

OPERATING INSTRUCTIONS AND SAFETY DATA SHEET FOR TEX SERIES TERMINAL BOXES

WARNING !

PLEASE READ THIS INSTRUCTIONS CAREFULLY PRIOR TO ASSEMBLY !

IMPORTANT

*This instructions has been prepared to protect human, pets or goods from direct or indirect hazzards they may get affected.

*This instructions will ease the process of adhering appropriate safety regulations while installing these terminal boxes.

*In such areas, where there is an explosion risk, these terminal boxes are suitable for installation.

*Do not make any modification on the product. These terminal boxes has been certified and registered with all mounted components. Any modification (additional cut-out/s, changing terminal quantities and/or using other terminals, etc.) on the terminal box will terminate the certificate. At the end of electrical installation, dielectric tests must be performed according to IEC 60079-7:2015 clause 7.

*All Gaskets are resistant up to 100 °C.

CERTIFICATE DETAILS

Protection

ATEX

Increased safety Zone 1 marking;

⊕ II 2 G D

Ex eb IIC T6 Gb (Tamb -40°C to +40°C)

Ex tb IIIC T57°C Db (Tamb -40°C to +40°C), IP66

or

Ex eb IIC T5 Gb (Tamb -40°C to +55°C)

Ex tb IIIC T72°C Db (Tamb -40°C to +55°C), IP66

Intrinsic safety Zone 0 marking;

⊕ II 1 G

Ex ia IIC T6 Ga(Tamb -40°C to +40°C)

or

Ex ia IIC T5 Ga(Tamb -40°C to +55°C)

IECEX

Increased safety Zone 1 marking;

Ex eb IIC T6 Gb (Tamb -40°C to +40°C)

Ex tb IIIC T57°C Db (Tamb -40°C to +40°C), IP66

or

Ex eb IIC T5 Gb (Tamb -40°C to +55°C)

Ex tb IIIC T72°C Db (Tamb -40°C to +55°C), IP66

Intrinsic safety Zone 0 marking;

Ex ia IIC T6 Ga(Tamb -40°C to +40°C)

or

Ex ia IIC T5 Ga(Tamb -40°C to +55°C)

(According to TS 3033 EN 60529 Clause 13.6.2 and 14.2.6; conformity to IP66 was determined with Test Report numbered 08-08/25184 by TSE)

Assembly Certificate

Sira 06ATEX3285X / IECEX SIR 15.0056X

This terminal boxes conforms the following standarts and regulations :

ATEX

EN 60079-0:2012

IEC 60079-7:2015

EN 60079-11:2012

EN 60079-31:2014

IECEX

IEC 60079-0:2011 Ed 6

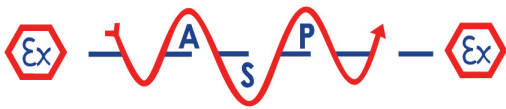
IEC 60079-7:2015 Ed 5

IEC 60079-11:2011 Ed 6

IEC 60079-31:2013 Ed 2

Teknik Veriler - Technical Data

Material	: Painted pregalvanized mild steel or stainless steel 1.4404 (316L)
Gaskets	: Door - Polyurethane gasket, Gland Plates - Neoprene gasket
Door fixing	: Fully detachable door with captive hex screws
Earthing	: Earthing stud M10
Protection class	: IP 66
Impact resistance	: 7J
Service temperature	: -40°C ... +40°C at T6
	: -40°C ... +55°C at T5
Min. installation temperature	: -5°C



ASSEMBLY

- 1) Wiring should be done according to IEC / EN 60079-14 and IEC / EN 60079-31.
- 2) The zone, in which the terminal boxes are used, will determine the use of adequate cables, glands and sealing options.
- 3) If major portion of the terminals are carrying maximum rated current the temperature at the branching point of the conductors may exceed 70°C. At these conditions installer must be sure that the temperature for the cable insulation should be 85°C (T6) or 100°C (T5).
- 4) Unless relevant component certificates allows else the wiring installation must extend to within 1 mm of the metal face of the terminal.
- 5) All terminal screws used and unused shall be fully tightened down.
- 6) The installer shall ensure clearance distances are not reduced, especially between intrinsically safe (is) and non-is circuits.
- 7) The use of any cross connection devices between adjacent terminal ways shall be in accordance with the requirements of terminal manufacturer.

INSTALLATION

- 1) IP Rating should be protected by the use of correct arrangement of cable / gland / sealing arrangements according to the installation.
- 2) If other certified components are part of assembly; components should comply with the above listed documents.
- 3) If the customer drills cable entries, they have to install the components according to the above listed documents. While drilling enclosure, it is important to use correct drilling speed and material for stainless steel. Extra cut-outs must be sealed according to the certificate and IP rating for the zone of use.
- 4) If gland plate usage is necessary; either earth tags with cable glands or earth studs should be installed to the junction box and door.
- 5) The earth leads must be at least equal the cross section of the largest conductor up to 16 mm² or a minimum of 0.5 x the maximum cross sectional area of the live conductor above 35 mm².
- 6) Junction box usage at temperature below -20°C relies upon the minimum service temperature of the terminals.

