

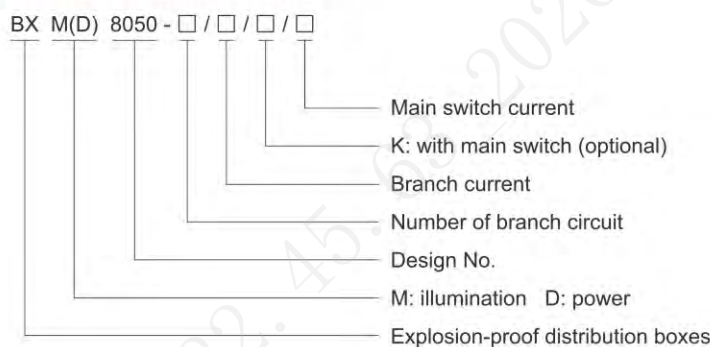
Distribution Boxes

BXM(D)8050 Series Explosion-proof Illumination (Power) Distribution Boxes (Ex d e IIC)



- ◆ 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 2, Groups A, B, C, D
- ◆ Enclosure for modular combination (Ex e).
- ◆ Main switch and branch switch are operated with external rotary actuator.
- ◆ Internal wiring to the terminal is finished.
- ◆ International brand of explosion-proof terminal blocks.
- ◆ Enclosure: GRP (glass fibre-reinforced polyester resin)
- ◆ Entries plugged. Cable glands on request (see P6/19).
- ◆ Special requirements on request.

Catalogue number logic



Note

1. Please refer to the Selection table on P5/63~65.
2. Please select internal components as below:
 - BL8060 Series explosion-proof circuit breaker modules on P5/72~77.
 - BRT8060 Series explosion-proof fuses on P5/78~79.

Zones 1&2; 21&22

Distribution Boxes

BXM8050 Series Explosion-proof Illumination Distribution Boxes (Ex d e IIC)

Technical data

Explosion-proof illumination distribution boxes

BXM8050-□/□/□/□

Explosion protection

Global (IECEx)

Gas and dust

IECEx CQM 14.0033X

Ex db eb mb IIC T6 Gb (Ta: -20°C/-40°C~+55°C)

Ex db eb mb IIC T5 Gb (Ta: -20°C/-40°C~+40°C)

Ex db eb mb IIC T4 Gb (Ta: -20°C/-40°C~+55°C)

Ex tb IIIC T80°C Db (Ta: -20°C/-40°C~+55°C)

When the product is equipped with an explosion-proof heater, the marking is:

Ex db eb mb IIC T4 Gb (Ta: -20°C/-40°C~+45°C)

Ex tb IIIC T80°C Db (Ta: -20°C/-40°C~+45°C)

Note: protection type "mb" depends on the use of Ex component certified voltmeter or fuse module.

EPT 15 ATEX 2265

Europe (ATEX)

Gas and dust

Ex II 2 G Ex db eb mb IIC T6 Gb (Ta: -20°C/-40°C~+55°C)

Ex II 2 G Ex db eb mb IIC T5 Gb (Ta: -20°C/-40°C~+40°C)

Ex II 2 G Ex db eb mb IIC T4 Gb (Ta: -20°C/-40°C~+55°C)

Ex II 2 D Ex tb IIIC T80°C Db (Ta: -20°C/-40°C~+55°C)

When the product is equipped with an explosion-proof heater, the marking is:

Ex II 2 G Ex db eb mb IIC T4 Gb (Ta: -20°C/-40°C~+45°C)

Ex II 2 D Ex tb IIIC T80°C Db (Ta: -20°C/-40°C~+45°C)

Note: protection type "mb" depends on the use of Ex component certified voltmeter or fuse module.

