

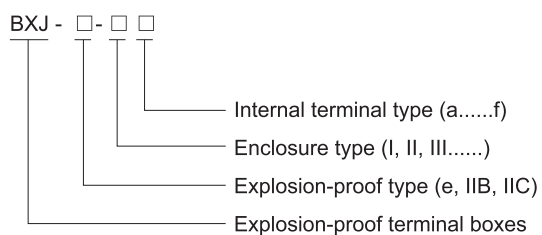
## Terminal Boxes BXJ Series Explosion-proof Terminal Boxes



Ex d IIB

- ◆ Explosion protection to
  - CENELEC
  - 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).
- ◆ Enclosure: Copper-free aluminium (carbon steel or stainless steel is optional), powder coated surface.
- ◆ Size and direction of cable entries can be customized on request.

### ■ Catalogue number logic



Ex d IIC




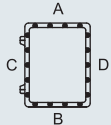

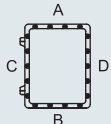
Ex e IIC

# Zones 1&2; 21&22

## Terminal Boxes

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

Technical data	
<b>Explosion-proof terminal boxes(Ex d IIB) BXJ-IIB-□□</b>	
<b>Explosion protection</b>	
Gas explosion protection	⊕ II 2 G Ex d IIB T6 Gb Ex d IIB T6 or T5 Gb
Dust explosion protection	⊕ II 1 D Ex t III B T80°C Da IP66 Ex tb IIIC T80°C or T95°C Db IP66
<b>Certificates</b>	LCIE 11 ATEX 3013 IECEx CQM 14. 0061X KZ.7500525.22.01.00364 (CU-TR) RU C-CN.ГБ05.B.00345 (CU-TR)
<b>Conformity to standards</b>	EN 60079-0, EN 60079-1, EN 60079-31 IEC 60079-0, IEC 60079-1, IEC 60079-31
<b>Enclosure material</b>	Copper-free aluminium (carbon steel or stainless steel is optional), powder coated surface
<b>Enclosure colour</b>	Window grey (RAL7040)
<b>Terminal</b>	International brand of terminal
<b>Exposed fastener</b>	Stainless steel
<b>Ambient temperature</b>	-60°C ~ +55°C T6/T80°C for Tamb: -60°C ~ +40°C, T5/T95°C for Tamb: -60°C ~ +55°C
<b>Rated voltage</b>	Max. 500V AC (ATEX certificate) Max. 800V AC (IECEX certificate)
<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> 70mm <sup>2</sup> 240mm <sup>2</sup> Rated current 24A 32A 41A 57A 76A 125A 192A 400A
<b>Degree of protection</b>	IP66, IP67 (optional)
<b>Note</b>	Rated current > 400A on request

Cable entry table															
Table of max. number of possible enclosure entries with cable glands DQM-II															
	I		II		II b		III		III b		IV		IV b		
															
	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		V b		VI		VI b		VII		VII b				
															
	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	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			
<b>Note:</b>		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 P7/20~27.													



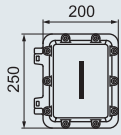
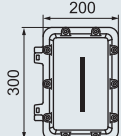
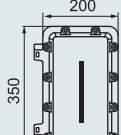
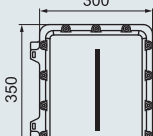
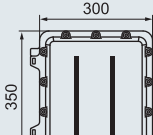
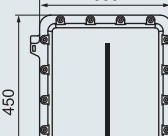
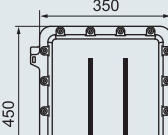
## Terminal Boxes

## BXJ-II B Series Explosion-proof Terminal Boxes

Selection table of BXJ-II B 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

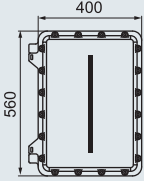
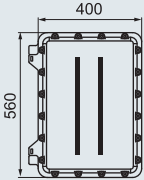
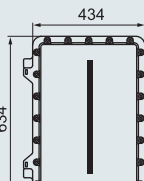
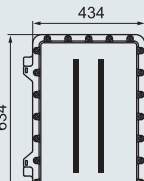
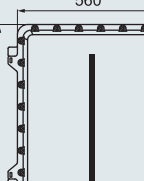
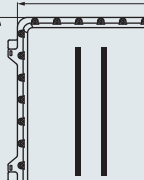
Enclosure code/Ordering code	Cross section of cable (mm <sup>2</sup> ) Outline	2.5 (a)	4 (b)	6 (c)	10 (d)	16 (e)	35 (f)	Max. dissipated power (W)	Weight (kg)
I		16	15	12	10	8	—	9.8	7.50
II		22	18	14	12	10	—	14.4	9.00
II b		28	25	20	15	12	—	14.4	10.00
III, III b		32	30	24	20	16	8	22.2	16.00 (III)
									19.80 (III b)
		50	46	40	—	—	—	22.2	16.50 (III)
									20.50 (III b)
IV, IV b		45	40	34	28	24	16	25.2	25.50 (IV)
									30.00 (IV b)
		80	70	60	40	—	—	25.2	26.30 (IV)
									31.00 (IV b)

