

ATX™ JBES Series Pre-Drilled 316L Stainless Steel Junction Boxes

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
Notable: INMETRO Certified

Applications

- 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
 - Pharmaceutical industry
 - Silos and other facilities

Features

- Smooth, continuously welded seams.
- Hinges supplied on all boxes from 370 mm x 260 mm (14.57" x 10.24") sizes.
- Poured-in-place polyurethane door gasket.
- Earth crossing terminal.
- Factory drilled and equipped.

Standard Material

- Enclosure: 316L chrome plated molybdenum stainless steel with natural burnished finish
- Hardware: 316L stainless steel

Options

- For use with equipment other than Ex terminal blocks, see ECES series enclosures and controls.

ATEX/IECEx Certifications and Compliances

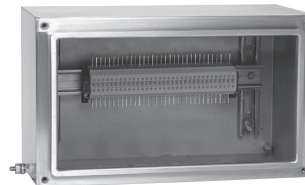
- Certification Type: JBES
 - Gas, Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex eb IIC, Ex eb ia IIC, Ex eb ib IIC, Ex ia or ib IIC Gb
 - Temperature Class: T6
 - Dust, Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: T64 °C to T67 °C (T147 °F to T152 °F)
 - Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
 - ATEX Certificate: LCIE 19 ATEX 3024X
 - IECEx Certificate: IECEx LCIE 19.0031X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10

