

BXJ5310series

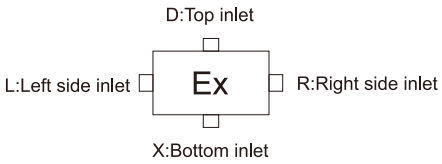
Explosion proof junction box

Catalogue number logic

BXJ 5310 □/□ D □(□) L □(□) X □(□) R □(□)

- Number of inlets (threads)
- Right side inlet
- Number of inlets (threads)
- Bottom inlet
- Number of inlets (threads)
- Left side inlet
- Number of inlets (threads)
- Top inlet
- Number of terminals
- Terminal rated current
- Design serial number
- Explosion-proof junction box type

Inlet wiring diagram



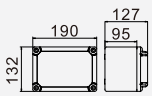
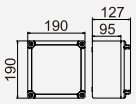
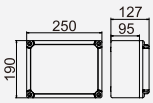
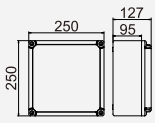
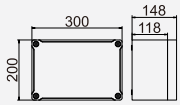
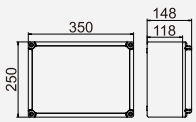
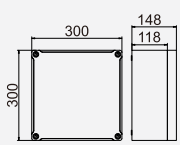
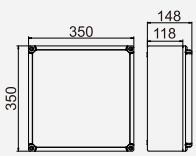
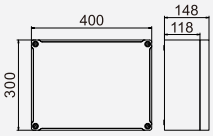
Scope of application

- Widely used in flammable and explosive gas environments such as oil extraction, refining, chemical industry, offshore oil platform tankers, etc., and also used in military industry, metal processing and other combustible dust places as lighting, power and control lines, instrumentation lines connection;
- Applicable to explosive gas environment 0, 1, 2 areas;
- Applicable to combustible dust environment 21, 22 areas;
- Applicable to IIA, II B, II C explosive gas environment;
- Applicable to combustible dust categories: IIIA, IIIB, IIIC;
- Applicable to temperature groups T1~T6.

Product Features

- The shell is made of aluminum alloy die-casting, and the surface is sprayed with high-voltage electrostatic plastic;
- The curved sealing structure is adopted, and the sealing ring is made of high-temperature resistant and anti-aging silicone rubber, which has strong waterproof and dustproof performance;
- The terminal adopts internationally renowned brand terminals, which are convenient for wiring, firm and reliable, and there are various specifications for the current size for users to choose;
- The direction of the inlet is diverse, and the inlet can be selected arbitrarily according to user requirements, or it can be directly equipped with DQM series explosion-proof cable clamping and sealing joints according to user requirements (Note: users must indicate when ordering);
- The inlet of the junction box is configured with a clamping nut with a pressure plate device by default, which double locks the cable; please indicate if the user has special requirements;
- The specifications of the inlet of the junction box are generally British pipe threads, and metric threads or NPT threads can also be processed according to user requirements, but it must be indicated when ordering;
- Stainless steel exposed fasteners, anti-slip structure, easy to install and repair;
- The intrinsically safe junction box can be used for intrinsically safe lines such as explosion-proof instruments, explosion-proof communication systems, and explosion-proof monitoring systems for signal transmission. The internal terminals use internationally renowned brand blue intrinsically safe explosion-proof terminals.

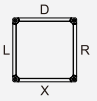
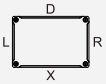
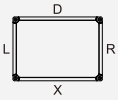
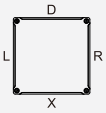
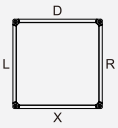
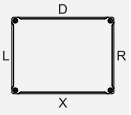
Selection table

Enclosure code ordering code	Outline	Max.number of fitted terminals					
		Intrinsically safe terminal 2.5mm2	2.5mm²	4mm²	6mm²	10mm²	16mm²
I		18	18	16	/	/	/
II		18	18	16	14	/	/
III		30	30	28	22	18	/
IV		50	50	40	30	18	15
V		36	36	30	26	20	16
VI		90	90	72	56	50	36
VII		72	72	60	50	36	30
VIII		90	90	72	56	50	36
IX		100	100	84	74	56	44



