

# ATX™ JBEL Series Polycarbonate Junction Boxes

## Increased Safety

Furnished complete with Terminals.

### ATEX:

Zone 1 and 2 – 21 and 22

⊕ II 2 GD

IP66 – IK10

### Applications

- Small terminal junction boxes designed to facilitate 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
  - Chemical
  - Refineries
  - Other industrial process facilities
- Ideal for wet or corrosive atmospheres.
- Designed for use in Zone 21 or 22 areas where flammable dusts are present either continuously or intermittently such as:
  - Food processing
  - Dairy
  - Brewing
  - Other commercial facilities

### Features

- Pillar type terminal block for easy connection.
- Available in two sizes:
  - 4 mm<sup>2</sup> (0.006 in<sup>2</sup>)
  - 10 mm<sup>2</sup> (0.016 in<sup>2</sup>)
- Unarmored or armored versions with earth continuity brass device.
- Operating temperature: -40 °C to +55 °C (-40 °F to +131 °F).

### Standard Materials

- Enclosure: static and impact resistant polycarbonate
- Cover gasket: polyurethane
- Hardware: stainless steel

### 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
  - 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



For Unarmored Cable



For Armored Cable

### 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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Equipment	Rating (Amps)	Weight (kg (lb))	Volume (dm <sup>3</sup> (in <sup>3</sup> ))	Catalog Number
<b>For Unarmored Cables 2.5/4 mm<sup>2</sup> (0.004/0.006 in<sup>2</sup>) 660 V – Certification Type BJe1</b>				
Supplied with 4 connection terminals. Maximum capacity per terminal: 4 x 2.5 mm <sup>2</sup> (0.004 in <sup>2</sup> ) or 2 x 4 mm <sup>2</sup> (0.004 in <sup>2</sup> ) + 2 x 2.5 mm <sup>2</sup> (0.004 in <sup>2</sup> ) and 4 interconnected earth terminals. Maximum capacity per earth terminal: 1 x 4 mm <sup>2</sup> (0.004 in <sup>2</sup> )				
 4 x PG16 entries with knock-out caps ① 4 x Integrated cable glands for unarmored cable; 8 to 16 mm (0.31" to 0.69") diameter <i>Important: Cables must be secured to structure close to box entries</i>	28 A/2.5 mm <sup>2</sup> (0.004 in <sup>2</sup> ) 38 A/4 mm <sup>2</sup> (0.006 in <sup>2</sup> )	0.4 (0.88)	1.7 (103.74)	<b>JBEL1N4P16G</b>
<b>For Armored Cables 2.5/4 mm<sup>2</sup> (0.004/0.006 in<sup>2</sup>) 660 V – Certification Type BJe1</b>				
Supplied with 4 connection terminals. Maximum capacity per terminal: 4 x 2.5 mm <sup>2</sup> (0.004 in <sup>2</sup> ) or 2 x 4 mm <sup>2</sup> (0.004 in <sup>2</sup> ) + 2 x 2.5 mm <sup>2</sup> (0.004 in <sup>2</sup> ) and 4 interconnected earth terminals. Maximum capacity per earth terminal: 1 x 4 mm <sup>2</sup> (0.004 in <sup>2</sup> )				
 4 x M20 entries with earth brass continuity device 2 x blanking plugs	28 A/2.5 mm <sup>2</sup> (0.004 in <sup>2</sup> ) 38 A/4 mm <sup>2</sup> (0.006 in <sup>2</sup> )	0.4 (0.88)	1.7 (103.74)	<b>JBEL1A4M20</b>
<b>For Unarmored Cables 6/10 mm<sup>2</sup> (0.009/0.016 in<sup>2</sup>) 690 V – Certification Type BJe2</b>				
Supplied with 4 connection terminals. Maximum capacity per terminal: 4 x 6 mm <sup>2</sup> (0.009 in <sup>2</sup> ) or 3 x 10 mm <sup>2</sup> (0.016 in <sup>2</sup> ) + 4 mm <sup>2</sup> (0.004 in <sup>2</sup> ) and 4 interconnected earth terminals. Maximum capacity per earth terminal: 1 x 10 mm <sup>2</sup> (0.016 in <sup>2</sup> )				
 3 x M20 entries 3 x cable glands for unarmored cable; 6.5 to 14.5 mm (0.26" to 0.57") diameter		0.7 (1.54)	4.5 (274.60)	<b>JBEL2N3M20G</b>
 4 x M20 entries 4 x cable glands for unarmored cable; 6.5 to 14.5 mm (0.26" to 0.57") diameter	42 A/10 mm <sup>2</sup> (0.016 in <sup>2</sup> ) 30 A/6 mm <sup>2</sup> (0.009 in <sup>2</sup> )	0.7 (1.54)	4.5 (274.60)	<b>JBEL2N4M20G</b>
 3 x M25 entries 3 x cable glands for unarmored cable; 8 to 18.5 mm (0.31" to 0.73") diameter	18 A/4 mm <sup>2</sup> (0.006 in <sup>2</sup> )	0.7 (1.54)	4.5 (274.60)	<b>JBEL2N3M25G</b>
 4 x M25 entries 4 x cable glands for unarmored cable; 8 to 18.5 mm (0.31" to 0.73") diameter		0.7 (1.54)	4.5 (274.60)	<b>JBEL2N4M25G</b>
<b>For Armored Cables 6/10 mm<sup>2</sup> (0.009/0.016 in<sup>2</sup>) 690 V – Certification Type BJe2</b>				
Supplied with 4 connection terminals. Maximum capacity per terminal: 4 x 6 mm <sup>2</sup> (0.009 in <sup>2</sup> ) or 3 x 10 mm <sup>2</sup> (0.016 in <sup>2</sup> ) + 4 mm <sup>2</sup> (0.004 in <sup>2</sup> ) and 4 interconnected earth terminals. Maximum capacity per earth terminal: 1 x 10 mm <sup>2</sup> (0.016 in <sup>2</sup> )				
 4 x M20 entries with earth brass continuity device. 2 x M20 blanking plugs		0.7 (1.54)	4.5 (274.60)	<b>JBEL2A4M20</b>
 4 x M25 entries with earth brass continuity device. 2 x M25 blanking plugs	42 A/10 mm <sup>2</sup> (0.016 in <sup>2</sup> ) 30 A/6 mm <sup>2</sup> (0.009 in <sup>2</sup> )	0.7 (1.54)	4.5 (274.60)	<b>JBEL2A4M25</b>
 2 x M25 + 2 x M20 entries with earth brass continuity device. 1 x M25 + 1 x M20 blanking plugs	18 A/4 mm <sup>2</sup> (0.006 in <sup>2</sup> )	0.7 (1.54)	4.5 (274.60)	<b>JBEL2A4M05</b>
 3 x M25 + 1 x M20 entries with earth brass continuity device. 1 x M25 + 1 x M20 blanking plugs		0.7 (1.54)	4.5 (274.60)	<b>JBEL2A4M06</b>

