

POSI FIT™

Ex e IIC, Ex nA IIC, Ex t IIIC, IP66/68

JUNCTION BOXES for Hazardous Installations

Features and Benefits

- High temperature resistance and anti-static properties.
- DIN Rail mounting studs are provided for use with terminal blocks.
- Raised domed lid facilitates connections to be made outside of the box.
- Only approved CCG cable glands and non-sparking terminals must be used.
- Dust and water tight to IP66/68 when fitted with CCG sealed cable glands.
- Boxes can be buried for extended periods.
- Boxes with see through polycarbonate "adapt-a-lids" available on request.
- 4-Way and H-Boxes with parallel entries available on request.



Technical Data

Type:	Posi Fit™ 4-Way Junction Box Posi Fit™ Y Junction Box Posi Fit™ H Junction Box
Box Material:	Impact corrosion and UV resistant glass reinforced polyester compound.
Optional Accessories:	Ex Certified Terminals, 4-Blanking plugs provided and Box Spanner (Lid Locking Key)

Standards and Certifications

Hazardous Area Classification: CNEx: Zone 1, 2, 21 and 22 Ex e IIC DIP A21 SANS/IEC, ANZEx: Zone 1, 2, 21, 22 and Ex e IIC T6 Gb, Ex nA IIC T6 Gc, Ex t IIIC T70°C Db ATEX: Finished: II 2 GD, IIC T6 Gb, Ex tb IIIC T70°C Dc / II 3 GD, Ex nA IIC T6 Gc, Ex tc IIIC T70°C Dc ATEX: Unfinished: II 2 GD, IIC Gb, Ex tb IIIC Db / II 3 GD, Ex nA IIC Gc, Ex tc III Dc		
Certification:	Standards:	
Australian/New Zealand/IEC ANZEx 13.4127X (Finished)	IEC 60079-0, IEC 60079-7, IEC 60079-15, IEC 60079-31, IEC 60529	
ANZEx 13.4128U (Unfinished)	IEC 60079-0, IEC 60079-7, IEC 60079-15, IEC 60079-31, IEC 60529	
ATEX	CML 14 ATEX 3036X (Finished) CML 14 ATEX 4038X (Finished) CML 14 ATEX 3037U (Unfinished) CML 14 ATEX 4039U (Unfinished)	EN 60079-0, EN 60079-7, EN 60079-31 EN 60079-0, EN 60079-15, EN 60079-31 EN 60079-0, EN 60079-7, EN 60079-31 EN 60079-0, EN 60079-15, EN 60079-31
Chinese	CNEEx 09.0430X	GB3836-1, GB3836.3, GB12476.1
Marine	14-SG1246755-1-PDA	
SANS/SABS/IEC	MASC S/10216X (Finished) MASC S/10216U (Unfinished)	SANS/IEC60079-0, SANS/IEC60079-7 SANS/IEC6007915, SANS/IEC60079-31, SANS/IEC60529
Ambient Temperature:	-60°C to +55°C (Finished)	
Service Temperature:	-60°C to +110°C (Unfinished)	
Ingress Protection:	IP66/67/68 (2m cont.)	



Conditions and limitations for safe use

- The CCG lid locking key must be used to open and close units that do not have locking screws such as "clear cover units".
- When fitted with the polycarbonate (clear) cover the equipment must be installed to prevent the generation of electrostatic charge.
- When fitted with the clear lid, the unit must be installed to prevent UV exposure to the internal components fitted.
- 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.
- Terminal blocks may only be utilized on the applicable rail and must 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 must comply with IEC 60079-7 requirements for the applicable voltage of the terminal blocks.
- Suitably certified glands / plugs must be used in the threaded entries.
- Information with relation to entries is indicated in the instructions.