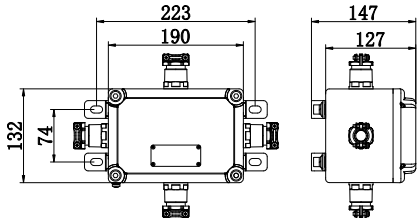
Standard:	GB/T 3836.1、GB/T 3836.3、GB/T 3836.4、GB/T 3836.31、IEC 60079-0、IEC 60079-7、IEC 60079-11、IEC 60079-31、EN 60079-0、EN 60079-7、EN 60079-11、EN 60079-31			
Ex marking:	Ex eb ⅡC T6 Gb	Ex eb ⅡC T5 Gb	Ex eb ⅡC T4 Gb	Ex ia ⅡC T6 Gb
	Ex tb ⅢC T80℃/T95℃ Db			Ex tb ⅢC T80℃ Db
Rated voltage: ≤690V				DC 36V
Rated current: ≤630A				≤5A
Degree of protection: IP66				IP66
Ambient temperature: -40℃～+40℃/+45℃/+55℃/+60℃/+70℃				
Terminal: International brand of terminal blocks				Internationallybrand blue explosion-proof terminal 2.5mm2

Cable entry table(e.ia.IIC)

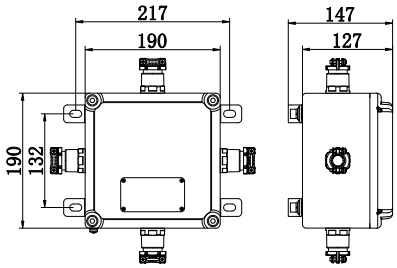
Enclosure code	I		II		III		IV		V		VI		VII		VIII		IX	
Appearance diagram																		
Size	D/X	L/R	D/X	L/R	D/X	L/R	D/X	L/R	D/X	L/R	D/X	L/R	D/X	L/R	D/X	L/R	D/X	L/R
G3/8"	6	4	6	6	10	6	10	10	18	9	21	10	18	18	21	21	27	18
G1/2"	6	2	6	6	8	6	8	8	12	6	13	8	12	12	13	13	17	12
G3/4"	3	1	3	3	5	3	5	5	10	6	12	5	10	10	12	12	14	10
G1"	2	1	2	2	3	2	3	3	6	3	7	3	6	6	7	7	9	6
G1 1/4"	1	1	1	1	2	1	2	2	3	2	4	2	3	3	4	4	5	3
G1 1/2"	1	/	1	1	2	1	2	2	2	1	3	2	2	2	3	3	4	2
G2"	/	/	/	/	/	/	/	/	2	1	2	/	2	2	2	2	3	2

Note: The number of through-plugs listed in this table is the maximum number of through-plugs of this specification that can be installed on one side of the housing. The actual number is subject to user requirements.

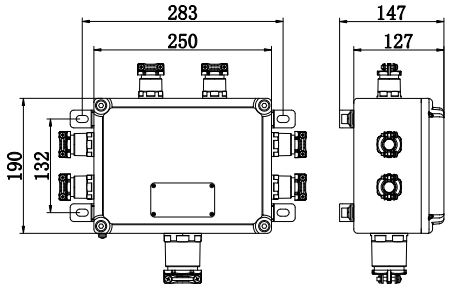
Dimension drawings (e、ia、IIIC)



