

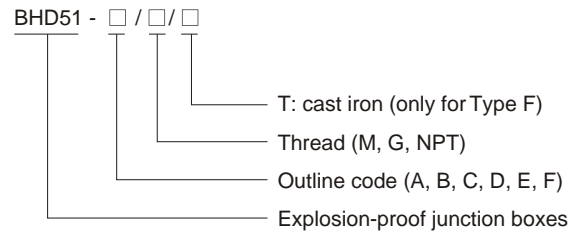


Junction Boxes

BHD51 Series Explosion-proof Junction Boxes

- ◆ Explosion protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- ◆ Six types: A, B, C, D, E, F.
- ◆ Type A, B, C, D, E in copper-free aluminium only; Type F in copper-free aluminium or cast iron.

■ Catalogue number logic





Selection table

Type/Ordering code	Schematic diagram	Weight (kg)	
BHD51-A/M20 x 1.5	Type A 	0.70	
BHD51-A/M25 x 1.5			
BHD51-B/M20 x 1.5	Type B 	0.70	
BHD51-B/M25 x 1.5			
BHD51-C/M20 x 1.5	Type C 	0.70	
BHD51-C/M25 x 1.5			
BHD51-D/M20 x 1.5	Type D 	0.70	
BHD51-D/M25 x 1.5			
BHD51-E/M20 x 1.5	Type E 	0.70	
BHD51-E/M25 x 1.5			
BHD51-F/M25 x 1.5	Type F 	Copper-free aluminium	0.80
		Cast iron	2.10

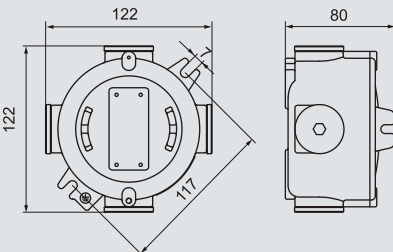
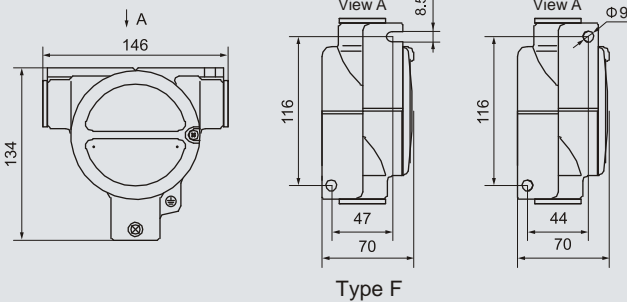
Zones 1&2; 21&22



Technical data	
Explosion-proof junction boxes BHD51-□/□/□	
Explosion protection	<p>Gas explosion protection Ex II 2 G Ex d IIC T6 Gb</p> <p>Dust explosion protection Ex II 2 D Ex t IIIC T80°C Db IP66</p>
Certificates	LCIE 11 ATEX 3005; IECEx CQM 11.0022X; POCC CN. ГТБ 05.B03637(Russia); FM(USA)
Conformity to standards	EN 60079-0:2009, EN 60079-1:2007, EN 60079-31:2009 IEC 60079-0:2007, IEC 60079-1:2007, IEC 60079-31:2008
Enclosure material	Copper-free aluminium or cast iron; powder coated external surface
Enclosure colour	Yellow (RAL1021)
Exposed fastener	Stainless steel
Rated current	20A
Rated voltage	Max. 500V AC
Terminal data	
Number	6 terminals (Type A-E), 4 terminals (Type F)
Cable cross section	0.2~2.5mm ²
Degree of protection	IP66
Ambient temperature	-60°C~+55°C
Cable entries	Standard M□ x 1.5 plug G□ plug or NPT□ plug on request
Cable gland(optional)	DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~25.
Main application	Type A-E are used for wiring or branching; Type F is used as accessory for pendant pole type or ceiling type light fittings.

Terminals					
Description	Illustration	Number	Ordering code	Weight (kg)	Note
Terminal		6	30008	0.10	For Type A, B, C, D, E
Terminal block		4	30009	0.10	For Type F



Dimension drawings (all dimensions in mm) - subject to alteration			
 <p>Type A, B, C, D, E</p>	 <p>Copper-free aluminium</p> <p>Cast iron</p> <p>Type F</p>		
<p>Application instruction:</p> <p>1. Type F (copper-free aluminium) is used as mounting accessory for light fittings BAD61-125, BAD81, BAD, BDD81, BAD85 etc.</p> <p>2. Type F (cast iron) is used as mounting accessory for light fittings BAD61-250, BAD61-400, etc.</p>			



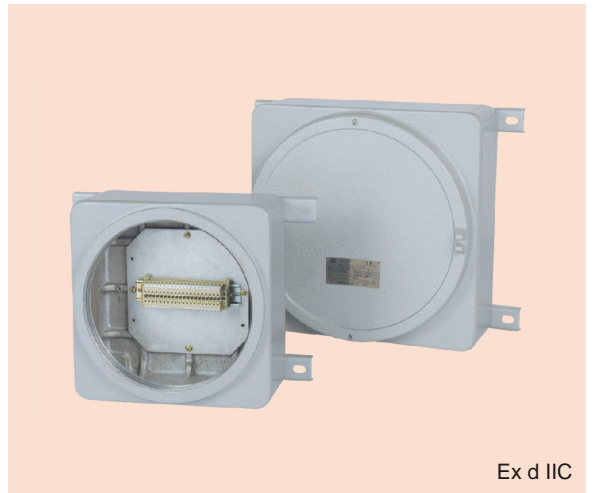
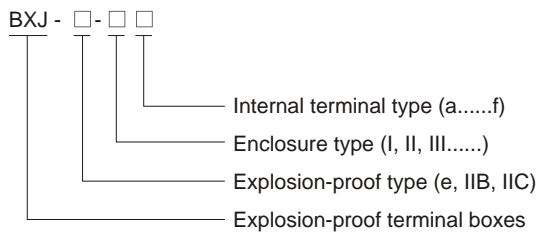
Ex d IIB

Terminal Boxes

BXJ Series Explosion-proof Terminal Boxes

- ◆ Explosion protection to
 - CENELEC
 - IEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- ◆ Three explosion-proof types (Ex e, Ex d IIB and Ex d IIC).
- ◆ Copper-free aluminium enclosure; powder coated external surface.
- ◆ Size and direction of cable entries can be customized on request.

■ Catalogue number logic



Ex d IIC



Ex e

Zones 1&2; 21&22

Technical data																			
Explosion-proof terminal boxes(Ex d IIB) BXJ-IIB-□□																			
Explosion protection	Ⓔ II 2 G Ex d IIB T6 Gb Ex d IIB T6 Ⓔ II 1 D Ex t IIIB T80°C Da IP66																		
Gas explosion protection																			
Dust explosion protection																			
Certificates	LCIE 11 ATEX 3013; IECEx LCI 08. 0003; POCC CN. Г ТБ 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 external 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	<table border="1"> <thead> <tr> <th>Cross section</th> <th>2.5mm²</th> <th>4mm²</th> <th>6mm²</th> <th>10mm²</th> <th>16mm²</th> <th>35mm²</th> <th>70mm²</th> <th>240mm²</th> </tr> </thead> <tbody> <tr> <td>Rated current</td> <td>24A</td> <td>32A</td> <td>41A</td> <td>57A</td> <td>76A</td> <td>125A</td> <td>192A</td> <td>400A</td> </tr> </tbody> </table>	Cross section	2.5mm ²	4mm ²	6mm ²	10mm ²	16mm ²	35mm ²	70mm ²	240mm ²	Rated current	24A	32A	41A	57A	76A	125A	192A	400A
Cross section	2.5mm ²	4mm ²	6mm ²	10mm ²	16mm ²	35mm ²	70mm ²	240mm ²											
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								
	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	Vlb	VII	VIIb									
	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.													

