Control Stations
BZC8050 Series Control Stations (Copper-free Aluminium Alloy)

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
Copper-free Aluminium Alloy enclosure, powder coated surface.
Seven 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

BZC 8050 ☐ - A ☐ B ☐ D ☐ K ☐ ☐

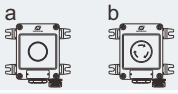
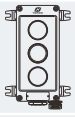
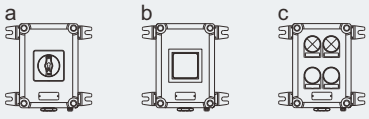
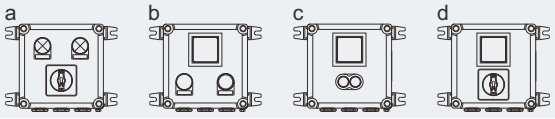
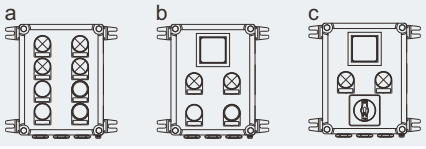
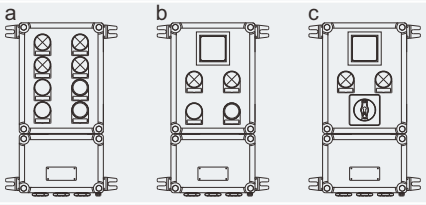
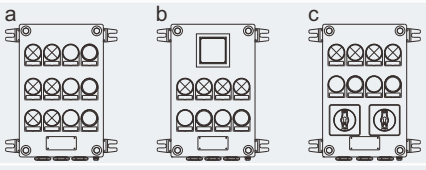
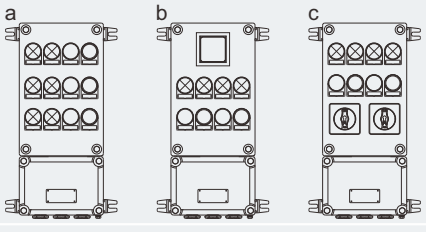
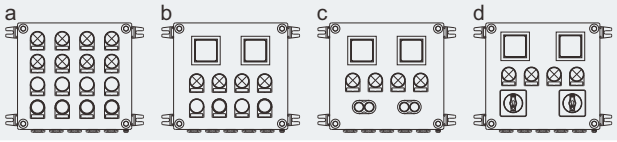
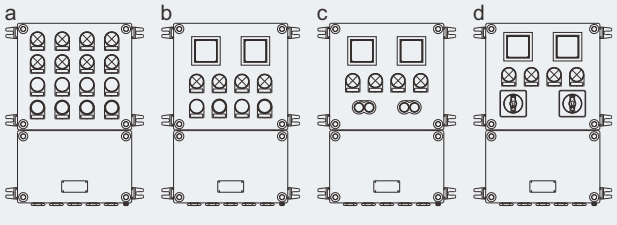
- Mounting G: surface type
- Number of control switch
- Control switch (optional)
- Number of indicator
- Indicator (optional)
- Number of ammeter/voltmeter
- Ammeter/Voltmeter (optional)
- Number of control button
- Control button (optional)
- Enclosure material
  - A: Aluminum alloy
  - S: Stainless steel / carbon steel
  - G: GRP
- Design No.
- Control stations

■ Note

1. Please refer to the Selection table on P4/29.
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 control start button (40092B + 40090-1+40090-2, green, 1NO+1NC);
   One control stop 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

Selection table of control station BZC8050 (aluminium alloy)

Enclosure type	Components arrangement	Cable entries and direction	Ordering code	Enclosure weight (kg)
I		1-M25 x 1.5 Bottom entry	40079.....	0.65
II		1-M25 x 1.5 Bottom entry	40080	0.85
III		1-M25 x 1.5 Bottom entry	40081	1.10
IV		1-M25 x 1.5 Bottom entry	40082.....	2.80
V		1-M32 x 1.5 or 2-M25 x 1.5 Bottom entry	40083.....	3.75
VI		1-M32 x 1.5 or 2-M25 x 1.5 Bottom entry	40084.....	5.00
VII		1-M32 x 1.5 or 3-M25 x 1.5 Bottom entry	40085.....	6.50
VIII		1-M32 x 1.5 or 3-M25 x 1.5 Bottom entry	40085.....	7.50
IX		1-M32 x 1.5 or 3-M25 x 1.5 Bottom entry	40085.....	9.00
X		2-M32 x 1.5 or 5-M25 x 1.5 Bottom entry	40084.....	9.20
XI		1-M40 x 1.5 or 2-M32 x1.5 or 6-M25 x 1.5 Bottom entry	40085.....	13.70

Technical data

Control stations BZC8050 (aluminium alloy)

Explosion protection	
Global (IECEx)	IECEx CQM 24.0057X
Gas and dust	Ex db eb mb IIC T6/T5 Gb[1)] Ex db eb IIC T6/T5 Gb[1)] Ex tb IIIC T80 Db[1)]
Europe (ATEX)	TUV CY 25 ATEX 0207269X
Gas and dust	Ⓔx II 2 G Ex db eb mb IIC T6/T5 Gb[1)] Ⓔx II 2 G Ex db eb IIC T6/T5 Gb[1)] Ⓔx 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	Copper-free Aluminium Alloy, powder coated surface
Enclosure colour	Window grey (RAL7040)
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 P4/29
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)