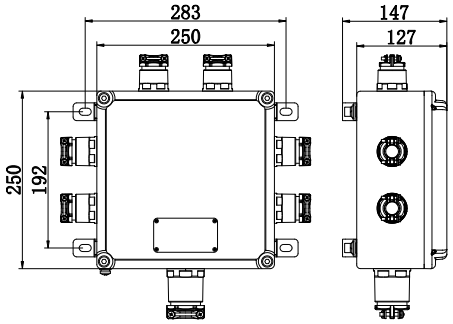
I Type



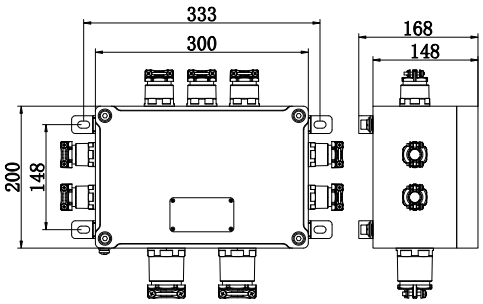
II Type



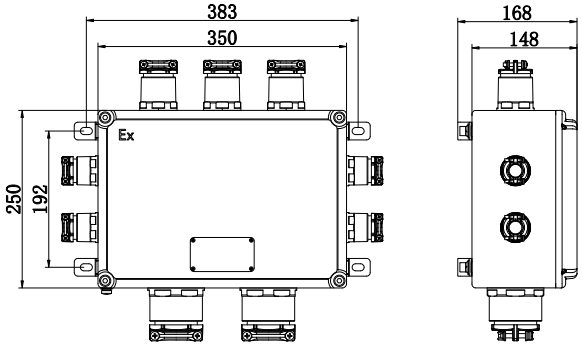
IIIType



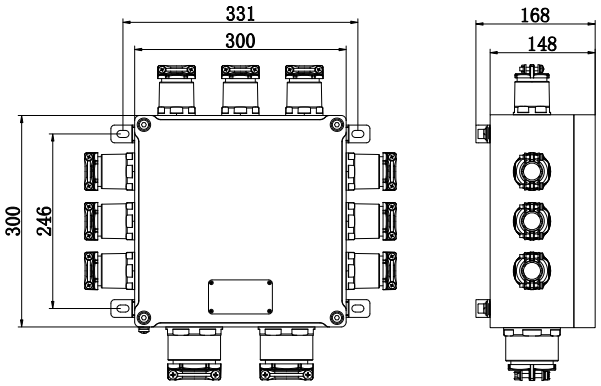
IVType



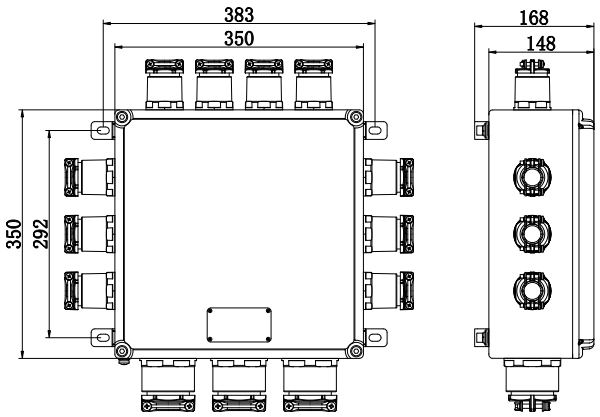
V Type



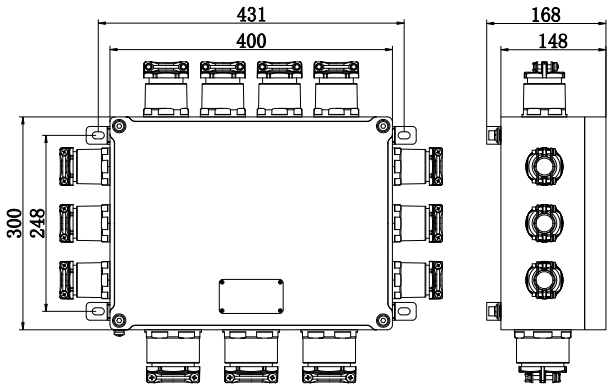
VI Type



Ⅶ Type



Ⅷ Type



Ⅸ Type



BXJ8310Series

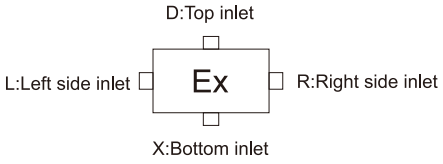
Terminal box

Catalogue number logic

BXJ 8310 □/□ D □(□) L □(□) X □(□) R □(□)

- Number of inlets (threads)
- Right side inlet
- Number of inlets (threads)
- Bottom inlet
- Number of inlets (threads)
- Left side inlet
- Number of inlets (threads)
- Top inlet
- Number of terminals
- Terminal rated current
- Design serial number
- Explosion-proof junction box type