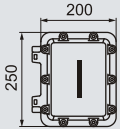
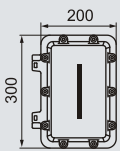
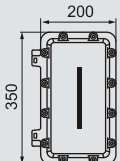
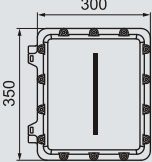
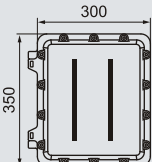
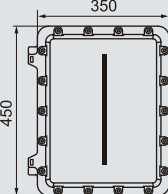
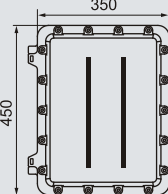
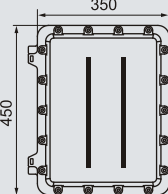


Terminal Boxes BXJ-IIB Series Explosion-proof Terminal Boxes

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

Max. cross section of cable connected to terminals is 35mm²

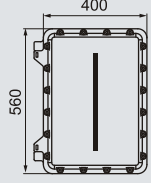
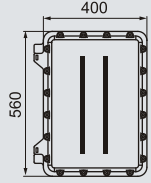
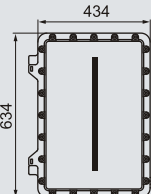
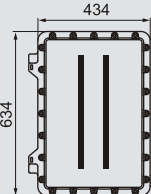
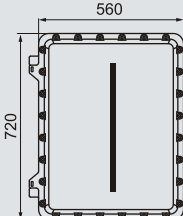
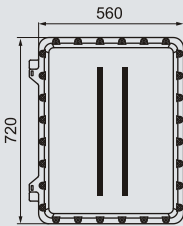
See table for max. number of fitted terminals

Cable size (mm ²)		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		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)
IV, IVb		45	40	34	28	24	16	16.50 (III)
		80	70	60	40	—	—	20.50 (IIIb)
		80	70	60	40	—	—	25.50 (IV)
								30.00 (IVb)
								26.30 (IV)
								31.00 (IVb)



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

Max. cross section of cable connected to terminals is 240mm²
See table for max. number of fitted terminals

Cable size (mm ²)		2.5 (a)	4 (b)	6 (c)	10 (d)	16 (e)	35 (f)	70 (g)	240 (h)	Weight (kg)
Enclosure code/Ordering code	Outline	SAK 2.5EN	SAK 4EN	SAK 6EN	SAK 10EN	SAK 16EN	SAK 35EN	SAK 70EN	ST4000LM12	
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)




Technical data

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

Explosion protection	Ex II 2 G Ex d IIC T6	Ex d IIC T6 Gb
Certificates	Nemko 09 ATEX 1012; IECEx CQM 11.0027; GOST.R (Russia);	
Conformity to standards	EN 60079-0:2006, EN 60079-1:2004 IEC 60079-0:2007, IEC 60079-1:2007	
Enclosure material	Copper-free aluminium; powder coated external surface	
Enclosure colour	Window grey (RAL7040)	
Terminal	Weidmuller SAK EN series Ex-mark: Ex II 2 GD Ex e II	
Exposed fastener	Stainless steel	
Rated voltage	Max. 500V AC	
Rated current	Cross section	2.5mm ² 4mm ² 6mm ² 10mm ² 16mm ² 35mm ²
	Rated current	24A 32A 41A 57A 76A 125A
Degree of protection	IP65	
Ambient temperature	-20°C ~ +55°C	
Note	Rated current > 125A on request	

Cable entry table

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

	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:

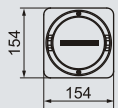
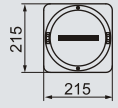
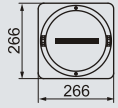
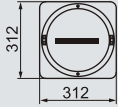
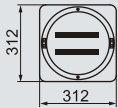
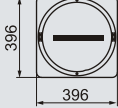
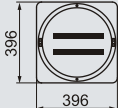
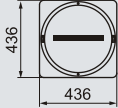
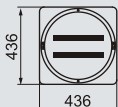
1) Please specify the direction and size of each cable entry.

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 35mm²

See table for max. number of fitted terminals

Cable size (mm ²)		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




Technical data

Explosion-proof terminal boxes (Ex e) BXJ-e-□□

Explosion protection	Gas explosion protection Ex II 2 G Ex e IIC T6 Gb Dust explosion protection Ex II 2 D Ex t IIIC T80°C Db IP65						
Certificates	LCIE 12 ATEX____; IECEX; GOST.R (Russia); PCEC(China)						
Conformity to standards	EN 60079-0:2009, EN 60079-7:2007, EN 60079-31:2009 IEC 60079-0:2007, IEC 60079-7:2006, IEC 60079-31:2008						
Enclosure material	Copper-free aluminium; powder coated external surface						
Enclosure colour	Window grey (RAL7040)						
Terminal	Weidmuller SAK EN series Ex-mark: Ex II 2 GD Ex e II						
Exposed fastener	Stainless steel						
Rated voltage	Max. 500V AC						
Rated current	Cross section	2.5mm ²	4mm ²	6mm ²	10mm ²	16mm ²	35mm ²
	Rated current	24A	32A	41A	57A	76A	125A
Degree of protection	IP65						
Ambient temperature	-60°C~+55°C						
Note	Rated current >125A on request						

Cable entry table

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

	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.











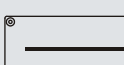
2. For cable entries:

- 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 explosion-proof terminal boxes

Max. cross section of cable connected to terminals is 35mm²

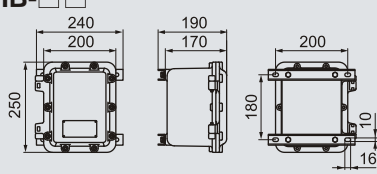
See table for max. number of fitted terminals

Enclosure code/Ordering code	Cable size (mm ²) 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

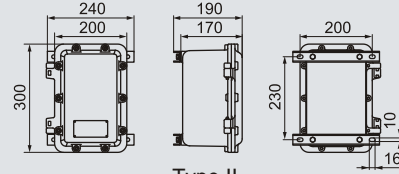


Dimension drawings (all dimensions in mm) - subject to alteration

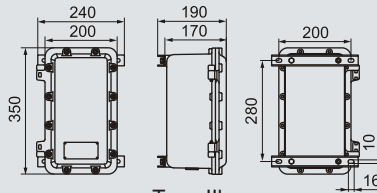
BXJ- IIB-□□



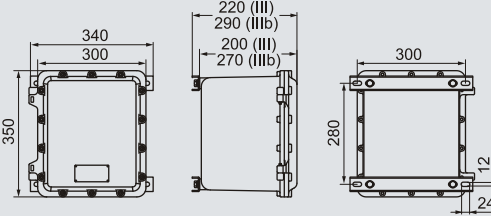
Type I



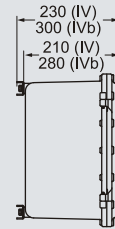
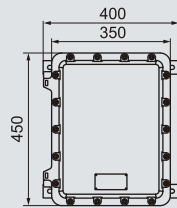
Type II



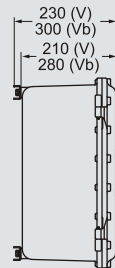
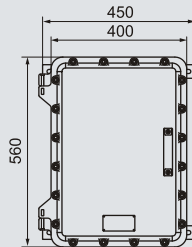
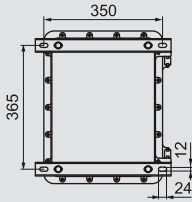
Type IIb