Installation instructions for Posi Fit™ Box without Ex components

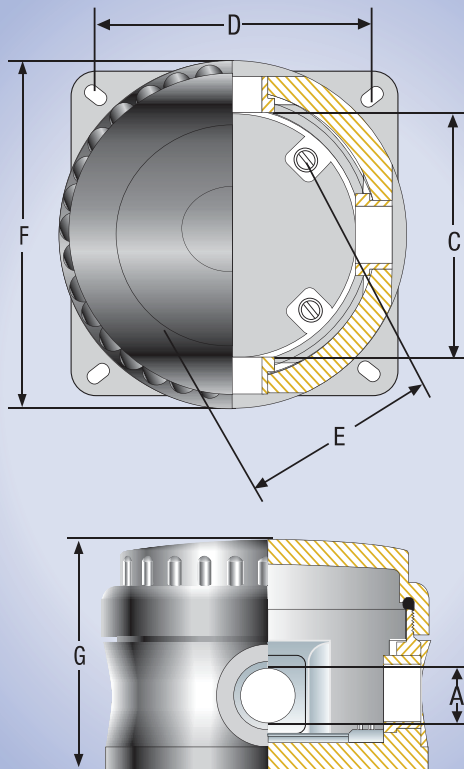
- Installation must be carried out by a competent person.
- The box must not be modified in any way, as this will invalidate the certification.
- When fitted with any internal components the assembly must be re-certified and the cover re-marked accordingly.
- Where cables enter the box they must be secured by CCG Cable Glands appropriate to the make up of the cable.
- Unused entry apertures must be blanked with certified CCG Blanking Plugs.
- To maintain IP66/68 a thread seal gasket between the box and cable gland must be installed.
- Before replacing the lid, ensure the lid gasket is in place.
- The use of a CCG Box Spanner (Lid Locking Key) is required to maintain the tamper proof integrity of the box, refer Figure 1.

CCG reserves the right to make alterations to the technical data, dimensions, designs and products available without notice. The illustrations cannot be considered binding. Please contact CCG for assistance.

