

5-WAY HANDI FIT™

JUNCTION BOX - IP66/68

for General Industrial and Mining Electrical Installations



Features and Benefits

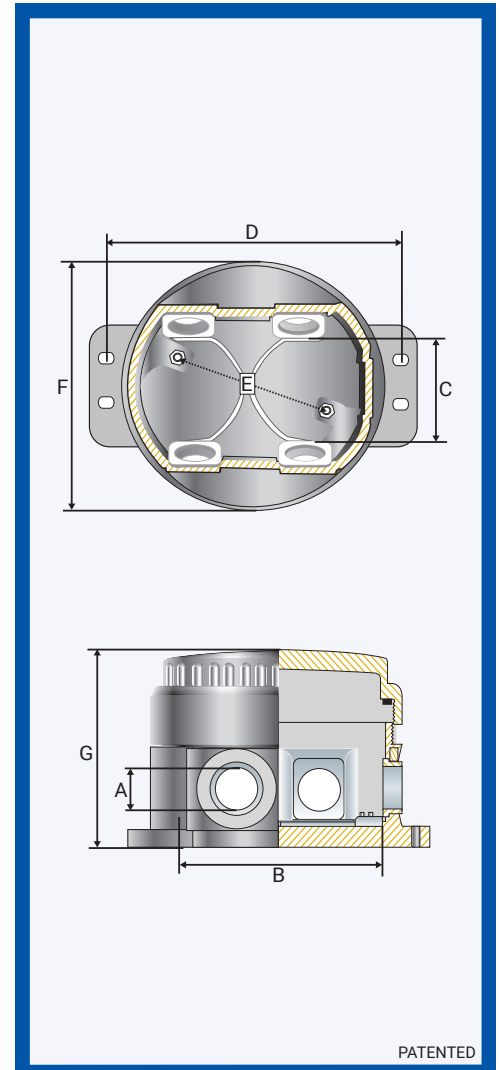
- 5-Way Handi Fit™ Box for general industrial and mining electrical installations.
- Screw-on lid provides ease of installation. Lid locking with a special key prevents unauthorized tampering.
- Supplied complete with safety securing lid lanyard.
- Only approved CCG cable glands and terminals must be used.
- No exposed metal parts.
- Dust and waterproof to IP66/68 when used with CCG sealed cable glands.
- No drilling or tapping of cable entries required.
- Mounting studs provided for DIN rail if using terminal blocks.
- Internal earthing to all entries and rail provided.
- One box offers 1, 2, 3, 4 or 5 way versatility (reduced stock holding).
- Box with see through polycarbonate "adapt-a-lids" available on request.

Technical Data

Type:	5-Way Handi Fit™ Box	
Box Material:	Impact corrosion and UV resistant glass reinforced polyester compound	
Seal Material:	Nitrile Rubber	
Inserts:	Brass, internal earth continuity ring and earth stud provided	
Optional Accessories:	Certified Terminals and Box Spanner (Lid Locking Key)	
	5-Blanking plugs are provided	

Standards and Certifications

Service Temperature:	-60°C to +110°C (Unfinished)	
Conformance:	Standard:	Certificate:
SANS/IEC	IEC 62208, IEC 62262	MASC 16-1787
IP66/68 2m Protection	IEC 60529	MASC 16-1787
Marine	IEC 60529	ABS 20-SG1952738-PDA
Deluge Protection DTS-01	DTS-01	CML 14CA370-1
Impact Protection IK10	IEC/BS EN 602208, 62262	CML 17Y11251
Short Circuit/Continuous Current	IEC 60947-7-2, IEC 62444	CATAPULT OR/15/11677_2
London Underground Approval	IEC 62208, IEC 62262	LU 3057



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Guidelines for Correct 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 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.
- IP66/68 glands / plugs must be used in the threaded entries.
- Information with relation to entries is indicated in the instructions.

Product Code	Entry Thread 'A'	Internal Diameter 'B'	Distance Between Centres 'C'	Mounting Centres 'D'	Rail Mounting Centres 'E'	Overall Diameter 'F'	Outside Height 'G'
065001-H1	* M16	103.0	69.0	130.0	58.0	113.0	93.0
065001-H1	M20	103.0	69.0	130.0	58.0	113.0	93.0
065002-H1	* M16	124.0	78.0	148.0	-	140.0	110.0
065002-H1	* M20	124.0	78.0	148.0	-	140.0	110.0
065002-H1	M25	124.0	78.0	148.0	-	140.0	110.0

All dimensions are in mm. * Different arrangement of entry sizes is available on request as stated above.

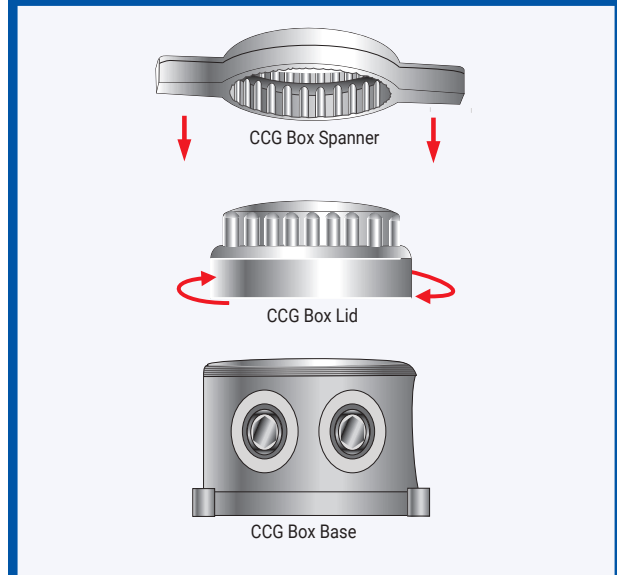
5-WAY HANDI FIT™ JUNCTION BOX

Wiring and Installation instructions for 5-Way Handi Fit™ Box with 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, refer Table 2 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.

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).



CCG Box Spanner

Product Code	Box Size
4012-0/1	0/1
401202	2

TABLE 1

Box Type	Box Size	Terminal Type and Size	Max Quantity	Rail Size
5-Way HandiFit™ Box	2	2.5mm ²	12	35
5-Way HandiFit™ Box	2	4mm ² mini terminal	10	15
5-Way HandiFit™ Box	2	4mm ²	10	35
5-WayHandiFit™ Box	2	6mm ²	8	35
5-WayHandiFit™ Box	2	10mm ²	7	35
5-Way HandiFit™ Box	2	16mm ²	6	35
5-Way HandiFit™ Box	2	35mm ²	3	35

TABLE 2

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

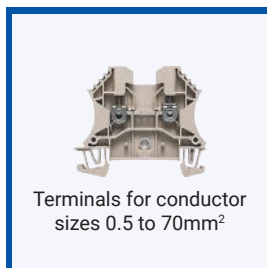
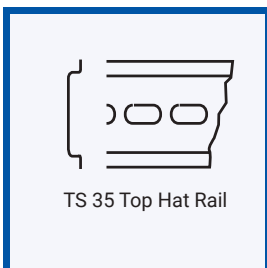
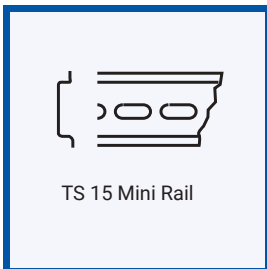
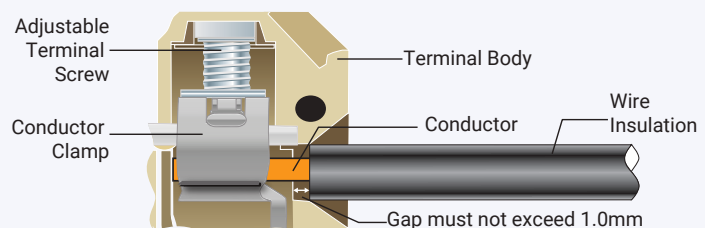


FIGURE 2

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





HANDI FIT™

JUNCTION BOX - IP66/68

for General Industrial and Mining Electrical Installations

Features and Benefits

- Handi-Fit™ Box for general industrial and mining electrical installations.
- Screw-on lid provides ease of installation. Lid locking with a special key prevents unauthorized tampering.
- Supplied complete with safety securing lid lanyard.
- Raised domed lid facilitates connections to be made outside of the box.
- Only approved CCG cable glands and terminals must be used.
- No exposed metal parts.
- Dust and water proof to IP66/68 when used with CCG sealed cable glands.
- Integral retail cable gland thread entries.
- Internal earthing to all entries and rail provided.
- Mounting studs provided for DIN rail if using terminal blocks.
- DIN Rail mounting studs are provided for use with terminal blocks.
- Handi-Fit™ Box can be buried for extended periods.
- 4-Way and H-Boxes with parallel entries available on request.
- Red Fire Rated Box for emergency circuits available (925°C for 3-hours).



Technical Data

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

Standards and Certifications

Service Temperature:	-60°C to +110°C	
Conformance:	Standard:	Certificate:
IEC/BS/EN	62208:2011	CML 17Y11251
SANS	62208:2012	MASC 16-1787
Impact Protection IK10	IEC/BS/EN 62262	CML 17Y11251
IP66/68 - 2m Protection	IEC/BS/EN 60529	CML 17Y11251
	SANS 60529	MASC 16-1787
Deluge Protection	DTS 01	CML 14CA370-1
Marine Approvals ABS	IEC 60529	ABS 20-SG1952738-PDA
DNV-GL	IEC 60529	DNV-GL TAE0000011
Short Circuit Protection	IEC 60947-7-2, IEC 62444	CATAPULT OR/15/11677_2
Continuous Current Protection	IEC 60947-7-2	CATAPULT OR/15/11677_2
UV Protection	ISO 4892-2	
Zero Halogen	BS7211, BS 50267-2-1	TDW69-09-14
Flammability	UL94V-0	
London Underground Approval	IEC 62208, IEC 62262	LU 3057



Conditions for safe use

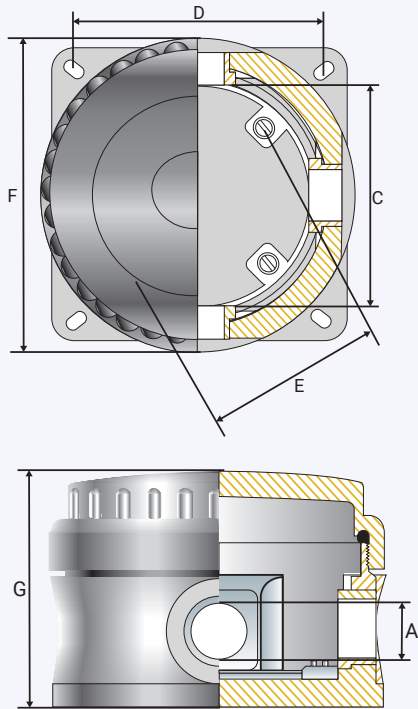
- The CCG lid locking key must be used to open and close units that do not have locking screws such as “clear cover units”.
- When fitted with the clear lid, the unit must be installed to prevent UV exposure to the internal components fitted.
- Only the terminal blocks as per the description may be utilised 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.
- IP66/68 glands/plugs must be used in the threaded entries.
- Information with relation to entries is indicated in the instructions.

Installation instructions for Handi Fit™ Box without components

- Installation must be carried out by a competent person in accordance with the relevant Wiring Codes of Practice.
- The box must not be modified in any way, as this will invalidate the certification.
- 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.

4-Way

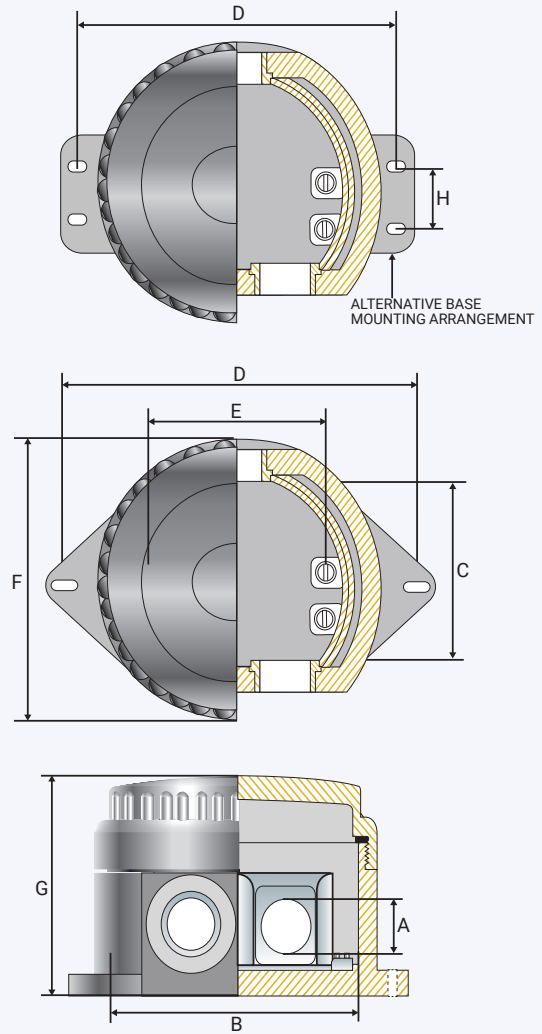
for general, industrial and mining electrical installations



PATENTED

Y-Box

for general, industrial and mining electrical installations



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Product Code	Entry Thread 'A'	Distance Between Inserts 'C'	Mounting Centres 'D'	Rail Mounting Centres 'E'	Outer Diameter 'F'	Overall Height 'G'
0650-0-M16	* M16	71.00	79.00	65.00	100.00	78.00
0650-0	M20	71.00	79.00	65.00	100.00	78.00
065001-M16	* M16	88.00	92.00	80.00	118.00	98.00
065001	M20	88.00	92.00	80.00	118.00	98.00
065002-M16	* M16	108.00	107.00	98.00	140.00	114.00
065002-M20	* M20	108.00	107.00	98.00	140.00	114.00
065002	M25	108.00	107.00	98.00	140.00	114.00
065003-M16	* M16	166.00	167.00	150.00	206.00	142.00
065003-M20	* M20	166.00	167.00	150.00	206.00	142.00
065003-M25	* M25	166.00	167.00	150.00	206.00	142.00
065003	M32	166.00	167.00	150.00	206.00	142.00
065003-XL	* M32	166.00	167.00	150.00	206.00	170.00
065003-XL-M40	* M40	166.00	167.00	150.00	206.00	170.00
065004-M16	* M16	263.00	240.00	246.00	298.00	186.00
065004-M20	* M20	263.00	240.00	246.00	298.00	186.00
065004-M25	* M25	263.00	240.00	246.00	298.00	186.00
065004-M32	* M32	263.00	240.00	246.00	298.00	186.00
065004	M40	263.00	240.00	246.00	298.00	186.00

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 Inserts 'C'	Mounting Centres 'D'	Rail Mounting Centres 'E'	Outer Diameter 'F'	Overall Height 'G'	Distance Between Mounting Holes 'H'
0651-0-M16	*M16	84.0	60.0	108.0	62.0	100.0	84.0	-
0651-0	M20	84.0	60.0	108.0	62.0	100.0	84.0	-
065101-M16	*M16	101.0	75.0	132.0	77.0	116.0	94.0	-
065101	M20	101.0	75.0	132.0	77.0	116.0	94.0	-
065102-M16	*M16	123.0	94.0	148.0	95.0	140.0	104.0	42.0
065102-M20	*M20	123.0	94.0	148.0	95.0	140.0	104.0	42.0
065102	M25	123.0	94.0	148.0	95.0	140.0	104.0	42.0
065103-M16	*M16	182.0	150.0	237.0	152.0	205.0	144.0	-
065103-M20	*M20	182.0	150.0	237.0	152.0	205.0	144.0	-
065103-M25	*M25	182.0	150.0	237.0	152.0	205.0	144.0	-
065103	M32	182.0	150.0	237.0	152.0	205.0	144.0	-

All dimensions are in mm.

