



Ex d IIB

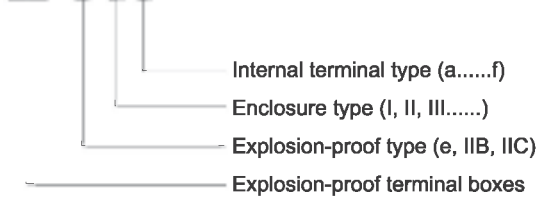
## Terminal Boxes

### BXJ Series Explosion-proof Terminal Boxes

- ◆ Explosion protection to
  - GENELEC
  - IEC
  - NEC
- ◆ Can be used in
  - Zone 1 and Zone 2
  - Zone 21 and Zone 22
  - Class I, Zone 1 and Zone 2
  - Class I, Division 1, Groups A, B, C, D
  - Class I, Division 2, Groups A, B, C, D
- ◆ Three explosion-proof types (Ex e, Ex d IIB and Ex d IIC).
- ◆ Copper-free aluminium enclosure; powder coated surface.
- ◆ Size and direction of cable entries can be customized on request.

### ■ Catalogue number logic

BXJ - □ - □ □



Ex d IIC



Ex e

Zones 1&2; 21&22

## Terminal Boxes

### BXJ-IIB Series Explosion-proof Terminal Boxes

#### Technical data

#### Explosion-proof terminal boxes(Ex d IIB) BXJ-IIB-□□

##### Explosion protection

Gas explosion protection

⊕ II 2 G Ex d IIB T6 Gb Ex d IIB T6

Dust explosion protection

⊕ II 1 D Ex t IIB T80°C Da IP66

##### Certificates

LCIE 11 ATEX 3013; IECEx LCI 08. 0003; POCC CN. Г Ъ 05.B03637(Russia)

##### Conformity to standards

EN 60079-0:2009, EN 60079-1:2007, EN 60079-31:2009

IEC 60079-0:2004, IEC 60079-1:2003

##### Enclosure material

Copper-free aluminium; powder coated surface

##### Enclosure colour

Window grey (RAL7040)

##### Terminal

Weidmuller SAK EN series

Ex-mark: ⊕ II 2 GD Ex e II

##### Exposed fastener

Stainless steel

##### Rated voltage

Max. 500V AC

##### Rated current

Cross section	2.5mm <sup>2</sup>	4mm <sup>2</sup>	6mm <sup>2</sup>	10mm <sup>2</sup>	16mm <sup>2</sup>	35mm <sup>2</sup>	70mm <sup>2</sup>	240mm <sup>2</sup>
Rated current	24A	32A	41A	57A	76A	125A	192A	400A

##### Degree of protection

IP66

##### Ambient temperature


-60°C~+55°C

##### Note


Rated current > 400A on request

#### Cable entry table

Table of max. number of possible enclosure entries with cable glands DQM-II

	I		II		IIb		III		IIIb		IV		IV b	
	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D
Size	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D
M20 x 1.5	5	8	5	10	5	12	10	12	16	20	12	16	22	30
M25 x 1.5	5	7	5	9	5	10	9	11	12	15	11	14	15	20
M32 x 1.5	2	3	2	4	2	6	7	9	9	12	9	12	12	16
M40 x 1.5	2	2	2	3	2	4	3	4	5	6	4	5	6	9
M50 x 1.5	1	2	1	3	1	3	3	3	4	5	3	4	5	7
M63 x 1.5	1	2	1	2	1	3	2	3	2	3	3	3	3	5

	V		Vb		VI		VIb		VII		VIIb	
	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D
Size	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D
M20 x 1.5	14	21	24	40	19	33	30	50	28	41	45	65
M25 x 1.5	12	19	18	27	16	28	20	36	25	35	30	44
M32 x 1.5	10	15	14	21	13	22	18	30	21	29	25	36
M40 x 1.5	4	7	8	12	7	13	11	18	11	16	15	21
M50 x 1.5	4	5	5	9	6	11	6	10	10	13	12	12
M63 x 1.5	3	5	4	7	3	5	5	9	4	6	7	10

Note: 1. No cable entries for standard design. Cable entries shall be drilled by user.

