

CAEx

CONDUIT AND JUNCTION BOXES FOR EXPLOSIVE ATMOSPHERES

PROTECTION: Ex d – Ex tb

ZONES: 1 and 2 – 21 and 22

GROUPS: IIC – IIIC

TEMPERATURE CLASS: T6 – T85 °C

(Junction boxes)

EPL: Gb – Db

DEGREE OF PROTECTION: IP66

APPLICABLE STANDARDIZING:

ABNT NBR IEC 60079-0

ABNT NBR IEC 60079-1

ABNT NBR IEC 60079-31



Injected boxes have an excellent finish..

TECHNICAL SPECIFICATIONS

- Junction box with **Ex d** (explosion-proof) and **Ex tb** (combustible dust) protection for installation in potentially explosive atmospheres.
- Made in copper-free **aluminum alloy** resistant to corrosion.
- **1/2" to 2" NPT or BSP threaded** inlets.
- Cover threaded to the body.
- **Electrostatic powder coating** finish in gray Munsell N 6.5 polyester.
- O'ring seal installed on the cover.
- **Stainless steel** stud bolt to lock the cover.
- Bolts, grounding connectors, and non-rotating **stainless steel** plate.
- **Galvanized steel** box mount.
- Box can be used with terminals (junction box).

HOW TO REQUEST

- **Example 1:** Type C conduit box, 3/4" NPT thread.

Order by reference: 56501/002 Order by description:: CAEx-2C

- **Example 2:** Type T junction box, 1" NPT thread with 6 2.5mm² terminals with mount.

Order by reference: 56503/003 + 6x2.5mm² + 56702/001
Order by description:
CAEx-3T + 6x2.5mm² + MOUNT

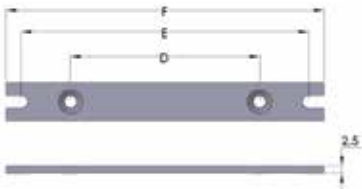
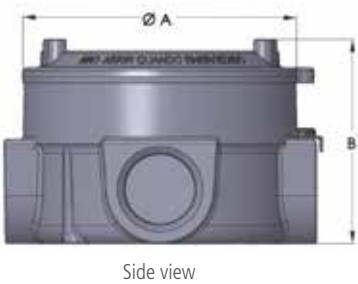
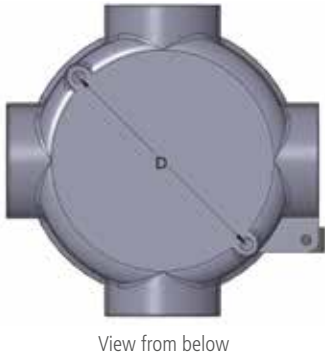
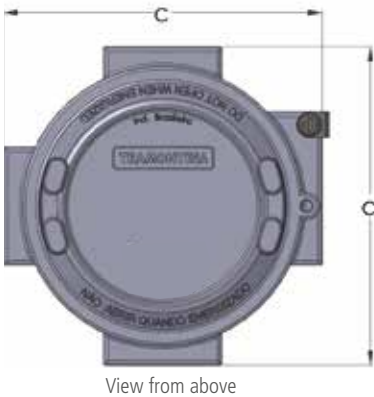
TECHNICAL INFORMATION

CAEx BOXES

REF.	MODEL	DIMENSIONS [mm]				WEIGHT [kg]	VOLUME [dm³]	TYPE
		Ø THREAD	Ø A	B	C			
56500/001	CAEx-1E	1/2" NPT	88	66	100	0,40	0,22	E
56500/002	CAEx-2E	3/4" NPT	88	66	100	0	0,22	
56500/003	CAEx-3E	1" NPT	88	73	100	0,45	0,25	
56500/004	CAEx-4E	1.1/4" NPT	138	111	150	1,65	0,93	
56500/005	CAEx-5E	1.1/2" NPT	138	111	150	1,65	0,93	
56500/006	CAEx-6E	2" NPT	138	111	150	1,65	0,93	
56501/001	CAEx-1C	1/2" NPT	88	66	100	0,40	0,22	C
56501/002	CAEx-2C	3/4" NPT	88	66	100	0,40	0,22	
56501/003	CAEx-3C	1" NPT	88	73	100	0,45	0,25	
56501/004	CAEx-4C	1.1/4" NPT	138	111	150	1,65	0,93	
56501/005	CAEx-5C	1.1/2" NPT	138	111	150	1,65	0,93	
56501/006	CAEx-6C	2" NPT	138	111	150	1,65	0,93	
56502/001	CAEx-1L	1/2" NPT	88	66	100	0,40	0,22	L
56502/002	CAEx-2L	3/4" NPT	88	66	100	0,40	0,22	
56502/003	CAEx-3L	1" NPT	88	73	100	0,45	0,25	
56502/004	CAEx-4L	1.1/4" NPT	138	111	150	1,65	0,93	
56502/005	CAEx-5L	1.1/2" NPT	138	111	150	1,65	0,93	
56502/006	CAEx-6L	2" NPT	138	111	150	1,65	0,93	
56503/001	CAEx-1T	1/2" NPT	88	66	100	0,40	0,22	T
56503/002	CAEx-2T	3/4" NPT	88	66	100	0,40	0,22	
56503/003	CAEx-3T	1" NPT	88	73	100	0,45	0,25	
56503/004	CAEx-4T	1.1/4" NPT	138	111	150	1,65	0,93	
56503/005	CAEx-5T	1.1/2" NPT	138	111	150	1,65	0,93	
56503/006	CAEx-6T	2" NPT	138	111	150	1,65	0,93	
56504/001	CAEx-1X	1/2" NPT	88	66	100	0,40	0,22	X
56504/002	CAEx-2X	3/4" NPT	88	66	100	0,40	0,22	
56504/003	CAEx-3X	1" NPT	88	73	100	0,45	0,25	
56504/004	CAEx-4X	1.1/4" NPT	138	111	150	1,65	0,93	
56504/005	CAEx-5X	1.1/2" NPT	138	111	150	1,65	0,93	
56504/006	CAEx-6X	2" NPT	138	111	150	1,65	0,93	



CAEx



MOUNT FOR BOX		DIMENSIONS [MM]		
REFERENCE	DESCRIPTION	D	E	F
56702/001	Mount for CAEx boxes 1/2", 3/4", and 1"	76	102	114
56702/002	Mount for CAEx boxes 1.1/4", 1.1/2", and 2"	120	160	176

JUNCTION BOXES (WITH TERMINALS)

TABLE A			TERMINALS: SECTION AND QUANTITY (MAXIMUM)							
TYPES OF BOX	GAUGE	VOLUME [cm³]	1,5 mm²	2,5 mm²	4 mm²	6 mm²	10 mm²	16 mm²	25 mm²	35 mm²
CAEx-1 •	1/2"	200								
CAEx-2 •	3/4"		6	6	4	-	-	-	-	-
CAEx-3 •	1"		230							
CAEx-4 •	1 1/4"	1150								
CAEx-5 •	1 1/2"		9	14	9	6	6	4	4	3
CAEx-6 •	2"									
MAXIMUM CURRENT PER TERMINAL (A)			10	12,5	20	24	30	48	75	105
MAXIMUM CURRENT PER TERMINAL (A/MM)			6,6	5	5	4	3	3	3	3
VOLTAGE RATING (V)			750							

- Type of box depending on threaded entries (E, C, L, T, or X)