Inlet wiring diagram



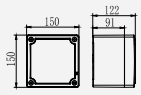
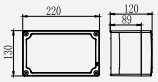
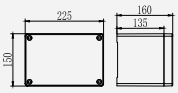
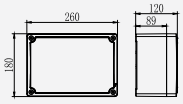
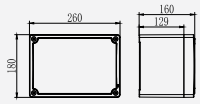
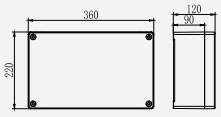
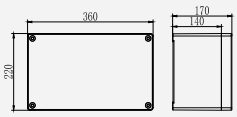
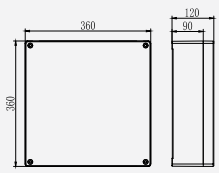
Scope of application

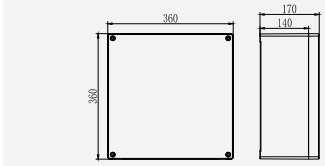
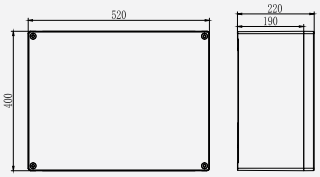
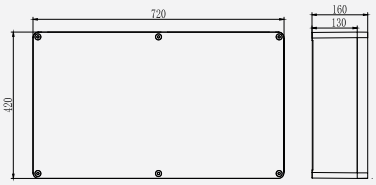
- Widely used in flammable and explosive gas environments such as oil extraction, oil refining, chemical industry, offshore oil platform tankers, etc., and also used in military industry, metal processing and other combustible dust places as the connection of lighting, power and control lines, instrumentation lines;
- Applicable to explosive gas environment 0, 1, 2 areas;
- Applicable to combustible dust environment 21, 22 areas;
- Applicable to IIA, II B, II C explosive gas environment;
- Applicable to combustible dust categories: IIIA, IIIB, IIIC;
- Applicable to temperature groups T1~T6.

Product Features

- The shell is molded with unsaturated polyester resin, which has the properties of anti-static, corrosion resistance, impact resistance, good thermal stability, and beautiful appearance;
- The joint between the shell and the shell cover adopts a labyrinth seal structure, and the sealing ring adopts high temperature resistant and anti-aging silicone rubber, which has strong waterproof and dustproof properties;
- The shell has various specifications, and a single shell or a combination of single shells can be selected according to the current, the number of terminals and the number of outlets to meet the needs;
- The terminals adopt internationally renowned brand terminals, which are convenient for wiring, firm and reliable, and there are various specifications for users to choose from in terms of current size;
- The direction of the inlet is diverse, and the inlet can be arbitrarily selected according to user requirements. According to user requirements, the DQM series explosion-proof cable clamping and sealing joints can be directly equipped (Note: users must specify when ordering);
- Stainless steel exposed fasteners, anti-drop structure, easy to install and repair;
- Intrinsically safe junction boxes can be used for intrinsically safe lines such as explosion-proof instruments, explosion-proof communication systems, explosion-proof monitoring systems, etc. for signal transmission. The internal terminals adopt internationally renowned brand blue intrinsically safe explosion-proof terminals.

Selection table

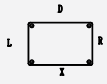
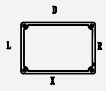
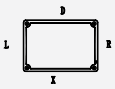
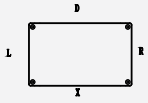
Enclosure code ordering code	Outline	Max.number of fitted terminals					
		Intrinsically safe terminal 2.5mm2	2.5mm²	4mm²	6mm²	10mm²	16mm²
I		12	12	10	8	6	/
II		28	28	22	16	14	/
III		28	28	22	16	14	/
IV		35	35	28	20	16	14
V		35	35	28	20	16	14
VI		50	50	40	30	25	20
VII		50	50	40	30	25	20
VIII		100	100	80	60	50	40

IX		100	100	80	60	50	40
X		160	160	130	100	80	70
XI		240	240	200	150	120	100

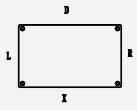
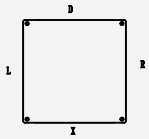
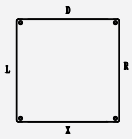
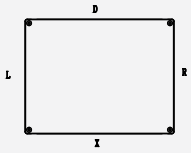
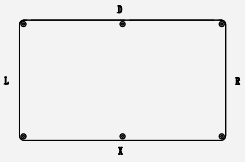