2. For cable entries:

1) Please specify the direction and size of each cable entry.

2) Cable gland is optional, DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~25.

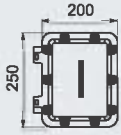
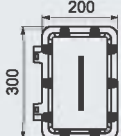
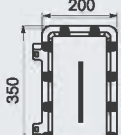
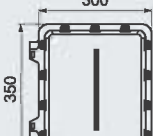
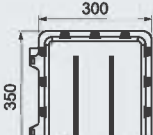
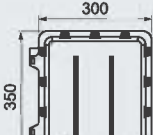
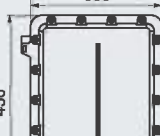
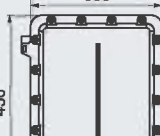
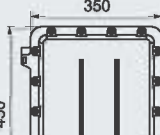
## Terminal Boxes

## BXJ-IIB Series Explosion-proof Terminal Boxes

Selection table of BXJ-IIB series explosion-proof terminal boxes

Max. cross section of cable connected to terminals is 35mm<sup>2</sup>

See table for max. number of fitted terminals

Enclosure code/Ordering code	Cable size (mm <sup>2</sup> ) Outline	2.5 (a)	4 (b)	6 (c)	10 (d)	16 (e)	35 (f)	Weight (kg)
		SAK 2.5EN	SAK 4EN	SAK 6EN	SAK 10EN	SAK 16EN	SAK 35EN	
I		16	15	12	10	8	—	7.50
II		22	18	14	12	10	—	9.00
IIb		28	25	20	15	12	—	10.00
III, IIIb		32	30	24	20	16	8	16.00 (III)
		50	46	40	—	—	—	19.80 (IIIb)
		50	46	40	—	—	—	16.50 (III)
IV, IVb		45	40	34	28	24	16	25.50 (IV)
		80	70	60	40	—	—	30.00 (IVb)
		80	70	60	40	—	—	26.30 (IV)
								31.00 (IVb)

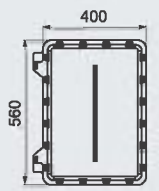
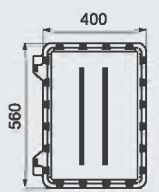
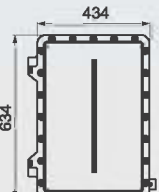
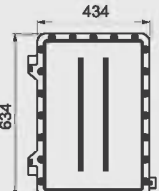
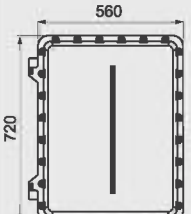
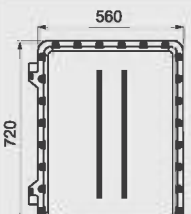
## Terminal Boxes

### BXJ-IIB Series Explosion-proof Terminal Boxes

**Selection table of BXJ-IIB series explosion-proof terminal boxes**

Max. cross section of cable connected to terminals is 240mm<sup>2</sup>

See table for max. number of fitted terminals

Cable size (mm <sup>2</sup> )		2.5 (a)	4 (b)	6 (c)	10 (d)	16 (e)	35 (f)	70 (g)	240 (h)	Weight
Enclosure code/Ordering code	Outline	SAK 2.5EN	SAK 4EN	SAK 6EN	SAK 10EN	SAK 16EN	SAK 35EN	SAK 70EN	ST4000LM12	(kg)
V, Vb		60	56	48	36	30	20	—	—	38.00 (V)
		—	—	—	—	—	—	—	—	—
		110	100	90	70	56	—	—	—	39.00 (V)
		—	—	—	—	—	—	—	—	—
VI, VIb		80	70	60	50	35	20	10	6	50.00 (VI)
		—	—	—	—	—	—	—	—	—
		160	140	120	100	70	—	—	—	51.50 (VI)
		—	—	—	—	—	—	—	—	—
VII, VIIb		90	80	70	60	40	25	15	9	80.00 (VII)
		—	—	—	—	—	—	—	—	—
		180	160	140	120	80	—	—	—	82.00 (VII)
		—	—	—	—	—	—	—	—	—



