Certification	IECEX, ATEX
Operating temperature	-60° C to +40/55° C -60° C to +110° C for empty enclosure
Ingress protection	IP66, IP67, IP68
Box material	Impact, corrosion and UV resistant glass-filled polyester (PBT)
No. of Box Sizes	2
Gland entry size	M20, M25
Cable size	2,5mm ² to 35mm ²
Max voltage Rating	550V Dependent on terminals used
Max Current (40° C , 55° C)	(11,9A - 61,98A; 8,34A - 43,46A) Dependent on conductor/ terminal used
Data sheet	BH030914
Assembly drawing No.	100201 - 100202 - /M

Type	Ex-Angle box
Application	The Ex ANGLE BOX is a connection box with an optional DIN rail mount for terminal blocks for use in explosive atmospheres. It is angled and is designed for use with hazardous area lighting. Empty enclosures are also available.
Certification	IECEX, ATEX
Operating temperature	-60° C to +40/55° C -60° C to +110° C for empty enclosure

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Type	Ex-Angle box
Ingress protection	IP66, IP67, IP68
Box material	Impact, corrosion and UV resistant glass-filled polyester (PBT)
No. of Box Sizes	1
Gland entry size	M20, M25
Cable size	2,5mm ² to 35mm ²
Max voltage Rating	550V Dependent on terminals used
Max Current (40° C , 55° C)	(11,9A - 61,98A; 8,34A - 43,46A) Dependent on conductor/ terminal used
Data sheet	BH040914
Assembly drawing No.	100992- /M

Type	Ex-Bottom-entry angle box
Application	The Ex BOTTOM-ENTRY ANGLE BOX is a connection box with an optional DIN rail mount for terminal blocks for use in explosive atmospheres. It is angled and is designed for use with hazardous area lighting. Empty enclosures are also available.
Certification	IECEX, ATEX
Operating temperature	-60° C to +40/55° C -60° C to +110° C for empty enclosure
Ingress protection	IP66, IP67, IP68
Box material	Impact, corrosion and UV resistant glass-filled polyester (PBT)
No. of Box Sizes	3
Gland entry size	M20 to M40
Cable size	2,5mm ² to 35mm ²
Max voltage Rating	550V Dependent on terminals used
Max Current (40° C , 55° C)	(11,9A - 61,98A; 8,34A - 43,46A) Dependent on conductor/ terminal used
Data sheet	BH020914
Assembly drawing No.	100921 -(BE)- /M -100923 - (BE) - /M

Type	Flameproof Box
Application	The FLAMEPROOF BOX is a connection box with a DIN rail mount for terminal blocks for use in explosive atmospheres.
Certification	IECEX, ATEX & others
Operating temp.	-60°C to +55°C
Ingress Protection	IP66, IP67, IP68
Box Material	Cast iron with epoxy paint coating
No. of box sizes	1
Gland entry size	M20, M25
Cable size	1,5mm ² to 6mm ²
Max. voltage rating	275V
Max. current rating	25A
Data sheet	1008FLPBox-HMB100619
Assembly drawing	100801

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Type	Flameproof SPG Box
Application	The FLAMEPROOF SPG BOX is a connection box with a DIN rail mount for terminal blocks for use in explosive atmospheres.
Certification	IECEX, ATEX & others
Operating temp.	-60°C to +55°C
Ingress Protection	IP66, IP67, IP68
Box Material	Cast iron with epoxy paint coating
No. of box sizes	1
Gland entry size	M20, M25
Cable size	1,5mm ² to 6mm ²
Max. voltage rating	275V
Max. current rating	25A
Data sheet	1008FLPBox-HMB100619
Assembly drawing	100801

Variants of the products listed in this certificate where the core functions and protection systems are unchanged are also covered by the certificate.

Application/Limitation

Manufacturer's application and assembly instructions to be followed.
 The information related to EN certification from recognised test institution is given as information only.

Type Approval documentation

Data sheets and assembly drawings	See each product construction
Posi-fit box series	IECEXCML 15.0072X, IEC ANZEx 13.4127X, IEC ANZEx IECEXCML 15.0071U,
3-way bottom entry box	13.4178U
Angle box	CML 14 ATEX3036X, CML 14 ATEX4038X CML 14 ATEX3037U, CML 14 ATEX4039U
Flame proof box, Flame proof SPG box	IECEX ZA/ICS/ExTR180004/00, ZA/ICS/ExTR150005/00, IECEXICS 15.0005X

Tests carried out

Type tests according to IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 60079-15, IEC/EN 60079-31, IEC 60529,

Marking of product

CCG cable termination (PTY) LTD – Type designation – IP rating - According to IECx Certificate of Conformity

Periodical assessment

The scope of the periodical assessment survey is to verify that the conditions stipulated for the Type approval is complied with and that no alterations are made to the product design or choice of materials. The main elements of the periodical assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Production Sample Tests (PST) and Routines (RT) checked (if not available tests according to PST and RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment to be performed at 2 and 3.5 year and at renewal.

END OF CERTIFICATE