Standard:	GB/T 3836.1、GB/T 3836.3、GB/T 3836.4、GB/T 3836.31、IEC 60079-0、IEC 60079-7、IEC 60079-11、IEC 60079-31、EN 60079-0、EN 60079-7、EN 60079-11、EN 60079-31			
Ex marking:	Ex eb ⅡC T6 Gb	Ex eb ⅡC T5 Gb	Ex eb ⅡC T4 Gb	Ex ia ⅡC T4 Gb
	Ex tb ⅢC T80℃/T95℃ Db			Ex tb ⅢC T80℃ Db
Rated voltage:	≤690V			DC 36V
Rated current:	≤630A			≤5A
Degree of protection:	IP66			IP66
Ambient temperature:	-40℃～+40℃/+45℃/+55℃/+60℃/+70℃			
Terminal: International brand of terminal blocks				Internationallybrand blue explosion-proof terminal 2.5mm2

Cable entry table (e、ia、IIIC)

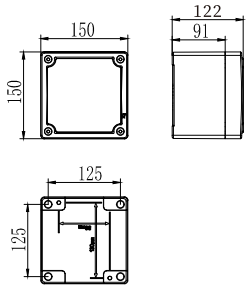
Enclosure code	I		II		III		IV		V		VI	
Appearance diagram												
Size	D/X	L/R	D/X	L/R	D/X	L/R	D/X	L/R	D/X	L/R	D/X	L/R
G3/8"	4	4	8	5	12	9	9	7	14	10	15	9
G1/2"	4	2	6	4	9	6	8	6	12	9	12	8
G3/4"	2	1	4	2	4	4	5	3	7	4	9	5
G1"	1	1	2	1	4	2	3	2	6	4	7	4
G1 1/4"	/	/	2	1	4	2	2	2	2	2	4	2
G1 1/2"	/	/	/	/	/	/	2	1	2	1	3	2
G2"	/	/	/	/	/	/	/	/	/	/	3	1

Cable entry table (e、ia、IIIC)

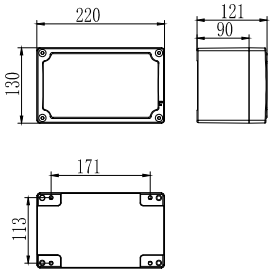
Enclosure code	VII		VIII		IX		X		XI	
Appearance diagram										
Size	D/X	L/R	D/X	L/R	D/X	L/R	D/X	L/R	D/X	L/R
G3/8"	23	14	15	17	23	26	60	45	45	30
G1/2"	18	12	12	14	18	21	41	33	39	27
G3/4"	14	8	9	11	14	17	35	27	29	20
G1"	11	6	7	7	11	11	22	18	19	12
G1 1/4"	8	4	4	4	8	8	12	11	9	6
G1 1/2"	5	3	3	3	5	5	10	8	7	5
G2"	3	1	3	3	3	3	7	6	5	3
G2 1/2"	/	/	/	/	/	/	3	2	4	3
G3"	/	/	/	/	/	/	2	2	/	/

Note: The number of through-plugs listed in this table is the maximum number of through-plugs of this specification that can be installed on one side of the housing. The actual number is subject to user requirements.

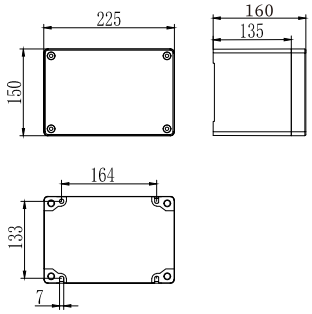
Dimension drawings (e、ia、IIIC)