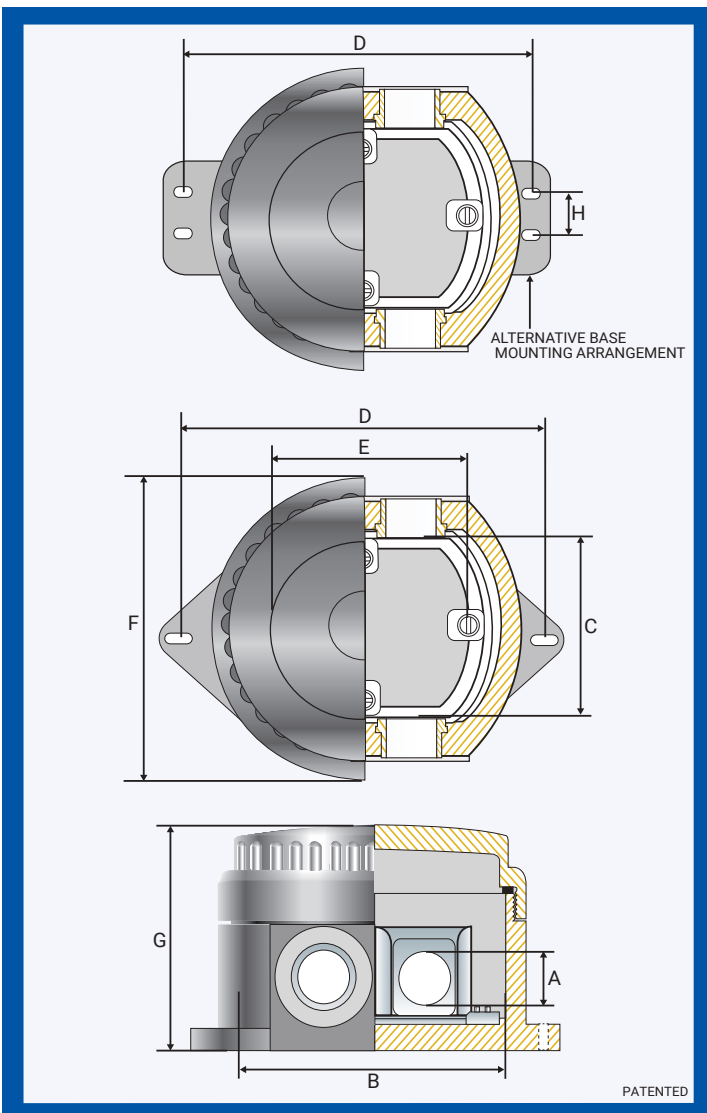
* Different arrangement of entry sizes are available on request as stated above.

H-Box

for general, industrial and mining electrical installations

Tools /Accessories

for general, industrial and mining electrical installations



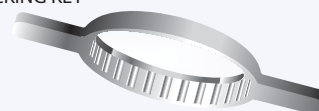
Product Code	Entry Thread 'A'	Internal Dia. 'B'	Distance Between Inserts 'C'	Mounting Centres 'D'	Rail Mounting Centres 'E'	Outer Diameter 'F'	Overall Height 'G'	Distance Between Mounting Holes 'H'
065001-H-M16	*M16	103.0	69.0	130.0	85.0	116.0	93.0	-
065001-H	M20	103.0	69.0	130.0	85.0	116.0	93.0	-
065002-H-M16	*M16	124.0	78.0	148.0	104.0	138.0	110.0	42.0
065002-H-M20	*M20	124.0	78.0	148.0	104.0	138.0	110.0	42.0
065002-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.

Box Spanner (Lid Locking Key)

ADAPTOR LID LOCKING KEY



Product Code	Size Reference
4012-0/1	0/1
401202	2

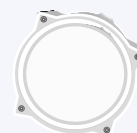
Box Spanner (Lid Locking Key)

ADAPTOR LID LOCKING KEY



Product Code	Size Reference
401203	3

Clear Lid



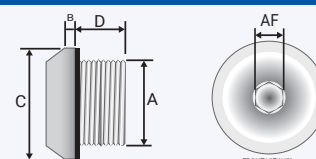
Product Code	Box Size
065001-4SW-CLR	1
065002-4SW-CLR	2
065003-4SW-CLR	3

Pole Mounting Bracket



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

Non Metallic Plugs IP66/68 COMPLETE WITH WASHER



Product Code	Metric Dia 'A'	Metric Dia 'B'	Metric Dia 'C'	Metric Dia 'D'	Hex Size Max A/F	Torque Value Nm
352820	M20x1.5	28.0	22.0	12.0	10.0	7.0
352825	M25x1.5	33.0	25.0	15.0	10.0	9.0
352832	M32x1.5	40.0	35.0	15.0	10.0	12.0

HANDI FIT™ JUNCTION BOX

Wiring and installation instructions for Handi Fit™ Box with 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.

TABLE 1

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

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

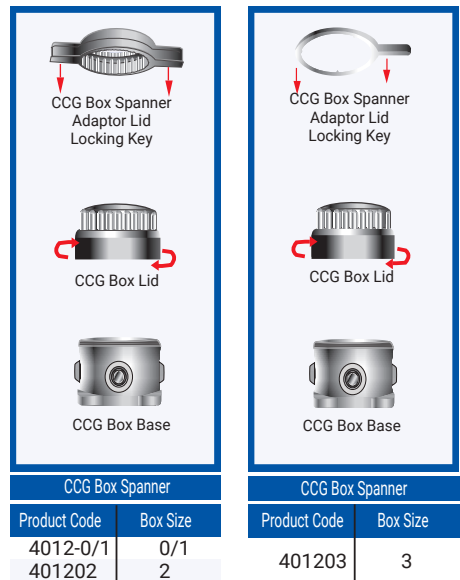


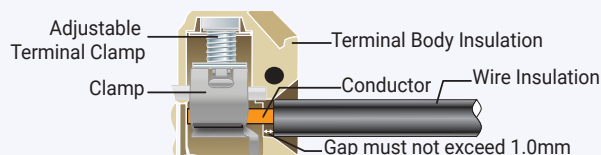
TABLE 2

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

FIGURE 2

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



HANDI FIT™

JUNCTION BOX - IP66/68

for General Industrial and Mining Electrical Installations



Features and Benefits

- Handi-Fit™ Box for general industrial and mining electrical installations.
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- Supplied complete with safety securing lid lanyard.
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- No exposed metal parts.
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- Integral retail cable gland thread entries.
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- Mounting studs provided for DIN rail if using terminal blocks.
- DIN Rail mounting studs are provided for use with terminal blocks.
- Handi-Fit™ Box can be buried for extended periods.
- 4-Way and H-Boxes with parallel entries available on request.
- Red Fire Rated Box for emergency circuits available (925°C for 3-hours).



Technical Data

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

Standards and Certifications

Service Temperature:	-60°C to +110°C	
Conformance:	Standard:	Certificate:
IEC/BS/EN	62208:2011	CML 17Y11251
SANS	62208:2012	MASC 16-1787
Impact Protection IK10	IEC/BS/EN 62262	CML 17Y11251
IP66/68 - 2m Protection	IEC/BS/EN 60529	CML 17Y11251
	SANS 60529	MASC 16-1787
Deluge Protection	DTS 01	CML 14CA370-1
Marine Approvals ABS	IEC 60529	ABS 20-SG1952738-PDA
DNV-GL	IEC 60529	DNV-GL TAE0000011
Short Circuit Protection	IEC 60947-7-2, IEC 62444	CATAPULT OR/15/11677_2
Continuous Current Protection	IEC 60947-7-2	CATAPULT OR/15/11677_2
UV Protection	ISO 4892-2	
Zero Halogen	BS7211, BS 50267-2-1	TDW69-09-14
Flammability	UL94V-0	
London Underground Approval	IEC 62208, IEC 62262	LU 3057



Conditions for safe use

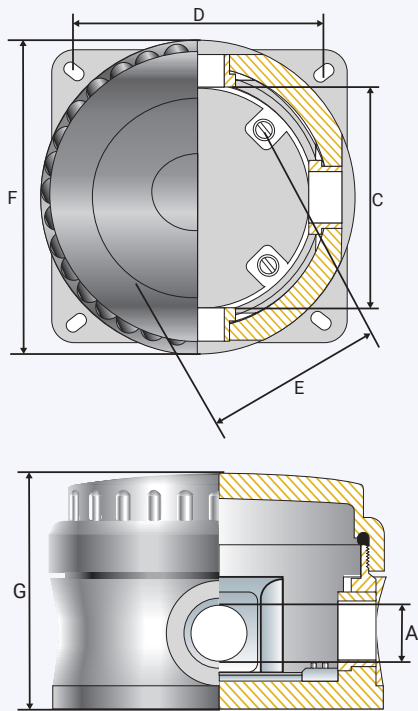
- The CCG lid locking key must be used to open and close units that do not have locking screws such as “clear cover units”.
- When fitted with the clear lid, the unit must be installed to prevent UV exposure to the internal components fitted.
- Only the terminal blocks as per the description may be utilised 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.
- IP66/68 glands/plugs must be used in the threaded entries.
- Information with relation to entries is indicated in the instructions.

Installation instructions for Handi Fit™ Box without components

- Installation must be carried out by a competent person in accordance with the relevant Wiring Codes of Practice.
- The box must not be modified in any way, as this will invalidate the certification.
- 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.

4-Way

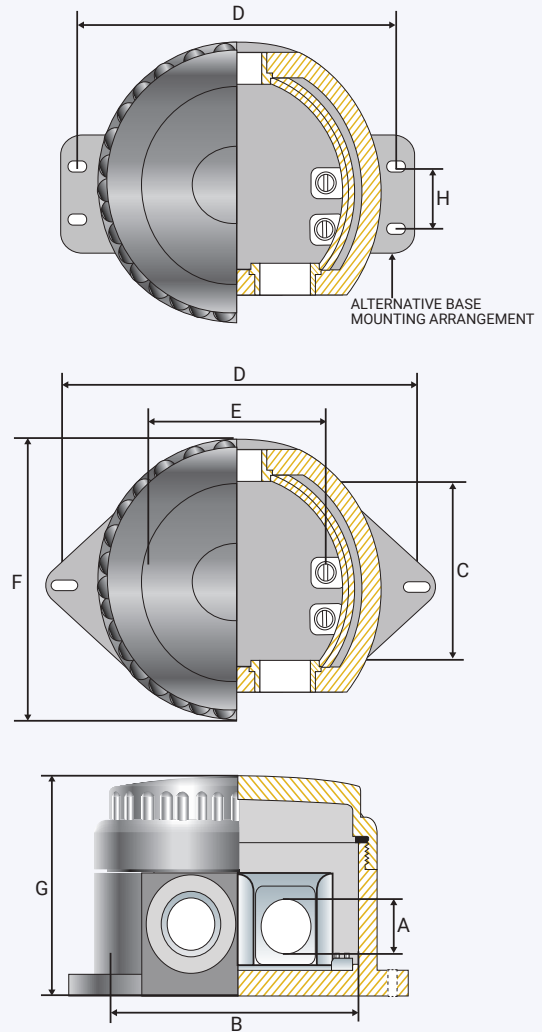
for general, industrial and mining electrical installations



PATENTED

Y-Box

for general, industrial and mining electrical installations



PATENTED

Product Code	Entry Thread 'A'	Distance Between Inserts 'C'	Mounting Centres 'D'	Rail Mounting Centres 'E'	Outer Diameter 'F'	Overall Height 'G'
0650-0-M16	* M16	71.00	79.00	65.00	100.00	78.00
0650-0	M20	71.00	79.00	65.00	100.00	78.00
065001-M16	* M16	88.00	92.00	80.00	118.00	98.00
065001	M20	88.00	92.00	80.00	118.00	98.00
065002-M16	* M16	108.00	107.00	98.00	140.00	114.00
065002-M20	* M20	108.00	107.00	98.00	140.00	114.00
065002	M25	108.00	107.00	98.00	140.00	114.00
065003-M16	* M16	166.00	167.00	150.00	206.00	142.00
065003-M20	* M20	166.00	167.00	150.00	206.00	142.00
065003-M25	* M25	166.00	167.00	150.00	206.00	142.00
065003	M32	166.00	167.00	150.00	206.00	142.00
065003-XL	* M32	166.00	167.00	150.00	206.00	170.00
065003-XL-M40	* M40	166.00	167.00	150.00	206.00	170.00
065004-M16	* M16	263.00	240.00	246.00	298.00	186.00
065004-M20	* M20	263.00	240.00	246.00	298.00	186.00
065004-M25	* M25	263.00	240.00	246.00	298.00	186.00
065004-M32	* M32	263.00	240.00	246.00	298.00	186.00
065004	M40	263.00	240.00	246.00	298.00	186.00

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 Inserts 'C'	Mounting Centres 'D'	Rail Mounting Centres 'E'	Outer Diameter 'F'	Overall Height 'G'	Distance Between Mounting Holes 'H'
0651-0-M16	*M16	84.0	60.0	108.0	62.0	100.0	84.0	-
0651-0	M20	84.0	60.0	108.0	62.0	100.0	84.0	-
065101-M16	*M16	101.0	75.0	132.0	77.0	116.0	94.0	-
065101	M20	101.0	75.0	132.0	77.0	116.0	94.0	-
065102-M16	*M16	123.0	94.0	148.0	95.0	140.0	104.0	42.0
065102-M20	*M20	123.0	94.0	148.0	95.0	140.0	104.0	42.0
065102	M25	123.0	94.0	148.0	95.0	140.0	104.0	42.0
065103-M16	*M16	182.0	150.0	237.0	152.0	205.0	144.0	-
065103-M20	*M20	182.0	150.0	237.0	152.0	205.0	144.0	-
065103-M25	*M25	182.0	150.0	237.0	152.0	205.0	144.0	-
065103	M32	182.0	150.0	237.0	152.0	205.0	144.0	-

All dimensions are in mm.