INMETRO Certifications

- Certification Type: JBES
 - INMETRO Certificate: BVC24.4266-X



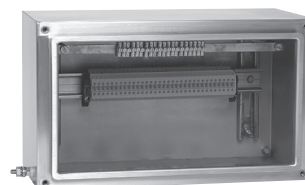
JBES1 — Without Terminals



JBES5 — Equipped with Terminals



JBES5 — Equipped with Terminals



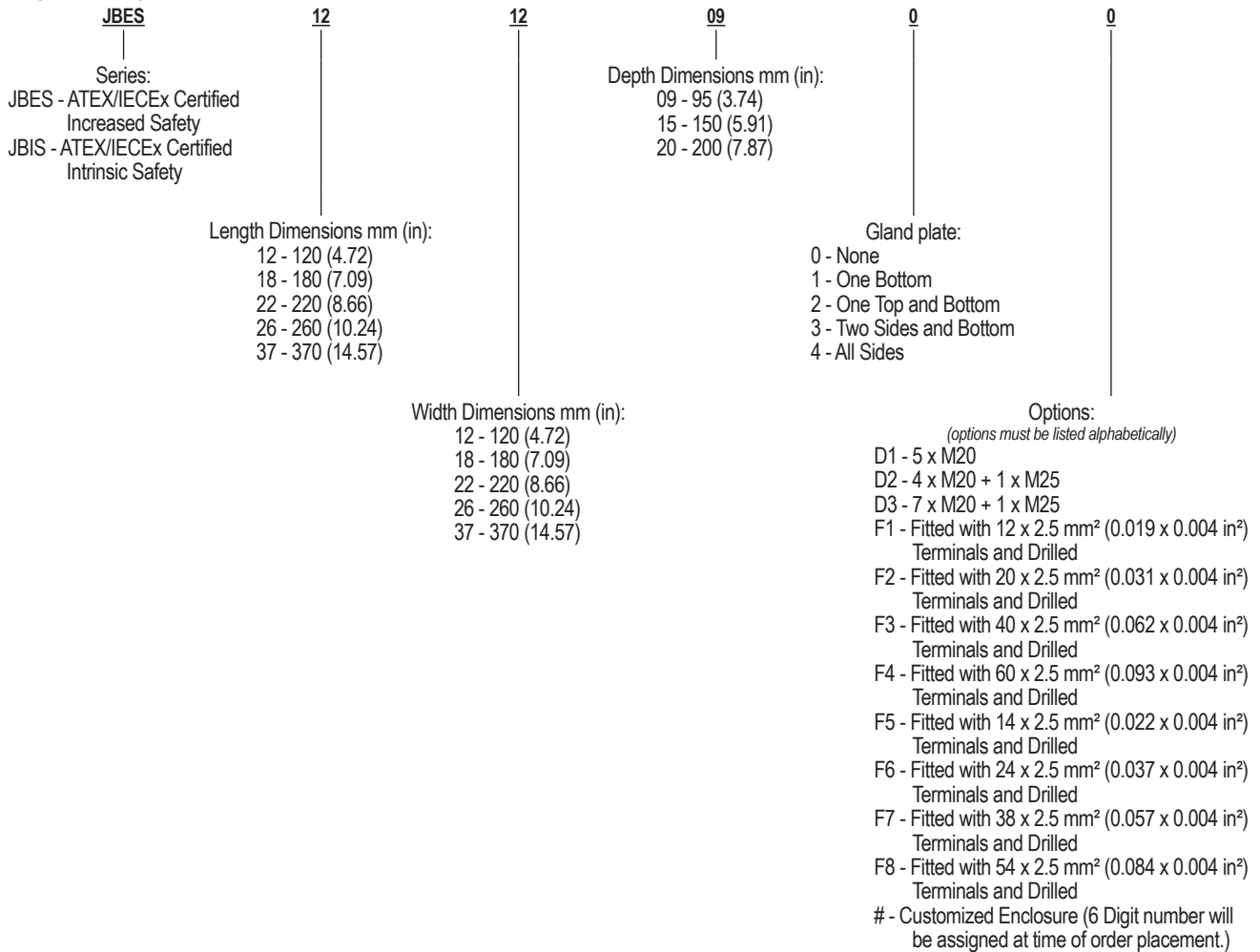
JBES5 — Equipped with Terminals

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Catalog Numbering Guide — JBES Pre-Drilled Stainless Steel Junction Boxes



Enclosures and Junction Boxes

Maximum Rail Arrangement According to Physical Dimensions

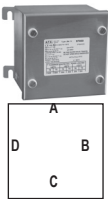
| Model | Catalog Number | Maximum Voltage | T6 +55 °C (+131 °F) | | Maximum Current | Dissipated Power | Dust T | Cable T |
|-------|----------------|-----------------|--|-------------------|-----------------|------------------|--------------------|------------------|
| | | | WDU 2.5 mm ² (0.004 in ²) | Terminal Quantity | | | | |
| JBES2 | JBES1812090F1 | 275 V | 12 | | 3A | 0.9 W | +67 °C (+152.6 °F) | +75 °C (+167 °F) |
| | JBES2622150F2 | | 20 | | | | | |
| JBES4 | JBES2226150F5 | 275 V | 14 | | 3A | 1.6 W | +67 °C (+152.6 °F) | +75 °C (+167 °F) |
| | JBES2226150F6 | | 24 | | | | | |
| JBES5 | JBES3722200F3 | 275 V | 40 | | 3A | 5.9 W | +67 °C (+152.6 °F) | +75 °C (+167 °F) |
| | JBES2237200F7 | | 38 | | | | | |
| JBES6 | JBES2237200F8 | 275 V | 54 | | 3A | 8.0 W | +67 °C (+152.6 °F) | +75 °C (+167 °F) |
| | JBES3726200F4 | | 60 | | | | | |

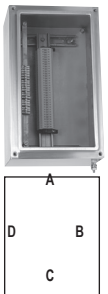
ATX™ JBES Series Pre-Drilled 316L Stainless Steel Junction Boxes

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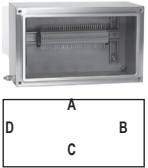
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Enclosures and Junction Boxes

| Type | Dimensions L x W x D mm (in) | Rail Length Capacity mm (in) | Clearance Holes Per Side | | | | Weight kg (lb) | Volume dm³ (in³) | Catalog Number | |
|---|------------------------------------|--|--------------------------|------------|------------|--------------------|-------------------|---------------------|-----------------|---------------|
| | | | A | B | C | D | | | | |
| Factory Drilled Ex eb IIC 316L Stainless Steel Junction Boxes Fitted with: | | | | | | | | | | |
| <i>One horizontal symmetrical zinc plated rail. For use only with Ex terminals (not supplied). M6 external earth crossing terminal.</i> | | | | | | | | | | |
|  | JBES1 | 120 x 120 x 95 (4.72 x 4.72 x 3.74) | 100 (3.94) | 1 x M20 | 1 x M20 | 2 x M20 | 1 x M20 | 1.0 (2.20) | 1.4 (85.43) | JBES1212090D1 |
| | JBES2 | 120 x 180 x 95 (4.72 x 7.09 x 3.74) | 160 (6.30) | – | 1 x M20 | 2 x M20 1 x M25 | 1 x M20 | 1.5 (3.31) | 2.0 (122.05) | JBES1218090D2 |
| | JBES2 | 120 x 180 x 95 (4.72 x 7.09 x 3.74) | 160 (6.30) | – | 2 x M20 | 3 x M20 1 x M25 | 2 x M20 | 1.5 (3.31) | 2.0 (122.05) | JBES1218090D3 |

