

SCREW FIT

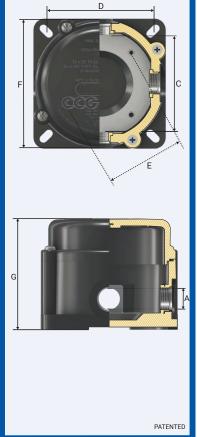
4-WAY JUNCTION BOX - Ex eb I, Ex eb IIC, Ex ec IIC, Ex tb IIIC

for Hazardous Area Installations

Features and Benefits Screw Fit 4-Way Box for use in Group I mining (low impact areas), Group II and Group III applications. High-temperature resistance, corrosion resistant and anti-static properties.

 20mm Box supplied com 	plete with safety securing lid lanyard.					
	ites connections to be made outside of e glands and terminals must be used. N					
	P66/68, when used with CCG sealed ca					
 No drilling or tapping of 						
	d for DIN rail if using Terminal Blocks.					
 Internal earthing to all er Screw Fit 4-Way Box car 	be buried for extended periods.					
 Red Fire Rated Box for e 	mergency circuits available (925°C for 3	3-hours).				
Technical Data		, í				
Гуре:	Screw Fit 4-Way - Ex					
Box Material:	Impact corrosion and UV resistant glass reinforced polyester compound					
	Polycarbonate (see-through adapt-					
Optional Accessories:	O ring seals: Silicone or Sarlink seals. Terminals: Wellamid or Wemidd					
optional Accessories.	Ex Certified Terminals (see conditions on safe use-x), Box Spanner (Lid Locking Key). Blanking plugs are provided.					
Note:	The installer should check that the materials are suitable for the installation					
	environment					
Standards and Certific	ations					
quipment Protection Leve	ls: SANS: (Finished) Ex e IIC T6 Gb / Ex i		b			
	SANS: (Unfinished) Ex e IIC Gb / Ex n					
	IECEX/INMETRO: (Finished) Ex eb I M IIIC T70°C Db / Ex tc IIIC T70°C Dc	D / EX ED IIC 16 GD / EX EC IIC 16	GC / EX LD			
	IECEX/INMETRO: (Unfinished) Ex eb I	Mb / Ex eb IIC Gb / Ex ec IIC Gc	/			
	Ex tb IIIC Db / Ex tc IIIC Dc					
	ATEX/UKEX: (Finished) 🖾 I M2 / II 2	ATEX/UKEX: (Finished) 🖾 I M2 / II 2 GD / II 3 GD Ex eb I Mb / Ex ebIIC T6 Gb /				
	Ex ec IIC T6 Gc / Ex tb IIIC T70°C Db / ATEX/UKEX: (Unfinished) (ATEX/UKEX: (Unfinished)	' EX to IIIC 170°C Do I 2 GD / II 3 GD Ex eb I Mb / Ex el	h IIC Gh /			
	Ex ec IIC Gc / Ex tb IIIC Db/ Ex tc IIIC		5110 057			
	CCC: (Finished) Ex eb IIC T6 Gb, Ex tb	IIIC T70°C Db, Ex tc IIIC T70°C I	Do			
	CCC: (Unfinished) Ex eb IIC Gb, Ex tb	IIIC Db, Ex tc IIIC Dc				
Ambient Temperature: Service Temperature:	-60°C to +55°C (Finished) -60°C to +110°C (Unfinished)					
Conformance:	Standard:	Certificate:				
IECEx	IEC 60079 Part 0, 7, 31, IEC 60529	IECEx MSC 20.0003X	(Finished)			
	IEC 60079 Part 0, 7, 31, IEC 60529	IECEX MSC 20.0004U	(Unfinished)			
ATEX	EN 60079 Part 0, 7, 31 EN 60079 Part 0, 7, 31	CML 14ATEX3036X CML 14ATEX4038X	(Finished) (Finished)			
	EN 60079 Part 0, 7, 31	CML 14ATEX3037U	(Unfinished)			
	EN 60079 Part 0, 7, 31	CML 14ATEX4039U	(Unfinished)			
UKEX	EN/BS 60079 Part 0, 7, 31	CML 21UKEX3008X	(Finished)			
	EN/BS 60079 Part 0, 7, 31 EN/BS 60079 Part 0, 7, 31	CML 21UKEX4010X CML 21UKEX3007U	(Finished) (Unfinished)			
	EN/BS 60079 Part 0, 7, 31	CML 21UKEX4009U	(Unfinished)			
INMETRO (Brazil)	ABNT NBR IEC 60079 Part 0, 7, 31,					
	IEC 60529	TÜV 15.0481X	(Finished)			
	ABNT NBR IEC 60079 Part 0, 7, 31, IEC 60529	TÜV 15.0482U	(Unfinished)			
CCC/CNEx (Chinese)	GB/T3836.1, 3, 31-2021	CNEx 21.3507X	(Finished)			
. ,	GB/T3836.1, 3, 31-2021	CCC 2021312303000506	(Finished)			
	GB/T3836.1, 3, 31-2021	CNEx 21.3390X	(Unfinished)			
SANS	GB/T3836.1, 3, 31-2021 SANS/IEC 60079 Part 0, 7, 31	CCC 2021312313000393 MASC S/21-9001X	(Unfinished) (Finished)			
	SANS/IEC 60079 Part 0, 7, 51 SANS/IEC 60529	MASC 3/21-9001X MASC S/21-9002U	(Unfinished)			
IP66/68 2m Protection	IEC 60529	IECEx CML 15.0071U	(
Marine ABS	IEC 60529	ABS 20-SG1952738-1-PDA				
DNV-GL Deluge Protection	IEC 60529 DTS-01	DNV-GL TAE0000011 CML 14CA370-1				
	it IEC 60947-7-2, IEC 62444	CATAPULT OR/15/11677_2				
	Segurança Cara Ev an					
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Conditions for safe use