## Terminal Boxes

## BXJ-IIC Series Explosion-proof Terminal Boxes

## Technical data

## Explosion-proof terminal boxes (Ex d IIC) BXJ- IIC-□□

<b>Explosion protection</b>							
Gas explosion protection	⊕ II 2 G Ex d IIC T6 Gb						
Dust explosion protection	⊕ II 2 D Ex tb IIIC T80°C Db IP65						
<b>Certificates</b>	Nemko 09 ATEX 1012; IECEX CQM 11.0027; GOST.R (Russia);						
<b>Conformity to standards</b>	EN 60079-0:2009, EN 60079-1:2007, EN 60079-31:2009 IEC 60079-0:2011, IEC 60079-1:2007, IEC 60079-31:2008						
<b>Enclosure material</b>	Copper-free aluminium; powder coated surface						
<b>Enclosure colour</b>	Window grey (RAL7040)						
<b>Terminal</b>	Weidmuller SAK EN series Ex-mark: ⊕ II 2 GD Ex e II						
<b>Exposed fastener</b>	Stainless steel						
<b>Rated voltage</b>	Max. 690V AC						
<b>Rated current</b>	Cross section	2.5mm <sup>2</sup>	4mm <sup>2</sup>	6mm <sup>2</sup>	10mm <sup>2</sup>	16mm <sup>2</sup>	35mm <sup>2</sup>
	Rated current	24A	32A	41A	57A	76A	125A
<b>Degree of protection</b>	IP65						
<b>Ambient temperature</b>	-20°C~+55°C						
<b>Note</b>	Rated current > 125A on request						

## Cable entry table

Table of max. number of possible enclosure entries with cable glands DQM-II

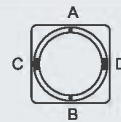
Size	I		II		III		IV		V		VI	
	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D
M20×1.5	3	3	4	4	10	10	11	11	15	15	17	17
M25×1.5	3	3	4	4	9	9	10	10	13	13	15	15
M32×1.5	2	2	3	3	7	7	8	8	11	11	12	12
M40×1.5	2	2	3	3	3	3	4	4	5	5	5	5
M50×1.5	/	/	/	/	3	3	3	3	4	4	5	5
M63×1.5	/	/	/	/	2	2	2	2	3	3	4	4

**Note:** 1. No cable entries for standard design. Cable entries shall be drilled by user.

2. For cable entries:

1) Please specify the direction and size of each cable entry.

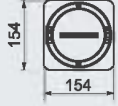
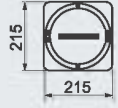
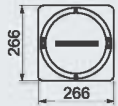
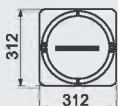

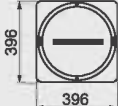
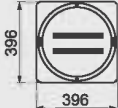
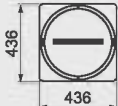
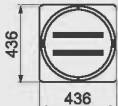
2) Cable gland is optional, DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~25.