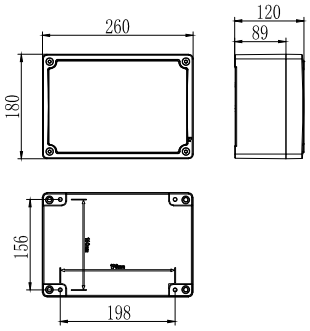
BXJ8310- I



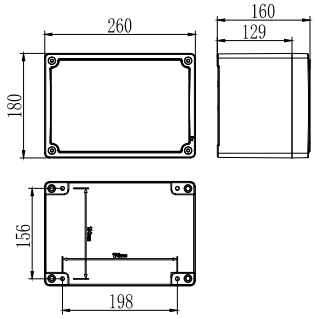
BXJ8310- II



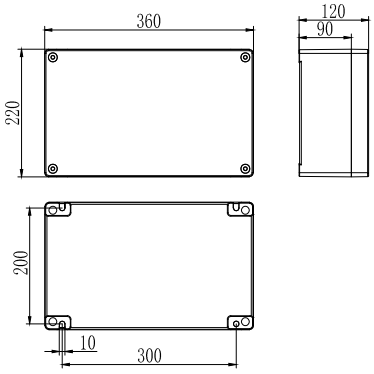
BXJ8310-III



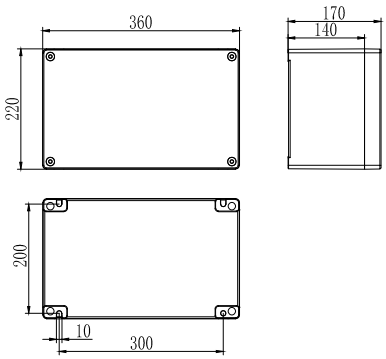
BXJ8310-IV



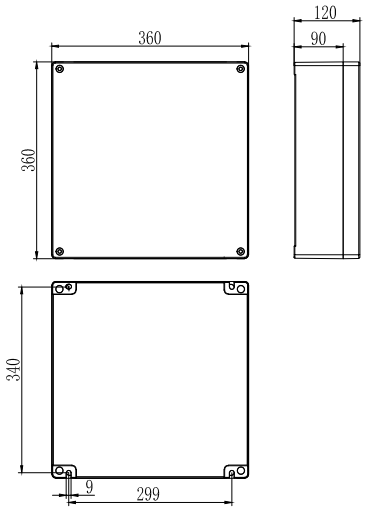
BXJ8310-V



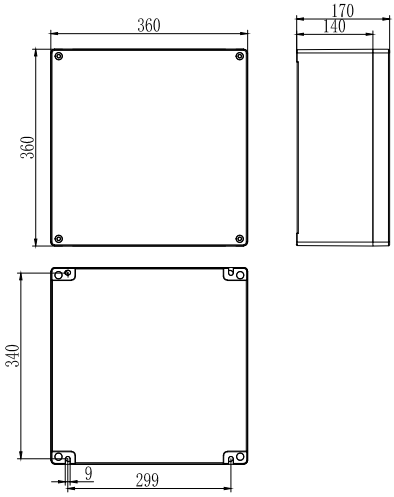
BXJ8310-VI



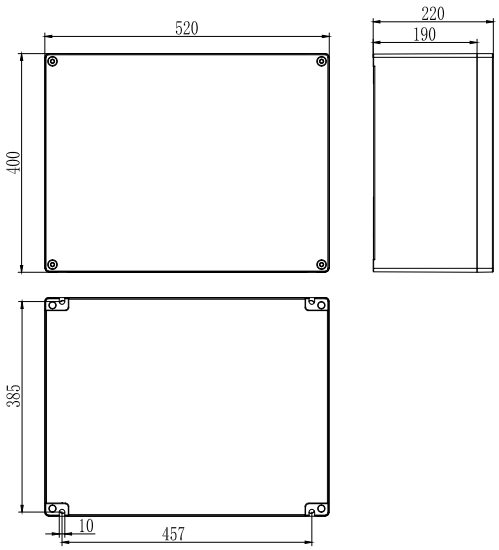
BXJ8310-Ⅶ



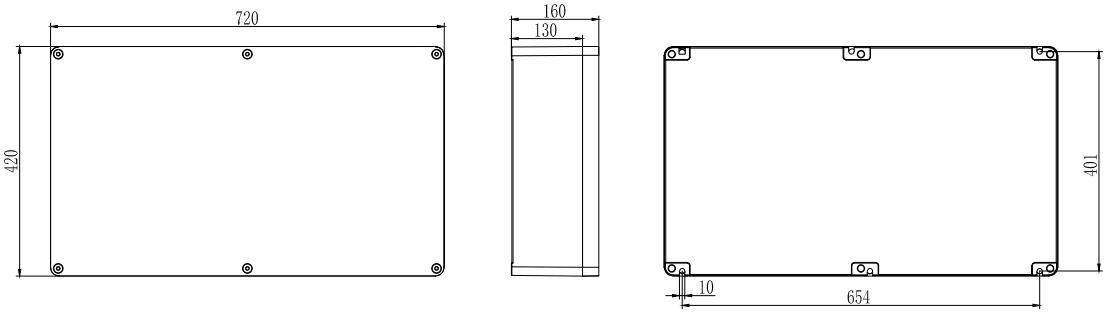
BXJ8310-Ⅷ



BXJ8310-Ⅸ



BXJ8310-Ⅹ



BXJ8310-Ⅺ







BZC5310Series

Explosion-proof operating column

Scope of application

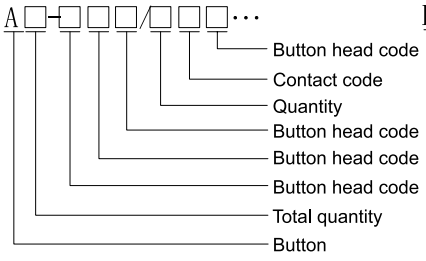
- Widely used in flammable and explosive gas environments such as oil mining, oil refining, chemical industry, offshore oil platform tankers, and also in combustible dust places such as military industry and metal processing;
- Applicable to explosive gas environment Zone 1 and Zone 2 places;
- Applicable to explosive gas environments of Class ⅡA, ⅡB, and ⅡC;
