

JBD Series Pre-drilled Terminal Junction Boxes

Flameproof

Zones 1 & 2 – 21 & 22
Gas (G) and Dust (D)

Applications

- Terminal junction boxes to facilitate electrical connections in hazardous areas.
- Ideal for use in wet or corrosive atmospheres.
- Designed for use in Zone 1 or 2 areas, where flammable gases or vapors are present either continuously or intermittently, such as:
 - Petroleum plants
 - Chemical plants
 - Refineries
 - Other industrial process facilities
- Designed for use in Zone 21 or 22 areas where flammable dusts are present either continuously or intermittently, such as:
 - Food processing
 - Dairy
 - Brewing
 - Silos

Features

- Flanged flameproof joint for square enclosures.
- Screwed flameproof joint for round enclosure.
- External earth crossing terminal.
- Supplied with one symmetrical zinc plated rail.
- Terminal block not supplied.
- Yellow laminated plastic nameplate with black lettering.
- Pre-drilled entries.
- Operating temperature -40 °C to +55 °C.

Standard Materials

- Enclosure housing: gray painted cast iron and marine grade aluminum alloy
- Hardware: stainless steel

Certifications and Compliances

◆ ATEX or IECEx Certification

- **Certification Type CF2/A/B/C**
 - Gas, Zones 1 and 2:
 - Conforming to ATEX 94/9/CE: II 2 G
 - Type of Protection: Ex d IIB
 - Temperature class: T6 for $T_a \leq +40\text{ °C}$, T5 for $T_a \leq +55\text{ °C}$
 - Dust, Zones 21 and 22:
 - Conforming to ATEX 94/9/CE: II 2 D
 - Type of Protection: Ex td A21
 - Surface Temperature: T95 °C
 - CE Declaration of Conformity: 50254
 - ATEX Certificate: LCIE 03 ATEX 6061X
- **Certification Type CF1F**
 - Gas, Zones 1 and 2:
 - Conforming to ATEX 94/9/CE: II 2 G
 - Type of Protection: Ex d IIC
 - Temperature class: T6 for $T_a \leq +40\text{ °C}$, T5 for $T_a \leq +55\text{ °C}$
 - Dust, Zones 21 and 22:
 - Conforming to ATEX 94/9/CE: II 2 D
 - Type of Protection: Ex td A21
 - Surface Temperature: T95 °C
 - CE Declaration of Conformity: 50257
 - ATEX Certificate: LCIE 03 ATEX 6044X
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10
 - Internal Volume: > 2dm³ (2 liters)

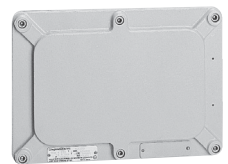
JBDAB – Aluminum Version



JBDFC – Cast Iron Version



JBDFB – Cast Iron Version



• Certification Type CF20B

- Gas, Zones 1 and 2:
 - Conforming to ATEX 94/9/CE: II 2 G
 - ATEX/IEC Protection: Ex d IIB
 - 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
- Ambient Temperature: -40 °C to +55 °C
- CE Declaration of Conformity: 50229
- ATEX Certificate: LCIE 02 ATEX 6057X
- IECEx Certificate: IECEx LCI 08.0023X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10
- Internal Volume: > 2dm³ (2 liters)

◆ EURASEC Certification

- **Certification Type CF2/A/B/C**
 - EURASEC N° TC RU C-FR.Г505.B.00911
- **Certification Type CF1F**
 - EURASEC N° TC RU C-FR.Г505.B.00911

Options

- For use with equipment other than terminal blocks, please consult your local sales representative.

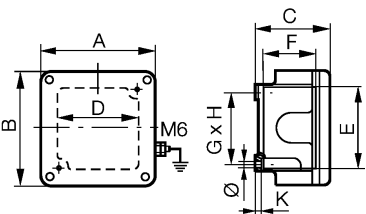
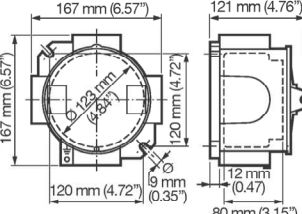
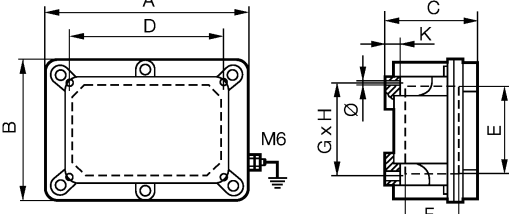
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Flameproof

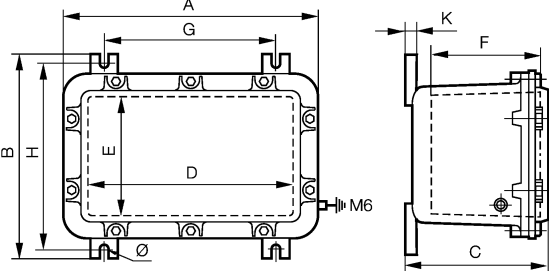
Zones 1 & 2 – 21 & 22
Gas (G) and Dust (D)

		A D B C								
Type	Dimensions mm	Threaded Entry Per Side		C	D	Rail Length Capacity mm	Weight kg	Volume dm ³	Catalog Number	Pack
A	B									
Ex d IIB Enclosure in Cast Iron										
CF2C	130 x 130 x 90	1 x M20	1 x M20	2 x M20	1 x M20	64	4	3	JBDFB131309D1	1
CF2A	205 x 145 x 127	2 x M20	1 x M20	3 x M20	1 x M20	120	9.4	3	JBDFB201413D2	1
CF2B	270 x 190 x 120	—	2 x M20 1 x M25	3 x M20	2 x M20	162	12.6	7	JBDFB271912D3	1
Ex d IIB Enclosure in Aluminum										
CF20B	370 x 270 x 208	—	3 x M20	5 x M20 1 x M32	3 x M20	260	12.8	24	JBDAB372720D4	1
Ex d IIC Enclosure in Cast Iron										
CF1F	167 x 167 x 126	1 x M32	1 x M32	1 x M32	1 x M32	100	6.7	13	JBDFC161612D5	1
CF1F	167 x 167 x 126	1 x 1"NPT	1 x 1"NPT	1 x 1"NPT	1 x 1"NPT	100	6.7	13	JBDFC161612D6	1

Cast Iron Version Dimensions in Millimeters

CF2C CF1F CF2A/CF2B										
  										
Type	External			Internal			Fixings			
	A	B	C	D	E	F	G	H	K	Ø
CF2C	130	130	90	90	90	65	86	86	10	7
CF2A	202	144	127	155	95	65	156	98	12	7
CF2B	267	187	120	200	120	78	202	122	12	7

Aluminum Version Dimensions in Millimeters

										
Type	External			Internal			Fixings			
	A	B	C	D	E	F	G	H	K	Ø
CF20B	370	270	208	300	175	159	250	245	15	11