IECEx; ATEX; CU-TR

Certificates

Conformity to standards

EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-18, EN 60079-31

IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-18, IEC 60079-31

Max. 690V AC 50/60Hz, Max. DC 500V

Max.250A

Stainless steel

Rated voltage

Rated current

Exposed fastener

Enclosure

Enclosure material

GRP (glass fibre-reinforced polyester resin)

Enclosure colour

Black

Enclosure type

Ex e

Built-in components

Main switch

BL8060 Please see P5/72~77

Note: earth leakage protection on request

Branch switch

BL8060 Please see P5/72~77

Note: earth leakage protection on request

Terminal

International brand of explosion-proof terminal blocks

Indicator

Red

Degree of protection

IP66

Ambient temperature

-40°C(-20°C)~+55°C(+45°C/+40°C)

Cable entries

Cable gland (optional)

Standard M□×1.5 plug (see the Selection Table on P5/60)

Entry direction

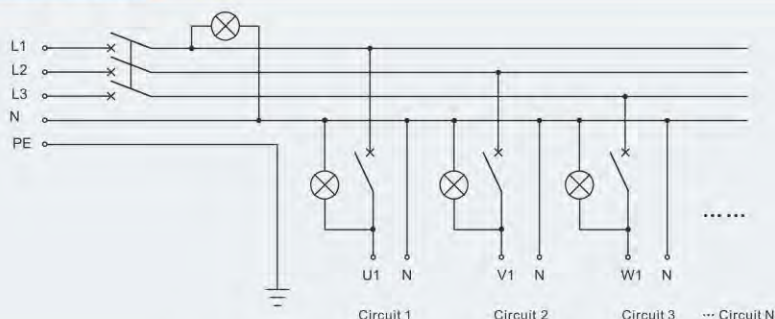
Bottom

Mounting

Surface type (standard)



Electrical schematic diagram



BXM8050 Series explosion-proof illumination distribution boxes

Distribution Boxes

BXM8050 Series Explosion-proof Illumination Distribution Boxes (Ex d e IIC)

Selection table of BXM8050 series explosion-proof illumination distribution boxes

Version	Description					Cable entries
	Main switch	Number of branch circuit	Branch switch	Branch current	Number of indicator	
BXM8050-4/□/K/□	BL8060	4	BL8060 1P/2P	1A 2A 4A 6A 10A 16A 20A 25A 32A On request	3	1×M40×1.5 + 4×M25×1.5
BXM8050-6/□/K/□		6			3	1×M40×1.5 + 6×M25×1.5
BXM8050-8/□/K/□		8			3	1×M40×1.5 + 8×M25×1.5
BXM8050-10/□/K/□		10			3	1×M40×1.5 + 10×M25×1.5
BXM8050-12/□/K/□		12			3	1×M40×1.5 + 12×M25×1.5
BXM8050-4/□	—	4	BL8060 1P/2P	1A 2A 4A 6A 10A 16A 20A 25A 32A On request	3	1×M40×1.5 + 4×M25×1.5
BXM8050-6/□		6			3	1×M40×1.5 + 6×M25×1.5
BXM8050-8/□		8			3	1×M40×1.5 + 8×M25×1.5
BXM8050-10/□		10			3	1×M40×1.5 + 10×M25×1.5
BXM8050-12/□		12			3	1×M40×1.5 + 12×M25×1.5

Note

1. Please specify the number and size of cable entries and sides of the enclosure to be fitted.
2. Electrical schematic diagram shall be provided by user. Photo switch, AC contactor, thermal relay or others on request.
3. Please specify mounting type when ordering.
4. Rainproof canopy on request.



Distribution Boxes

BXD8050 Series Explosion-proof Power Distribution Boxes (Ex d e IIC)

Technical data

Explosion-proof power distribution boxes BXD8050-□/□/□/□

Explosion protection

Global (IECEx)

Gas and dust

IECEx CQM 14.0033X

Ex db eb mb IIC T6 Gb (Ta: -20°C/-40°C~+55°C)

Ex db eb mb IIC T5 Gb (Ta: -20°C/-40°C~+40°C)

Ex db eb mb IIC T4 Gb (Ta: -20°C/-40°C~+55°C)

Ex tb IIIC T80°C Db (Ta: -20°C/-40°C~+55°C)

When the product is equipped with an explosion-proof heater, the marking is:

Ex db eb mb IIC T4 Gb (Ta: -20°C/-40°C~+45°C)

Ex tb IIIC T80°C Db (Ta: -20°C/-40°C~+45°C)

Note: protection type "mb" depends on the use of Ex component certified voltmeter or fuse module.

