

Control Stations

BZC8050 Series Control Stations (GRP)



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

GRP (glass fibre-reinforced polyester resin) enclosure.

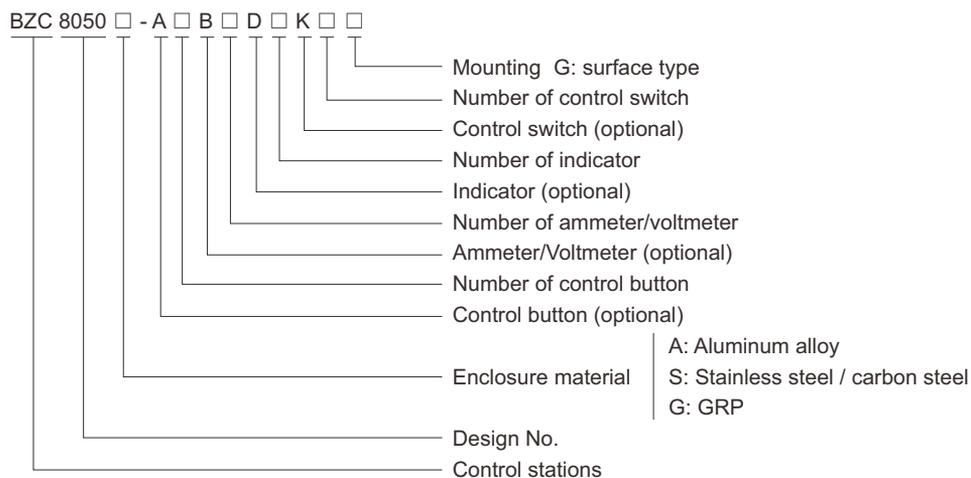
Four types of enclosure.

Features excellent dustproof, waterproof, and corrosion-resistant properties, making it adaptable to various harsh working environments.

The layout of buttons, switches, and other components on the control station is rational and straightforward, ensuring ease of use and quick mastery.

A range of control methods can be selected based on actual needs, such as manual control, automatic control, or remote control, catering to varying application scenarios.

Catalogue number logic



Note

1. Please refer to the Selection table on P4/25.
2. Please select internal components as below:
 - Selection table of BA8060 control button on P4/38~41 (nominal contact is 1NO+1NC);
 - Selection table of BD8060 indicator on P4/42~44;
 - Selection table of BK8050 control switch on P4/45~50;
 - Selection table of BB8050 explosion-proof ammeter/voltmeter on P4/51~53;
3. Example: BZC8050-A2D2G
 - Components: Two control buttons, two indicators; surface type
 - Tech. Details: One start control button (40092B + 40090-1+40090-2, green, 1NO+1NC);
 - One stop control button (40092A+ 40090-1+40090-2, red, 1NO+1NC);
 - One indicator (40116B+40100B, green, 230V AC);
 - One indicator (40115B+40099B, red, 230V AC);
4. Special requirements on request.

Zones 1&2; 21&22

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Selection table of control station BZC8050(GRP)(Without terminal)				
Enclosure type	Components arrangement	Cable entries and direction	Ordering code	Enclosure weight (kg)
I		1-M25 x 1.5 Bottom entry	40074.....	0.65
II		1-M25 x 1.5 Bottom entry	40075.....	0.85
III		1-M25 x 1.5 Bottom entry	40076.....	1.10
IV		2-M25 x 1.5 Bottom entry	40077.....	1.30
V		1-M32 x 1.5 or 2-M25 x 1.5 Bottom entry	40078.....	2.10
VI		1-M32 x 1.5 or 3-M25 x 1.5 Bottom entry	40078.....	3.25
VII		1-M32 x 1.5 or 3-M25 x 1.5 Bottom entry	40078.....	4.60
VIII		1-M40 x 1.5 or 2-M32 x 1.5 or 6-M25 x 1.5 Bottom entry	40078.....	4.15
IX		1-M40 x 1.5 or 2-M32 x 1.5 or 6-M25 x 1.5 Bottom entry	40078.....	7.30