In Group I applications, the junction box must only be used in low impact areas and where it is not exposed to oils or greases.
 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 in relation to entries is indicated in the instructions.

Product Code	Entry Thread 'A'	Distance Between Inserts 'C'	Mounting Centres 'D'	Rail Mounting Centres Holes 'E'	Outer Diameter 'F'	Overall Height 'G'
1003-0-M16-SF	M16	71.0	79.0	65.0	100.0	78.0
1003-0-SF	M20	71.0	79.0	65.0	100.0	78.0
100301-M16-SF	M16	88.0	92.0	80.0	118.0	98.0
100301-SF	M20	88.0	92.0	80.0	118.0	98.0
100302-M16-SF	M16	108.0	107.0	98.0	140.0	114.0
100302-M20-SF	M20	108.0	107.0	98.0	140.0	114.0
100302-SF	M25	108.0	107.0	98.0	140.0	114.0
100303-M16-SF	M16	166.0	167.0	150.0	206.0	142.0
100303-M20-SF	M20	166.0	167.0	150.0	206.0	142.0
100303-M25-SF	M25	166.0	167.0	150.0	206.0	142.0
100303-SF	M32	166.0	167.0	150.0	206.0	142.0
100303-M40-SF	M40	166.0	167.0	150.0	206.0	170.0

All dimensions are in mm.

SCREW FIT 4 WAY JUNCTION BOX



Conditions for Safe Use - X

The current in the junction box is limited by the size of the conductor and shall not exceed as per the table below.

Manufacturer	Oortificate No	Certificate No. Ex Coding Type Conductor / Terminal Block Si	Turne	Conductor /	Maximum Current	
Manufacturer	Certificate No.		Terminal Block Size	≤ 55°C Ambient	≤ 40°C Ambient	
Weidmuller	IEC Ex ULD14.0005U	Ex eb IIC	WDU 2.5, 4, 6, 10, 16, 35 and 70N	2,5 mm²	8,34 A	11,90 A
	Demko 14ATEX1338U		WPE 2.5, 4, 6, 10, 16, 35 and 70N	4 mm ²	11,12 A	15,86 A
	CCC 2021312303000506			6 mm ²	14,25 A	20,33 A
				10 mm ²	19,81 A	28,26 A
				16 mm ²	26,42 A	37,68 A
				35 mm²	43,46 A	61,98 A
				50 mm ²	52,50 A	74,88 A
				75 mm²	66,75 A	95,21 A
Weidmuller	IECEX TUR18.0024U TÜV 18 ATEX 8221U CCC 2021312313000393	Ex eb IIC	AKZ4 and AKE4	4mm²	-	-