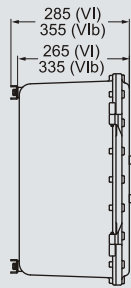
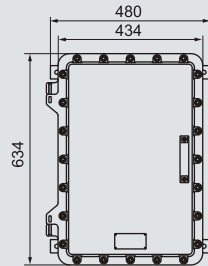
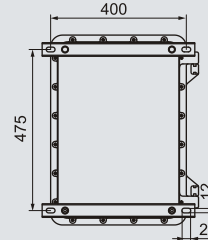
Type III, IIIb



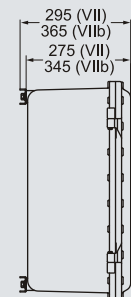
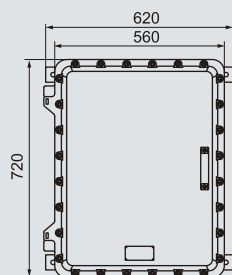
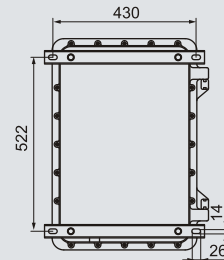
Type IV, IVb



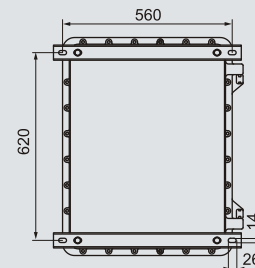
Type V, Vb



Type VI, VIb

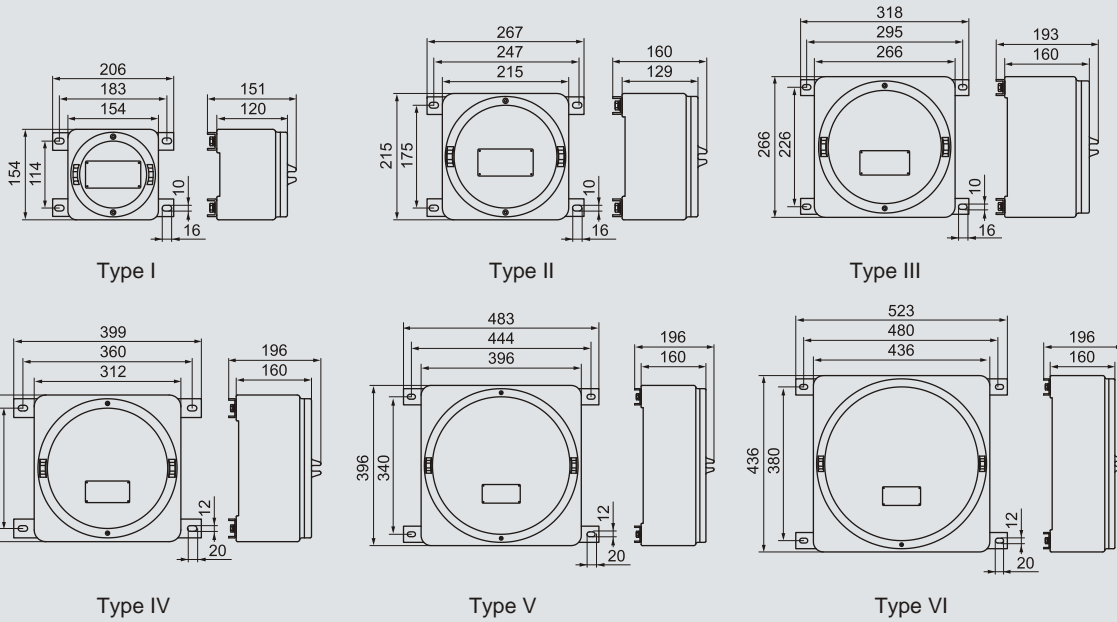


Type VII, VIIb



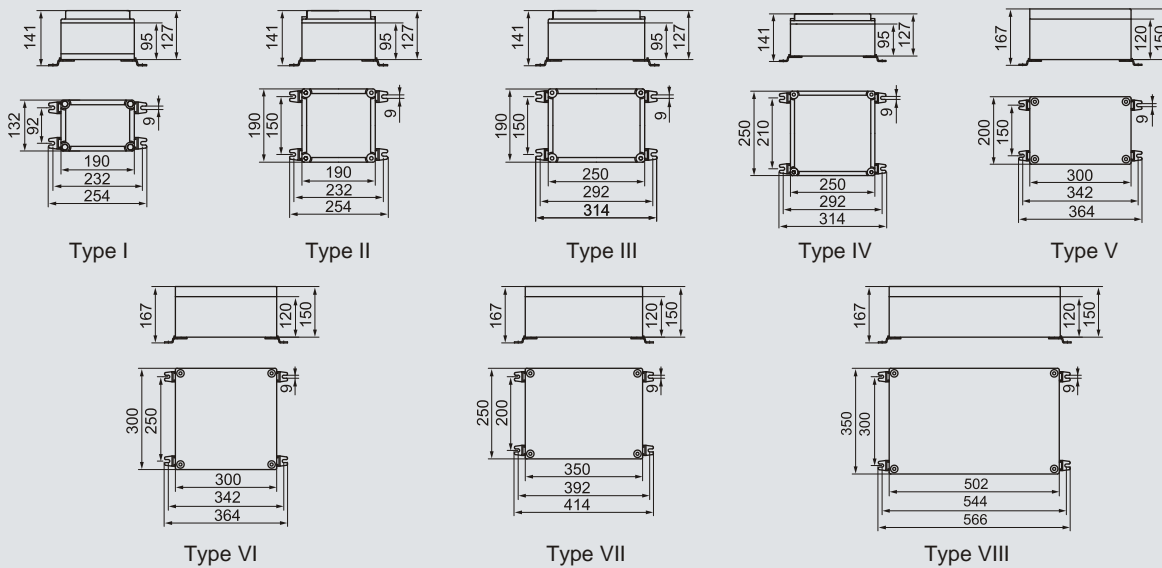
Dimension drawings (all dimensions in mm) - subject to alteration

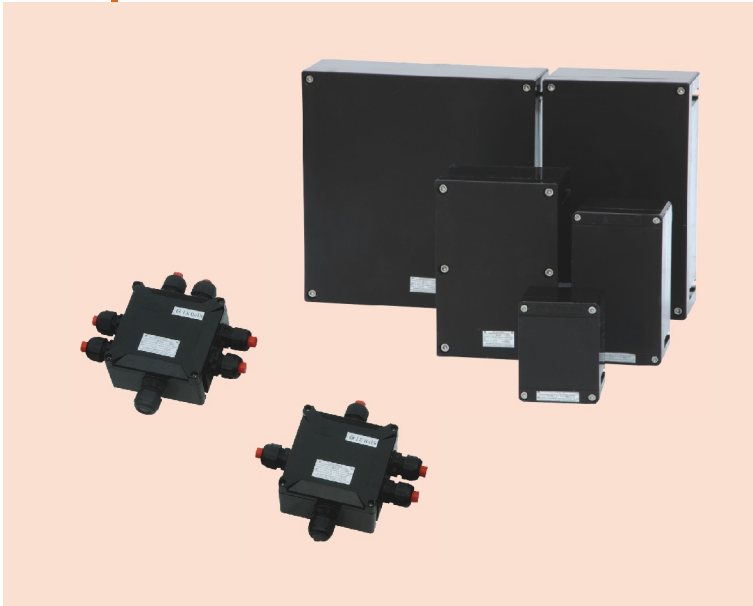
BXJ- IIC-□□



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

BXJ- e-□□



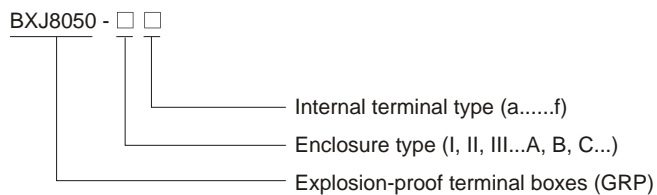


Terminal Boxes

BXJ8050 Series Explosion-proof Terminal Boxes (Ex e)