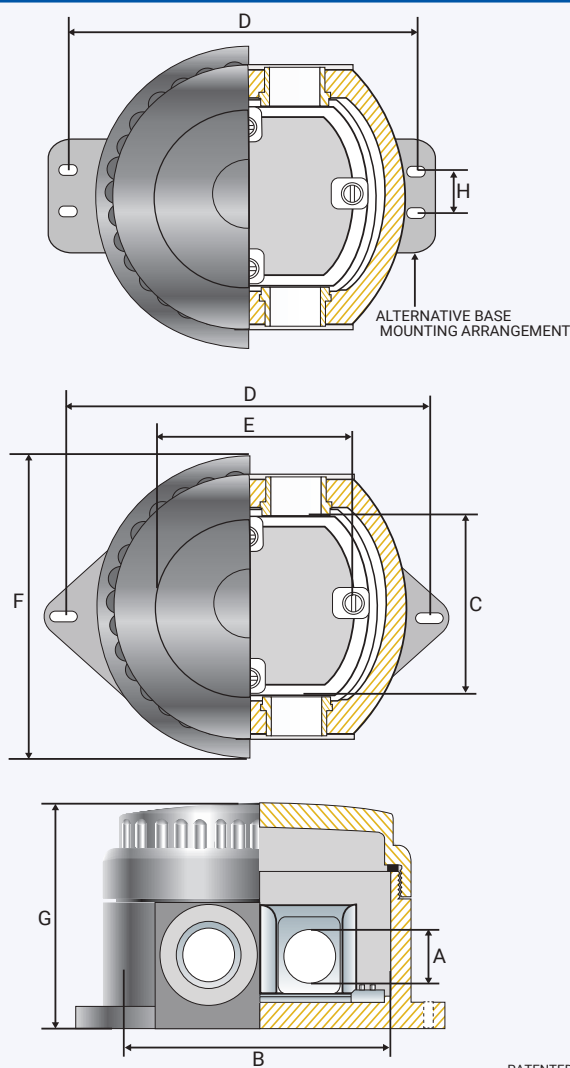
* Different arrangement of entry sizes are available on request as stated above.

H-Box

for general, industrial and mining electrical installations

Tools /Accessories

for general, industrial and mining electrical installations



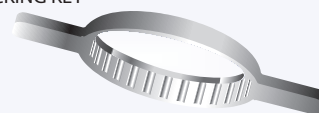
Product Code	Entry Thread 'A'	Internal Dia. 'B'	Distance Between Inserts 'C'	Mounting Centres 'D'	Rail Mounting Centres 'E'	Outer Diameter 'F'	Overall Height 'G'	Distance Between Mounting Holes 'H'
065001-H-M16	*M16	103.0	69.0	130.0	85.0	116.0	93.0	-
065001-H	M20	103.0	69.0	130.0	85.0	116.0	93.0	-
065002-H-M16	*M16	124.0	78.0	148.0	104.0	138.0	110.0	42.0
065002-H-M20	*M20	124.0	78.0	148.0	104.0	138.0	110.0	42.0
065002-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.

Box Spanner (Lid Locking Key)

ADAPTOR LID LOCKING KEY



Product Code	Size Reference
4012-0/1	0/1
401202	2

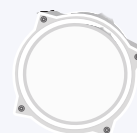
Box Spanner (Lid Locking Key)

ADAPTOR LID LOCKING KEY



Product Code	Size Reference
401203	3

Clear Lid



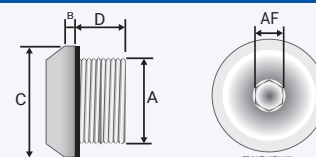
Product Code	Box Size
065001-4SW-CLR	1
065002-4SW-CLR	2
065003-4SW-CLR	3

Pole Mounting Bracket



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

Non Metallic Plugs IP66/68 COMPLETE WITH WASHER



Product Code	Metric Dia 'A'	Metric Dia 'B'	Metric Dia 'C'	Metric Dia 'D'	Hex Size Max A/F	Torque Value Nm
352820	M20x1.5	28.0	22.0	12.0	10.0	7.0
352825	M25x1.5	33.0	25.0	15.0	10.0	9.0
352832	M32x1.5	40.0	35.0	15.0	10.0	12.0

HANDI FIT™ JUNCTION BOX

Wiring and installation instructions for Handi Fit™ Box with 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.

TABLE 1

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

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

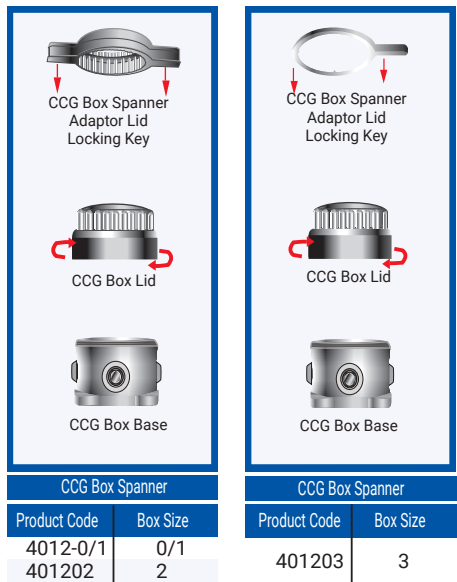


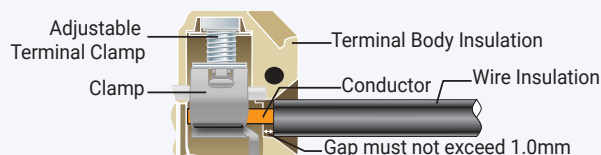
TABLE 2

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

FIGURE 2

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





HANDI FIT™ FIRE RATED

JUNCTION BOX - IP66/68, 950°C, 3-Hours

for Emergency Circuits - Fire Rated

Features and Benefits

- Handi-Fit™ Fire Rated Box for emergency circuits (950°C for 3-hours).
- Screw-on lid provides ease of installation. Lid locking with a special key prevents unauthorized tampering.
- Supplied complete with safety securing lid lanyard.
- Raised domed lid facilitates connections to be made outside of the box.
- Only approved CCG cable glands and terminals must be used.
- No exposed metal parts.
- Dust and waterproof to IP66/68 when used with CCG sealed cable glands.
- No drilling or tapping of cable entries required.
- Mounting studs provided for DIN rail if using Terminal Blocks.
- DIN Rail mounting studs are provided for use with terminal blocks.
- Internal earthing to all entries and rail provided.



Technical Data

Type:	Handi Fit™ 4-Way Fire Rated Junction Box Handi Fit™ Y Fire Rated Junction Box Handi Fit™ H Fire Rated Junction Box
Optional Accessories:	Ceramic Terminals, Insulated Connectors, PTFE Washers, Box Spanner (Lid Locking Key). 4-Blanking plugs are provided
Box Material:	Impact, corrosion and UV resistant glass reinforced polyester compound

Standards and Certifications

Continuous Temperature Rating	60°C to +160°C (Unfinished)	
Continuous Current Rating	32A - 192A	
Impact	7-Joules	
Fire Rated	BS 6387 - 950°C - 3 Hours	
Conformance:	Standard:	Certificate:
IEC/BS/EN	62208:2011	CML 17Y11251
SANS	62208:2012	MASC 16-1787
Impact Protection IK10	IEC/BS/EN 62262	CML 17Y11251
IP66/68 - 2m Protection	IEC/BS/EN 60529	CML 17Y11251
	SANS 60529	MASC 16-1787
Deluge Protection	DTS 01	CML 14CA370-1
Marine Approvals ABS	IEC 60529	ABS 20-SG1952738-PDA
DNV-GL	IEC 60529	DNV-GL TAE0000011
Short Circuit Protection	IEC 60947-7-2, IEC 62444	CATAPULT OR/15/11677_2
Continuous Current Protection	IEC 60947-7-2	CATAPULT OR/15/11677_2
UV Protection	ISO 4892-2	
Zero Halogen	BS7211, BS 50267-2-1	TDW69-09-14
Flammability	UL94V-0	
London Underground Approval	IEC 62208, IEC 62262	LU 3057



Conditions for safe use

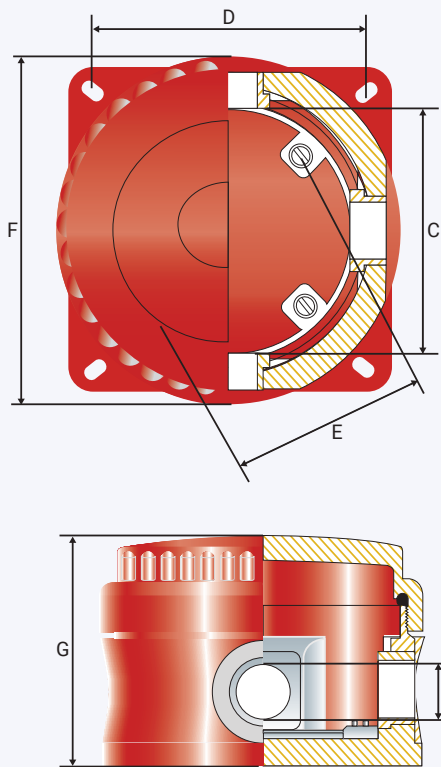
- The CCG lid locking key must be used to open and close Lid.
- Only ceramic terminal blocks or insulated connectors as per the description may be utilised in the junction box. Specific installation conditions as set by the terminal manufacturer/terminal certification must be considered. This includes 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.
- IP66/68 glands and plugs must be used in the threaded entries.
- Information with relation to entries is indicated in the instructions.

Installation instructions for Handi Fit™ Fire Rated Box without 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.
- 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.

4-Way

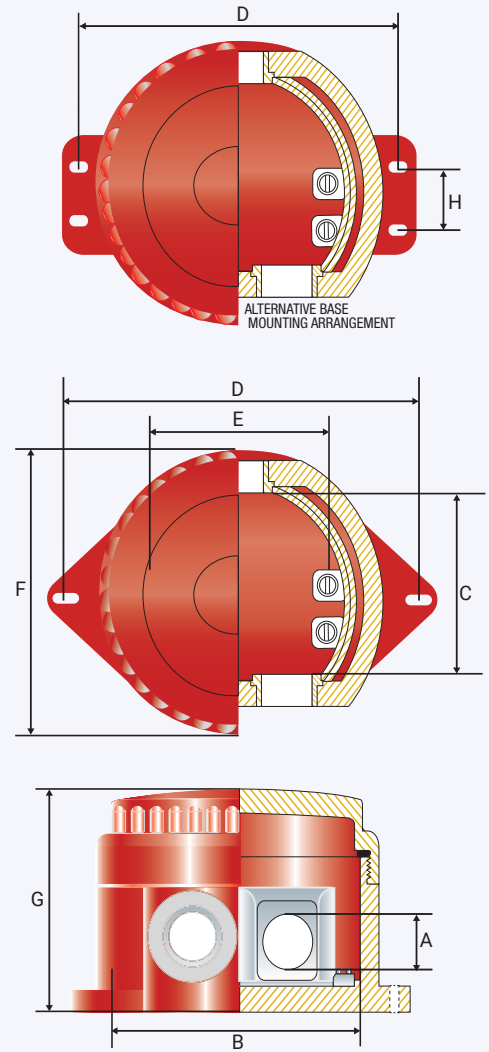
for emergency circuits - fire rated



PATENTED

Y-Box

for emergency circuits - fire rated



PATENTED

Product Code	Entry Thread 'A'	Distance Between Centres 'C'	Mounting Centres 'D'	Rail Mounting Centres 'E'	Outer Diameter 'F'	Overall Height 'G'
0654-0-M16	* M16	71.0	79.0	65.0	100.0	78.0
0654-0	M20	71.0	79.0	65.0	100.0	78.0
065401-M16	* M16	88.0	92.0	80.0	118.0	98.0
065401	M20	88.0	92.0	80.0	118.0	98.0
065402-M16	* M16	108.0	107.0	98.0	140.0	114.0
065402-M20	* M20	108.0	107.0	98.0	140.0	114.0
065402	M25	108.0	107.0	98.0	140.0	114.0
065403-M16	* M16	166.0	167.0	150.0	206.0	142.0
065403-M20	* M20	166.0	167.0	150.0	206.0	142.0
065403-M25	* M25	166.0	167.0	150.0	206.0	142.0
065403	M32	166.0	167.0	150.0	206.0	142.0
065404-M16	* M16	263.0	240.0	246.0	298.0	186.0
065404-M20	* M20	263.0	240.0	246.0	298.0	186.0
065404-M25	* M25	263.0	240.0	246.0	298.0	186.0
065404-M32	* M32	263.0	240.0	246.0	298.0	186.0
065404	M40	263.0	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 Dia. 'F'	Overall Height 'G'	Distance Between Mounting Holes 'H'
0654-0-Y-M16	* M16	84.0	60.0	108.0	62.0	100.0	84.0	-
0654-0-Y	M20	84.0	60.0	108.0	62.0	100.0	84.0	-
065401-Y-M16	* M16	101.0	75.0	132.0	77.0	116.0	94.0	-
065401-Y	M20	101.0	75.0	132.0	77.0	116.0	94.0	-
065402-Y-M16	* M16	123.0	94.0	148.0	95.0	140.0	104.0	42.0
065402-Y-M20	* M20	123.0	94.0	148.0	95.0	140.0	104.0	42.0
065402-Y	M25	123.0	94.0	148.0	95.0	140.0	104.0	42.0
065403-Y-M16	* M16	182.0	150.0	237.0	152.0	205.0	144.0	-
065403-Y-M20	* M20	182.0	150.0	237.0	152.0	205.0	144.0	-
065403-Y-M25	* M25	182.0	150.0	237.0	152.0	205.0	144.0	-
065403-Y	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.