### Selection table of BXJ-IIC series explosion-proof terminal boxes

Max. cross section of cable connected to terminals is 35mm<sup>2</sup>

See table for max. number of fitted terminals

Cable size (mm <sup>2</sup> )		2.5 (a)	4 (b)	6 (c)	10 (d)	16 (e)	35 (f)	Weight (kg)
Enclosure code/Ordering code	Outline	SAK 2.5EN	SAK 4EN	SAK 6EN	SAK 10EN	SAK 16EN	SAK 35EN	
I		10	8	6	—	—	—	3.50
		20	18	15	12	10	—	
III		25	24	20	15	12	6	12.00
		32	30	25	18	14	10	
IV		44	40	32	22	—	—	15.50
		48	44	38	30	20	12	
V		72	60	50	40	—	—	21.50
		55	50	40	34	26	15	
VI		90	80	60	50	—	—	24.50





## Terminal Boxes

### BXJ-e Series Terminal Boxes

#### Technical data

#### Terminal boxes (Ex e) BXJ-e-□□

#### Explosion protection

Gas explosion protection  
Dust explosion protection

⊕ II 2 G Ex e IIC T6 or T5 Gb      ⊕ II 2 G Ex ib IIC T6 Gb  
⊕ II 2 D Ex tb IIIC T80°C Db IP66

#### Certificates

LCIE 13 ATEX \_\_\_\_; IECEX; GOST.R (Russia); PCEC(China)

#### Conformity to standards

EN 60079-0:2009, EN 60079-7:2007  
EN 60079-11:2007, EN 60079-31:2009  
IEC 60079-0:2011, IEC 60079-7:2006  
IEC 60079-11:2006, IEC 60079-31:2008

#### Enclosure material

Copper-free aluminium; powder coated surface

#### Enclosure colour

Window grey (RAL7040)

#### Terminal

Weidmuller SAK EN series

Ex-mark: ⊕ II 2 GD Ex e II

#### Exposed fastener

Stainless steel

#### Rated voltage

Max. 690V AC

#### Rated current

Cross section	2.5mm <sup>2</sup>	4mm <sup>2</sup>	6mm <sup>2</sup>	10mm <sup>2</sup>	16mm <sup>2</sup>	35mm <sup>2</sup>
Ex e Rated current	24A	32A	41A	57A	76A	125A
Ex ib Rated current	5A	5A	-	-	-	-

#### Degree of protection

IP66

#### Ambient temperature

For increased safety terminal box: T6 for Tamb: -40°C ~ +40°C; T5 for Tamb: -40°C ~ +55°C  
For intrinsic safety terminal box: T6 for Tamb: -40°C ~ +55°C

#### Note

Ex e Rated current > 125A on request

#### Cable entry table

Table of max. number of possible enclosure entries with cable glands DQM-I

Size	I		II		III		IV		V		VI		VII		VIII	
	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D
M20 x 1.5	2	3	4	4	4	6	6	6	6	10	10	10	8	12	12	18
M25 x 1.5	2	3	3	3	3	4	4	4	5	9	9	9	7	10	10	16
M32 x 1.5	1	2	2	2	2	3	3	3	3	4	4	4	4	6	6	10
M40 x 1.5	1	2	2	2	2	3	3	3	2	3	3	3	2	3	3	5
M50 x 1.5	/	/	/	/	/	/	/	/	/	3	3	3	2	3	3	5
M63 x 1.5	/	/	/	/	/	/	/	/	/	2	2	2	2	3	3	4

**Note:** 1. No cable entries for standard design. Cable entries shall be drilled by user.












2. For cable entries:

- 1) Please specify the direction and size of each cable entry.
- 2) Cable gland is optional, DQM-I (Ex e) is recommended. Please see P7/17~19.

**Selection table of BXJ-e series terminal boxes**

Max. cross section of cable connected to terminals is 35mm<sup>2</sup>

See table for max. number of fitted terminals

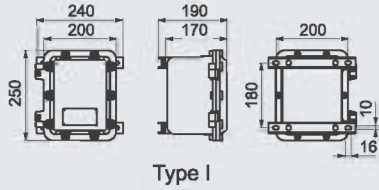
Enclosure code/Ordering code	Cable size (mm <sup>2</sup> ) Outline	2.5 (a)	4 (b)	6 (c)	10 (d)	16 (e)	35 (f)	Weight (kg)
		SAK 2.5EN	SAK 4EN	SAK 6EN	SAK 10EN	SAK 16EN	SAK 35EN	
I		16	15	12	10	—	—	2.40
II		16	15	12	10	8	—	2.80
III		25	22	20	15	12	—	3.80
IV		25	22	20	15	12	8	5.10
V		35	30	25	20	15	—	5.80
VI		35	30	25	20	15	10	7.10
		60	50	40	—	—	—	7.50
VII		40	35	30	24	18	12	7.00
		40	40	30	—	—	—	7.00
VIII		60	55	40	30	20	15	9.50
		100	90	66	60	40	—	9.70