- ◆ Explosion protection to
 - CENELEC
 - IEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- ◆ GRP (glass fibre-reinforced polyester resin) enclosure
- ◆ Weidmuller SAK EN series terminals

■ Catalogue number logic



Zones 1&2; 21&22

Technical data															
Explosion-proof terminal boxes (Ex e) BXJ8050-□□															
Explosion protection	<p>Gas explosion protection $\text{Ex II 2 G Ex e II T6}$</p> <p>Dust explosion protection Ex tD A21 T80°C IP65</p>														
Certificates	<p>For gas explosion protection PTB 06 ATEX 1013; IECEx CQM 07.0013; BR229793-X (Brazil)</p> <p>For dust explosion protection PCEC (China)</p>														
Conformity to standards	<p>EN 50014:1997+A1+A2, EN 50019:2000</p> <p>IEC 60079-0:2004, IEC 60079-7:2001, IEC 61241-0:2004, IEC 61241-1:2004</p>														
Enclosure material	GRP (glass fibre-reinforced polyester resin)														
Terminal	<p>Weidmuller SAK EN series</p> <p>Ex-mark: $\text{Ex II 2 GD Ex e II}$</p>														
Exposed fastener	Stainless steel														
Rated voltage	Max. 500V AC														
Rated current	<table border="1"> <thead> <tr> <th>Cross section</th> <th>2.5mm²</th> <th>4mm²</th> <th>6mm²</th> <th>10mm²</th> <th>16mm²</th> <th>35mm²</th> </tr> </thead> <tbody> <tr> <td>Rated current</td> <td>24A</td> <td>32A</td> <td>41A</td> <td>57A</td> <td>76A</td> <td>125A</td> </tr> </tbody> </table>	Cross section	2.5mm ²	4mm ²	6mm ²	10mm ²	16mm ²	35mm ²	Rated current	24A	32A	41A	57A	76A	125A
Cross section	2.5mm ²	4mm ²	6mm ²	10mm ²	16mm ²	35mm ²									
Rated current	24A	32A	41A	57A	76A	125A									
Degree of protection	IP65														
Ambient temperature	-20°C ~ +55°C														
Note	Rated current > 125A on request														

Cable entry table															
Table of max. number of possible enclosure entries with cable glands DQM-I															
	I		II		III		IV		V		VI		VII		
	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	
M16×1.5	4	4	6	10	10	12	12	18	18	18	7	12	18	36	
M20×1.5	2	2	5	8	8	8	10	12	12	12	4	8	12	24	
M25×1.5	2	2	2	4	6	6	6	10	10	10	3	4	10	18	
M32×1.5	/	/	2	3	2	2	3	5	5	5	2	3	5	8	
M40×1.5	/	/	1	2	2	2	2	4	4	2	1	2	4	6	
M50×1.5	/	/	/	/	/	/	2	3	3	/	/	/	3	6	

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 P7/16.



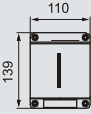

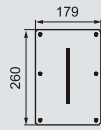
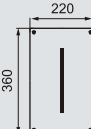
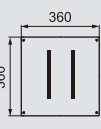
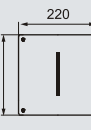

Terminal Boxes

BXJ8050 Series Explosion-proof Terminal Boxes

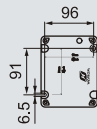
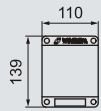
Selection table of BXJ8050 series explosion-proof terminal boxes

Max. cross section of cable connected to terminals is 35mm²

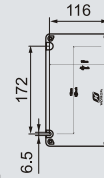
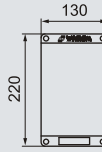
See table for max. number of fitted terminals

Cable size (mm ²)		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		12	10	8	—	—	—	0.80
II		25	22	18	—	—	—	1.30
III		30	28	22	18	15	—	2.10
IV		44	40	32	25	20	—	3.25
V		88	80	60	50	40	14	4.15
VI		25	22	18	14	—	—	2.00
VII		180	160	130	100	80	30	8.40

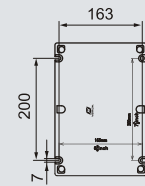
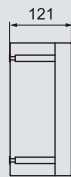
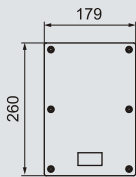
Dimension drawings (all dimensions in mm) - subject to alteration



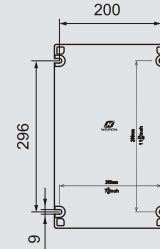
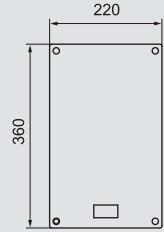
Type I



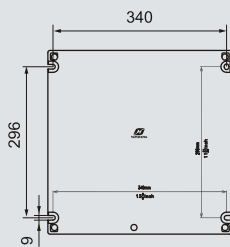
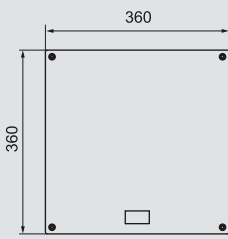
Type II



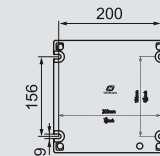
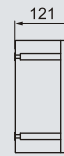
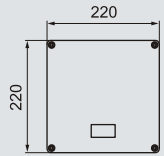
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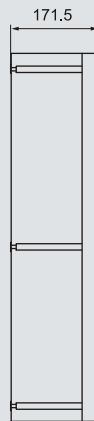
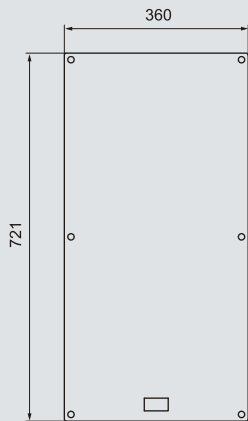
Type IV



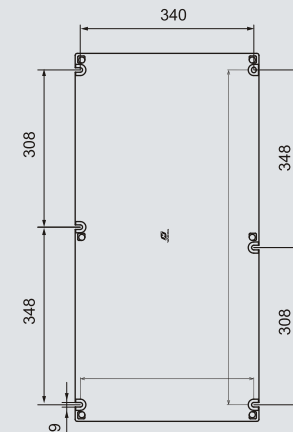
Type V



Type VI



Type VII



Technical data

Explosion-proof terminal boxes BXJ8050-20/6□

Explosion protection

Gas explosion protection
Dust explosion protection

Ex II 2 G Ex e II T6
Ex tD A21 T80°C IP65

Certificates

For gas explosion protection
For dust explosion protection

PTB 06 ATEX 1013; IECEX CQM 07.0013; BR229793-X (Brazil)
PCEC (China)

Conformity to standards

EN 50014:1997+A1+A2, EN 50019:2000
IEC 60079-0:2004, IEC 60079-7:2001, IEC 61241-0:2004, IEC 61241-1:2004

Enclosure material

GRP (glass fibre-reinforced polyester resin)