## 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

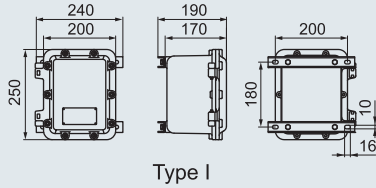
Cross section of cable (mm <sup>2</sup> )		2.5 (a)	4 (b)	6 (c)	10 (d)	16 (e)	35 (f)	70 (g)	240 (h)	Max. dissipated power (W)	Weight (kg)
Enclosure code/ Ordering code	Outline										
V, Vb		60	56	48	36	30	20	---	---	55.3	38.00 (V)
											43.00 (Vb)
		110	100	90	70	66	---	---	---	55.3	39.00 (V)
											44.00 (Vb)
VI, VIb		80	70	60	50	35	20	10	6	64.5	50.00 (VI)
											56.50 (VIb)
		160	140	120	100	70	---	---	---	64.5	51.50 (VI)
											58.00 (VIb)
VII, VIIb		90	80	70	60	40	25	15	9	93.1	80.00 (VII)
											88.50 (VIIb)
		180	160	140	120	80	---	---	---	93.1	82.00 (VII)
											91.50 (VIIb)



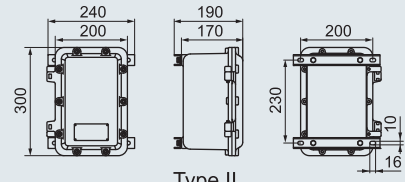
## Terminal Boxes BXJ Series Explosion-proof Terminal Boxes

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

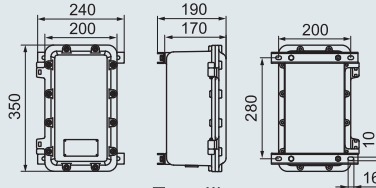
BXJ- IIB-□□



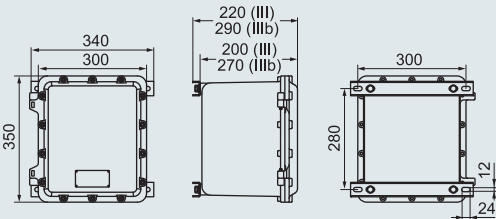
Type I



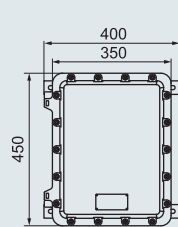
Type II



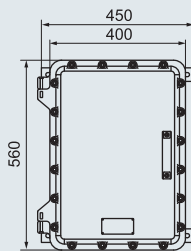
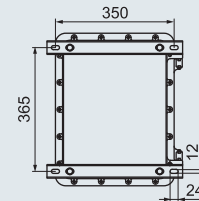
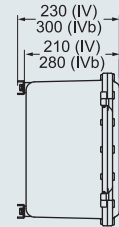
Type IIb



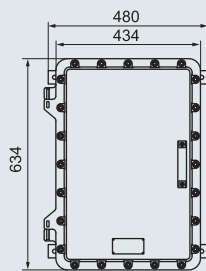
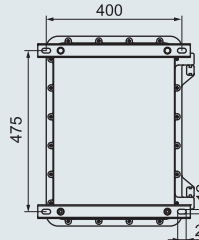
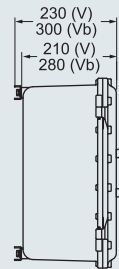
Type III, IIIb



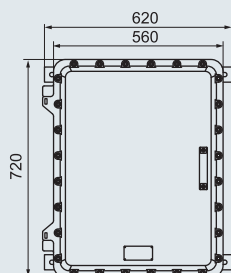
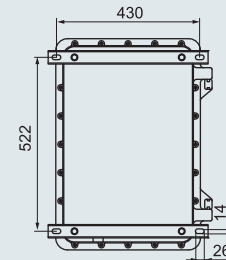
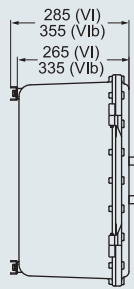
Type IV, IVb



Type V, Vb



Type VI, VIb



Type VII, VIIb

