

ATX™ JBEP Series Undrilled and Pre-Drilled, FRP Empty Junction Boxes

Fiberglass Reinforced Polyester. Increased Safety. For Field Drilling and Customization.

NEC/CEC:
Class I, Zone 1, AEx e IIC, T5 or T6
Ex e IIC, T5 or T6
IP66

ATEX/IECEX:
Zone 1 and 2 – 21 and 22
Ⓢ II 2 GD
IP66 – IK10

Applications

- Designed for Zones 1 or 2 areas, where flammable gases or vapors are present either continuously, often or accidentally such as:
 - Petroleum
 - Chemical
 - Refineries
 - Other industrial process facilities
- Ideal for indoor/outdoor use with wet or corrosive atmospheres.
- Designed for use in Zones 21 or 22 areas where flammable dusts (conductive and non conductive) are present either continuously, often or accidentally such as:
 - Food processing
 - Dairy
 - Brewing
 - Other industrial process facilities
- Designed for Zone 0 and Zone 20 Intrinsically Safe applications when used with rated terminals.

Features

- Available in a wide range of sizes:
 - For armored, unarmored or armored lead sheathed cable
 - For use with Mantle Clamping (Pillar Terminals) for use as instrumentation, electrical or power terminals
 - For use with a variety of connection and earth terminals
- Optional external hinged enclosures:
 - Reversible door opening 120°.
 - Door with double bar lock.
 - Key locking facility.
- Refer to the technical guide to determine permitted and sizes of terminals and cables entries for self arrangement.

Standard materials

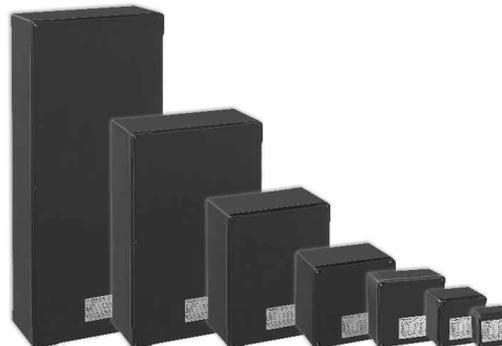
- Enclosures: Static resistant carbon filled fiberglass reinforced polyester (FRP)
- Hardware: stainless steel
- Gasket for sizes 85 x 85, 120 x 120: silicone
- Gasket for other sizes: EPDM (ethylene propylene diene monomer rubber)

Options

- External hinges are available on the following sizes:
 - 500 x 320 x 150
 - 500 x 320 x 230
 - 750 x 320 x 150
 - 750 x 320 x 230
- Silicone gasket available for sizes 170 x 170 and 200 x 215
- Removable glands plates
- Nameplates
- Mounting pan
- Terminal rail
- Inside pocket for document
- Consult factory for custom drilling and assembly requirements.

NEC/CEC Certifications and Compliances

- UL Standard: UL 60079-0; 60079-7
- CSA Standard: C22.2 No. 60079-0; 11; 60079-7: 12
- cCSAus Certified: 2625458
- CSA Listed: 013017