| Type | Dimensions L x W x D mm (in) | Terminals 2.5 mm² (0.0039 in²) | Insulated Connectors | Clearance Holes Per Side | | | Weight kg (lb) | Volume dm³ (in³) | Catalog Number | |
|---|------------------------------------|---|-------------------------|--------------------------|-------------|--------------------|-------------------|---------------------|-------------------|---------------|
| | | | | B | C | D | | | | |
| Factory Drilled and Equipped with Terminals Ex eb IIC 316L Stainless Steel Instrumentation Junction Boxes Fitted with: | | | | | | | | | | |
| <i>Vertical beige Ex eb terminal block. Insulated copper bar with connectors. White laminated plastic tag with black lettering. M8 external earth crossing terminal. Cable glands and plugs to be ordered separately.</i> | | | | | | | | | | |
|  | JBES2 | 180 x 120 x 95 (7.09 x 4.72 x 3.74) | 12 (6 Pairs) | 8 | 3 x M20 | 1 x M25 1 x M20 | 3 x M20 | 2.5 (5.51) | 2.0 (122.05) | JBES1812090F1 |
| | JBES4 | 260 x 220 x 150 (10.24 x 8.66 x 5.91) | 20 (10 Pairs) | 12 | 5 x M20 | 1 x M32 1 x M20 | 5 x M20 | 4.0 (8.82) | 8.6 (524.80) | JBES2622150F2 |
| | JBES5 | 370 x 220 x 200 (14.57 x 8.66 x 7.87) | 40 (20 Pairs) | 22 | 10 x M20 | 1 x M40 1 x M20 | 10 x M20 | 9.0 (19.84) | 16.3 (994.69) | JBES372220F3 |
| | JBES6 | 370 x 260 x 200 (14.57 x 10.24 x 7.87) | 60 (30 pairs) | 32 | 15 x M20 | 1 x M50 1 x M20 | 15 x M20 | 24.25 (11.0) | 19.3 (1177.76) | JBES3726200F4 |

Ex ia IIC Version: Replace Third Digit “E” with “I” (Example: JBES1812090F1 becomes JBIS1812090F1) Fitted with:
Vertical blue terminal block. Insulated copper bar with connectors. Blue laminated plastic tag with white lettering. M8 external earth crossing terminal. Cable glands and plugs to be ordered separately.

| Type | Dimensions L x W x D mm (in) | Terminals 2.5 mm² (0.0039 in²) | Continuity Shield | Clearance Holes Per Side | | Weight kg (lb) | Volume dm³ (in³) | Catalog Number | |
|--|------------------------------------|--|----------------------|--------------------------|---------|-------------------|---------------------|------------------|---------------|
| | | | | C | | | | | |
| Factory Drilled and Equipped with Terminals Ex eb IIC 316L Stainless Steel Instrumentation Junction Boxes Fitted with: | | | | | | | | | |
| <i>Horizontal beige Ex eb terminal block. Continuity shield. White laminated plastic tag with black lettering. M8 External earth crossing terminal. Cable glands and plugs to be ordered separately.</i> | | | | | | | | | |
|  | JBES4 | 220 x 260 x 150 (8.66 x 10.24 x 5.91) | 14 (7 Pairs) | 7 | 1 x M25 | 7 x M20 | 4.0 (8.82) | 8.6 (524.80) | JBES2226150F5 |
| | JBES4 | 220 x 260 x 150 (8.66 x 10.24 x 5.91) | 24 (12 pairs) | 12 | 1 x M32 | 12 x M20 | 4.0 (8.82) | 8.6 (524.80) | JBES2226150F6 |
| | JBES5 | 220 x 370 x 200 (8.66 x 14.57 x 7.87) | 38 (19 pairs) | 19 | 1 x M32 | 19 x M20 | 9.0 (19.84) | 16.3 (994.69) | JBES2237200F7 |
| | JBES5 | 220 x 370 x 200 (8.66 x 14.57 x 7.87) | 54 (27 pairs) | 27 | 1 x M40 | 27 x M20 | 9.0 (19.84) | 16.3 (994.69) | JBES2237200F8 |

Ex ia IIC Version: Replace Third Digit “E” with “I” (Example: JBES2226150F5 becomes JBIS2226150F5) Fitted with:
Horizontal blue terminal block. Continuity shield. Blue laminated plastic tag with white lettering. M8 external earth crossing terminal. Cable glands and plugs to be ordered separately.