POSIFIT™

4-Way / TX-Box

for hazardous installations

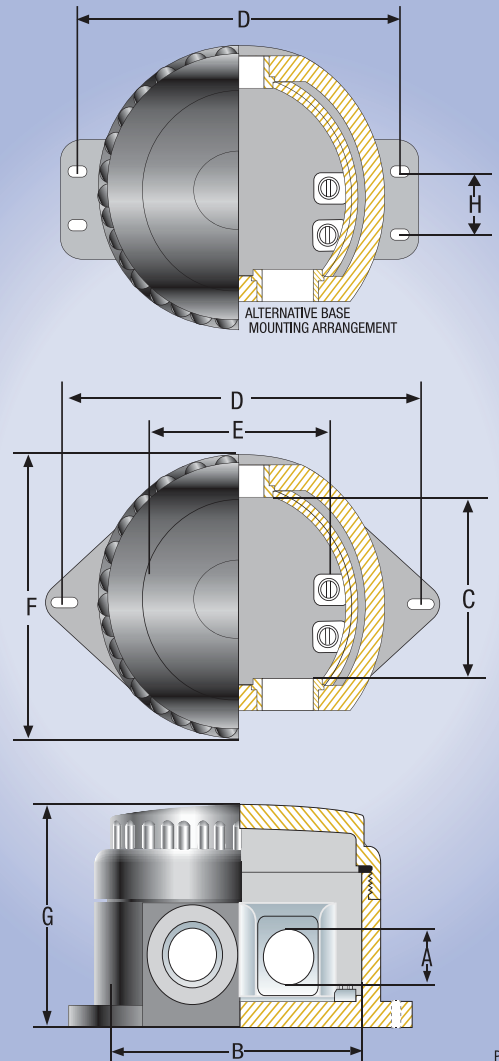


PATENTED

POSIFIT™

Y-Box

for hazardous installations



PATENTED

Product Code	Entry Thread 'A'	Distance Between Centres 'C'	Mounting Centres 'D'	Rail Mounting Centres 'E'	Outer Diameter 'F'	Overall Height 'G'
1003-0-M16	* M16	71.0	79.0	65.0	100.0	78.0
1003-0	M20	71.0	79.0	65.0	100.0	78.0
100301-M16	* M16	92.0	92.0	80.0	118.0	98.0
100301	M20	92.0	92.0	80.0	118.0	98.0
100302-M16	* M16	108.0	107.0	98.0	140.0	114.0
100302-M20	* M20	108.0	107.0	98.0	140.0	114.0
100302	M25	108.0	107.0	98.0	140.0	114.0
100303-M16	* M16	166.0	167.0	150.0	203.0	142.0
100303-M20	* M20	166.0	167.0	150.0	203.0	142.0
100303-M25	* M25	166.0	167.0	150.0	203.0	142.0
100303	M32	166.0	167.0	150.0	203.0	142.0
100304-M16	M16	225.0	240.0	246.0	298.0	186.0
100304-M20	M20	225.0	240.0	246.0	298.0	186.0
100304-M25	M25	225.0	240.0	246.0	298.0	186.0
100304-M32	M32	225.0	240.0	246.0	298.0	186.0
100304-M40	M40	225.0	240.0	246.0	298.0	186.0

All dimensions are in mm.

* Different arrangement of entry sizes are available on request as stated above.

Product Code	Entry Thread 'A'	Internal Dia. 'B'	Distance Between Centres 'C'	Mounting Centres 'D'	Rail Mounting Centres 'E'	Outer Diameter 'F'	Overall Height 'G'	Distance Between Mounting Holes 'H'
1009-0-M16	* M16	84.0	60.0	108.0	62.0	100.0	84.0	-
1009-0	M20	84.0	60.0	108.0	62.0	100.0	84.0	-
100901-M16	* M16	101.0	75.0	132.0	77.0	116.0	94.0	-
100901	M20	101.0	75.0	132.0	77.0	116.0	94.0	-
100902-M16	* M16	123.0	94.0	148.0	95.0	140.0	104.0	42.0
100902-M20	* M20	123.0	94.0	148.0	95.0	140.0	104.0	42.0
100902	M25	123.0	94.0	148.0	95.0	140.0	104.0	42.0
100903-M16	* M16	182.0	150.0	237.0	152.0	205.0	144.0	-
100903-M20	* M20	182.0	150.0	237.0	152.0	205.0	144.0	-
100903-M25	* M25	182.0	150.0	237.0	152.0	205.0	144.0	-
100903	M32	182.0	150.0	237.0	152.0	205.0	144.0	-

All dimensions are in mm.

* Different arrangement of entry sizes are available on request as stated above.