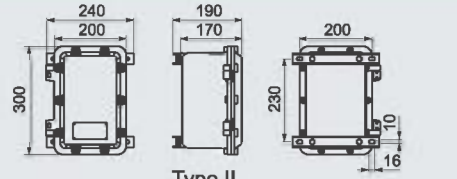


Dimension drawings (all dimensions in mm) - subject to alteration

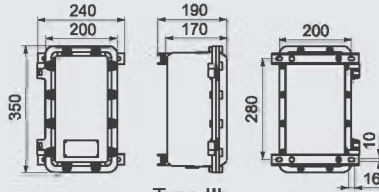
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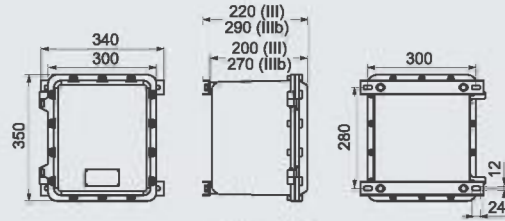
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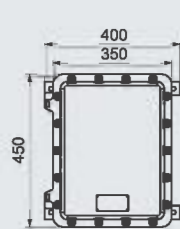
Type II



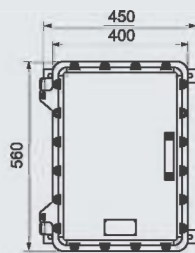
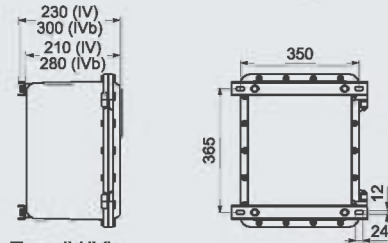
Type IIb



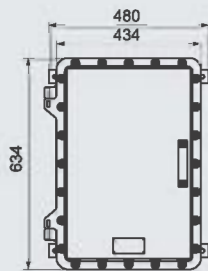
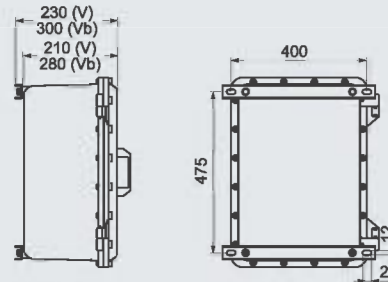
Type III, IIIb



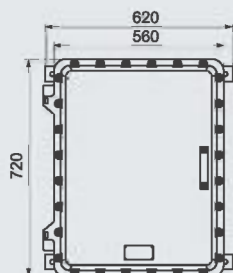
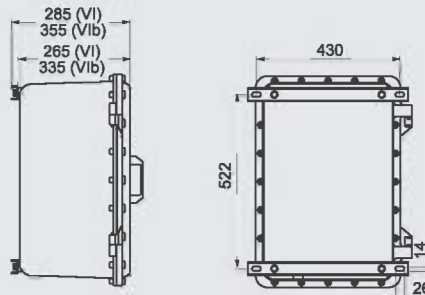
Type IV, IVb