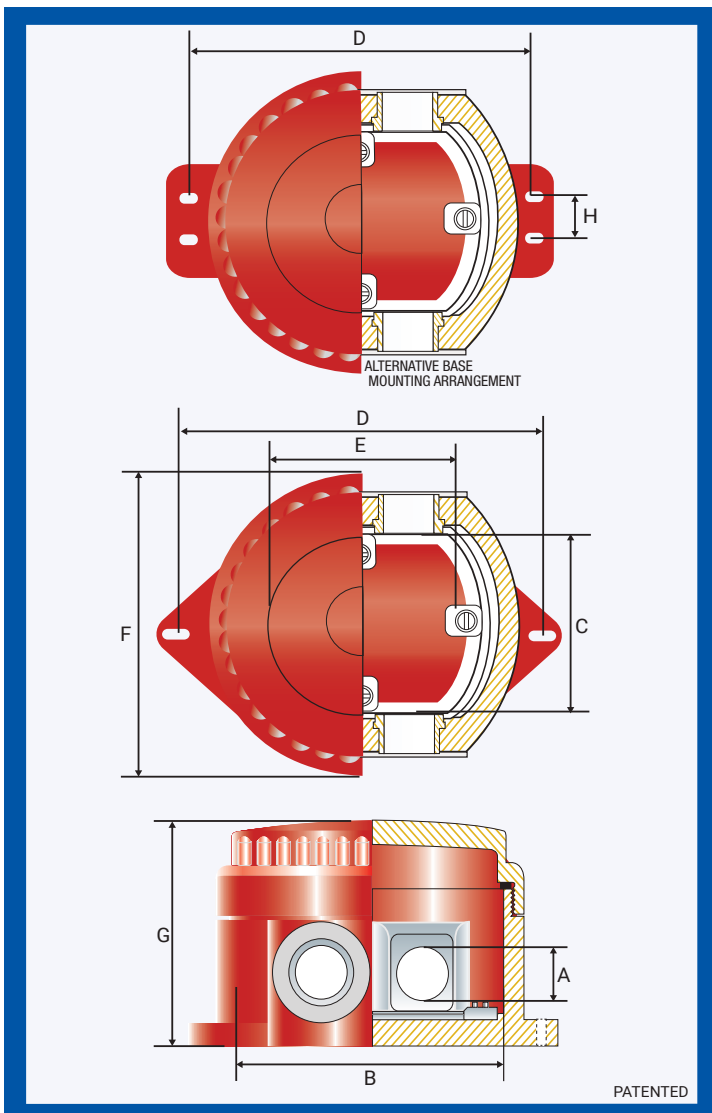
HANDI FIT™ FIRE RATED JUNCTION BOX

H-Box

for emergency circuits - fire rated

Tools /Accessories

for emergency circuits - fire rated



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'
065401-H-M16	*M16	103.0	69.0	130.0	85.0	116.0	93.0	-
065401-H	M20	103.0	69.0	130.0	85.0	116.0	93.0	-
065402-H-M16	*M16	124.0	78.0	148.0	104.0	138.0	110.0	42.0
065402-H-M20	*M20	124.0	78.0	148.0	104.0	138.0	110.0	42.0
065402-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.

Box Spanner (Lid Locking Key)



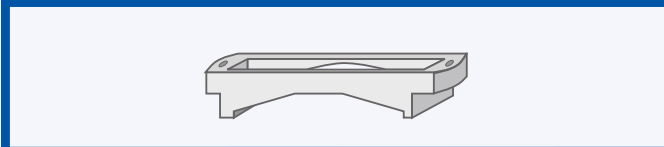
Product Code	Box Size Reference
4012-0/1	M20
401202	M25

Box Spanner (Lid Locking Key)



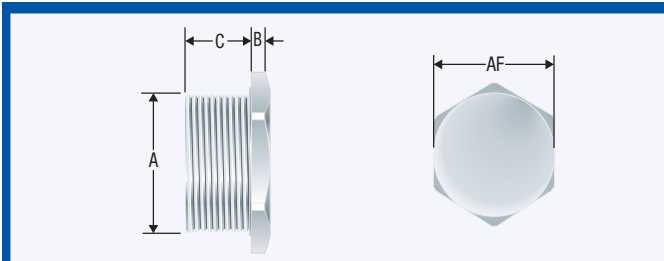
Product Code	Box Size Reference
401203	M32

Pole Mounting Bracket



Product Code	Box Size Reference
401800	M20
401801	M20
401802	M25
401803	M32

Metric - Hex Plug



Product Code	Dimension "A"	Dimension Min "B"	Dimension	Dimension A/F Min *
PHM016E	M16	6.0	16.0	22.0
PHM020E	M20	6.0	16.0	25.0
PHM025E	M25	6.0	16.0	32.0
PHM032E	M32	6.0	16.0	38.0
PHM040E	M40	6.0	16.0	50.0
PHM050E	M50	6.0	16.0	60.0
PHM063E	M63	6.0	16.0	70.0
PHM075E	M75	6.0	16.0	80.0
PHM080E	M80x2P	6.0	20.0	90.0
PHM090E	M90x2P	6.0	20.0	100.0
PHM100E	M100x2P	6.0	20.0	110.0

All dimensions are in mm.

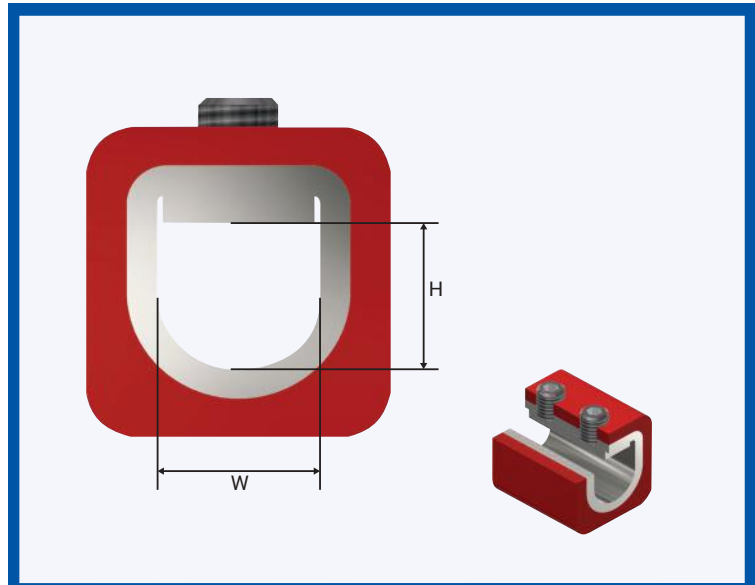
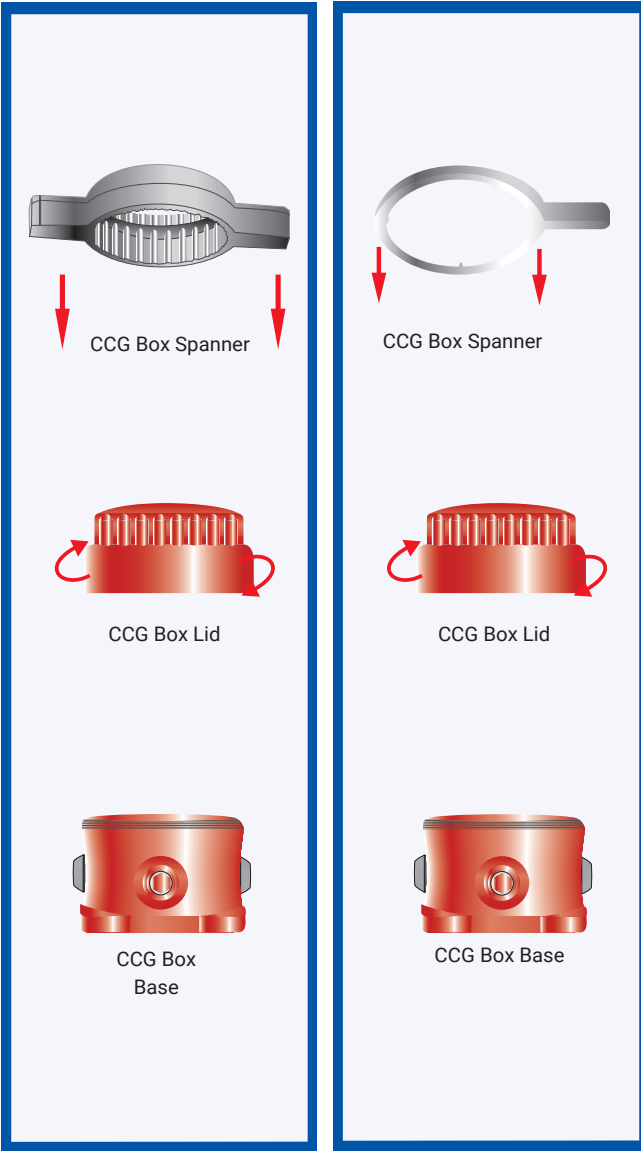
HANDI FIT™ FIRE RATED JUNCTION BOX

Wiring and installation instructions for Handi Fit™ Fire Rated Box with 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 voltage and current value of the box must not be exceeded. See relevant certificate for current limitations for conditions of use / schedule of limitations.
- 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 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



INTERNAL CONNECTOR

Product Code	Size	Width 'W'	Height 'H'
680301	1	10.0	10.0
680302	2	9.5	13.5
680303	3	15.7	14.5
680304	4	15.7	17.6
680305	5	20.7	25.3

Cable Size	mm app. Ø Over Conductor (Below Insulation)	NUMBER OF CORES PER CONNECTOR				
		CONNECTOR				
		Size 1	Size 2	Size 3	Size 4	Size 5
1.5mm ²	1.5	6	9	9	11/12	16/17
2.5mm ²	2.0	5	6	7	8	12
4.0mm ²	2.5	4	5	5/6	7	10
6.0mm ²	3.0	3	4	4/5	5/6	8
10mm ²	4.0	2	3	3/4	4	6
16mm ²	5.0	2	2/3	3	3	5
25mm ²	6.5	1	2	2	2	3/4
35mm ²	7.5	1	1	1/2	2	3
50mm ²	8.5	1	1	1	2	2/3
70mm ²	10.0	1	1	1	1	2
95mm ²	12.0	•	1	1	1	1
120mm ²	13.5	•	1	1	1	1
150mm ²	15.0	•	•	•	1	1
185mm ²	16.5	•	•	•	1	1
240mm ²	19.0	•	•	•	•	1
300mm ²	21.5	•	•	•	•	1
400mm ²	24.0	•	•	•	•	•
500mm ²	27.5	•	•	•	•	•
630mm ²	31.5	•	•	•	•	•

CCG Box Spanner		CCG Box Spanner	
Product Code	Box Size	Product Code	Box Size
4012-0/1	M20 (0/1)	401203	M32 (3)
401202	M25 (2)		



HANDI FIT™ FIRE RATED

JUNCTION BOX - IP66/68, 950°C, 3-Hours

for Emergency Circuits - Fire Rated

Features and Benefits

- Handi-Fit™ Fire Rated Box for emergency circuits (950°C for 3-hours).
- Screw-on lid provides ease of installation. Lid locking with a special key prevents unauthorized tampering.
- Supplied complete with safety securing lid lanyard.
- Raised domed lid facilitates connections to be made outside of the box.
- Only approved CCG cable glands and terminals must be used.
- No exposed metal parts.
- Dust and waterproof to IP66/68 when used with CCG sealed cable glands.
- No drilling or tapping of cable entries required.
- Mounting studs provided for DIN rail if using Terminal Blocks.
- DIN Rail mounting studs are provided for use with terminal blocks.
- Internal earthing to all entries and rail provided.



Technical Data

Type:	Handi Fit™ 4-Way Fire Rated Junction Box Handi Fit™ Y Fire Rated Junction Box Handi Fit™ H Fire Rated Junction Box
Optional Accessories:	Ceramic Terminals, Insulated Connectors, PTFE Washers, Box Spanner (Lid Locking Key). 4-Blanking plugs are provided
Box Material:	Impact, corrosion and UV resistant glass reinforced polyester compound

Standards and Certifications

Continuous Temperature Rating	60°C to +160°C (Unfinished)	
Continuous Current Rating	32A - 192A	
Impact	7-Joules	
Fire Rated	BS 6387 - 950°C - 3 Hours	
Conformance:	Standard:	Certificate:
IEC/BS/EN	62208:2011	CML 17Y11251
SANS	62208:2012	MASC 16-1787
Impact Protection IK10	IEC/BS/EN 62262	CML 17Y11251
IP66/68 - 2m Protection	IEC/BS/EN 60529	CML 17Y11251
	SANS 60529	MASC 16-1787
Deluge Protection	DTS 01	CML 14CA370-1
Marine Approvals ABS	IEC 60529	ABS 20-SG1952738-PDA
DNV-GL	IEC 60529	DNV-GL TAE0000011
Short Circuit Protection	IEC 60947-7-2, IEC 62444	CATAPULT OR/15/11677_2
Continuous Current Protection	IEC 60947-7-2	CATAPULT OR/15/11677_2
UV Protection	ISO 4892-2	
Zero Halogen	BS7211, BS 50267-2-1	TDW69-09-14
Flammability	UL94V-0	
London Underground Approval	IEC 62208, IEC 62262	LU 3057



Conditions for safe use

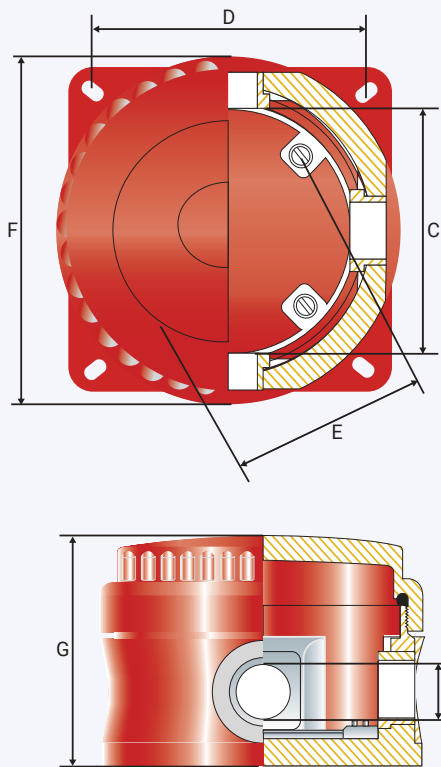
- The CCG lid locking key must be used to open and close Lid.
- Only ceramic terminal blocks or insulated connectors as per the description may be utilised in the junction box. Specific installation conditions as set by the terminal manufacturer/terminal certification must be considered. This includes 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.
- IP66/68 glands and plugs must be used in the threaded entries.
- Information with relation to entries is indicated in the instructions.