- Applicable to combustible dust environment Zone 21 and Zone 22 places;
- Applicable to temperature groups T1~T6.

Catalogue number logic

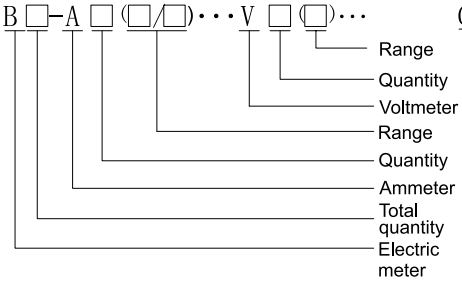
BZC 5310-A□ B□ C□ D□ K□ P□ □ □

- □ (last): No requirement, no note; F1, medium corrosion protection Wf1; F2, strong corrosion protection Wf2
- □: installation form — G: hanging type; L: vertical type
- P□: Unit 6: Potentiometer specification code — potentiometer quantity (no note if not installed)
- K□: Unit 5: Switch specification code — switches quantity (no note if not installed)
- D□: Unit 4: Indicator specification code — indicator quantity (no note if not installed)
- C□: Unit 3: Illuminated button specification code — illuminated button quantity (no note if not installed)
- B□: Unit 2: Electric meter specification code — electric meter quantity (no note if not installed)
- A□: Unit 1: Button specification code — button quantity (no note if not installed)
- 5310: Design serial number
- BZC: explosion-proof operating column