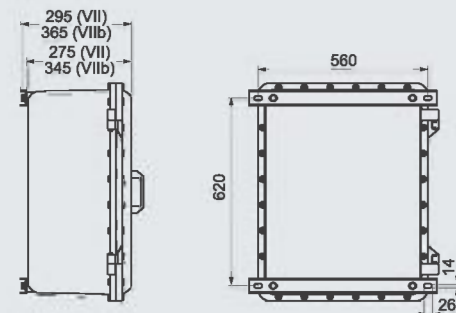
Type V, Vb



Type VI, VIb

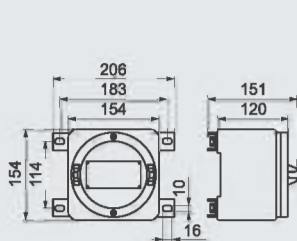


Type VII, VIIb

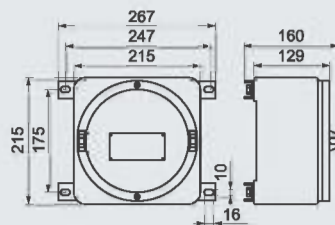


**Dimension drawings (all dimensions in mm) - subject to alteration**

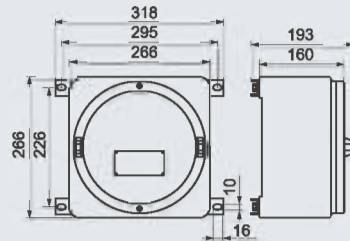
**BJX- IIC-□□**



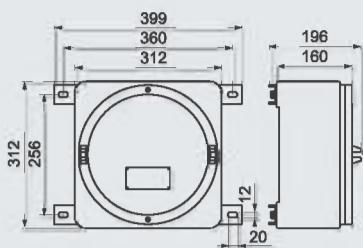
Type I



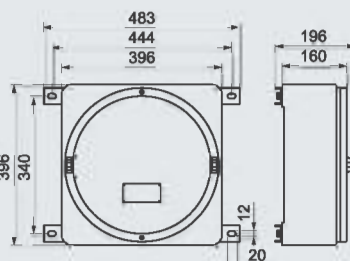
Type II



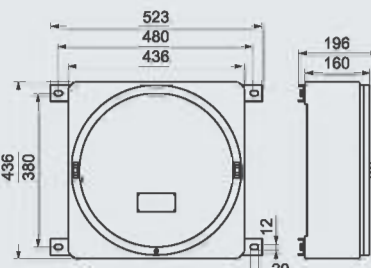
Type III



Type IV



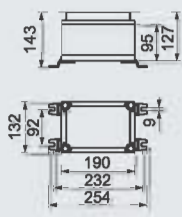
Type V



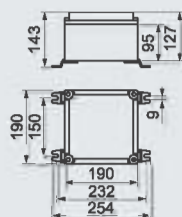
Type VI

**Dimension drawings (all dimensions in mm) - subject to alteration**

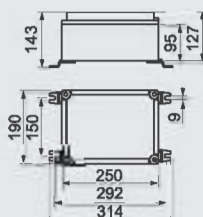
**BJX- e-□□**



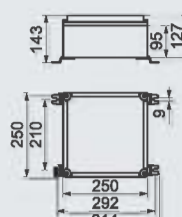
Type I



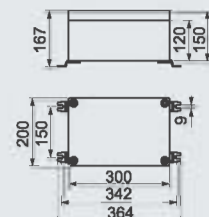
Type II



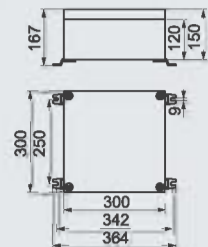
Type III



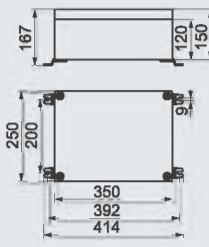
Type IV



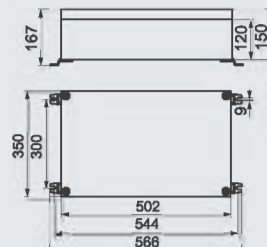
Type V



Type VI



Type VII



Type VIII