POSI FIT™

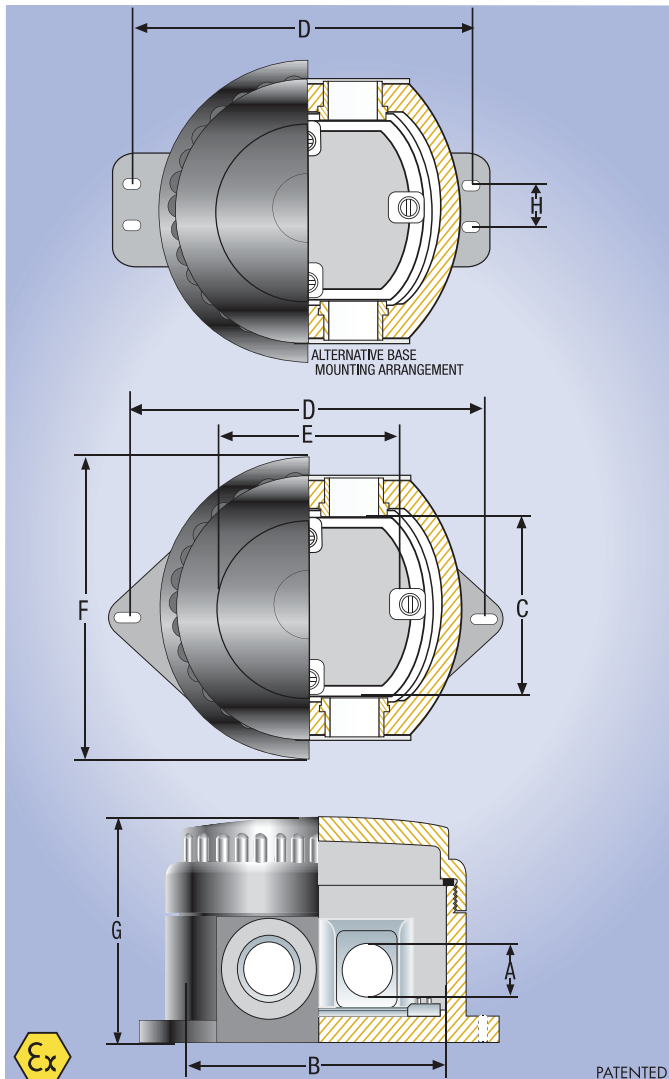
H-Box

for hazardous installations

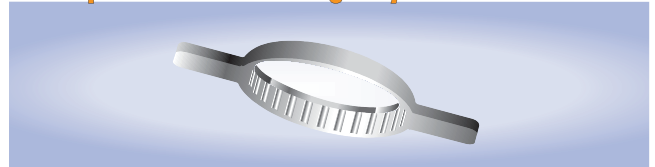
POSI FIT™

Tools / Accessories

for hazardous installations

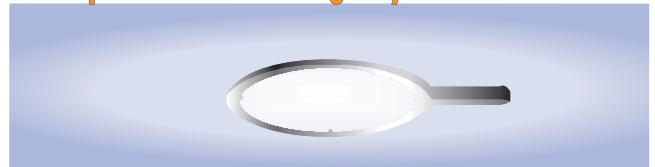


Box Spanner (Lid Locking Key)



Product Code	Size Reference
40120/1	1
401202	2

Box Spanner (Lid Locking Key)



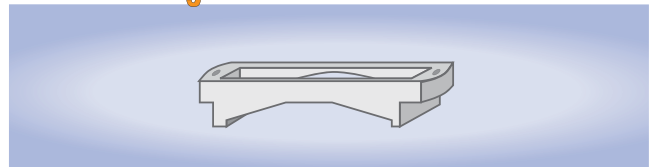
Product Code	Size Reference
401203	3

Clear Lid



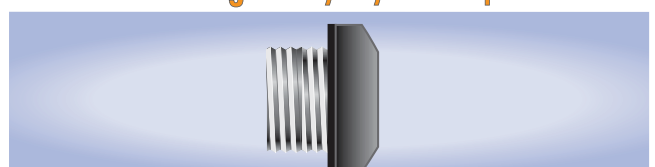
Size Reference	Thread Reference
0	M20
1	M20
2	M25

Pole Mounting Bracket



Product Code	Size Reference
401800	0
401801	1
401802	2
401803	3

Non Metallic Plugs - Polybutylene Terephthalate



Product Code	Size Reference	Thread Reference
352720	0/1	M20
352725	2	M25
352732	3	M32

Product Code	Entry Thread 'A'	Internal Dia. 'B'	Distance Between Centres 'C'	Mounting Centres 'D'	Rail Mounting Centres 'E'	Outer Diameter 'F'	Overall Height 'G'	Distance Between Mounting Holes 'H'
100301-H-M16	*M16	103.0	69.0	130.0	85.0	116.0	93.0	-
100301-H	M20	103.0	69.0	130.0	85.0	116.0	93.0	-
100302-H-M16	*M16	124.0	78.0	148.0	104.0	138.0	110.0	42.0
100302-H-M20	*M20	124.0	78.0	148.0	104.0	138.0	110.0	42.0
100302-H	M25	124.0	78.0	148.0	104.0	138.0	110.0	42.0

All dimensions are in mm.

*Different arrangement of entry sizes are available on request as stated above.