ATEX/IECEX Certifications and Compliances

- Certification Type JBEP
 - Gas, Zones 1 and 2:
 - Conforming to ATEX 94/9/EC: Ⓢ IIG
 - Conforming to IECEx: EPL Gb
 - Type of Protection: Ex eb IIC, Ex eb ia IIC, Ex eb ib IIC, Ex ib IIC
 - Temperature Class: T6 for $T_a \leq +40\text{ °C}$ (+104 °F), T5 for $T_a \leq +60\text{ °C}$ (+140 °F) and T3 for $T_a \leq +90\text{ °C}$ (+194 °F) for sizes 85 x 85, 120 x 120
 - Dusts, Zones 21 and 22:
 - Conforming to ATEX: Ⓢ IID
 - Conforming to IECEx: EPL Db
 - Type of Protection: Ex tb IIIC
 - Surface Temperature : T60 °C (T140 °F) for $T_a \leq +40\text{ °C}$ (+104 °F), T90 °C (T194 °F) for $T_a \leq +60\text{ °C}$ (+140 °F) and T110 °C (T230 °F) for $T_a \leq +90\text{ °C}$ (+194 °F) for sizes 85 x 85, 120 x 120
 - Gas, Zone 0:
 - Conforming to ATEX 94/9/EC: Ⓢ II 1G
 - Conforming to IECEx : EPL Ga
 - Type of Protection: Ex ia IIC
 - T Rating: T6 for $T_a \leq +40\text{ °C}$ (+104 °F) and T5 for $T_a \leq +60\text{ °C}$ (+140 °F) and T3 for $T_a \leq +90\text{ °C}$ (+194 °F) for sizes 85 x 85, 120 x 120
 - Dusts, Zones 20:
 - Conforming to ATEX: Ⓢ II 1D
 - Conforming to IECEx: EPL Da
 - Type of Protection: Ex ia IIIC
 - Surface Temperature : T60 °C (T140 °F) for $T_a \leq +40\text{ °C}$ (+104 °F), T90 °C (T194 °F) for $T_a \leq +60\text{ °C}$ (+140 °F) and T110 °C (T230 °F) for $T_a \leq +90\text{ °C}$ (+194 °F) for sizes 85 x 85, 120 x 120
- ATEX Certificate: LCIE 12 ATEX 3037X
- EC Declaration of Conformity : 50291
- IECEX Certificate: IECEx LCIE 13.0003X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance: IK10

EURASEC Certification

- EURASEC N° TC RU C-FR.Г505.B.00911

Other Certification

- INMETRO Certificate: BVC 13.3238 - X Ⓢ

Ⓢ INMETRO certification available on special request only. Contact your local sales representative for more information.

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Mounting Screws – Self Tapping – Used for Mounting DIN Rails and Mounting Pan – Pack of 50

Description	Catalog Number
 Sheet metal screw with a drill point and a Phillips pan head	JBEPMS8

Earth Continuity Brass Plate – Thickness: 3.00 mm (0.12 in)

Enclosure Catalog Number	Side – mm (in)	Catalog Number	Bottom – mm (in)	Catalog Number
JBEP121209S0	58 x 44 (2.28 x 1.73)	JBEP02S	72 x 44 (2.83 x 1.73)	JBEP02B
JBEP1717090	105 x 65 (4.13 x 2.55)	JBEP05S	127 x 65 (5 x 2.56)	JBEP05B
JBEP2021100	105 x 65 (4.13 x 2.56)	JBEP06S	150 x 65 (5.90 x 2.56)	JBEP06B
JBEP2021150	105 x 105 (4.13 x 4.13)	JBEP07S	150 x 105 (5.90 x 4.13)	JBEP07B
JBEP2532150	150 x 116 (5.90 x 4.56)	JBEP08S	250 x 116 (9.84 x 4.57)	JBEP08B
JBEP3225150	250 x 116 (9.84 x 4.56)	JBEP10S	150 x 116 (5.91 x 4.57)	JBEP10B
JBEP3250150	250 x 116 (9.84 x 4.56)	JBEP11S	180 x 116 (7.09 x 4.57)	JBEP11B
JBEP3250230	250 x 196 (9.84 x 7.71)	JBEP16S	180 x 196 (7.09 x 7.72)	JBEP16B
JBEP3275150	250 x 116 (9.84 x 4.56)	JBEP12S	305 x 116 (12.00 x 4.57)	JBEP12B
JBEP3275230	250 x 196 (9.84 x 7.71)	JBEP17S	305 x 196 (12.00 x 7.72)	JBEP17B
JBEP5032150	180 x 116 (7.08 x 4.56)	JBEP09S	250 x 116 (9.84 x 4.57)	JBEP09B
JBEP5032230	180 x 196 (7.08 x 7.71)	JBEP13S	250 x 196 (9.84 x 7.72)	JBEP13B
JBEP7532150	305 x 116 (12.0 x 4.56)	JBEP14S	250 x 116 (9.84 x 4.57)	JBEP14B
JBEP7532230	305 x 196 (12.0 x 7.71)	JBEP15S	250 x 196 (9.84 x 7.72)	JBEP15B