Terminal

6 stud terminals

Cable cross section

0.2~4mm²

Exposed fastener

Stainless steel

Rated voltage

Max. 500V AC

Rated current

20A

Degree of protection

IP65


Ambient temperature

-20°C~+55°C

Cable entries

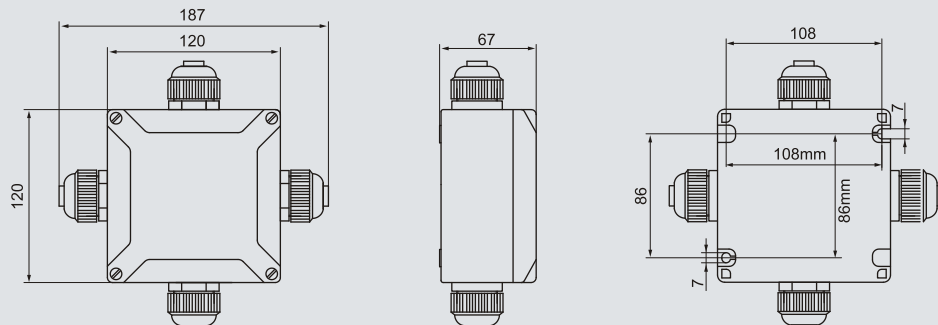
Standard; see Selection Table

Terminals










Description	Illustration	Max. Current	Ordering code	Weight (kg)
Stud terminal		20A	30010	0.15



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



Selection table

Type/Ordering code	Schematic diagram	Cable gland	Weight (kg)
BXJ8050-20/6A	Type A 	1 x M25 x 1.5 DQM-I (plastic)	0.65
BXJ8050-20/6B	Type B 	2 x M25 x 1.5 DQM-I (plastic) 1 stopping rod	0.70
BXJ8050-20/6C	Type C 	3 x M25 x 1.5 DQM-I (plastic) 2 stopping rods	0.70
BXJ8050-20/6D	Type D 	4 x M25 x 1.5 DQM-I (plastic) 3 stopping rods	0.75
BXJ8050-20/6E	Type E 	2 x M25 x 1.5 DQM-I (plastic) 1 stopping rod	0.70
BXJ8050-20/6F	Type F 	4 x M25 x 1.5 DQM-I (plastic) 3 stopping rods	0.75
BXJ8050-20/6G	Type G 	5 x M25 x 1.5 DQM-I (plastic) 4 stopping rods	0.75
BXJ8050-20/6H	Type H 	6 x M25 x 1.5 DQM-I (plastic) 5 stopping rods	0.75
BXJ8050-20/6I	Type I 	7 x M25 x 1.5 DQM-I (plastic) 6 stopping rods	0.80



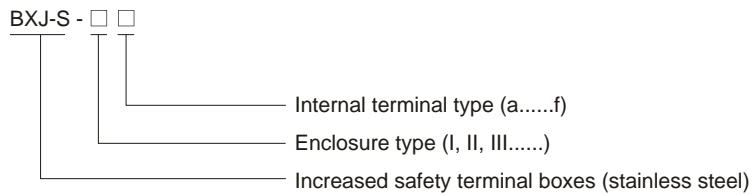


Terminal boxes

BXJ-S Series Increased Safety Terminal Boxes (Ex e)


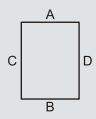
- ◆ Explosion protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- ◆ Stainless steel enclosure
- ◆ Weidmuller SAK EN series terminals

■ Catalogue number logic



Zones 1&2; 21&22

Technical data															
Increased safety terminal boxes (Ex e) BXJ-S-□□															
Explosion protection	<p>Gas explosion protection $\text{Ex II 2 G Ex e II T6 or T5 Gb}$</p> <p>Dust explosion protection Ex tD A21 T80°C IP66</p>														
Certificates	<p>For gas explosion protection LCIE 10 ATEX 3071X; IECEx CQM 11.0020X; POCC CN. ГТБ05. B03637(Russia); FM (USA)</p> <p>For dust explosion protection PCEC (China)</p>														
Conformity to standards	<p>EN 60079-0:2009, EN 60079-7:2007</p> <p>IEC 60079-0:2007, IEC 60079-7:2006, IEC 61241-0:2004, IEC 61241-1:2004</p>														
Enclosure material	Stainless steel														
Terminal	<p>Weidmuller SAK EN series</p> <p>Ex-mark: $\text{Ex II 2 GD Ex e II}$</p>														
Exposed fastener	Stainless steel														
Rated voltage	Max. 500V AC														
Rated current	<table border="1"> <thead> <tr> <th>Cross section</th> <th>2.5mm²</th> <th>4mm²</th> <th>6mm²</th> <th>10mm²</th> <th>16mm²</th> <th>35mm²</th> </tr> </thead> <tbody> <tr> <td>Rated current</td> <td>24A</td> <td>32A</td> <td>41A</td> <td>57A</td> <td>76A</td> <td>125A</td> </tr> </tbody> </table>	Cross section	2.5mm ²	4mm ²	6mm ²	10mm ²	16mm ²	35mm ²	Rated current	24A	32A	41A	57A	76A	125A
Cross section	2.5mm ²	4mm ²	6mm ²	10mm ²	16mm ²	35mm ²									
Rated current	24A	32A	41A	57A	76A	125A									
Degree of protection	IP66														
Ambient temperature	<p>-40°C ~ +50°C: T5</p> <p>-40°C ~ +40°C: T6</p>														
Note	Rated current > 125A on request														

Cable entry table														
Table of max. number of possible enclosure entries with cable glands DQM-I														
	I	II	III	IV	V	VI	VII							
														
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	2	2	3	4	9	9	12	12	20	20	20	28	40	54
M25 x 1.5	1	1	3	3	8	8	10	10	18	18	18	24	26	40
M32 x 1.5	/	/	2	3	6	6	8	8	12	12	12	16	14	26
M40 x 1.5	/	/	/	/	3	3	4	4	6	6	6	14	10	20
M50 x 1.5	/	/	/	/	2	2	3	3	5	5	5	12	8	9
M63 x 1.5	/	/	/	/	2	2	2	2	4	4	5	5	5	7

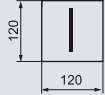
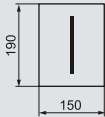

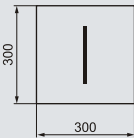
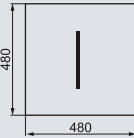
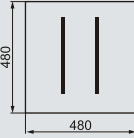
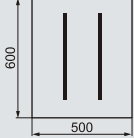

Note: 1. No cable entries for standard design. Cable entries shall be drilled by user.
2. For cable entries:
1) Please specify the direction and size of each cable entry.
2) Cable gland is optional, DQM-I (Ex e) is recommended. Please see P7/17~19.



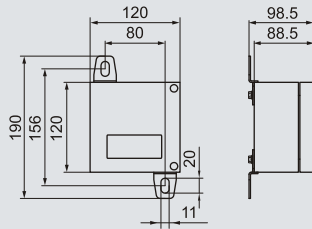
Selection table of BXJ-S series increased safety terminal boxes

Max. cross section of cable connected to terminals is 35mm²

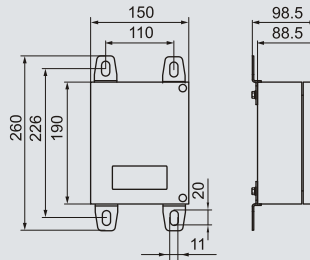
See table for max. number of fitted terminals

Cable size (mm ²)		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	—	—	—	—	2.25
II		15	12	10	—	—	—	3.60
III		25	22	18	15	12	8	7.40
IV		30	28	25	20	14	10	8.70
V		60	55	45	35	30	20	18.60
		120	110	90	70	60	—	18.60
VI		160	140	100	80	70	50	25.70
VII		300	270	240	165	135	72	40.10

