JBES Series: Pre-drilled 316L Stainless Steel Junction Boxes – Increased Safety



JBe10 Without Terminals



JBe46 Equipped with Terminals



JBe46 Equipped with Terminals



JBe46 Equipped with Terminals

## **Compliance Data:**

ATEX - IEC:

199



### **Operating Temperatures:**

-50°C to +70°C









JBES Series: Pre-drilled 316L Stainless Steel Junction Boxes – Increased Safety

Zone 1 & 2 - 21 & 22 (a) II 2 GD ATEX / IEC IP66 - IK10

#### 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.
- · Ideal for use in 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, pharmaceutical industry, silos and other facilities.

#### Features:

- Austenitic stainless steel contains at least 10.5% Chrome (Cr). Chrome is a protective layer that shields the material from humidity.
- 316L stainless steel contains molybdenum (Mo), which provides excellent corrosion resistance especially against chlorides.

- · Smooth, continuously welded seams.
- 316L stainles steel captive screws.
- Hinges supplied on all boxes from 370 mm x 260 mm sizes.
- · Poured-in-place polyurethane door gasket.
- Earth crossing terminal.
- · Factory drilled and equipped.

#### Standard Material:

- 316L chrome plated molybdenum stainless steel enclosure with natural burnished finish.
- 316L stainless steel hardware.

#### Options:

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

### Catalog Number Logic:

JBES	XX	XX	XX XX	X
Series ATEX / IEC Certified: E = Increased Safety I = Intrinsic Safety	Dimensions Length (mm): 12 = 120 18 = 180 22 = 220 26 = 260 37 = 370	Dimensions Width (mm): 12 = 120 18 = 180 22 = 220 26 = 260 37 = 370	Dimensions Depth (mm): 09 = 95 15 = 150 20 = 200	Options:  Options have to be listed alphabetically  D1 = 5 x M20  D2 = 4 x M20 + 1 x M25  D3 = 7 x M20 + 1 x M25  F1 = Fitted with 12 x 2.5 mm <sup>2</sup> Terminals and Drilled  F2 = Fitted with 20 x 2.5 mm <sup>2</sup> Terminals and Drilled  F3 = Fitted with 40 x 2.5 mm <sup>2</sup> Terminals and Drilled
#: 6 Digit number will be ass	igned at time of ord	ler placement.	Gland Plates:  0 = None  1 = One Bottom  2 = One Top and Bottom  3 = Two Sides and Bottom  4 = All Sides	F4 = Fitted with 60 x 2.5 mm² Terminals and Drilled F5 = Fitted with 14 x 2.5 mm² Terminals and Drilled F6 = Fitted with 24 x 2.5 mm² Terminals and Drilled F7 = Fitted with 38 x 2.5 mm² Terminals and Drilled

#### **Ordering Information:**

Factory Drilled Ex e II 316L Stainless Steel Junction Boxes Fitted with:

One horizontal symmetrical zinc plated rail. For use only with Ex terminals (not supplied). M6 external earth crossing terminal. Cable glands and plugs to be ordered separately.





Туре	Dimensions L x W x D (mm)	Rail Length Capacity (mm)	А	Clearance Ho B	oles per side C	D	Weight (kg)	Volume (dm³)	Catalog Number	Old Catalog Number
JBe10	120 x 120 x 95	100	1 x M20	1 x M20	2 x M20	1 x M20	1	1.4	JBES 121209 0 D1	_
JBe20	120 x 180 x 95	160	-	1 x M20	2 x M20 1 x M25	1 x M20	1.5	2	JBES 121809 0 D2	-
JBe20	120 x 180 x 95	160	-	2 x M20	3 x M20 1 x M25	2 x M20	1.5	2	JBES 121809 0 D3	-



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Zone 1 & 2 - 21 & 22 II 2 GD

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**Ordering Information Continued:** 

Factory Drilled and Equipped with Terminals Ex e II 316L Stainless Steel Instrumentation Junction Boxes Fitted with:

Vertical beige Exe 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.





Туре	Dimensions L x W x D (mm)	Rail Length Capacity (mm)	Insulated Connectors	Clear B	ance Holes per C	· Side D	Weight (kg)	Volume (dm³)	Catalog Number	Old Catalog Number
JBe20	180 x 120 x 95	12 (6 Pairs)	8	3 x M20	1 x M25 1 x M20	3 x M20	2.5	2	JBES 1812090 F1	097160
JBe36	260 x 220 x 150	20 (10 Pairs)	12	5 x M20	1 x M32 1 x M20	5 x M20	4	8.6	JBES 2622150 F2	097161
JBe46	370 x 220 x 200	40 (20 Pairs)	22	10 x M20	1 x M40 1 x M20	10 x M20	9	16.3	JBES 372220 F3	097162
JBe47	370 x 260 x 200	60 (30 pairs)	32	15 x M20	1 x M50 1 x M20	15 x M20	11	19.3	JBES 3726200 F4	097163

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.



