

# BJE Series Octagonal Polycarbonate Junction Boxes

NEC/CEC:  
Class 1, Zone 1 and 2  
A/Exe II T6  
IP66

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

## Applications

- Small terminal/junction box enclosure for various electrical connections in hazardous areas.
- Designed for use in Zone 1 or 2 areas, where flammable gases or vapors are present either continuously or intermittently, such as:
  - Petroleum refineries
  - Chemical refineries
  - Other industrial process facilities
- Ideal for wet or corrosive atmospheres.
- Designed for use in Zone 21 or 22 areas (international), where flammable dusts are present either continuously or intermittently, such as:
  - Food processing
  - Dairy
  - Brewing
  - Other commercial facilities

## Features

- High impact resistant black polycarbonate enclosure.
- Choose from two versions; external or internal hubs.
- BJE1: Supplied with 4 interconnected earth terminals. Maximum capacity per terminal: 1 x 4 mm<sup>2</sup> (0.002 x 0.006 in<sup>2</sup>).
- BJE1 is supplied with 4 connection terminals. Maximum capacity per terminal: 4 x 2.5 mm<sup>2</sup> (0.006 x 0.004 in<sup>2</sup>) or 2 x 4 mm<sup>2</sup> (0.003 x 0.006 in<sup>2</sup>) + 2 x 2.5 mm<sup>2</sup> (0.003 x 0.004 in<sup>2</sup>). Minimum capacity per terminal: 2 x 1.5 mm<sup>2</sup> (0.003 x 0.002 in<sup>2</sup>). Available in three depths, 200 mm (7.87"), 250 mm (9.84") and 300 mm (11.81").
- BJE2: Supplied with 4 interconnected earth terminals. Maximum capacity per terminal: 1 x 10 mm<sup>2</sup> (0.002 x 0.016 in<sup>2</sup>).
- BJE2 is supplied with 4 connection terminals. Maximum capacity per terminal: 4 x 6mm<sup>2</sup> (0.006 x 0.009 in<sup>2</sup>) or 3 x 10 mm<sup>2</sup> (0.005 x 0.016 in<sup>2</sup>) + 4 mm<sup>2</sup> (0.006 in<sup>2</sup>).
- BJE2 has telescopic cover retaining ring which can be unclipped.
- All hardware 316 Stainless Steel.
- Available for non-armored or armored cable. Armored cable version supplied with ground continuity plate.
- Several entry options available.
- Operating temperature:
  - BJE1: -50 °C to +55 °C (-58 °C to +131 °F)
  - BJE2: -40 °C to +55 °C (-40 °C to +131 °F)
- Poured in place polyurethane door gasket.

## Standard Materials

- Enclosure: static and impact resistant polycarbonate
- Hardware: 316L stainless steel

## NEC/CEC Certifications and Compliances

- UL Standard: 886
- cCSAus Certified: 013017
- CSA Standard: C22.2 No. 25, C22.2 No. 30

## ATEX Certifications and Compliances

- Certification Type BJe1
  - Gas, Zones 1 and 2:
    - Conforming to ATEX 94/9/CE: II 2 G
    - Type of Protection: Ex e II
    - Temperature Class: T6

BJE1



BJE2



BJE1 for Armored Cable



BJE2 for Armored Cable



- Dust, Zones 21 and 22:
  - Conforming to ATEX 94/9/CE: II 2 D
  - Type of Protection: Ex tD A21
  - Surface Temperature: T75 °C (T167 °F)
- Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
- CE Declaration of Conformity: 50226
- ATEX Certificate: LCIE 02 ATEX 6069
- Certification Type BJe2
  - Gas, Zones 1 and 2:
    - Conforming to ATEX 94/9/CE: II 2 G
    - Type of Protection: Ex e II
    - Temperature Class: T6
  - Dust, Zones 21 and 22:
    - Conforming to ATEX 94/9/CE: II 2 D
    - Type of Protection: Ex tD A21
    - Surface Temperature: T80 °C (176 °F)
  - Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
  - CE Declaration of Conformity: 50209
  - ATEX Certificate: LCIE 99 ATEX 6003
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10

## EURASEC Certification

- Certification Type BJe1
  - EURASEC N° TC RU C-FR.Г505.В.00911
- Certification Type: BJe2
  - EURASEC N° TC RU C-FR.Г505.В.00911

## Other Certifications

- Certification Type BJe1
  - INMETRO Certificate: BVC 11.0479 ①
- Certification Type BJe2
  - INMETRO Certificate: BVC 11.0402-X ①

① INMETRO certification available on special request only. Contact your local sales representative for more information.