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Technical data

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Explosion protection	IECEX CQM 24.0057X
Global (IECEX)	Ex db eb mb IIC T6/T5 Gb ¹⁾
Gas and dust	Ex db eb IIC T6/T5 Gb ¹⁾
	Ex tb IIIC T80 Db ¹⁾
Europe (ATEX)	TUV CY 25 ATEX 0207269X
Gas and dust	⊕ II 2 G Ex db eb mb IIC T6/T5 Gb ¹⁾
	⊕ II 2 G Ex db eb IIC T6/T5 Gb ¹⁾
	⊕ II 2 D Ex tb IIIC T80 Db ¹⁾
	¹⁾ See Selection table.
Certificates	IECEX; ATEX; CU-TR
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
Enclosure material	GRP (glass fibre-reinforced polyester resin)
Enclosure colour	Black
Exposed fastener	Stainless steel
Degree of protection	IP66
Ambient temperature	-60 (-40) ~ +55 (+40)
Components	1. Technical data of BA8060 control button on P4/38~41 2. Technical data of BD8060 indicator on P4/42~44 3. Technical data of BK8050 control switch on P4/45~50 4. Technical data of BB8050 explosion-proof ammeter/voltmeter on P4/51~53
Cable entries	M□ x 1.5 plug, please see the Selection table on P4/25
Cable gland (optional)	DQM-I (Ex e) is recommended. Please see P7/18
Mounting	Surface type
Note	Please specify the number and size of entries (applicable for surface type only)

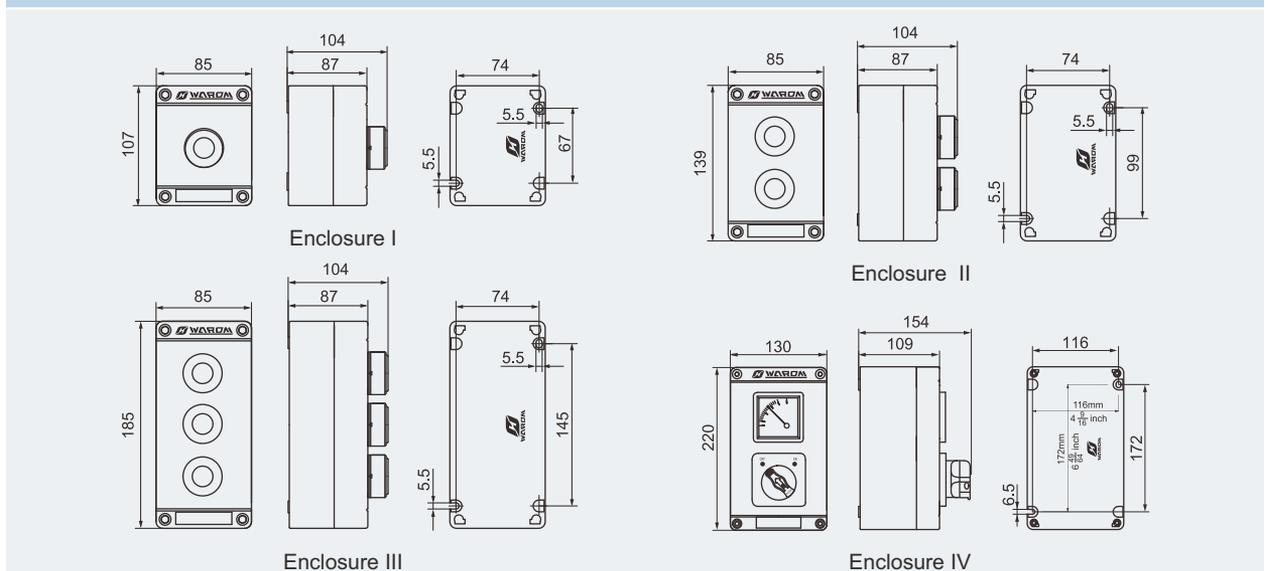
Selection table (Ex markings and ratings)

Rated operating voltage (V)	Rated operating current (A)	Ex-mark	
		-60 (-40) ~+40	-60 (-40) ~+55
Max. 500V AC Max. 220V DC	Max. 16A (only with BK8050)	Ex db eb IIC T6 Gb Ex db eb mb IIC T6 Gb	Ex db eb IIC T6/T5 Gb Ex db eb mb IIC T6/T5 Gb
Max. 440V AC Max. 220V DC	Max. 10A	Ex tb IIIC T80 Db	Ex tb IIIC T80 Db

Note: When the ambient temperature is -60 (-40) to +55 and falls within the T6 temperature class, the maximum configuration is as follows: BZC8050- -D3, BZC8050- -A3, BZC8050- -B1K1, BZC8050- -A2D2, BZC8050- -A2B1.