EPT 15 ATEX 2265

Europe (ATEX)

Gas and dust

Ex II 2 G Ex db eb mb IIC T6 Gb (Ta: -20°C/-40°C~+55°C)

Ex II 2 G Ex db eb mb IIC T5 Gb (Ta: -20°C/-40°C~+40°C)

Ex II 2 G Ex db eb mb IIC T4 Gb (Ta: -20°C/-40°C~+55°C)

Ex II 2 D Ex tb IIIC T80°C Db (Ta: -20°C/-40°C~+55°C)

When the product is equipped with an explosion-proof heater, the marking is:

Ex II 2 G Ex db eb mb IIC T4 Gb (Ta: -20°C/-40°C~+45°C)

Ex II 2 D Ex tb IIIC T80°C Db (Ta: -20°C/-40°C~+45°C)

Note: protection type "mb" depends on the use of Ex component certified voltmeter or fuse module.

IECEx; ATEX; CU-TR

Certificates

Conformity to standards

EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-18, EN 60079-31

IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-18, IEC 60079-31

Max. 690V AC 50/60Hz, Max. DC 500V

Rated voltage

Rated current

Max. 250A

Exposed fastener

Stainless steel

Enclosure

Enclosure material

GRP (glass fibre-reinforced polyester resin)

Enclosure colour

Black

Enclosure type

Ex e

Built-in components

Main switch

BL8060 Please see P5/72~77

Note: earth leakage protection on request

Branch switch

BL8060 Please see P5/72~77

Note: earth leakage protection on request

Terminal

International brand of explosion-proof terminal blocks

Indicator

Red

Degree of protection

IP66

Ambient temperature

-40°C(-20°C)~+55°C(+45°C/+40°C)

Cable entries

Standard M□×1.5 plug (see the Selection Table on P5/62)

Cable gland (optional)

DQM-I/I (Ex eb, plastic) is recommended.

Entry direction

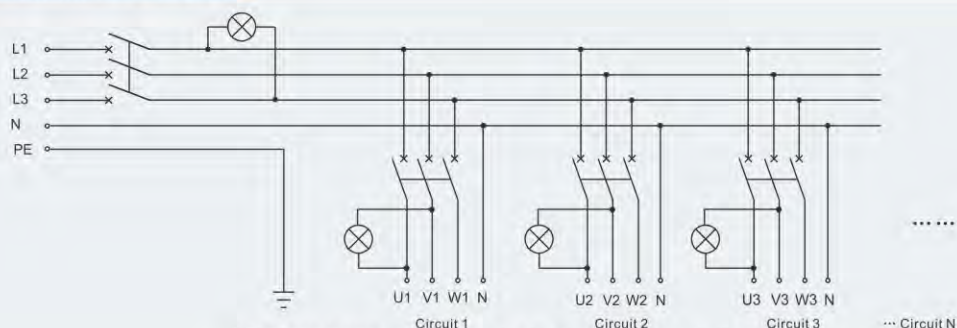
Bottom

Mounting

Surface type (standard)



Electrical schematic diagram



Distribution Boxes

BXD8050 Series Explosion-proof Power Distribution Boxes (Ex d e IIC)

Selection table of BXD8050 series explosion-proof power distribution boxes

Version	Description					Cable entries
	Main switch	Number of branch circuit	Branch switch	Branch current	Number of indicator	
BXD8050-4/□/K/□	BL8060	4	BL8060 3P	1A	3	1×M50×1.5 + 4×M25×1.5
BXD8050-6/□/K/□		6		2A	3	1×M50×1.5 + 6×M25×1.5
BXD8050-8/□/K/□		8		4A		
BXD8050-10/□/K/□		10		6A	3	1×M50×1.5 + 8×M25×1.5
BXD8050-12/□/K/□		12		10A		
BXD8050-4/□	—	4	BL8060 3P	16A	3	1×M50×1.5 + 4×M25×1.5
BXD8050-6/□		6		20A	3	1×M50×1.5 + 6×M25×1.5
BXD8050-8/□		8		25A		
BXD8050-10/□		10		32A	3	1×M50×1.5 + 10×M25×1.5
BXD8050-12/□		12		40A		
				50A	3	1×M50×1.5 + 12×M25×1.5
				63A		
				On request	3	

Note

1. Please specify the number and size of cable entries and sides of the enclosure to be fitted.
2. Electrical schematic diagram shall be provided by user. Photo switch, AC contactor, thermal relay or others on request.
3. Please specify mounting type when ordering.
4. Rainproof canopy on request.