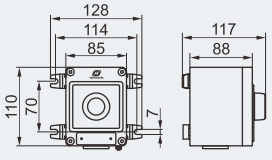
Selection table (Ex markings and ratings)

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 tb IIIC T80 Db	Ex db eb IIC T6/T5 Gb Ex db eb mb IIC T6/T5 Gb Ex tb IIIC T80 Db
Max. 440V AC Max. 220V DC	Max. 10A		

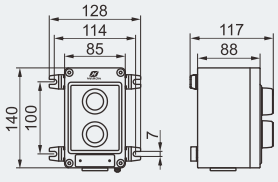
Note: When the ambient temperature is -60 (-40) to +55 and falls within the T6 temperature class, the maximum configuration is as follows: BZC8050-□-D3, BZC8050-□-A3, BZC8050-□-B1K1, BZC8050-□-A2D2, BZC8050-□-A2B1.

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).

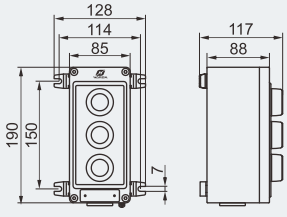
Dimension drawings (all dimensions in mm) - subject to alteration



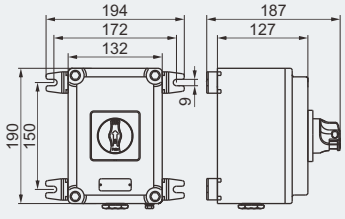
Enclosure I



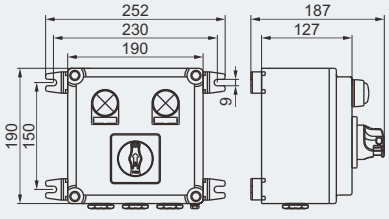
Enclosure II



Enclosure III

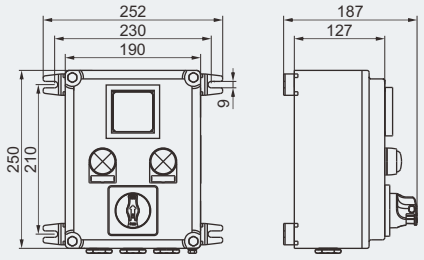


Enclosure IV

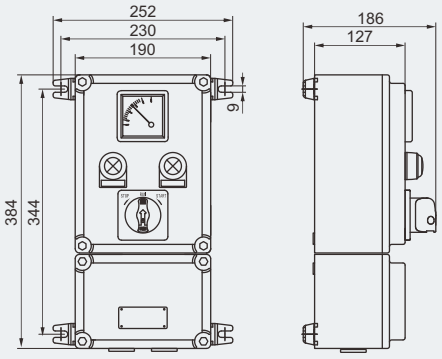


Enclosure V

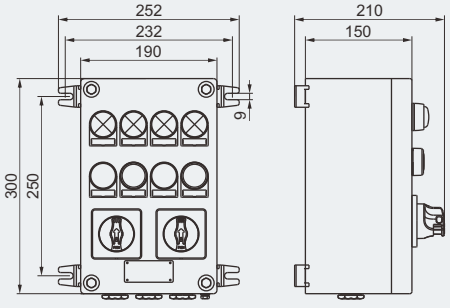
Dimension drawings (all dimensions in mm) - subject to alteration



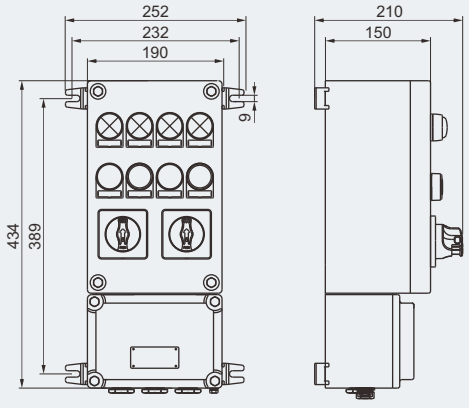
Enclosure VI



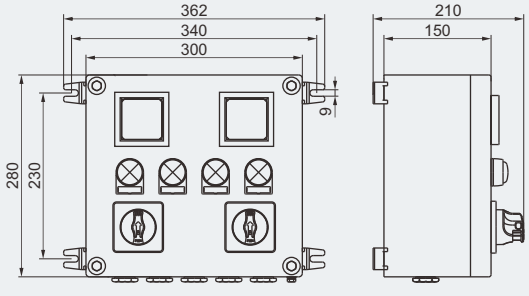
Enclosure VII



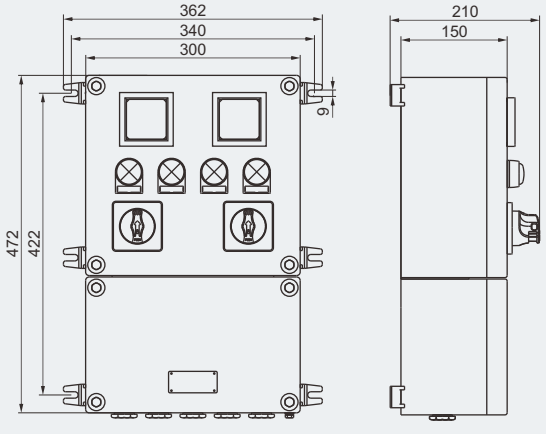
Enclosure VIII



Enclosure IX



Enclosure X



Enclosure XI