

# Junction Boxes & Enclosures

## JBEL and JBEP Series: Polycarbonate and Polyester Junction Boxes Complete with Terminals – Increased Safety

Zone 1 & 2 – 21 & 22

II 2 GD

ATEX / IEC

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.
- Ideal for 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 and other commercial facilities.

### Features:

- High impact resistant black polycarbonate and polyester enclosures.
- Pillar type terminal block for easy connection.

- Available in two sizes: 4 mm<sup>2</sup> or 10 mm<sup>2</sup> for polycarbonate version and up to 6 mm<sup>2</sup> for polyester version.
- Unarmored or armored versions with earth continuity brass device.
- Operating temperature -40°C to +55°C for polycarbonate version and -55°C to +60°C for polyester version.

### Standard Materials:

#### JBEL Series:

- Static and impact resistant polycarbonate.
- Polyurethane cover gasket.
- Stainless steel hardware.

#### JBEP Series:

- Static resistant carbon filled fiberglass reinforced polyester (FRP) enclosures.
- Stainless steel hardware.

### Ordering Information – JBEL Series:

#### For Unarmored Cables 2.5/4 mm<sup>2</sup> 660 V

Supplied with 4 connection terminals. Maximum capacity per terminal:  
4 x 2.5 mm<sup>2</sup> or 2 x 4 mm<sup>2</sup> + 2 x 2.5 mm<sup>2</sup> and 4 interconnected earth terminals.  
Maximum capacity per earth terminal: 1 x 4 mm<sup>2</sup>



Type	Equipment	Rating (Amps)	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number	Pack
BJe1	4 x PG16 entries with knock-out caps (*) 4 x Integrated cable glands for unarmored cable diameter 8 to 16 mm (*) Knock-out caps can be used as plugs Important: Cables must be clamped close to the box	28 A/2.5 mm <sup>2</sup> 38 A/4 mm <sup>2</sup>	0.35	1.7	JBEL1N4P16G	096105	1

#### For Armored Cables 2.5/4 mm<sup>2</sup> 660 V

Supplied with 4 connection terminals. Maximum capacity per terminal:  
4 x 2.5 mm<sup>2</sup> or 2 x 4 mm<sup>2</sup> + 2 x 2.5 mm<sup>2</sup> and 4 interconnected earth terminals.  
Maximum capacity per earth terminal: 1 x 4 mm<sup>2</sup>



Type	Equipment	Rating (Amps)	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number	Pack
BJe1	4 x M20 entries with earth brass continuity device 2 x blanking plugs	28 A/2.5 mm <sup>2</sup> 38 A/4 mm <sup>2</sup>	0.4	1.7	JBEL1A4M20	096104	1

#### For Unarmored Cables 6/10 mm<sup>2</sup> 690 V

Supplied with 4 connection terminals. Maximum capacity per terminal:  
4 x 6 mm<sup>2</sup> or 3 x 10 mm<sup>2</sup> + 4 mm<sup>2</sup> and 4 interconnected earth terminals.  
Maximum capacity per earth terminal: 1 x 10 mm<sup>2</sup>



Type	Equipment	Rating (Amps)	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number	Old Catalog Number	Pack
BJe2	3 x M20 entries 3 x cable glands for unarmored cable (diameter 6.5 to 14.5 mm)	42A/10 mm <sup>2</sup> 30A/6 mm <sup>2</sup> 18A/4 mm <sup>2</sup>	0.7	4.5	JBEL2N3M20G	096112	1
BJe2	4 x M20 entries 4 x cable glands for unarmored cable (diameter 6.5 to 14.5 mm)		0.7	4.5	JBEL2N4M20G	096113	1
BJe2	3 x M25 entries 3 x cable glands for unarmored cable (diameter 8 to 18.5 mm)		0.7	4.5	JBEL2N3M25G	096118	1
BJe2	4 x M25 entries 4 x cable glands for unarmored cable (diameter 8 to 18.5 mm)		0.7	4.5	JBEL2N4M25G	096119	1

# Junction Boxes & Enclosures

## JBEL and JBEP Series: Polycarbonate and Polyester Junction Boxes Complete with Terminals – Increased Safety

Zone 1 & 2 – 21 & 22

⊕ II 2 GD

ATEX / IEC

IP66 – IK10

### Ordering Information – JBEP Series with Screw Terminals:



Supplied with 4 terminals and 2 earth terminals.

Type	Equipment	Entry Layout	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number		Pack
					Standard Terminal	Terminals Jumped 2 by 2	
CSPe1	4 x M20 with earth continuity device and two blanking plugs		1	–	JBEP3A4M206	JBEP3A4M206J	1
CSPe1	4 x M20 with 4 cable glands for unarmored cable (diameter 6.5 to 14.5 mm)		1.2	–	JBEP3N4M206G	JBEP3N4M206JG	1
CSPe1	4 x M20 with earth continuity device and two blanking plugs		1	–	JBEP3A4M2011	JBEP3A4M2011J	1
CSPe1	4 x M20 with 4 cable glands for unarmored cable (diameter 6.5 to 14.5 mm)		1.2	–	JBEP3N4M2011G	JBEP3N4M2011JG	1

Supplied with 6 terminals and 2 earth terminals.

Type	Equipment	Entry Layout	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number		Pack
					Standard Terminal	Terminals Jumped 2 by 2	
CSPe2	6 x M20 with earth continuity device and two blanking plugs		1.4	–	JBEP4A6M208	JBEP4A6M208J	1
CSPe2	6 x M20 with 4 cable glands for unarmored cable (diameter 6.5 to 14.5 mm)		1.4	–	JBEP4N6M208G	JBEP4N6M208JG	1

Supplied with 12 terminals and 3 earth terminals.

Type	Equipment	Entry Layout	Weight (kg)	Volume (dm <sup>3</sup> )	Catalog Number		Pack
					Standard Terminal	Terminals Jumped 2 by 2	
CSPe2	6 x M20 with earth continuity device and two blanking plugs		1.4	–	JBEP4A6M2015	JBEP4A6M2015J	1
CSPe2	6 x M20 with 4 cable glands for unarmored cable (diameter 6.5 to 14.5 mm)		1.4	–	JBEP4N6M2015G	JBEP4N6M2015JG	1

### Compliances:

Hazardous Area	Gas		Dust		Gas		Dust	
Certification Type	BJe1		BJe2		CSPe			
Zones	1–2		21–22		1–2		21–22	
Conforming to ATEX 94/9/C	CE 0081 ⊕ II 2 G		CE 0081 ⊕ II 2 D		CE 0081 ⊕ II 2 G		CE 0081 ⊕ II 2 D	
Symbol of Protection ATEX	Ex e II		Ex tD A21		Ex e II		Ex tD A21	
Symbol of Protection IEC	Ex e II		Ex tD A21		Ex e II		Ex tD A21	
T Rating	T6		NA		T6		NA	
Surface Temperature	NA		T75°C		NA		T80°C	
Ambient Temperature	-40°C to +55°C		-40°C to +55°C		-55°C to +60°C			
CE Declaration of Conformity	50226		50209		50284			
ATEX Certificate	LCIE 02 ATEX 6069		LCIE 99 ATEX 6003		LCIE 09 ATEX 3032X			
IEC Certificate	LCIE Ex 02.008		LCIE Ex 99.005		IECx LCI 09.0016X			
Other Certifications	GOST		GOST		GOST			
Index of Protection (solid and liquid)	IP66		IP66		IP66			
Impact resistance (shock)	IK10		IK10		IK10			