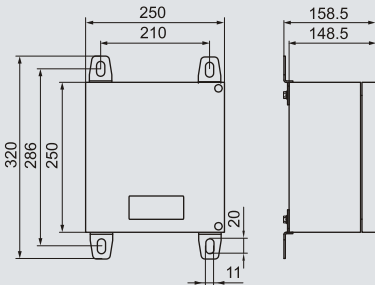
Dimension drawings (all dimensions in mm) - subject to alteration



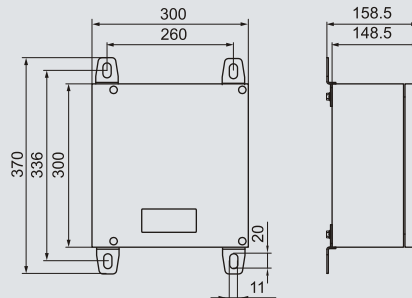
Type I



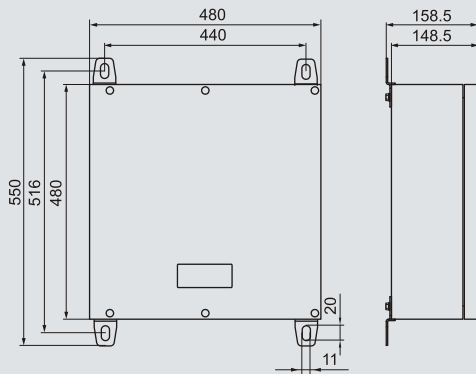
Type II



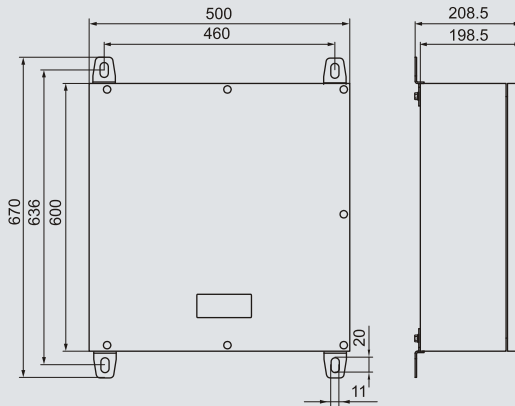
Type III



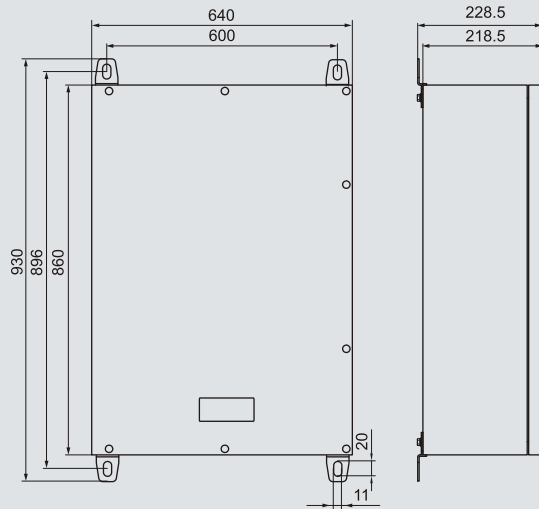
Type IV



Type V



Type VI



Type VII



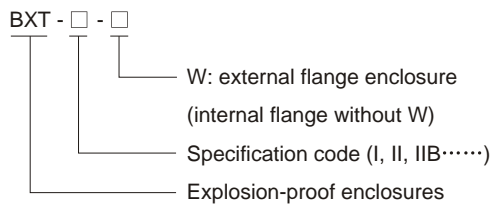


Empty Enclosures

BXT Series Explosion-proof Enclosures (Ex d IIB)

- ◆ Explosion protection to
 - CENELEC
 - IEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- ◆ Flameproof enclosure (Ex d IIB) in aluminium; 13 types (external flange) and 12 types (internal flange).
- ◆ Cable entries can be drilled and components can be installed by user on request.
- ◆ Safety shall be considered when installing components according to related electrical standards.
- ◆ Special requirements on request.

■ Catalogue number logic



Zones 1&2; 21&22

Empty Enclosures

BXT Series Explosion-proof Enclosures (Ex d IIB)

Technical data

Explosion-proof enclosures

BXT-□-W

Explosion protection

Gas explosion protection

⊕ II 2 G Ex d IIB Gb

Dust explosion protection

⊕ II 1 D Ex t IIIB Da IP66

Certificates

LCIE 11 ATEX 3012U; ПОСС CN.Г ТБ 05.В03637(Russia)

Conformity to standards

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

IEC 60079-0:2007, IEC 60079-1:2007, IEC 60079-31:2008

Degree of protection

IP66

Ambient temperature

-60°C~+100°C

Enclosure material

Copper-free aluminium; powder coated external surface, window grey (RAL7040)

Exposed fastener

Stainless steel

Mounting feet

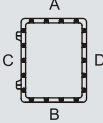
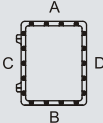
Carbon steel

Hinge

Integral hinges

Cable entry table

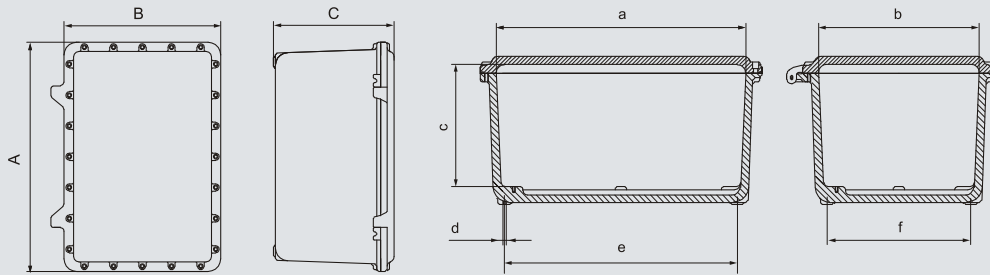
Table of max. number of possible enclosure entries

	I		II		IIB		III		IIIB		IV		IVB	
														
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			
														
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		



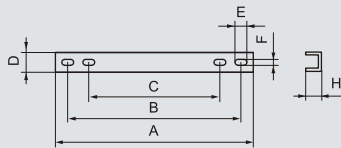
Empty Enclosures BXT Series Explosion-proof Enclosures (Ex d IIB)

Selection table of BXT-□-W series explosion-proof enclosures (all dimensions in mm)



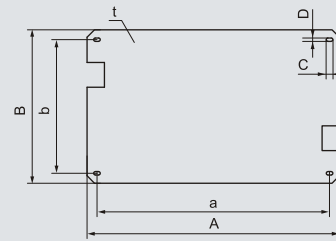
Enclosure

Type	Dimensions									Weight (kg)
	A	a	B	b	C	c	e	f	d	
BXT-I-W	250	192	200	142	170	120	180	130	M8	6.70
BXT-II-W	300	242	200	142	170	120	230	130	M8	8.00
BXT-IIB-W	350	292	200	142	170	120	280	130	M8	9.50
BXT-III-W	350	292	300	242	200	150	280	230	M10	14.50
BXT-IIIB-W	350	292	300	242	270	220	280	230	M10	17.50
BXT-IV-W	450	378	350	278	210	150	365	265	M10	23.00
BXT-IVB-W	450	378	350	278	280	220	365	265	M10	27.50
BXT-V-W	560	488	400	328	210	150	475	315	M10	34.50
BXT-VB-W	560	488	400	328	280	220	475	315	M10	39.50
BXT-VI-W	634	560	434	360	265	205	522	322	M10	46.00
BXT-VIB-W	634	560	434	360	335	275	522	322	M10	52.00
BXT-VII-W	720	640	560	480	275	205	620	460	M12	74.50
BXT-VIIB-W	720	640	560	480	345	275	620	460	M12	83.00