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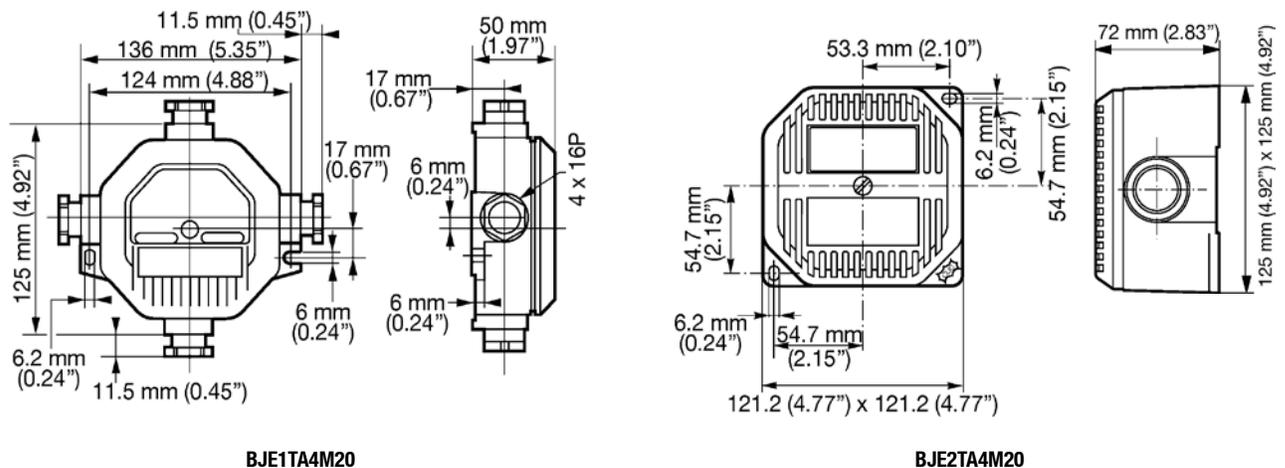
## Armored Enclosures — Supplied with Two Plugs

	Entry	Entries	Size	Plug	Weight kg (lb)	Volume mm <sup>3</sup> (in <sup>3</sup> )	Catalog Number
	No	4	PG16	Knockouts	0.4 (0.88)	2.0 (122.04)	<b>BJE1TN4P16</b>
	Yes	4	M20	2-M20	0.5 (1.10)	2.0 (122.04)	<b>BJE1TA4M20</b>
	No	3	M20	No	0.6 (1.32)	4.5 (274.60)	<b>BJE2TN3M20</b>
	No	4	M20	No	0.6 (1.32)	4.5 (274.60)	<b>BJE2TN4M20</b>
	No	3	M25	No	0.6 (1.32)	4.5 (274.60)	<b>BJE2TN3M25</b>
	No	4	M25	No	0.6 (1.32)	4.5 (274.60)	<b>BJE2TN4M25</b>
	Yes	4	M20	2-M20	0.6 (1.32)	4.5 (274.60)	<b>BJE2TA4M20</b>
	Yes	4	M25	2-M25	0.6 (1.32)	4.5 (274.60)	<b>BJE2TA4M25</b>

## Nickel Plated Adapters

Description	Catalog Number
 M20 to 1/2" NPT adapter for armored box	<b>737EM2T15</b>
M20 to 3/4" NPT adapter for armored box	<b>737EM2T25</b>
M25 to 3/4" NPT adapter for armored box	<b>737EM3T25</b>
M25 to 1" NPT adapter for armored box	<b>737EM3T35</b>

## Dimensions in Millimeters (inches)



ENCLOSURES AND JUNCTION BOXES: NEC/CEC WEATHERPROOF/DUSTPROOF JUNCTION AND OUTLET BOXES