#### Factory Drilled and Equipped with Terminals Ex e II 316L

Stainless Steel Instrumentation Junction Boxes Fitted with:

Horizontal beige Exe terminal block.

Continuity shield.

White laminated plastic tag with black lettering.

M8 External earth crossing terminal.

Cable glands and plugs to be ordered separately.

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Туре	Dimensions L x W x D (mm)	Terminals 2.5mm²	Continuity Shield	Clearance Holes Side C	Weight (Kkg)	Volume (dm³)	Catalog Number	Old Catalog Number
JBe36	220 x 260 x 150	14 (7 Pairs)	7	1 x M25 7 x M20	4	8.6	JBES 2226150 F5	097140
JBe36	220 x 260 x 150	24 (12 pairs)	12	1 x M32 12 x M20	4	8.6	JBES 2226150 F6	097141
JBe46	220 x 370 x 200	38 (19 pairs)	19	1 x M32 19 x M20	9	16.3	JBES 2237200 F7	097142
JBe46	220 x 370 x 200	54 (27 pairs)	27	1 x M40 27 x M20	9	16.3	JBES 2237200 F8	097143

Ex ia IIC Version: Replace Third Digit "E" with "I" Fitted with:

(Example: JBES2226150F5 becomes JBIS2226150F5)

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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### **Technical Data:**

Maximum rail arrangement according to physical dimensions.

Туре	Protection	Terminal Size	Quantity	Max. Amps
JBe10	T6 @ Ta = +55°C	2.5 mm <sup>2</sup> 4 mm <sup>2</sup> 6 mm <sup>2</sup>	10 8 6	16A 25A 32A
JBe20	T6 @ Ta = +55°C	2.5 mm <sup>2</sup> 4 mm <sup>2</sup> 6 mm <sup>2</sup>	21 18 13	16A 25A 32A

For other terminal block configurations, consult our guide G0002 available online at our website: www.egsatx.com

## Compliances:

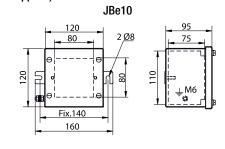
Hazardous Area	Gas	Dust		
Certification Type	JBe			
Zones	1–2	21–22		
Conforming to ATEX 94/9/CE	CE 0081 © II 2 G	CE 0081 ₪ II2 D		
Symbol of Protection ATEX	Ex e II Ex ia IIC	Ex tD A21		
Symbol of Protection IEC	Ex ib IIC			
T Rating	T6 to T5	NA		
Surface Temperature	NA	T80°C to T95°C		
Ambient Temperature	-50°C to +70°C			
CE Declaration of Conformity	50232			
ATEX Certificate	LCIE 02 ATEX 6118X			
IEC Certificate	LCIE Ex 02.010X			
Other Certifications	GOST			
Index of Protection (solid and liquid)	IP66			
Impact resistance (shock)	IK10			

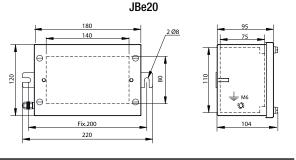
#### Standards:

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Ex Standards	EN / IEC 60079-0; 60079-7; 60079-11;
	61241-0; 61241-1; 61241-11
<b>Product Standards</b>	_
EMC Standards	_
Other Standards	EN / IEC 60529 (IP); 62262 (IK)

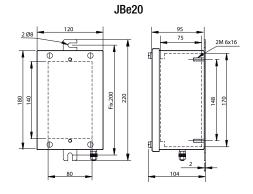
## Dimensions (mm):

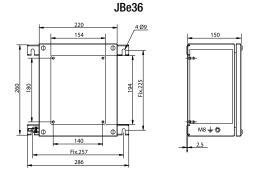
Factory Drilled without Terminal Block (DIN rail supplied)





Factory Drilled and Equipped with Vertical Terminal Block





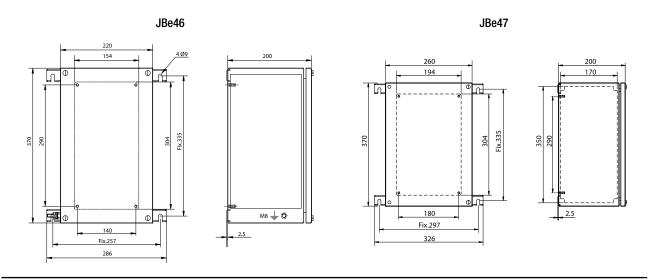


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Dimensions (mm) - Continued:

Factory Drilled and Equipped with Vertical Terminal Block



Factory Drilled and Equipped with Horizontal Terminal Block