① Knock-out caps can be used as plugs.

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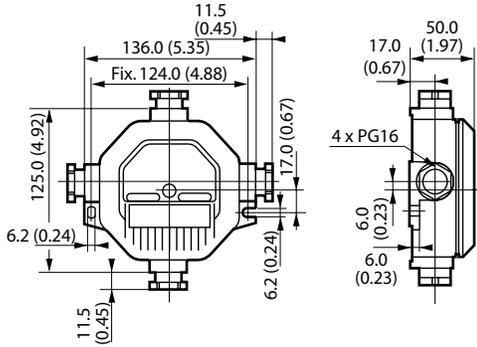
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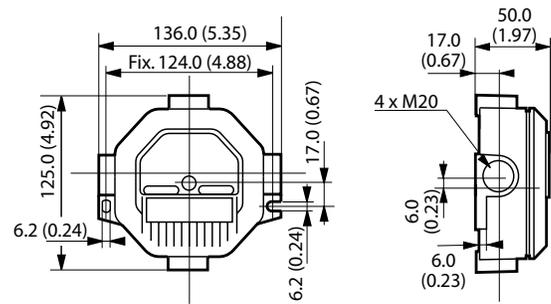
**ATEX:**  
 Zone 1 and 2 – 21 and 22  
 II 2 GD  
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### Dimensions in Millimeters (Inches)

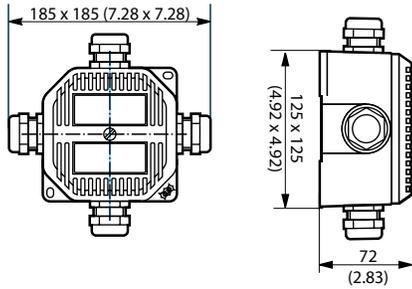
**BJe1 with Cable Glands for Unarmored Cables**



**BJe1 without Cable Glands for Armored Cables**



**BJe2 with Cable Glands for Unarmored Cables**



**BJe2 without Cable Glands for Armored Cables**

