

MULTI BOX

Ex eb I, Ex eb IIC, Ex ec IIC, Ex tb IIIC

for Hazardous Area Installations

Features and Benefits

- Multi 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. Raised lid facilitates connections to be made clear of the box base.
- A lid with captive screws provides ease of installation
- Supplied complete with safety securing lid lanyard. Only approved CCG cable glands and Ex e terminals 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.
- Drilling of cable entries to customer requirements. Internal earthing to all entries and rail.

Technical Data

Multi Box

Impact corrosion and UV resistant glass reinforced polyester compound O-ring seals: Silicone or Sarlink seals. Terminals: Wellamid or Wemidd Ex Certified Terminals. Blanking plugs are provided Box Material:

Optional Accessories: The installer must check that the materials are suitable for the Note:



Equipment Protection Levels: IECEX/INMETRO: (Finished) Ex eb I Mb / Ex eb IIC T6 Gb / Ex ec IIC T6 Gc /

Ex tb IIIC T70°C Db / Ex tc IIIC T70°C Dc

IECEX/INMETRO: (Unfinished) Ex eb I Mb / Ex eb IIC Gb / Ex ec IIC Gc /

CCC: (Finished) Ex e IIC T6 Gb, Ex tD A21 IP66/67/68 T70°C, Ex tD A22 IP66/67/68 T70°C CCC: (Unfinished) Ex e IIC Gb, Ex tD A21 IP66/67/68, Ex tD A22 IP66/67/68'

-60°C to +55°C (Finished)

Ambient Temperature: Service Temperature: -60°C to +110°C (Unfinished)

Standard: Certificate: Conformance: Standard: IEC 60079 Part 0, 7, 31, IEC 60529 IEC 60079 Part 0, 7, 31, IEC 60529 EN 60079 Part 0, 7, 15, 31 IECEX MSC 20.0003X IECEX MSC 20.0004U **IECEx** (Finished) (Unfinished) CML 14ATEX3036X ATEX (Finished) CML 14ATEX4038X (Finished) CML 14ATEX3037U (Unfinished) CML 14ATEX4039U (Unfinished) EN/BS 60079 Part 0, 7, 15, 31 **UKEX** CML 21UKEX3008X (Finished) CML 21UKEX4010X CML 21UKEX3007U (Finished) (Unfinished) CML 21UKEX4009U (Unfinished)

ABNT NBR IEC 60079 Part 0, 7, 15, 31, INMETRO (Brazil)

IEC 60529

TÜV 15.0481X IEC 60529 ABNT NBR IEC 60079 Part 0, 7, 15, 31, TÜV 15.0482U

ΓΟCT 31610-0, 15,

ГОСТ Р МЭК 60079-7, 31

CCC / CNEx (Chinese) GB/T3836.1, 3, GB/T3836.31-2021 GB/T3836.1, 3, GB/T3836.31-2021

GB/T3836.1, 3, GB/T3836.31-2021 GB/T3836.1.3. GB/T3836.31-2021 SANS/IEC 60079 Part 0, 7, 15, 31, SANS SANS/IEC 60529

IP66/68 2m Protection IEC 60529

Short Circuit/Cont.Current IEC 60947-7-2, IEC 62444

IECEx CML 15.0071U CATAPULT OR/15/11677_2 EN CE LR @ 📸 [H[[X]] 👀 @ 📰 😂 CATAPULT

Conditions for Safe Use - X

TR CU (Russia)

- 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. Clean only with a damp cloth. Suitably certified cable glands and/or plugs shall be used in the enclosure threaded entries.
- Only the following terminals may be used, following the specific installation conditions set down by the terminal manufacturer / terminal certification.

Manufacturer	Certificate No.	Ex Coding	Tyron	Terminal	Maximum Current		
Manufacturer	Gertificate No.		Туре	Block Size	≤ 55°C Ambient	≤ 40°C Ambien	
	IEC Ex ULD14.0005U Demko 14ATEX1338U CCC 2020322313001819	Ex eb IIC	WDU 2.5, 4, 6, 10, 16, 35 and 70N WPE 2.5, 4, 6, 10, 16, 35 and 70N	2,5 mm ² 4 mm ² 6 mm ² 10 mm ² 16 mm ² 35 mm ² 50 mm ²	8,34 A 11,12 A 14,25 A 19,81 A 26,42 A 43,46 A 52,50 A 66,75 A	11,90 A 15,86 A 20,33 28,26 A 37,68 A 61,98 A 74,88 A 95,21 A	
Weidmuller	IECEx TUR18.0024U TÜV 18 ATEX 8221U CCC 2020322313002230	Ex eb IIC	AKZ4 and AKE4	4mm²	-	-	
T							

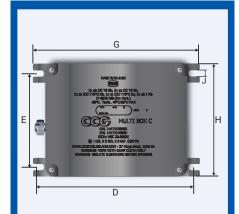


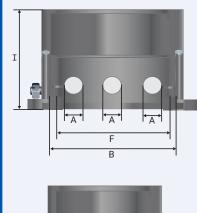












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EA9C RU C-ZA.HA91.B.00243/21

CCC 2020322313001819

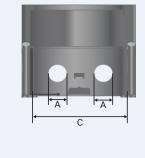
CCC 2020322313002230

CNEx 21.3507X

CNEx 21.3390X

MASC S/21-9001X

MASC S/21-9002U



PATENTED

- 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 creepage and clearance between terminal blocks and from the terminal block to any earthed / bonded metallic part shall comply with the EN60079-7 requirements for the acceptable voltage of the terminal blocks.
- nductor and shall not exceed the voltage as per Table 2

The current in the Multi box is limited by the size of the conductor and shall not exceed the voltage as per rable 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'
10050B	M16 to M32	144.0	111.0	176.0	110.0	126.0	196.0	132.0	109.0	7.0
10050C	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.

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MULTI BOX



Wiring and Installation instructions for Multi Box without components

· When fitted with any internal components the assembly must be re-certified and the cover re-marked accordingly.

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

Вох Туре	Terminal Type and Size	Max Quantity	Rail Size
Multi Box B	2.5mm²	20	35
Multi Box B	4mm² mini terminal	16	15
Multi Box B	4mm²	16	35
Multi Box B	6mm²	12	35
Multi Box B	10mm²	10	35
Multi Box B	16mm²	8	35
Multi Box C	2.5mm²	30	35
Multi Box C	4mm² mini terminal	26	15
Multi Box C	4mm²	28	35
Multi Box C	6mm²	20	35
Multi Box C	10mm²	16	35
Multi Box C	16mm²	14	35
Multi Box C	35mm²	10	35
Multi Box C	50mm²	8	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 1