Wiring and installation instructions for Screw Fit 4-Way 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 it may compromise the certification rating.
- 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 terminals in Table 2 must not be exceeded.
- 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 to 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 CCG Non Metallic 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

TABLE 2

AKZ 4

WDU 2.5

WDU 4

WDU 6

WDU 10

WDU 16

WDU 35

WDU 70 N

Terminals

Box Type Box Terminal Type Size and Size rew Fit 4 Way 1 2.5mm ²		Max Quantity	Rail Size			
1	2.5mm ²	12	35			
1	4mm ² mini terminal	11	15			
1	4mm²	11	35			
1	6mm²	9	35			
1	10mm ²	7	35			
1	16mm ²	5	35			
2	2.5mm ²	16	35			
2	4mm ² mini terminal	14	15			
2	4mm²	13	35			
2	6mm²	11	35			
2	10mm ²	8	35			
2	16mm ²	7	35			
2	35mm²	5	35			
	Size 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	Size and Size 1 2.5mm² 1 4mm² mini terminal 1 4mm² 1 6mm² 1 10mm² 1 16mm² 2 2.5mm² 2 4mm² mini terminal 2 4mm² 2 4mm² 2 4mm² 2 4mm² 2 10mm² 2 10mm² 2 10mm²	Size and Size Quantity 1 2.5mm² 12 1 4mm² mini terminal 11 1 4mm² 11 1 4mm² 7 1 6mm² 9 1 10mm² 7 1 16mm² 5 2 2.5mm² 16 2 4mm² mini terminal 14 2 4mm² 13 2 6mm² 11 2 10mm² 8 2 16mm² 7			

VOLTAGE PER TERMINAL CONFIGURATION

Volt

275V

550V

550V

550V

550V

550V

550V

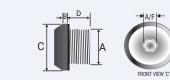
550V

Tools / Accessories for general, industrial and mining electrical installations

Pole Mounting Bracket

Box Size Reference
M20
M20
M25

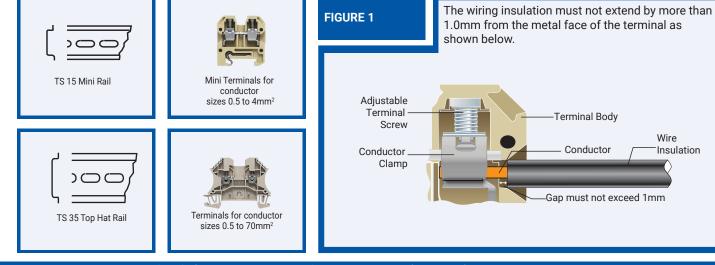
Non Metallic Plugs IP66/68 complete with washer



Product Code	Metric Dia 'A'	Dia Max 'B'	Dia Max 'C'	Dia Min 'D'	Hex Size Max A/F	Torque Value Nm
352720	M20x1.5	28.0	22.0	12.0	10.0	7.0
352725	M25x1.5	33.0	25.0	15.0	10.0	9.0
352732	M32x1.5	40.0	35.0	15.0	10.0	12.0

Wire

Insulation



Earth

Terminals

AKE 4

WPE 4

WPE 6

WPE 10 WPE 16

WPE 35

WPE 70 N

WPE 2.5

Tel: South Africa +27 11 3942020/1, Australia +1300 CABLE GLANDS (1300 222 534), Hong Kong +852 3427 2090, Singapore +65 6 8421 002, South Korea +82 51 808 1161, United Kingdom +44 1 642 430346, United Arab Emirates +971 6 552 7781