Installation instructions for Handi Fit™ Fire Rated Box without 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.
- 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.

4-Way

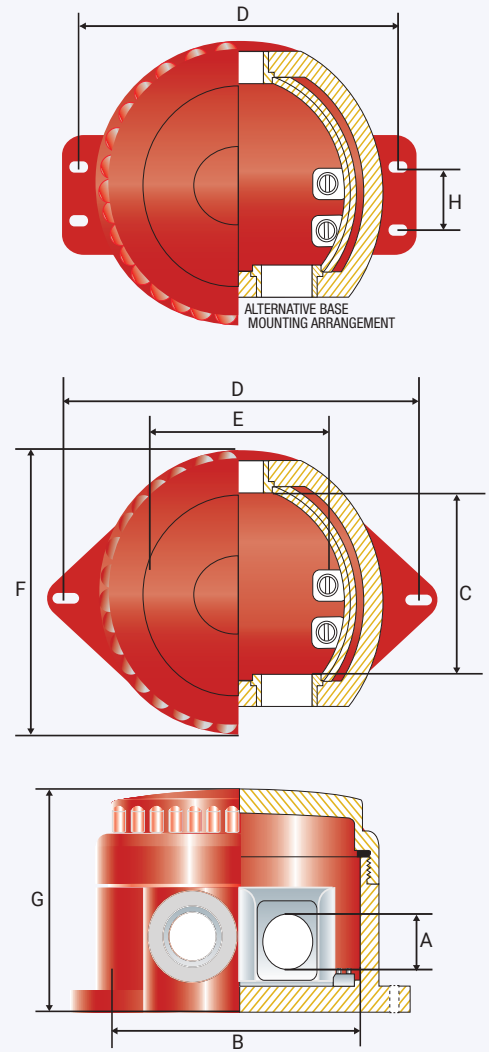
for emergency circuits - fire rated



PATENTED

Y-Box

for emergency circuits - fire rated



PATENTED

Product Code	Entry Thread 'A'	Distance Between Centres 'C'	Mounting Centres 'D'	Rail Mounting Centres 'E'	Outer Diameter 'F'	Overall Height 'G'
0654-0-M16	* M16	71.0	79.0	65.0	100.0	78.0
0654-0	M20	71.0	79.0	65.0	100.0	78.0
065401-M16	* M16	88.0	92.0	80.0	118.0	98.0
065401	M20	88.0	92.0	80.0	118.0	98.0
065402-M16	* M16	108.0	107.0	98.0	140.0	114.0
065402-M20	* M20	108.0	107.0	98.0	140.0	114.0
065402	M25	108.0	107.0	98.0	140.0	114.0
065403-M16	* M16	166.0	167.0	150.0	206.0	142.0
065403-M20	* M20	166.0	167.0	150.0	206.0	142.0
065403-M25	* M25	166.0	167.0	150.0	206.0	142.0
065403	M32	166.0	167.0	150.0	206.0	142.0
065404-M16	* M16	263.0	240.0	246.0	298.0	186.0
065404-M20	* M20	263.0	240.0	246.0	298.0	186.0
065404-M25	* M25	263.0	240.0	246.0	298.0	186.0
065404-M32	* M32	263.0	240.0	246.0	298.0	186.0
065404	M40	263.0	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 Dia. 'F'	Overall Height 'G'	Distance Between Mounting Holes 'H'
0654-0-Y-M16	* M16	84.0	60.0	108.0	62.0	100.0	84.0	-
0654-0-Y	M20	84.0	60.0	108.0	62.0	100.0	84.0	-
065401-Y-M16	* M16	101.0	75.0	132.0	77.0	116.0	94.0	-
065401-Y	M20	101.0	75.0	132.0	77.0	116.0	94.0	-
065402-Y-M16	* M16	123.0	94.0	148.0	95.0	140.0	104.0	42.0
065402-Y-M20	* M20	123.0	94.0	148.0	95.0	140.0	104.0	42.0
065402-Y	M25	123.0	94.0	148.0	95.0	140.0	104.0	42.0
065403-Y-M16	* M16	182.0	150.0	237.0	152.0	205.0	144.0	-
065403-Y-M20	* M20	182.0	150.0	237.0	152.0	205.0	144.0	-
065403-Y-M25	* M25	182.0	150.0	237.0	152.0	205.0	144.0	-
065403-Y	M32	182.0	150.0	237.0	152.0	205.0	144.0	-

All dimensions are in mm.

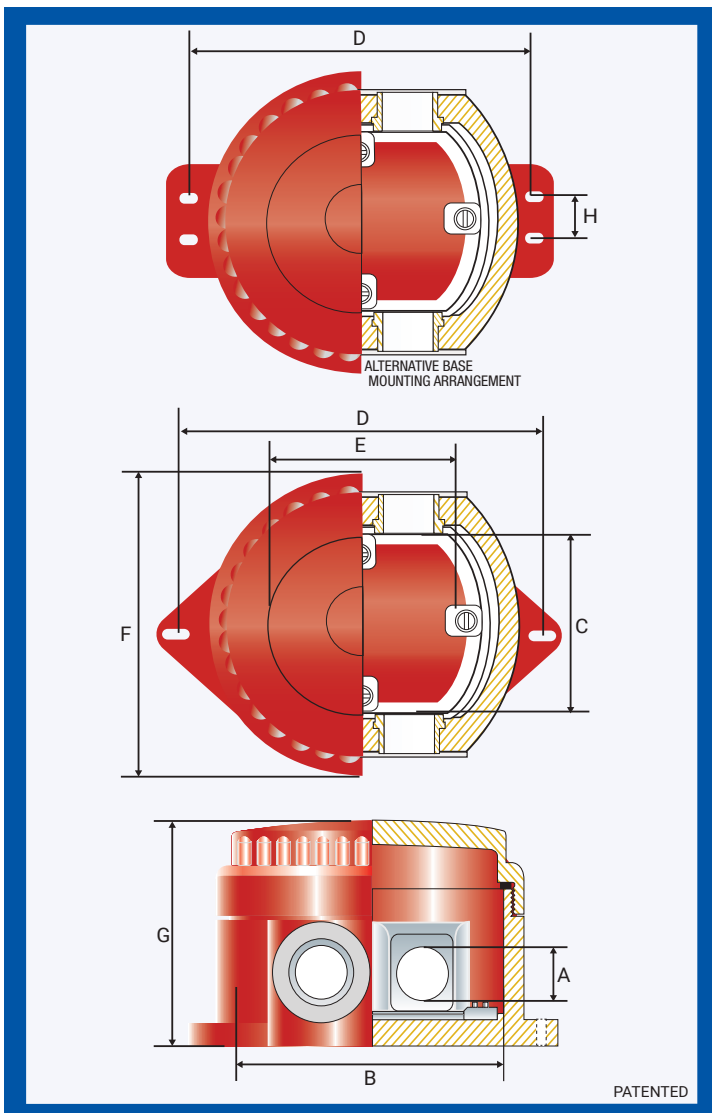
* Different arrangement of entry sizes are available on request as stated above.

H-Box

for emergency circuits - fire rated

Tools /Accessories

for emergency circuits - fire rated



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'
065401-H-M16	*M16	103.0	69.0	130.0	85.0	116.0	93.0	-
065401-H	M20	103.0	69.0	130.0	85.0	116.0	93.0	-
065402-H-M16	*M16	124.0	78.0	148.0	104.0	138.0	110.0	42.0
065402-H-M20	*M20	124.0	78.0	148.0	104.0	138.0	110.0	42.0
065402-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.

Box Spanner (Lid Locking Key)



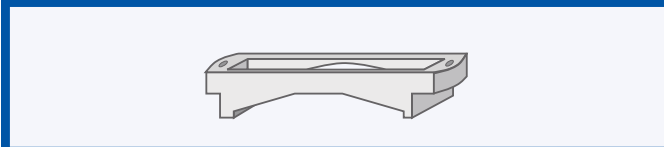
Product Code	Box Size Reference
4012-0/1	M20
401202	M25

Box Spanner (Lid Locking Key)



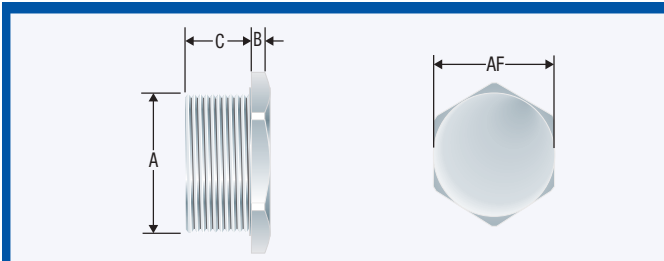
Product Code	Box Size Reference
401203	M32

Pole Mounting Bracket



Product Code	Box Size Reference
401800	M20
401801	M20
401802	M25
401803	M32

Metric - Hex Plug



Product Code	Dimension "A"	Dimension Min "B"	Dimension	Dimension A/F Min *
PHM016E	M16	6.0	16.0	22.0
PHM020E	M20	6.0	16.0	25.0
PHM025E	M25	6.0	16.0	32.0
PHM032E	M32	6.0	16.0	38.0
PHM040E	M40	6.0	16.0	50.0
PHM050E	M50	6.0	16.0	60.0
PHM063E	M63	6.0	16.0	70.0
PHM075E	M75	6.0	16.0	80.0
PHM080E	M80x2P	6.0	20.0	90.0
PHM090E	M90x2P	6.0	20.0	100.0
PHM100E	M100x2P	6.0	20.0	110.0

All dimensions are in mm.

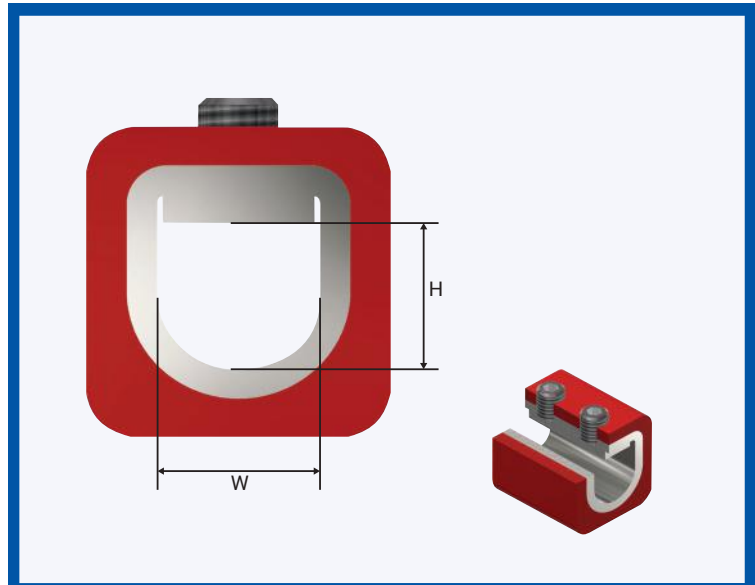
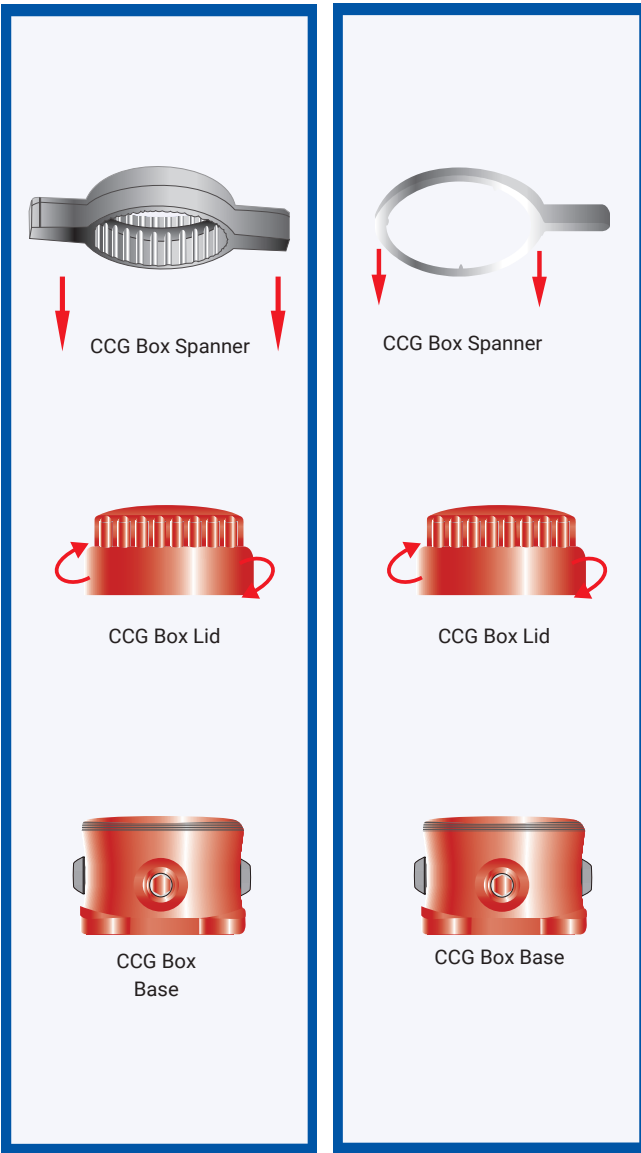
HANDI FIT™ FIRE RATED JUNCTION BOX

Wiring and installation instructions for Handi Fit™ Fire Rated Box with 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 voltage and current value of the box must not be exceeded. See relevant certificate for current limitations for conditions of use / schedule of limitations.
- 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 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



INTERNAL CONNECTOR

Product Code	Size	Width 'W'	Height 'H'
680301	1	10.0	10.0
680302	2	9.5	13.5
680303	3	15.7	14.5
680304	4	15.7	17.6
680305	5	20.7	25.3

Cable Size	mm app. Ø Over Conductor (Below Insulation)	NUMBER OF CORES PER CONNECTOR				
		CONNECTOR				
		Size 1	Size 2	Size 3	Size 4	Size 5
1.5mm ²	1.5	6	9	9	11/12	16/17
2.5mm ²	2.0	5	6	7	8	12
4.0mm ²	2.5	4	5	5/6	7	10
6.0mm ²	3.0	3	4	4/5	5/6	8
10mm ²	4.0	2	3	3/4	4	6
16mm ²	5.0	2	2/3	3	3	5
25mm ²	6.5	1	2	2	2	3/4
35mm ²	7.5	1	1	1/2	2	3
50mm ²	8.5	1	1	1	2	2/3
70mm ²	10.0	1	1	1	1	2
95mm ²	12.0	•	1	1	1	1
120mm ²	13.5	•	1	1	1	1
150mm ²	15.0	•	•	•	1	1
185mm ²	16.5	•	•	•	1	1
240mm ²	19.0	•	•	•	•	1
300mm ²	21.5	•	•	•	•	1
400mm ²	24.0	•	•	•	•	•
500mm ²	27.5	•	•	•	•	•
630mm ²	31.5	•	•	•	•	•

CCG Box Spanner		CCG Box Spanner	
Product Code	Box Size	Product Code	Box Size
4012-0/1	M20 (0/1)	401203	M32 (3)
401202	M25 (2)		

BOTTOM ENTRY SWITCH BOX

IP66 - 16 Amp

for General Industrial and Mining Electrical Installations



Features and Benefits

- Combined switch and junction box for lighting.
- For safer quicker maintenance of light fittings.
- Twin pole switch to break live and neutral circuits.
- Isolates each individual light.
- Visible red rotary switch.
- Padlock lockout facility for safety.
- Transparent IP66 cover to protect switch from grit and grime.
- 3-Metal threaded bottom gland entries.
- Rail mounted terminals or snap connectors available.