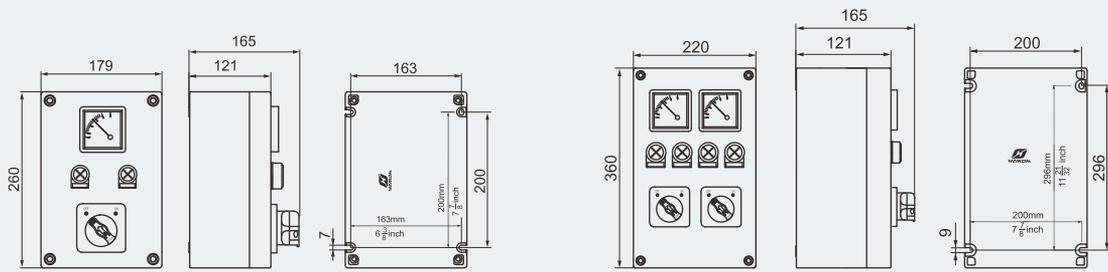
Note: Protection type "mb" depends on the use of certified Ex component, the voltmeter. When the seal strip is made of polyurethane (PU) material, the ambient temperature is -40 ~+40 (+55); when the seal strip is made of silicone rubber, the ambient temperature is -60 ~+40 (+55).

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



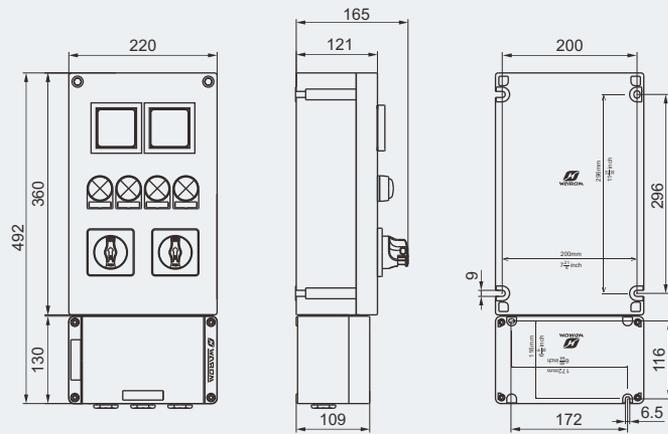
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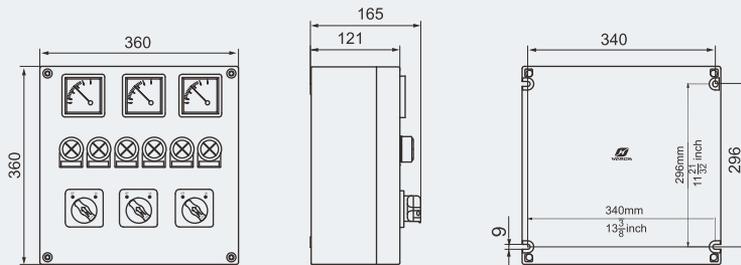


Enclosure V

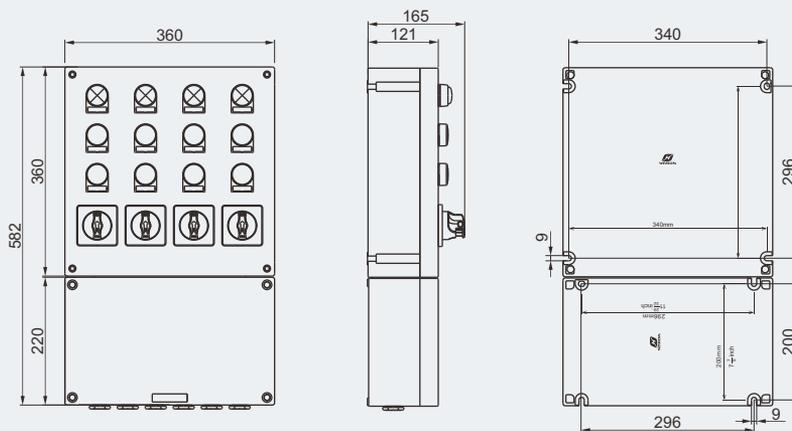
Enclosure VI



Enclosure VII



Enclosure VIII



Enclosure IX