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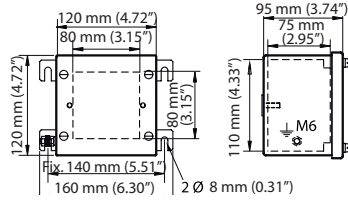
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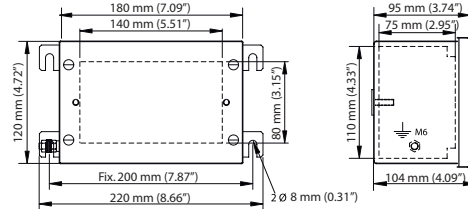
Dimensions in Millimeters (Inches)

Factory Drilled without Terminal Block (DIN rail supplied)

JBES1

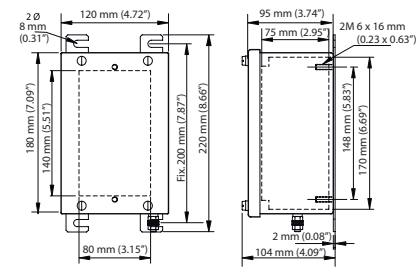


JBES2

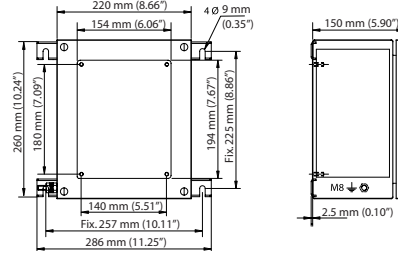


Factory Drilled and Equipped with Vertical Terminal Block

JBES2

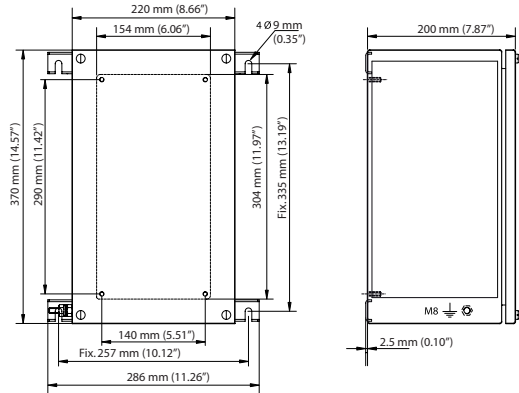


JBES4

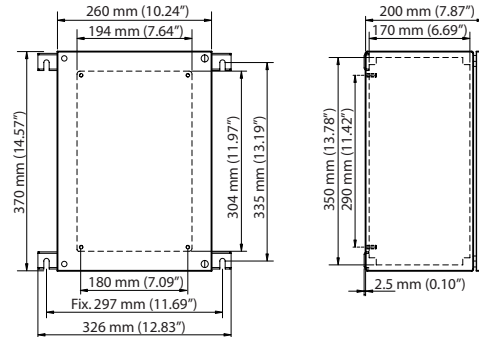


Factory Drilled and Equipped with Vertical Terminal Block

JBES5

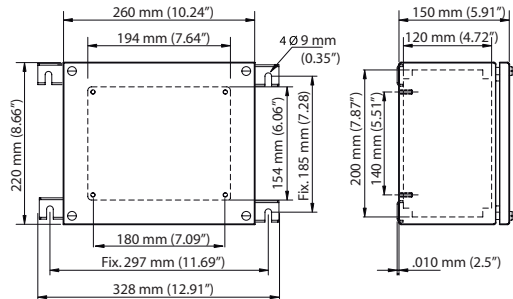


JBES6

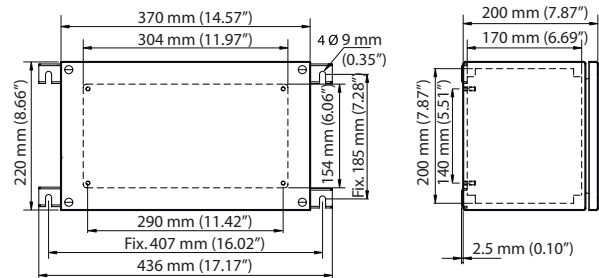


Factory Drilled and Equipped with Horizontal Terminal Block

JBES4



JBES5



Enclosures and Junction Boxes