Technical Data

Type:	Bottom Entry Switch Box™		
Rated Amps:	16A		
Rated Voltage:	240V		
Service Temperature:	-10°C to +70°C		
Box Material:	UV Resistant Glass Reinforced Polyester		
Switch Material:	Metal and Bakelite Housing, UV Resistant ABS Handle		
Earthing Material:	Nickel Plated Brass Inserts and Earth Plate		
Optional Accessories:	Certified Terminals, 3-Blanking Plugs and Box Spanner (Lid Locking Key)		

Standards and Certifications

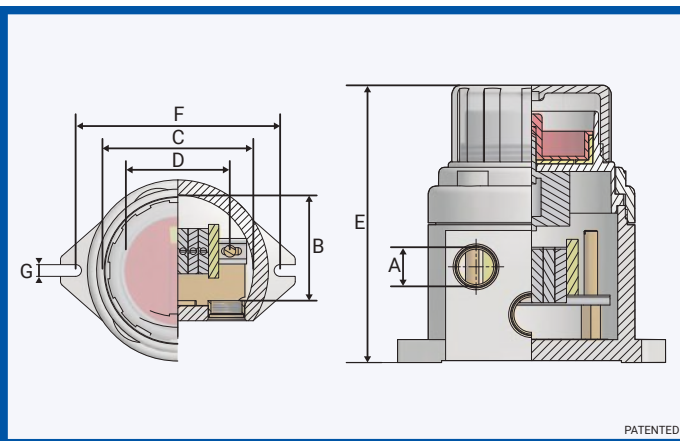
Low Voltage:	IEC 60947-3	
Air-Break Switch:	AS/NZS 3133	0619CCGA1202_3133
IP66:	IEC 60529	MASC 17-1832



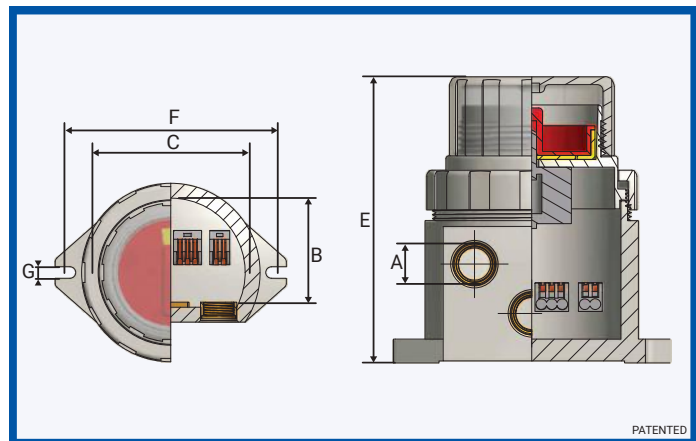
Installation instructions for Bottom Entry Switch Box

- Installation must be carried out by a competent person.
- The switch box must not be modified in any way, as this will invalidate the certification.
- Where cables enter the box they must be secured by IP rated CCG Cable Glands appropriate to the make up of the cable.
- To maintain IP66 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 switch box, refer Figure 1.

Switch Box with Rail Mounted Terminals



Switch Box with Connectors



Switch Box with Rail Mounted Terminals

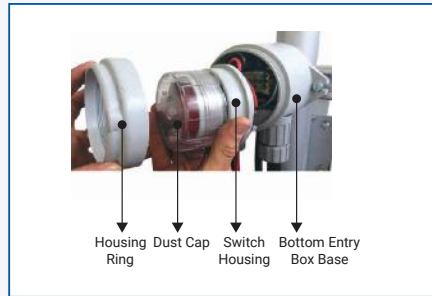
Product Code	Box Size Reference	Entry Thread 'A'	Internal Diameter 'B'	Distance Between Centres 'C'	Mounting Centres 'D'	Protrusion Length "E"	Base Mounting Centres "F"	Dimension "G"
065701A04P46P04B	20mm	M20 x 1.5	62.0	90.0	60.0	145.0	125.0	70.0

All dimensions are in mm.

Switch Box with Connectors

Product Code	Box Size Reference	Entry Thread 'A'	Internal Diameter 'B'	Distance Between Centres 'C'	Protrusion Length "E"	Base Mounting Centres "F"	Dimension "G"
065701C02F23N00B	20mm	M20 x 1.5	62.0	90.0	145.0	125.0	70.0

All dimensions are in mm.

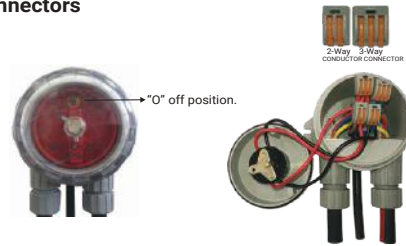


1A with terminals



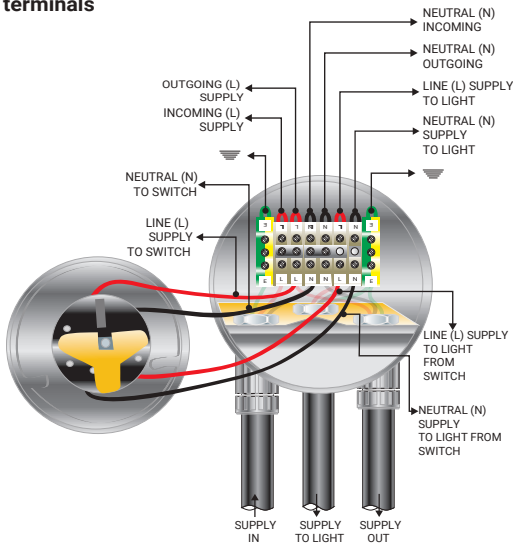
1. Unscrew the housing ring and remove the switch assembly.

1B with connectors



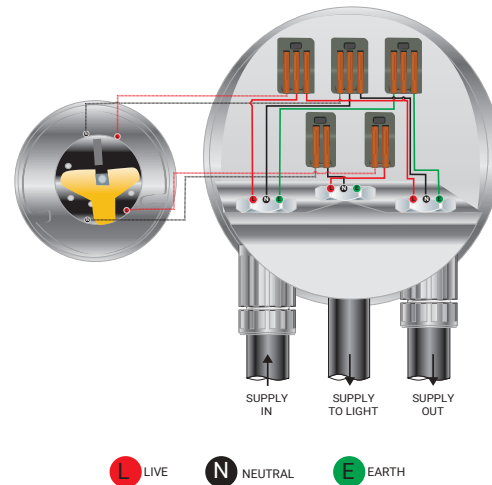
1. Unscrew the housing ring and remove the switch assembly.

2A with terminals



2. Use a terminal screw driver to connect the live and neutral fly leads to the base of the terminals as indicated above.

2B with connectors



2. Connect the live and neutral fly leads to the base of the conductor connectors as indicated above.

3



3. Replace the switch assembly, ensure that the off position "O" is on top.

4



4. Use a CCG Box Spanner to tighten the housing ring and ensure that the switch assembly remains in the vertical position.

5



5. Unscrew the dust protection cap and turn the switch to the on position "I".

6



6. Hand tighten the dust protection cap.

7



7. The switch is supplied with a lockout facility which can be utilized when switching off the supply to the load as indicated.

MULTI BOX

JUNCTION BOX - IP66/68

for General Industrial and Mining Electrical Installations

Features and Benefits

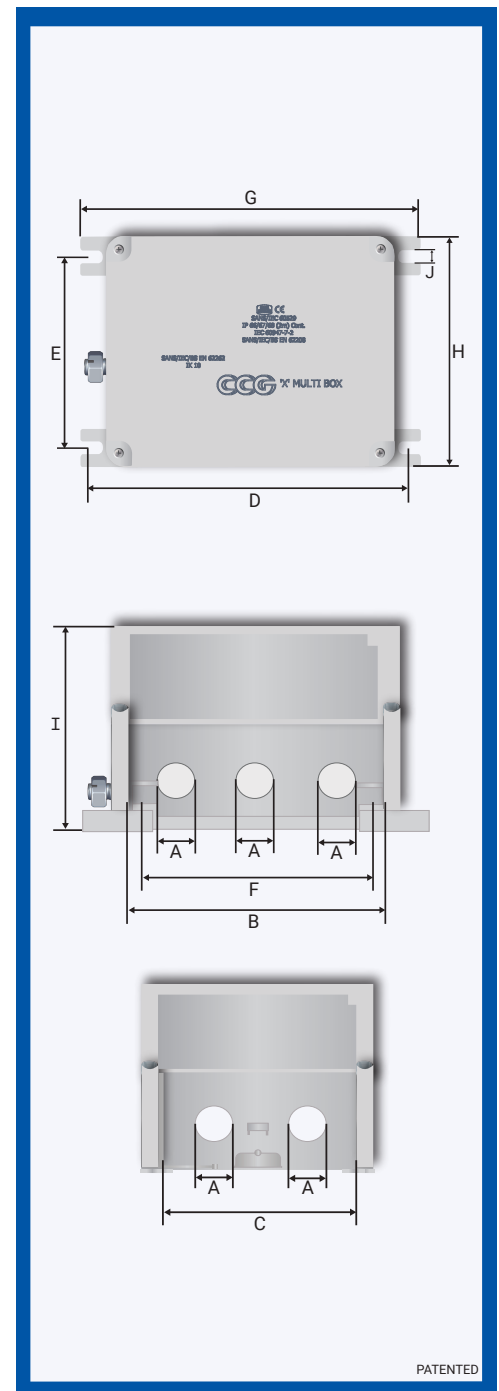
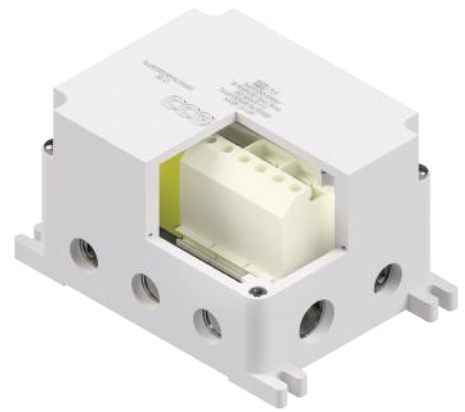
- Multi Box for use in industrial mining applications.
- High-temperature resistance, corrosion-resistant and anti-static properties.
- Raised lid facilitates connections to be made clear of the box base.
- A lid with captive screws provides ease of installation and a special key prevents unauthorized tampering.
- Supplied complete with safety securing lid lanyard.
- Only approved CCG cable glands must be used.
- DIN Rail mounting studs are provided for use with terminal blocks.
- Dust and watertight to IP66/68, when fitted with CCG sealed cable glands.
- No drilling of the cable entries required.
- Internal earthing to all entries and rail.

Technical Data

Type:	Multi Box
Box Material:	Impact corrosion and UV resistant glass reinforced polyester compound. O ring seals: Silicone or Sarlink seals. Terminals: Wellamid or Wemidd
Optional Accessories:	Terminals. Blanking plugs are provided
Note:	The installer should check that the materials are suitable for the installation environment.

Standards and Certifications

Service Temperature:	-60°C to +110°C	
Conformance:	Standard:	Certificate:
IEC/BS/EN	62208:2011	CML 17Y11251
SANS	62208:2012	MASC 16-1787
Impact Protection IK10	IEC/BS/EN 62262	CML 17Y11251
IP66/68 - 2m Protection	IEC/BS/EN 60529	CML 17Y11251
	SANS 60529	MASC 16-1787
Short Circuit Protection	IEC 60947-7-2, IEC 62444	CATAPULT OR/15/11677_2
Continuous Current Protection	IEC 60947-7-2	CATAPULT OR/15/11677_2
UV Protection	ISO 4892-2	
Zero Halogen	BS7211, BS 50267-2-1	TDW69-09-14
Flammability	UL94V-0	



Conditions for safe use

- Terminal blocks shall only be used on the applicable rail and shall allow sufficient space to make connections and to close the cover / lid.
- The current in the Multi box is limited by the size of the conductor and shall not exceed the voltage as per Table 2.

Product Code	Entry Thread 'A' (Multiple Configurations)	Inside Dim 'B'	Inside Dim 'C'	Mounting Centres 'D'	Mounting Centres 'E'	Rail Mounting Centres 'F'	Overall Length 'G'	Overall Width 'H'	Overall Height 'I'	Mounting Groove Width 'J'
06580B	M16 to M32	144.0	111.0	176.0	110.0	126.0	196.0	132.0	109.0	7.0
06580C	M16 to M40	210.0	179.0	254.0	171.0	188.0	278.0	200.0	117.0	8.5

All dimensions are in mm.