COMMISIONING

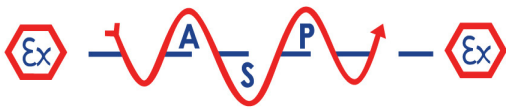
- 1) Voltage, current, and maximum dissipated (distributed) power must not be exceeded.
- 2) If this terminal box will be used for general purpose junction box or marshalling box, circuits carrying current more than or equal to 1A must be individually protected against over current; the protective device operates effectively and, no larger than 1.45 times the current carrying capacity of the smallest conductor used in that circuit.

USAGE

- 1) The terminal boxes have been manufactured without any hazardous substances.
- 2) The surface temperatures of accessible parts which might cause danger is stated below:
Cable at entry point may reach 76°C
Terminal insulation may reach 91.8°C (for T5 only)
These values are also listed on the label.
- 3) It is our assurance that any overload condition shall not give rise to dangerous situations. This is covered by compliance with the requirements of IEC 60079-0 and IEC 60079-7.

MAINTENANCE

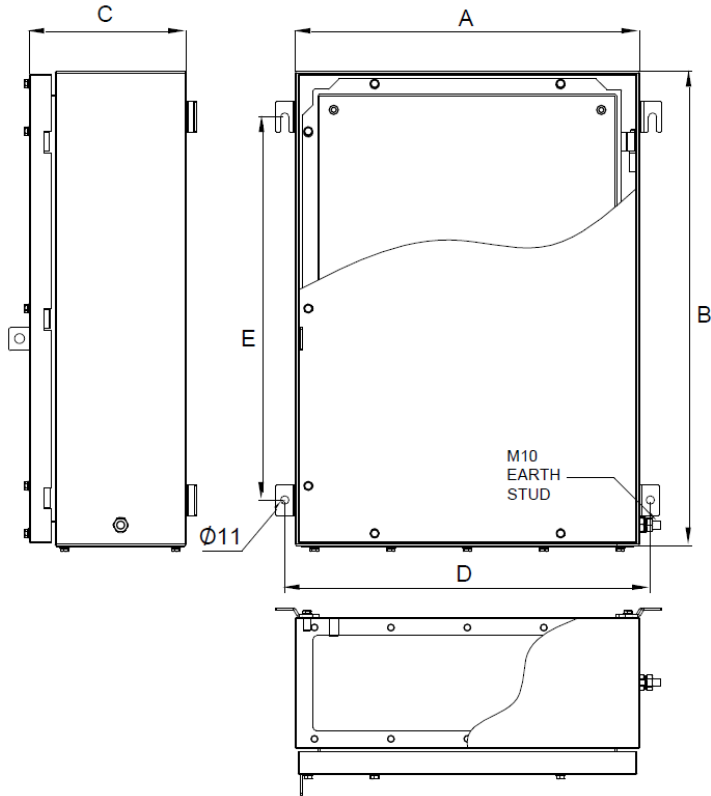
- 1) Cut the power (isolate all circuits)
- 2) Unscrew all screws of the door.
- 3) Swing back the door and inspect door's gasket is not damaged and appropriately placed.
- 4) The door may be removed by lifting off the hinges.
- 5) Be sure gasket is fitted for area of use.
- 6) If the door is removed please fit door from hinges and make sure it has been installed properly.
- 7) Check the gasket is secured and matching door and it is undamaged.
- 8) Close the door and tighten all screws of the door.



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Referans - Reference No	A	B	C	D	E
	(mm)	(mm)	(mm)	(mm)	(mm)
TEX 152213-**	152	229	135	208	152
TEX 262616-**	260	260	160	316	170
TEX 262620-**	260	260	205	316	170
TEX 263816-**	260	380	160	316	250
TEX 263820-**	260	380	205	316	250
TEX 303016-**	306	306	160	361	203
TEX 303020-**	306	306	205	361	203
TEX 355016-**	350	500	160	406	350
TEX 355020-**	350	500	205	406	350
TEX 384516-**	382	458	160	437	305
TEX 384520-**	382	458	205	437	305
TEX 456216-**	450	620	160	506	450
TEX 456220-**	450	620	205	506	450
TEX 484816-**	480	480	160	535	327
TEX 484820-**	480	480	205	535	327
TEX 507620-**	508	762	205	564	508
TEX 557420-**	550	740	205	606	540
TEX 619120-**	610	914	205	666	559
TEX 648620-**	640	860	205	696	570
TEX 749820-**	740	980	205	796	700