Mounting feet

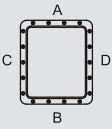
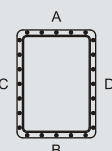
Type	Dimensions						
	A	B	C	D	E	F	H
BXT-I-W	240	200	130	30	16	10	20
BXT-II-W	240	200	130	30	16	10	20
BXT-IIB-W	240	200	130	30	16	10	20
BXT-III-W	340	300	230	40	24	12	20
BXT-IIIB-W	340	300	230	40	24	12	20
BXT-IV-W	400	350	265	40	24	12	20
BXT-IVB-W	400	350	265	40	24	12	20
BXT-V-W	450	400	315	40	26	14	20
BXT-VB-W	450	400	315	40	26	14	20
BXT-VI-W	480	430	320	40	26	14	20
BXT-VIB-W	480	430	320	40	26	14	20
BXT-VII-W	620	560	460	50	26	14	20
BXT-VIIB-W	620	560	460	50	26	14	20



Mounting plate

Type	Dimensions						
	A	a	B	b	C	D	t
BXT-I-W	170	120	120	70	14	7	2
BXT-II-W	220	170	120	70	14	7	2
BXT-IIB-W	270	220	120	70	14	7	2
BXT-III-W	270	220	220	170	14	7	2
BXT-IIIB-W	270	220	220	170	14	7	2
BXT-IV-W	350	300	250	200	14	7	2
BXT-IVB-W	350	300	250	200	14	7	2
BXT-V-W	450	390	290	230	14	7	2
BXT-VB-W	450	390	290	230	14	7	2
BXT-VI-W	530	470	330	270	14	7	2
BXT-VIB-W	530	470	330	270	14	7	2
BXT-VII-W	600	550	440	390	14	7	2
BXT-VIIB-W	600	550	440	390	14	7	2

Technical data	
Explosion-proof enclosures	BXT-□
Explosion protection	
Gas explosion protection	⊕ II 2 G Ex d IIB
Dust explosion protection	Ex tD A21 IP66
Certificates	
For gas explosion protection	LCIE 08 ATEX 0004U; IECEX CQM 08.0016U
For dust explosion protection	PCEC (China)
Conformity to standards	
	EN 60079-0:2004, EN 60079-1:2004
	IEC 60079-0:2004, IEC 60079-1:2003, IEC 61241-0:2004, IEC 61241-1:2004
Degree of protection	IP66
Enclosure material	Copper-free aluminium; powder coated external surface, window grey (RAL7040)
Exposed fastener	Stainless steel
Mounting feet	Carbon steel
Hinge	Stainless steel hinges

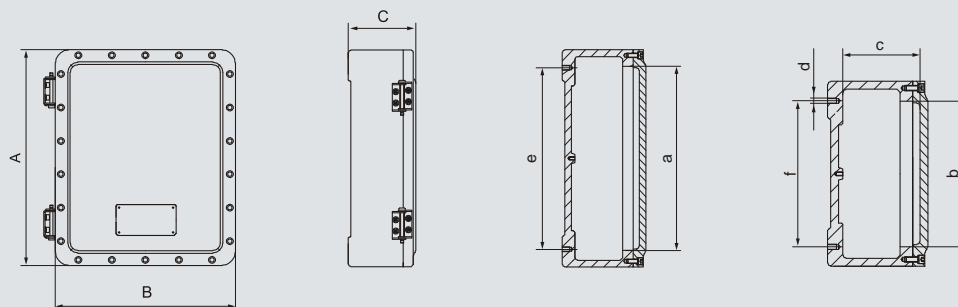
Cable entry table												
Table of max. number of possible enclosure entries												
	I		II		III		IIIB		IV		IVB	
												
Size	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D
M20 x 1.5	7	11	11	13	13	16	26	32	13	18	26	36
M25 x 1.5	6	10	10	11	11	14	22	28	11	16	22	32
M32 x 1.5	3	7	7	9	9	11	14	18	9	14	14	21
M40 x 1.5	2	3	3	4	4	5	11	14	4	6	11	15
M50 x 1.5	2	3	3	4	4	4	7	8	4	5	7	9
M63 x 1.5	1	2	2	3	3	4	5	7	3	4	5	7
	V		VB		VI		VIB		VII		VIIB	
												
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	26	29	39	43	29	30	43	44	29	36	43	53
M25 x 1.5	17	19	34	38	19	20	38	40	19	24	38	48
M32 x 1.5	14	16	14	24	16	16	24	24	16	20	24	27
M40 x 1.5	12	13	12	20	12	13	20	21	13	16	20	26
M50 x 1.5	5	6	10	11	6	6	11	11	6	7	11	14
M63 x 1.5	4	5	8	9	4	5	9	9	5	6	9	11



Empty Enclosures

BXT Series Explosion-proof Enclosures (Ex d IIB)

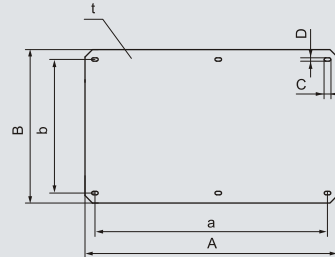
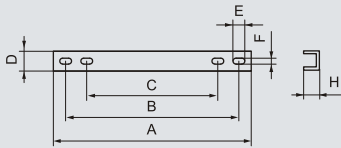
Selection table of BXT-□ series explosion-proof enclosures (all dimensions in mm)



Enclosure

Type	Dimensions									Weight (kg)
	A	a	B	b	C	c	e	f	d	
BXT-I	300	235	200	135	165	115	260	160	M8	10.50
BXT-II	350	285	300	235	165	115	290	240	M8	15.25
BXT-III	420	355	350	285	165	115	360	300	M8	21.20
BXT-IIIB	420	355	350	285	265	215	360	300	M8	23.80
BXT-IV	480	415	350	285	165	115	425	300	M10	22.75
BXT-IVB	480	415	350	285	265	215	425	300	M10	26.25
BXT-V	550	480	500	430	195	140	490	450	M10	40.20
BXT-VB	550	480	500	430	295	240	490	450	M10	45.60
BXT-VI	560	480	550	490	195	140	505	500	M10	43.50
BXT-VIB	560	480	550	490	295	240	505	500	M10	49.00
BXT-VII	670	600	550	480	195	140	615	500	M12	49.50
BXT-VIIB	670	600	550	480	295	240	615	500	M12	55.70

Selection table of BXT-□ series explosion-proof enclosures (all dimensions in mm)



Mounting feet

Mounting plate

Type	Dimensions							Type	Dimensions						
	A	B	C	D	E	F	H		A	a	B	b	C	D	t
BXT-I	280	250	160	30	16	10	20	BXT-I	226	196	126	96	14	7	2
BXT-II	390	350	240	30	16	10	20	BXT-II	276	246	226	196	14	7	2
BXT-III	450	400	300	30	16	10	20	BXT-III	346	316	276	246	16	8	2
BXT-IIIB	450	400	300	30	16	10	20	BXT-IIIB	346	316	276	246	16	8	2
BXT-IV	450	400	300	40	24	12	20	BXT-IV	406	376	276	246	16	8	2
BXT-IVB	450	400	300	40	24	12	20	BXT-IVB	406	376	276	246	16	8	2
BXT-V	600	550	450	40	24	12	20	BXT-V	474	444	424	394	16	8	2
BXT-VB	600	550	450	40	24	12	20	BXT-VB	474	444	424	394	16	8	2
BXT-VI	650	600	500	40	24	12	20	BXT-VI	484	454	474	444	16	8	2
BXT-VIB	650	600	500	40	24	12	20	BXT-VIB	484	454	474	444	16	8	2
BXT-VII	650	600	500	50	24	12	20	BXT-VII	594	564	474	444	16	8	2
BXT-VIIB	650	600	500	50	24	12	20	BXT-VIIB	594	564	474	444	16	8	2



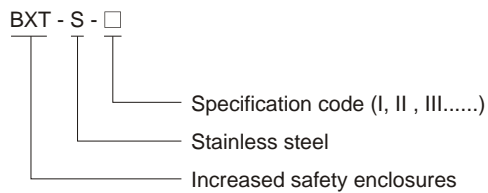


Empty Enclosures

BXT-S Series Increased Safety Enclosures (Ex e)

- ◆ Explosion protection to
 - CENELEC
 - IEC
- ◆ Can be used in Zone 1 and Zone 2
- ◆ Increased-safety enclosure (Ex e) in stainless steel.
- ◆ Cable entries can be drilled and components can be installed by user on request.
- ◆ Safety shall be considered when installing components according to related electrical standards.
- ◆ Special requirements on request.