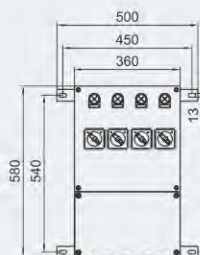
Distribution Boxes

BXM(D)8050 Series Explosion-proof Illumination (Power) Distribution Boxes (Ex d e IIC)

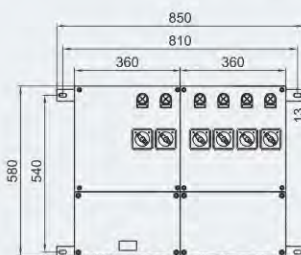
Dimension drawings (all dimensions in mm) - subject to alteration

Note: The following drawings are suitable for:

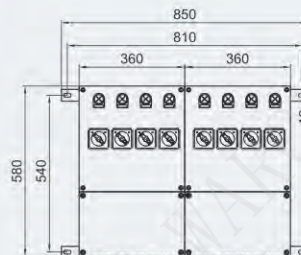
- 1.BXM8050 main switch 63A, branch switch (1P/2P) without earth leakage protection.
- 2.BXD8050 main switch 63A, branch switch (3P) without earth leakage protection.
- 3.BXM8050 main switch 63A, branch switch (1P) with earth leakage protection.



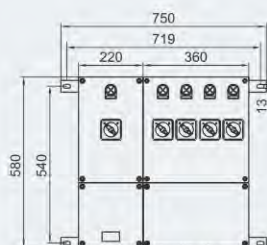
BXM(D)8050-4



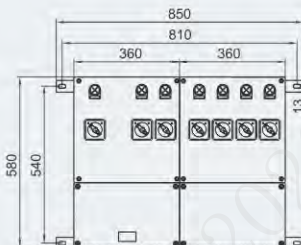
BXM(D)8050-6



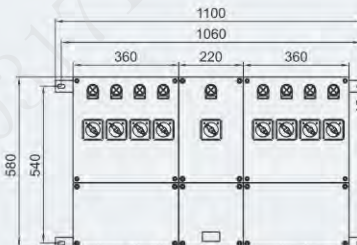
BXM(D)8050-8



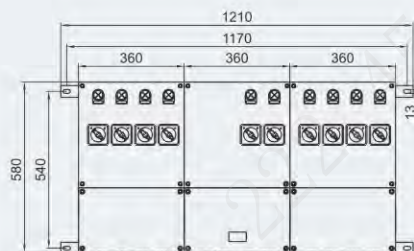
BXM(D)8050-4/K



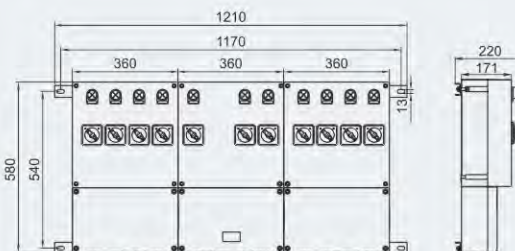
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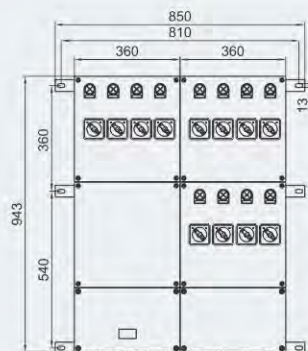
BXM(D)8050-8/K