Wiring and Installation instructions for Posi Fit™ Box with Ex components

- Installation must be carried out by a competent person.
- Do not install under live current conditions.
- The box must not be modified in any way, as this will invalidate the certification.
- All wiring must be carried out in accordance with the relevant Codes of Practice.
- The wiring insulation must not extend by more than 1.0mm from the metal face of the terminal as shown in Figure 2.
- The voltage and current value of the box must not be exceeded. See relevant certificate for current limitations for conditions of use / schedule of limitations.
- Only those terminals shown in the terminal schedule may be incorporated in the box, refer Table 1.
- Inner cable bedding must protrude into the box by a minimum of 20mm past the cable entry point.
- Not more than one single or multiple strand lead shall be connected into either side of the terminals.
- Only earth conductors of equal size shall be connected with rail mounted terminals.
- All terminal screws used and unused shall be tightened.
- A parallel shaft screw driver of the correct size should be used for rail mounted terminals screws.
- Where cables enter the box they must be secured by CCG Cable Glands appropriate to the make up of the cable.
- Unused entry apertures must be blanked with certified CCG Blanking Plugs.
- To maintain IP66/68 a thread seal gasket between the box and cable gland must be installed.
- Before replacing the lid, ensure the lid gasket is in place.
- The use of a CCG Box Spanner (Lid Locking Key) is required to maintain the tamper proof integrity of the box, refer Figure 1.

To ensure the box apparatus is tamper proof: Screw on, tighten and lock lid in place by means of a CCG Box Spanner (Lid Locking Key).

FIGURE 1

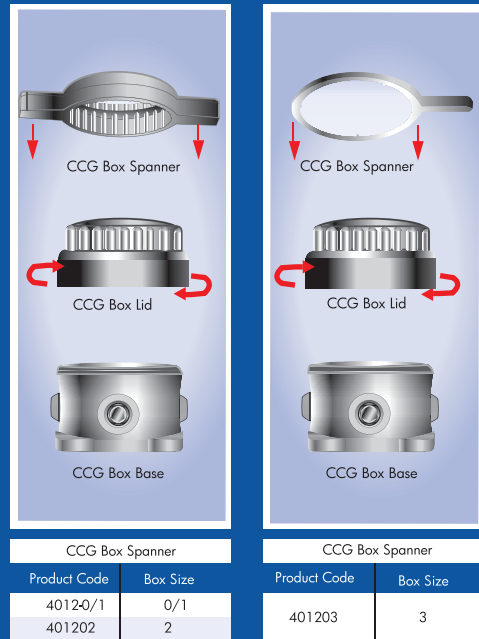


TABLE 1

Box Type	Box Size	Terminal Type and Size	Max Quantity	Rail Size
PosiFit 4 Way	0	4mm ² mini terminal	6	15
PosiFit 4 Way	0	2.5 mm ²	4	35
PosiFit 4 Way	1	2.5mm ²	10	35
PosiFit 4 Way	1	4mm ² mini terminal	8	15
PosiFit 4 Way/TX	1	4mm ²	8	35
PosiFit 4 Way	1	6mm ²	6	35
PosiFit 4 Way	1	10mm ²	5	35
PosiFit 4 Way	1	16mm ²	4	35
PosiFit 4 Way	2	2.5mm ²	12	35
PosiFit 4 Way	2	4mm ² mini terminal	10	15
PosiFit 4 Way	2	4mm ²	10	35
PosiFit 4 Way	2	6mm ²	8	35
PosiFit 4 Way	2	10mm ²	7	35
PosiFit 4 Way	2	16mm ²	6	35
PosiFit 4 Way	2	35mm ²	3	35
PosiFit 4 Way	3	2.5mm ²	20	35
PosiFit 4 Way	3	4mm ² mini terminal	14	15
PosiFit 4 Way	3	4mm ²	16	35
PosiFit 4 Way	3	6mm ²	12	35
PosiFit 4 Way	3	10mm ²	12	35
PosiFit 4 Way	3	16mm ²	10	35
PosiFit 4 Way	3	35mm ²	6	35
PosiFit 4 Way	3	70mm ²	5	35
PosiFit 4 Way	3	4mm ² mini terminal	14	15
PosiFit 4 Way	4	2.5mm ²	46	35
PosiFit 4 Way	4	4mm ² mini terminal	35	15
PosiFit 4 Way	4	4mm ²	32	35
PosiFit 4 Way	4	6mm ²	28	35
PosiFit 4 Way	4	10mm ²	23	35
PosiFit 4 Way	4	16mm ²	18	35
PosiFit 4 Way	4	35mm ²	14	35
PosiFit 4 Way	4	70mm ²	10	35