Catalogue number logic



Technical data

Increased safety enclosures

BXT-S-□

Explosion protection

Ex II 2 G Ex e II Gb

Certificates

LCIE 10 ATEX 3070U

Conformity to standards

EN 60079-0:2009, EN 60079-7:2007
IEC 60079-0:2007, IEC 60079-7:2006

Degree of protection

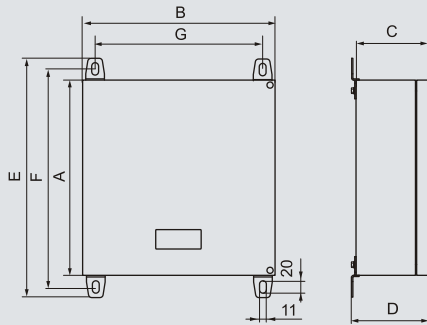
IP66

Enclosure material

Stainless steel

Zones 1&2

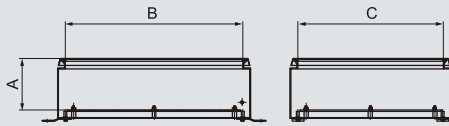
Selection table of BXT-S series increased safety enclosures (all dimensions in mm)



Outline & Installation

Type	Outline dimensions				Installation dimensions		
	A	B	C	D	E	F	G
BXT-S-I	120	120	88.5	87	190	156	80
BXT-S-II	190	150	88.5	97	260	226	110
BXT-S-III	250	250	148.5	157	320	286	210
BXT-S-IV	300	300	148.5	157	370	336	260
BXT-S-V	480	480	148.5	157	550	516	440
BXT-S-VI	600	500	198.5	207	670	636	460
BXT-S-VII	860	640	218.5	227	930	896	600

Note: Other dimensions on request

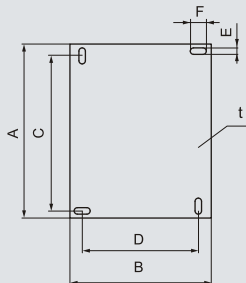


Internal

Type	Dimensions			Weight (kg)
	A	B	C	
BXT-S-I	60	76	76	2.25
BXT-S-II	60	146	106	3.60
BXT-S-III	120	206	206	7.40
BXT-S-IV	120	243	243	8.70
BXT-S-V	120	423	423	18.60
BXT-S-VI	170	543	443	25.70
BXT-S-VII	190	803	583	40.10



Mounting plate



Type	Dimensions						
	A	B	C	D	E	F	t
BXT-S-I	80	70	60	52	5	10	2
BXT-S-II	130	90	110	70	5	10	2
BXT-S-III	190	190	160	166	8	17	2
BXT-S-IV	240	240	210	216	8	17	2
BXT-S-V	420	420	390	390	8	17	2
BXT-S-VI	540	440	510	410	8	17	2
BXT-S-VII	800	580	770	550	8	17	2

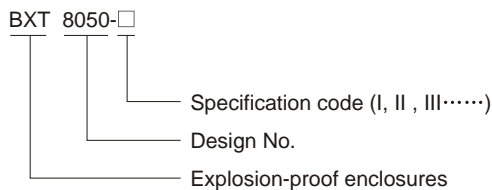


Empty Enclosures

BXT8050 Series Explosion-proof Enclosures (Ex e)

- ◆ Explosion protection to
 - CENELEC
 - IEC
- ◆ Can be used in
 - Zone 1 and Zone 2
- ◆ Increased-safety enclosure (Ex e) in GRP; 7 types.
- ◆ Cable entries can be drilled and components can be installed by user on request.
- ◆ Safety shall be considered when installing components according to related electrical standards.
- ◆ Special requirements on request.

Catalogue number logic

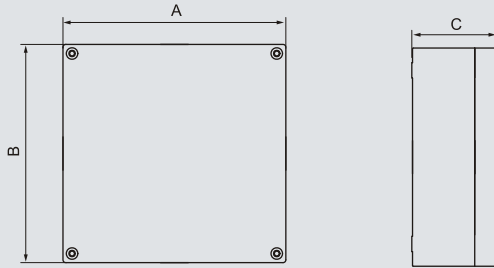


Technical data

Explosion-proof enclosures	BXT8050-□
Explosion protection	Ex II 2 G Ex e II
Certificates	LCIE 09 ATEX 3095U
Conformity to standards	EN 60079-0:2006, EN 60079-7:2007 IEC 60079-0:2004, IEC 60079-7:2006
Degree of protection	IP65
Enclosure material	GRP (glass fibre-reinforced polyester resin)
Exposed fastener	Stainless steel

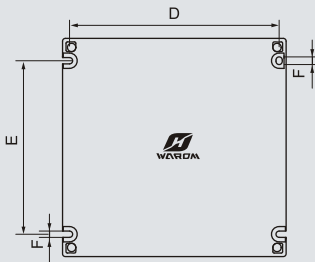
Zones 1&2

Selection table of BXT8050 series explosion-proof enclosures (all dimensions in mm)



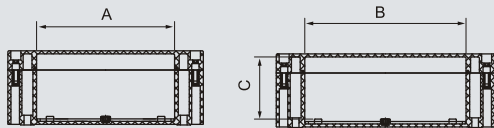
Outline & Installation

Type	Outline dimensions			Installation dimensions		
	A	B	C	D	E	F
BXT8050-I	110	139	98	96	91	6.5
BXT8050-II	130	220	109	116	172	6.5
BXT8050-III	179	260	121	163	200	7
BXT8050-IV	220	360	121	200	296	9
BXT8050-V	360	360	121	340	260	9
BXT8050-VI	220	220	121	200	156	9
BXT8050-VII	360	721	171.5	340	656	9



Internal

Type	Dimensions			Weight (kg)
	A	B	C	
BXT8050-I	67	74	81	0.80
BXT8050-II	94	148	90	1.30
BXT8050-III	130	174	102	2.10
BXT8050-IV	169	266	102	3.25
BXT8050-V	266	309	102	4.15
BXT8050-VI	126	208	102	2.05
BXT8050-VII	300	621	102	8.40



Mounting plate

Type	Dimensions					
	A	B	C	D	E	t
BXT8050-I	123	94	100	-	Φ6	2
BXT8050-II	204	114	190	-	Φ7	2
BXT8050-III	240	159	122	145	Φ7	2
BXT8050-IV	322	188	282	142	Φ7	2
BXT8050-V	332	316	282	282	Φ7	2
BXT8050-VI	175	175	142	142	Φ7	2
BXT8050-VII	667	296	643	282	Φ7	2

