

Junction Boxes & Enclosures

JBEP and ECEP Series: Undrilled Fiberglass Reinforced Polyester Enclosures – Increased Safety

Zone 1 & 2 – 21 & 22

II 2 GD

ATEX / IECEx

IP66 – IK10

Applications:

- Designed for use in Zone 1 or 2 areas, where flammable gases or vapors are present either continuously or intermittently.
- Ideal for wet or corrosive atmospheres.
- Petroleum, chemical, refineries and other industrial process facilities.
- Designed for use in Zone 21 or 22 areas, where flammable dusts are present either continuously or intermittently. Food processing, dairy, brewing and other commercial facilities.

JBEP Series:

- Terminal junction boxes for electrical low voltage and instrumentation connections in hazardous areas.
- Refer to technical data to define permitted number of terminal blocks and cable entries on selected junction boxes.

ECEP Series:

- Enclosure for distribution and control applications. Can be modified at our manufacturing facility to house a large range of components; i.e. control units, switches, breakers, transformers, meters, etc.

Features:

- Static resistant black fiberglass reinforced polyester enclosure.
- Available in a wide range of sizes.
- Operating temperature -55°C to +60°C (CSPe) and -40°C to +55°C (CAe).
- Stainless steel hardware.
- Hinges standard on all sizes above 400 x 300 mm.

Hinged enclosures:

- Reversible door opening 180°.
- Door with double bar lock.
- Key locking facility.
- Protective flange at top and bottom.

Standard Materials of Fixtures:

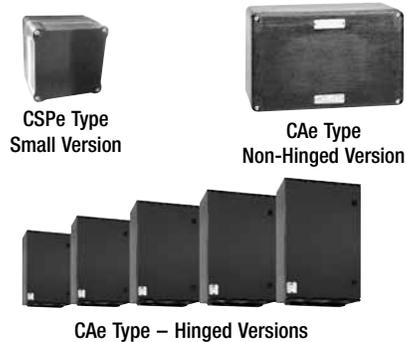
- Static resistant carbon filled fiberglass reinforced polyester (FRP) enclosures.
- Stainless steel hardware.

Accessories:

- Mounting pan.
- Rail mounting.
- Padlocking device.
- Inside pocket for documents.
- Refer to technical data to define permitted number and size of terminals and cable entries.

Options:

- Removable gland plates.
- Nameplates.
- Consult factory for custom drilling and assembly requirements.
- Empty enclosure with Ex “U” component marking for re-certification by notified body for CAe type.



Catalog Number Logic:

<p>JBEP</p> <p>Series</p> <p>ATEX / IEC Certified:</p> <p>EC = Enclosure & Controls</p> <p>JB = Junction Box</p> <p>E = Increased Safety</p> <p>I = Intrinsic Safety</p> <p>P = Polyester</p>	<p>XX</p> <p>Dimensions</p> <p>Length (mm):</p> <p>12 = 120</p> <p>17 = 170</p> <p>21 = 215</p> <p>23 = 230</p> <p>32 = 320</p> <p>40 = 400</p> <p>42 = 425</p> <p>50 = 500</p> <p>57 = 575</p> <p>60 = 600</p> <p>80 = 800</p> <p>10 = 1000</p>	<p>XX</p> <p>Dimensions</p> <p>Width (mm):</p> <p>12 = 120</p> <p>20 = 200</p> <p>30 = 300</p> <p>40 = 400</p> <p>60 = 600</p> <p>80 = 800</p>	<p>XX</p> <p>Dimensions</p> <p>Depth (mm):</p> <p>09 = 91</p> <p>15 = 150</p> <p>20 = 200</p> <p>25 = 200</p> <p>30 = 300</p>	<p>X</p> <p>Gland Plates (1):</p> <p>0 = None</p> <p>1 = One Bottom</p> <p>2 = One Top and Bottom</p> <p>3 = Two Sides and Bottom</p> <p>4 = All Sides</p>	<p>X</p> <p>Options:</p> <p>(options must be listed alphabetically)</p> <p>E = Earth Continuity Brass Plate</p> <p>M = Mounting Pan</p> <p>U = Component Certification “U”</p> <p># = Customized at Factory</p>
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(1) Gland plate for hinged enclosures only.

#: 6 Digit number will be assigned at time of order placement.

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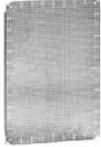
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Mounting Accessories – Continued:

Enclosure Type	Rail Length (mm)	Catalog Number	Old Catalog Number	Pack	
Zinc Plated Symetrical Steel Rail For fixing onto uprights with clip nut supplied.					
	CAe6	243	JBEP DR300	096481	1
	CAe7 / CAe8	343	JBEP DR400	096482	1
	CAe10	543	JBEP DR600	096483	1
	CAe11	743	JBEP DR800	096484	1
Enclosure Type	Dimensions (mm)	Catalog Number	Pack		
Mounting Pan Perforated mounting pan "Telequick".					
	CAe6	350 x 250	JBEPMP400	096452	1
	CAe7	450 x 350	JBEPMP500	096453	1
	CAe8	550 x 350	JBEPMP600	096454	1
	CAe10	750 x 550	JBEPMP800	096455	1
	CAe11	950 x 750	JBEPMP100	096456	1
Description	Catalog Number	Pack			
Self Adhesive Pocket for Drawings					
	External dimensions: 260 x 165 mm. Internal dimensions: 230 x 130 x 18 mm.	097263	1		
	External dimensions: 340 x 235 mm. Internal dimensions: 310 x 200 x 18 mm.	097264	1		
	Padlocking Device Takes 3 safety padlocks shackle dia. 6 mm maximum.	JBEPPL	1		

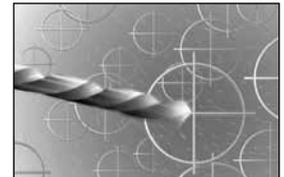
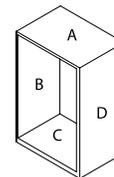
Technical Data:

JBEP Series for Terminal Junction Box Application Only.

The size of junction box needed to meet your requirements can be selected based upon the table show below. We also offer you the possibility to drill and equip using guides G0002 & G0003 available online at www.egsatx.com

- 1) Define maximum cable entries according to number of modules available per side.

Cable Entry Metric Thread	Number of Modules
M20	1
M25	1
M32	1
M40	2
M50	3



Type	Dimensions (mm)			Number of Modules			Allowable Max.
	Length	Width	Depth	B/D	A/C	A/C' (1)	Size
CSPe1	120	120	91	2	2	–	M25
CSPe2	170	120	91	3	2	–	M32
CSPe3	230	120	91	4	2	–	M32
CAe1	215	200	150	11	8	–	M50
CAe2	320	200	150	18	8	–	M50
CAe3	425	200	150	26	8	–	M50
CAe4	575	200	150	38	8	–	M50
CAe6	400	300	206	18	18	–	M50
CAe7	500	400	206	24	10	10	M50
CAe8	610	400	257	48	10	10	M75
CAe10	820	610	300	72	54	–	M100
CAe11	1020	810	300	96	78	–	M100

(1) Enclosure with removable gland plate