TABLE 1

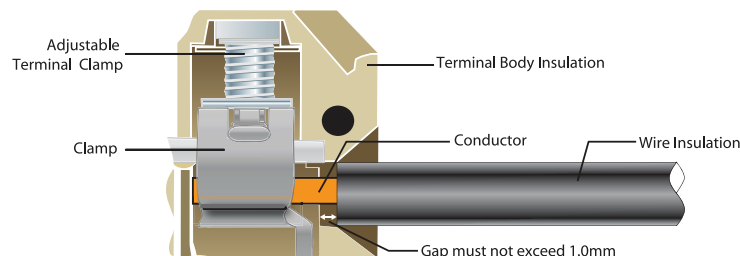
Box Type	Box Size	Terminal Type and Size	Max Quantity	Rail Size
PosiFit Y Box	0	4mm ² mini terminal	6	15
PosiFit Y Box	1	2.5mm ²	10	35
PosiFit Y Box	1	4mm ² mini terminal	8	15
PosiFit Y Box	1	4mm ²	8	35
PosiFit Y Box	1	6mm ²	6	35
PosiFit Y Box	1	10mm ²	5	35
PosiFit Y Box	2	2.5mm ²	12	35
PosiFit Y Box	2	4mm ² mini terminal	10	15
PosiFit Y Box	2	4mm ²	10	35
PosiFit Y Box	2	6mm ²	8	35
PosiFit Y Box	2	10mm ²	7	35
PosiFit Y Box	2	16mm ²	6	35
PosiFit Y Box	2	35mm ²	3	35
PosiFit Y Box	3	2.5mm ²	20	35
PosiFit Y Box	3	4mm ² mini terminal	14	15
PosiFit Y Box	3	4mm ²	16	35
PosiFit Y Box	3	6mm ²	12	35
PosiFit Y Box	3	10mm ²	12	35
PosiFit Y Box	3	16mm ²	10	35
PosiFit Y Box	3	35mm ²	6	35
PosiFit Y Box	3	70mm ²	5	35

TABLE 1

Box Type	Box Size	Terminal Type and Size	Max Quantity	Rail Size
PosiFit H Box	1	2.5mm ²	10	35
PosiFit H Box	1	4mm ² mini terminal	8	15
PosiFit H Box	1	4mm ²	8	35
PosiFit H Box	1	6mm ²	6	35
PosiFit H Box	1	10mm ²	5	35
PosiFit H Box	1	16 mm ²	4	35
PosiFit H Box	2	2.5mm ²	12	35
PosiFit H Box	2	4mm ² mini terminal	10	15
PosiFit H Box	2	4mm ²	10	35
PosiFit H Box	2	6mm ²	8	35
PosiFit H Box	2	10mm ²	7	35
PosiFit H Box	2	16mm ²	6	35
PosiFit H Box	2	35mm ²	3	35

FIGURE 2

The wiring insulation must not extend by more than 1.0mm from the metal face of the terminal as shown below.



VOLTAGE PER TERMINAL CONFIGURATION

Terminals	Volt	Earth Terminals
AKZ 4	275V	AKE 4
WDU 2.5	550V	WPE 2.5
WDU 4	550V	WPE 4
WDU 6	550V	WPE 6
WDU 10	550V	WPE 10
WDU 16	550V	WPE 16
WDU 35	550V	WPE 35
WDU 70 N	550V	WPE 70 N