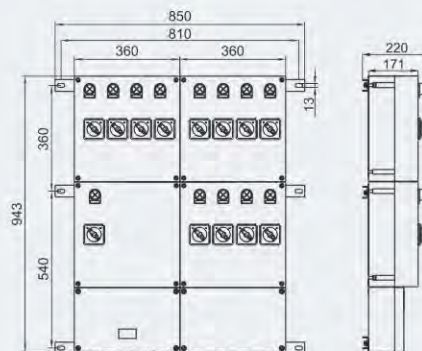
BXM(D)8050-10



BXM(D)8050-10/K



BXM(D)8050-12



BXM(D)8050-12/K



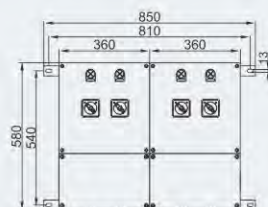
Distribution Boxes

BXM8050 Series Explosion-proof Illumination Distribution Boxes (Ex d e IIC)

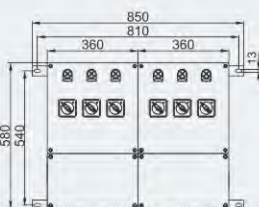
Dimension drawings (all dimensions in mm) - subject to alteration

Note: The following drawings are suitable for:

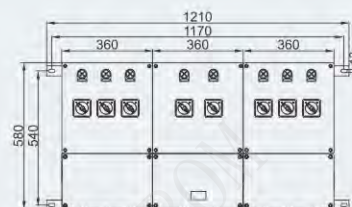
BXM8050 main switch 63A, branch switch (2P) with earth leakage protection.



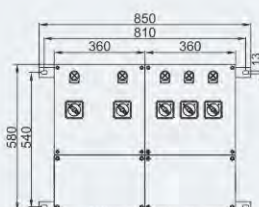
BXM8050-4



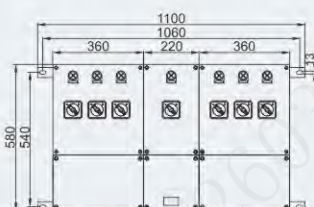
BXM8050-6



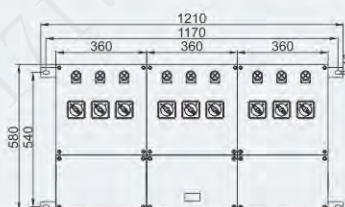
BXM8050-8



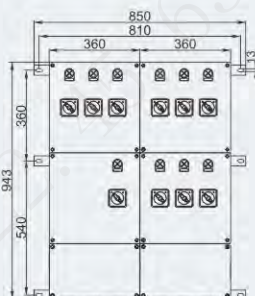
BXM8050-4/K



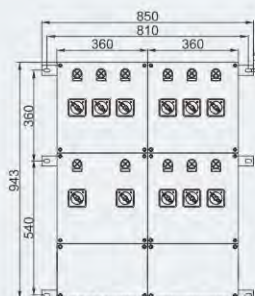
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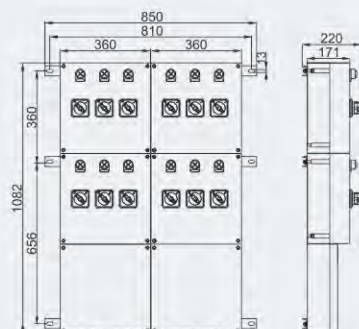
BXM8050-8/K



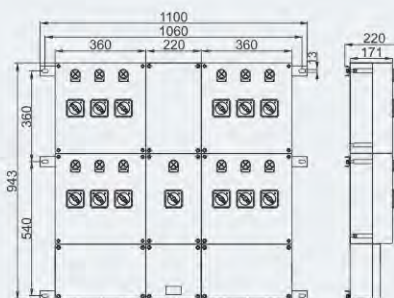
BXM8050-10



BXM8050-10/K



BXM8050-12



BXM8050-12/K



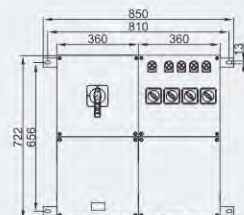
Distribution Boxes

BXD8050 Series Explosion-proof Power Distribution Boxes (Ex d e IIC)

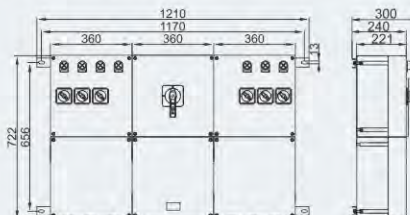
Dimension drawings (all dimensions in mm) - subject to alteration

Note: The following drawings are suitable for:

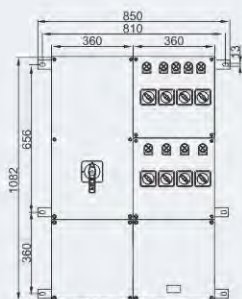
BXD8050 main switch: 80A~250A, branch switch (3P) without earth leakage protection.