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.

MultiBox-JB300421

MULTI BOX

Wiring and Installation instructions for Multi Box with 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 1.
- 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 screwdriver 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 makeup 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.

TABLE 1

Box Type	Terminal Type and Size	Max Quantity	Rail Size
Multi Box B	2.5mm ²	20.0	35.0
Multi Box B	4mm ² mini terminal	14.0	15.0
Multi Box B	4mm ²	16.0	35.0
Multi Box B	6mm ²	12.0	35.0
Multi Box B	10mm ²	12.0	35.0
Multi Box B	16mm ²	10.0	35.0
Multi Box B	35mm ²	6.0	35.0
Multi Box B	50mm ²	6.0	35.0
Multi Box B	70mm ²	5.0	35.0
Multi Box C	2.5mm ²	46.0	35.0
Multi Box C	4mm ² mini terminal	35.0	15.0
Multi Box C	4mm ²	32.0	35.0
Multi Box C	6mm ²	28.0	35.0
Multi Box C	10mm ²	23.0	35.0
Multi Box C	16mm ²	18.0	35.0
Multi Box C	35mm ²	14.0	35.0
Multi Box C	50mm ²	12.0	35.0
Multi Box C	70mm ²	10.0	35.0
Multi Box C	95/120mm ²	6.0	35.0

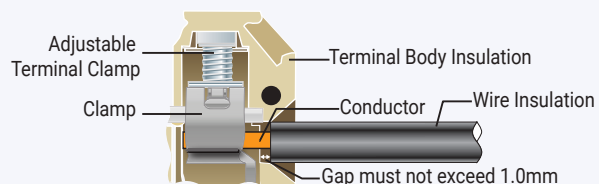
TABLE 2

VOLTAGE PER TERMINAL CONFIGURATION

Terminals	Volt	Earth Terminals
AKZ 4	400V	AKE 4
WDU 2.5	800V	WPE 2.5
WDU 4	800V	WPE 4
WDU 6	800V	WPE 6
WDU 10	1000V	WPE 10
WDU 16	1000V	WPE 16
WDU 35	1000V	WPE 35
WDU 70 N	1000V	WPE 70 N

FIGURE 1

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



3-WAY BOTTOM ENTRY™

JUNCTION BOX - IP66/68

for General Industrial and Mining Electrical Installations

Features and Benefits

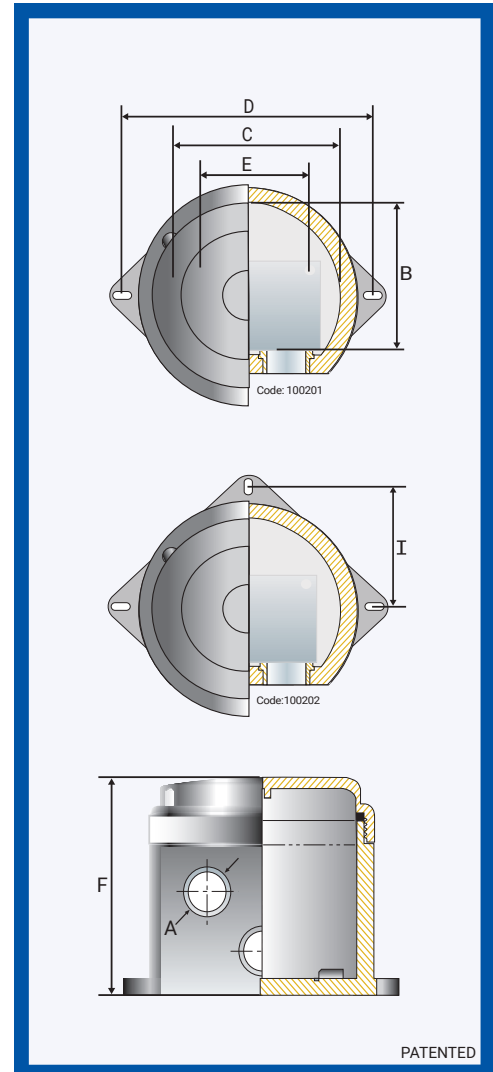
- 3-Way Bottom Entry™ Box for general industrial and mining electrical installations.
- Screw-on lid provides ease of installation. Lid locking with a special key prevents unauthorized tampering.
- Supplied complete with safety securing lid lanyard.
- Only approved CCG cable glands and terminals must be used.
- No exposed metal parts.
- Dust and waterproof to IP66/68 when used with CCG sealed cable glands.
- No drilling or tapping of cable entries required.
- Mounting studs provided for DIN rail if using terminal blocks.
- Internal earthing to all entries and rail provided.
- Red Fire Rated Box for emergency circuits available (925°C for 3-hours).

Technical Data

Type:	3-Way Bottom Entry™ Box	
Box Material:	Impact corrosion and UV resistant glass reinforced polyester compound	
Seal Material:	Nitrile Rubber	
Inserts:	Brass internal earthing and rail mountings	
Optional Accessories:	Certified Terminals, 3-Blanking Plugs and Box Spanner (Lid Locking Key)	

Standards and Certifications

Service Temperature:	-60°C to +110°C (Unfinished)	
Conformance:	Standard:	Certificate:
IEC/BS/EN	62208:2011	CML 17Y11251
SANS	62208:2012	MASC 16-1787
Impact Protection IK10	IEC/BS/EN 62262	CML 17Y11251
IP66/68 - 2m Protection	IEC/BS/EN 60529	CML 17Y11251
	SANS 60529	MASC 16-1787
Deluge Protection	DTS 01	CML 14CA370-1
Marine Approvals ABS	IEC 60529	ABS 20-SG1952738-PDA
DNV-GL	IEC 60529	DNV-GL TAE0000011
Short Circuit Protection	IEC 60947-7-2, IEC 62444	CATAPULT OR/15/11677_2
Continuous Current Protection	IEC 60947-7-2	CATAPULT OR/15/11677_2
UV Protection	ISO 4892-2	
Zero Halogen	BS7211, BS 50267-2-1	TDW69-09-14
Flammability	UL94V-0	
London Underground Approval	IEC 62208, IEC 62262	LU 3057



Conditions safe use

- The CCG supplied tool must be used to open and close units that do not utilize the locking screw on the cover / lid.
- 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.
- Suitably certified glands / plugs must be used in the threaded entries.
- Information with regards to entries is indicated on the instructions.

Product Code	Box Size Reference	Entry Thread 'A'	Internal Dimension 'B'	Internal Diameter 'C'	Mounting Centres 'D'	Rail Mounting Centres 'E'	Outer Height 'F'	Dim. 'I'
100201	1	M20 x 1.5	61.0	90.0	125.0	60.0	112.0	-
100202	2	M25 x 1.5	100.0	123.0	162.0	92.0	160.0	81.0

All dimensions are in mm.

Fixing Holes - use with M6 hold down bolt.

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.

3WAYBE-JB140420

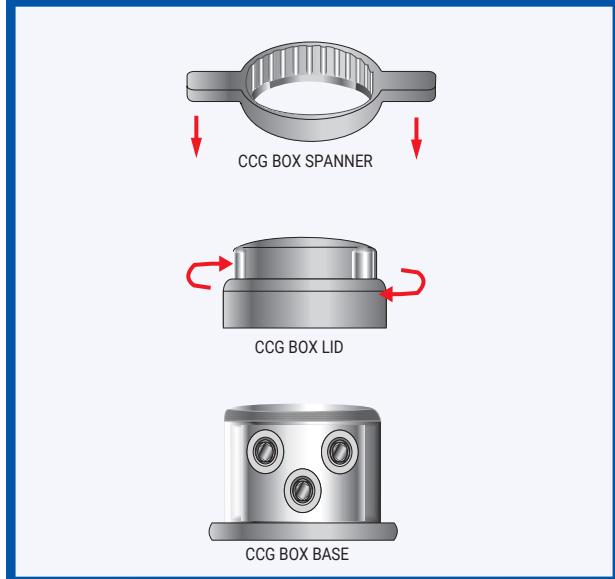
3-WAY BOTTOM ENTRY™ JUNCTION BOX

Wiring and Installation instructions for 3-Way Bottom Entry™ Box with 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, refer Table 2
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.

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).



CCG Box Spanner

Product Code	Box Size
401501	20mm
401502	25mm

TABLE 1

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

TABLE 2

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

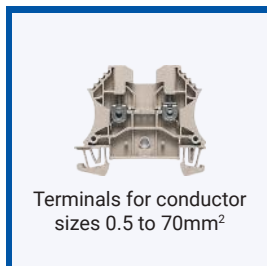
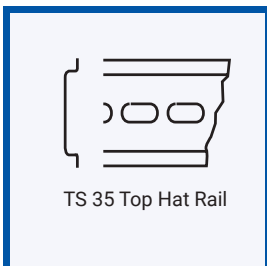
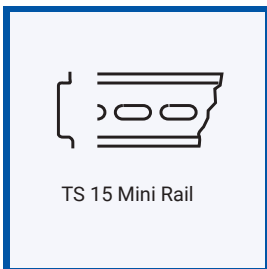
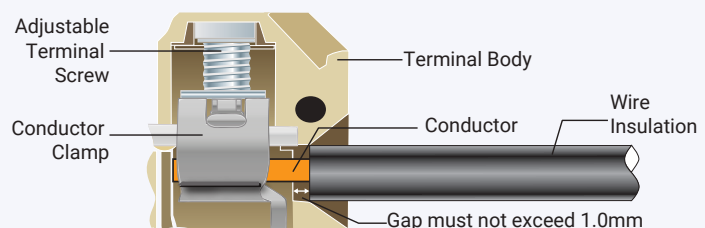


FIGURE 2

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



UTILITY[®] BOX

IP66/68

for General Industrial Electrical Installations

Features and Benefits

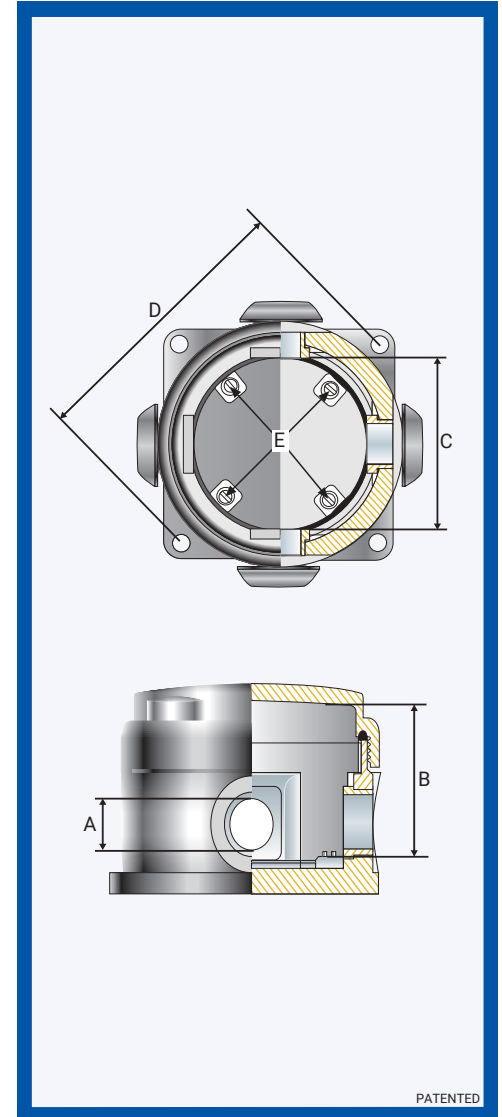
- Utility[®] Box for general industrial and mining electrical installations.
- Screw-on lid provides ease of installation. Lid locking with a special key prevents unauthorized tampering.
- Supplied complete with safety securing lid lanyard.
- Only approved CCG cable glands and terminals must be used.
- No exposed metal parts.
- Dust and waterproof to IP66/68 when used with CCG sealed cable glands.
- No drilling or tapping of cable entries required.
- Mounting studs provided for DIN rail if using terminal blocks.
- Internal earthing to all entries and rail provided.
- One box offers 1, 2, 3 or 4 way versatility (reduced stock holding).

Technical Data

Type:	Utility [®] Box
Box Material:	Impact corrosion and UV resistant glass reinforced polyester compound
Seal Material:	Nitrile Rubber
Inserts:	Brass, internal earth continuity ring and earth stud provided
Optional Accessories:	Certified Terminals and Box Spanner (Lid Locking Key) 4-Blanking plugs are provided

Standards and Certifications

Service Temperature:	-60°C to +110°C (Unfinished)	
Conformance:	Standard:	Certificate:
Australian/New Zealand/IEC	AS 2380.1, 6, 9, AS2336	ANZEx 08.2001
IEC/BS/EN	62208:2011	CML 17Y11251
SANS	62208:2012	MASC 16-1787
Impact Protection IK10	IEC/BS/EN 62262	CML 17Y11251
IP66/68- 2m Protection	IEC/BS/EN 60529	CML 17Y11251
	SANS 60529	MASC 16-1787
Deluge Protection	DTS 01	CML 14CA370-1
Marine Approvals ABS	IEC 60529	ABS 20-SG1952738-PDA
DNV-GL	IEC 60529	DNV-GL TAE0000011
Short Circuit Protection	IEC 60947-7-2, IEC 62444	CATAPULT OR/15/11677_2
Continuous Current Protection	IEC 60947-7-2	CATAPULT OR/15/11677_2
UV Protection	ISO 4892-2	
Zero Halogen	BS7211, BS 50267-2-1	TDW69-09-14
Flammability	UL94V-0	
London Underground Approval	IEC 62208, IEC 62262	LU 3057



Conditions 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 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.
- IP66/68 glands / plugs must be used in the threaded entries.
- Information with relation to entries is indicated in the instructions.

Product Code	Box Size Reference	Entry Thread 'A'	Between Centres 'B'	Internal Diameter 'C'	Mounting Centres 'D'	Rail Mounting Centres 'E'
102101	20mm	M20	62.0	80.0	120.0	70.0
102102	25mm	M25	66.0	108.0	150.0	97.0

All dimensions are in mm.

* 2 Mounting Holes

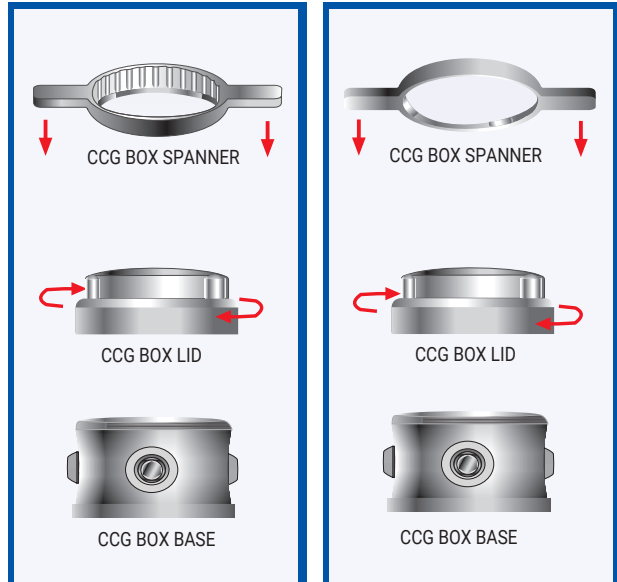
** 4 Mounting Holes

Wiring and Installation instructions for Utility[®] Box with 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, refer Table 2 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.

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).



CCG Box Spanner

Product Code	Box Size	Product Code	Box Size
401501	20mm	401502	25mm

TABLE 1

Box Type	Box Size	Terminal Type and Size	Max Quantity	Rail Size
Utility [®] Box	20mm	4mm ² mini terminal	6	15
Utility [®] Box	25mm	AKZ4	14	15
		WDU2.5	12	35
		WDU4	10	35
		WDU6	8	35
		WDU10	5	35

TABLE 2

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

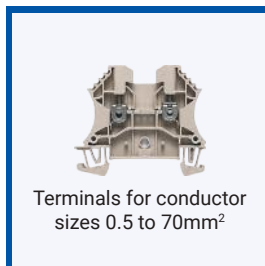
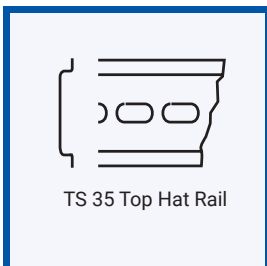
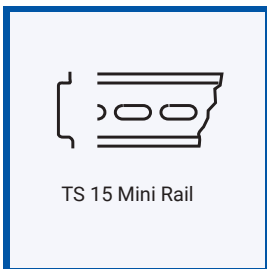
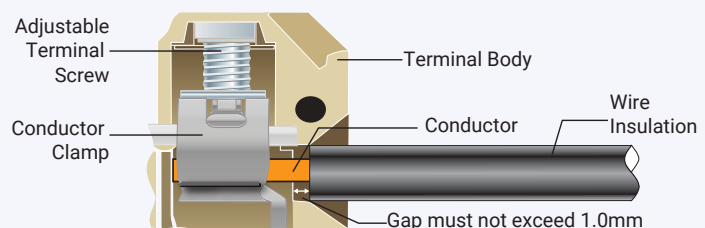


FIGURE 2

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



ROOF BOX AND FOUNDATION BOX

for General Industrial Electrical Installations

Features and Benefits

- For overhead or foundation single-phase electrical municipal service connections.
- Foundation Box is mounted against a foundation wall.
- Roof Box is mounted through corrugated iron or asbestos type roof sheeting.
- Screw-on lid provides ease of installation. Lid locking with a special key prevents unauthorized tampering.
- Terminal connectors and integral earth connector supplied with Roof Box.
- Only approved CCG cable glands and terminals must be used.
- No drilling or tapping of cable entries required.
- No exposed metal parts.

Technical Data

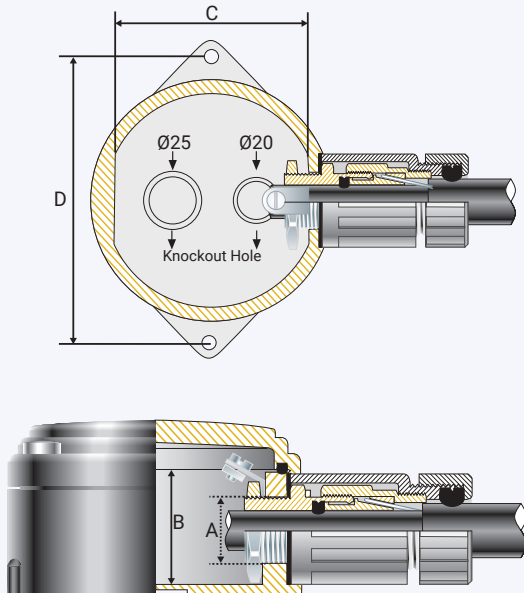
Type:	Roof Box and Foundation Box
Box Material:	Impact, corrosion and UV resistant glass reinforced polyester compound
Seal Material:	Low Temperature. Nitrile Rubber
Inserts:	Brass
Optional Accessories:	Box Spanner (Lid Locking Key) Blanking plugs are provided

Guidelines for Correct Use

- Installation must be carried out by a competent person.
- IP66/68 glands / plugs must be used in the threaded entries.
- A thread seal gasket between the box and cable gland must be installed.
- The box must not be modified in any way.
- 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.
- 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.



Foundation Box

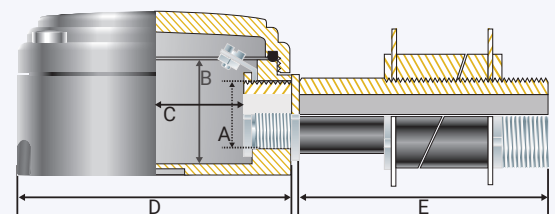


Knock-out holes provide for conduit entry at rear of box.

Product Code	Box Reference Size	Entry Thread 'A'	Clear Inside Height 'B'	Clear Inside Distance 'C'	Mounting Holes 'D'
102401	1	M20	64.0	86.0	127.0
102402	2	M25	64.0	86.0	127.0

All dimensions are in mm.

Roof Box

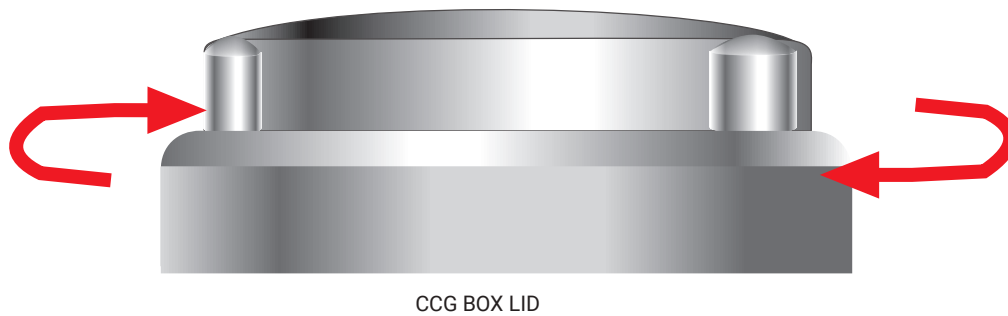
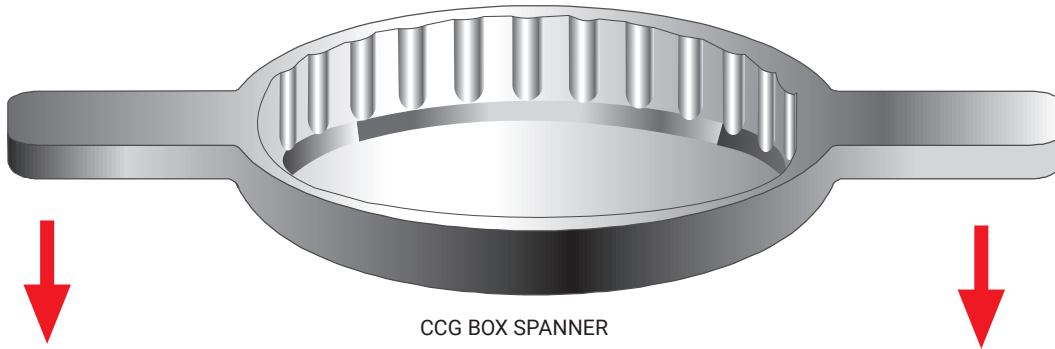


Product Code	Entry Thread 'A'	Clear Inside Height 'B'	Clear Inside Distance 'C'	Overall Width 'D'	Stem Protrusion 'E'
102700	M25	64.0	87.0	110.0	97.2

All dimensions are in mm.

ROOF BOX AND FOUNDATION BOX

To make the box apparatus tamper-proof, screw on, tighten and lock the lid in place by means of a CCG Box Spanner (Lid locking key).



CCG BOX SPANNER

Product Code	Box Size
401501	20mm
401502	25mm

ROOF BOX AND FOUNDATION BOX

for General Industrial Electrical Installations

Features and Benefits

- For overhead or foundation single-phase electrical municipal service connections.
- Foundation Box is mounted against a foundation wall.
- Roof Box is mounted through corrugated iron or asbestos type roof sheeting.
- Screw-on lid provides ease of installation. Lid locking with a special key prevents unauthorized tampering.
- Terminal connectors and integral earth connector supplied with Roof Box.
- Only approved CCG cable glands and terminals must be used.
- No drilling or tapping of cable entries required.
- No exposed metal parts.

Technical Data

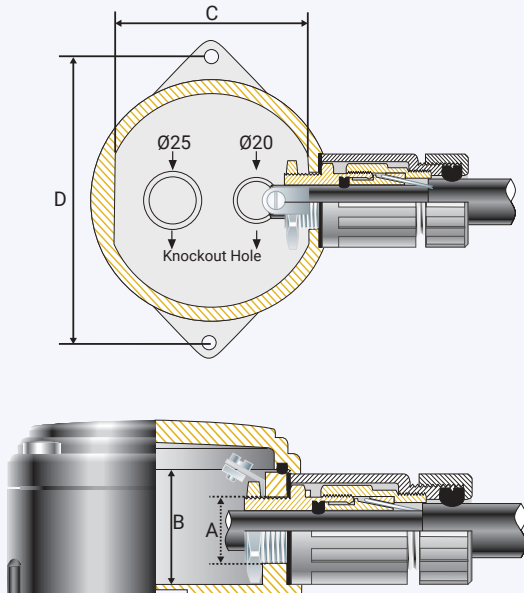
Type:	Roof Box and Foundation Box
Box Material:	Impact, corrosion and UV resistant glass reinforced polyester compound
Seal Material:	Low Temperature. Nitrile Rubber
Inserts:	Brass
Optional Accessories:	Box Spanner (Lid Locking Key) Blanking plugs are provided

Guidelines for Correct Use

- Installation must be carried out by a competent person.
- IP66/68 glands / plugs must be used in the threaded entries.
- A thread seal gasket between the box and cable gland must be installed.
- The box must not be modified in any way.
- 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.
- 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.



Foundation Box

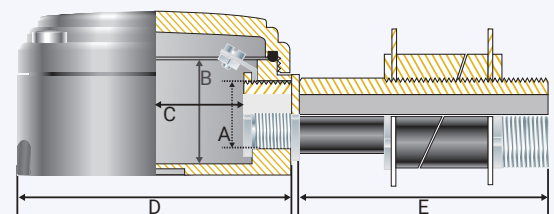


Knock-out holes provide for conduit entry at rear of box.

Product Code	Box Reference Size	Entry Thread 'A'	Clear Inside Height 'B'	Clear Inside Distance 'C'	Mounting Holes 'D'
102401	1	M20	64.0	86.0	127.0
102402	2	M25	64.0	86.0	127.0

All dimensions are in mm.

Roof Box

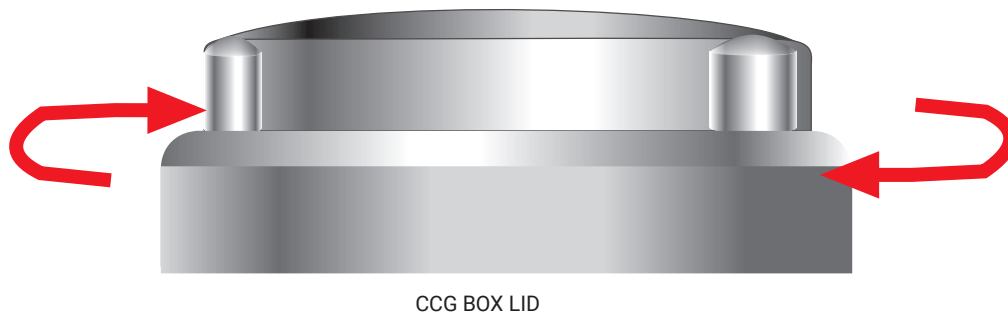
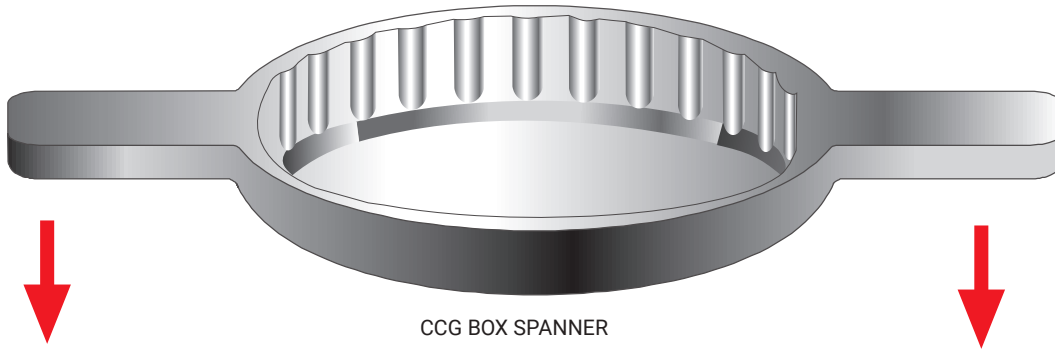


Product Code	Entry Thread 'A'	Clear Inside Height 'B'	Clear Inside Distance 'C'	Overall Width 'D'	Stem Protrusion 'E'
102700	M25	64.0	87.0	110.0	97.2

All dimensions are in mm.

ROOF BOX AND FOUNDATION BOX

To make the box apparatus tamper-proof, screw on, tighten and lock the lid in place by means of a CCG Box Spanner (Lid locking key).



CCG BOX SPANNER

Product Code	Box Size
401501	20mm
401502	25mm