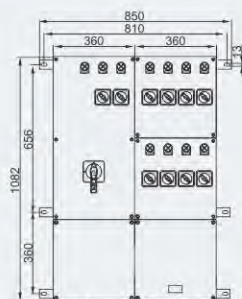
BXD8050-4/K



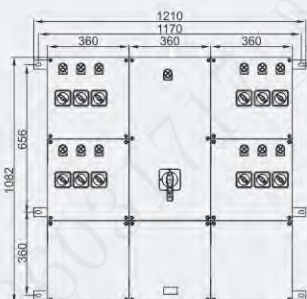
BXD8050-6/K



BXD8050-8/K



BXD8050-10/K

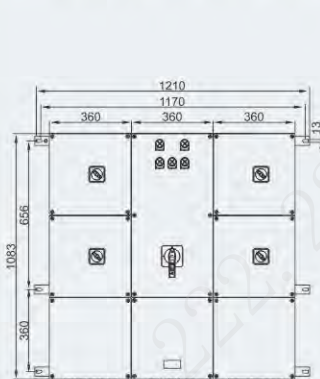


BXD8050-12/K

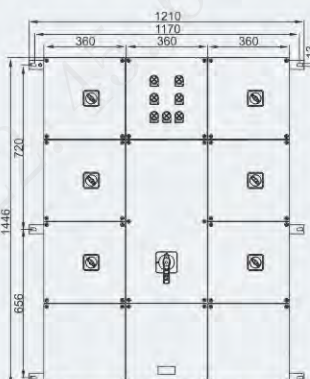


Note: The following drawings are suitable for:

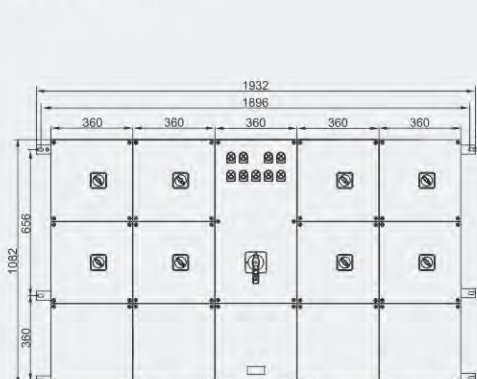
BXD8050 main switch: 80A~250A, branch switch (3P/4P) with earth leakage protection.



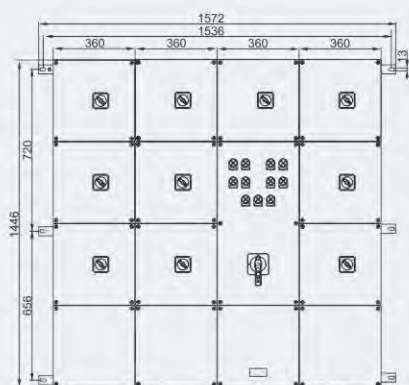
BXD8050-4/K



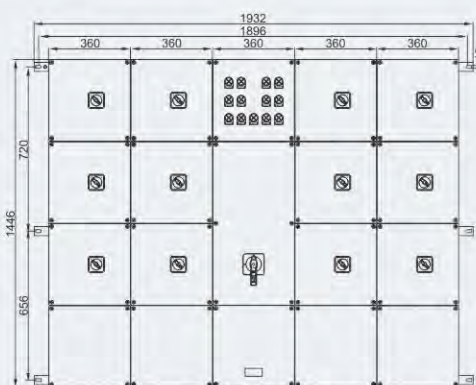
BXD8050-6/K



BXD8050-8/K



BXD8050-10/K



BXD8050-12/K