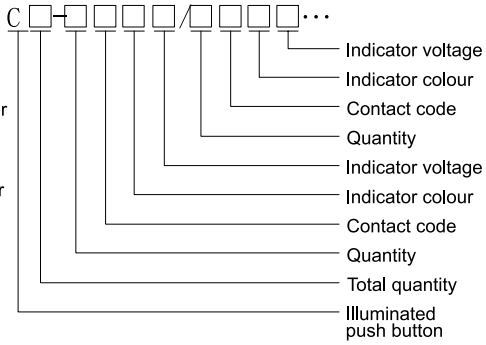
Unit 1



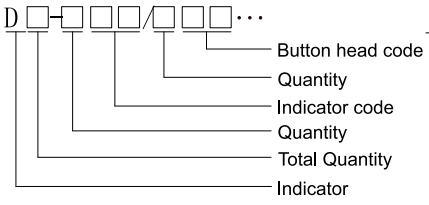
Unit 2



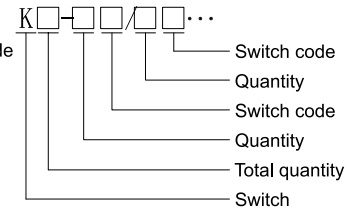
Unit 3



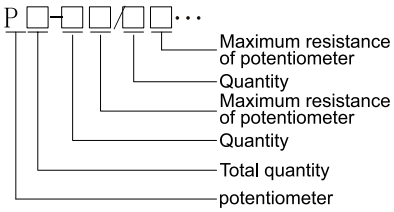
Unit 4



Unit 5



Unit 6



Product Features

- The shell is made of aluminum alloy die-casting, and the surface is sprayed with high-voltage electrostatic plastic;
- The shell and upper cover adopt a curved sealing structure, and the sealing ring is made of high-temperature resistant and anti-aging silicone rubber, which has strong waterproof and dustproof performance;
- The increased safety shell is equipped with explosion-proof components (universal control switch, control button, indicator light, potentiometer, electric meter, etc.);
- The explosion-proof components adopt a top-mounted structure, which is easy to install, with modular design of functional areas and strong component interchangeability;
- The shell and cover are installed with stainless steel hinges for easy installation and maintenance;
- Stainless steel exposed fasteners and anti-drop structure are easy to install and maintain;
- Two installation methods, vertical and hanging, meet the needs of different scenarios.

Technical data

Standard:	GB/T 3836.1、GB/T 3836.2、GB/T 3836.3、GB/T 3836.31、IEC 60079-0、IEC 60079-1、IEC 60079-7、IEC 60079-31、EN 60079-0、EN 60079-1、EN 60079-7、EN 60079-31
Ex marking:	Ex db eb ⅡC T6 Gb/Ex tb ⅢC T80℃ Db
Rated voltage:	AC 220/380V、AC 230/400V、DC 220V
Rated current:	10A
Degree of protection:	IP66
Anti-corrosive degree:	WF1*WF2
Ambient temperature:	-40℃~+55℃
Applicable categories:	AC-15、DC-13
Internal components:	explosion-proof buttons, explosion-proof electric meters, explosion-proof indicator lights, explosion-proof conversion switches, explosion-proof potentiometers, etc.
Cable entry thread:	Inlet and outlet thread: vertical type uses special vertical through-head, G1" inlet specification, please indicate if you have special requirementsHanging type uses DQM-VII series cable clamping and sealing joint, G1" inlet specification, please indicate if you have special requirements
Applicable cable outer diameter:	Applicable to 13mm~17mm cable
Installation method:	hanging, vertical
Wiring method:	cable wiring (please specify steel pipe wiring)

Ordering Instructions

- When selecting, please indicate the quantity, specifications, installation method, inlet and outlet direction of buttons, meters, indicators, switches, etc. according to the meaning of the main unit and sub-unit, and specify the model of the required product in detail;
- In the main unit, indicate the quantity, installation method, inlet method, specifications and quantity of the required buttons, meters, indicators, switches;
- In the sub-unit, indicate the quantity and specifications of the buttons, meters, indicators, switches;
- If there are no special requirements, our company's red buttons are equipped with a group of normally closed contacts, and green or yellow buttons are equipped with a group of normally open contacts; the indicator voltage level is AC220~380V, red represents stop, and green represents operation; if there are different requirements, please provide a schematic diagram;
- After the main unit and sub-unit are selected, they are combined together to form a complete selection code;

For example, the order code is: BZC5310-A2B1D2G WF2；

A2-1 Ⅰa1/1 Ⅱ a2

B1-A1(100/5)

D2-1Rd/1Gd

This product is a two-button, one-meter, two-light hanging type, with two standard buttons, one red, one normally closed; one green, one normally open. The ammeter range is 100/5, and the indicator lights are 220V~380V, with one red color and one green color;

BZC5310-B1C2K1L WF2；

B1-A1 (100/5)

C2-1 IRd/1 Ⅱ Gd

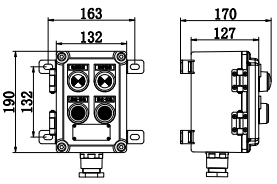
K1-1A

This product is: one meter, with two lighted buttons, and one switch, the ammeter range is 100/5,and the specifications of the two lighted buttons are one normally closed and one light,one normally open and one light. The indicator lights are 220V~380v with one red color and one green color, and the switch is A universal.

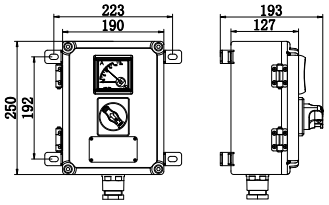
- Lighted button can only be one button, one light core;
- For internal explosion-proof accessories, please refer to the accessories details page. If the switch needs to be customized, please provide an electrical schematic or contact diagram;
- The conventional configuration of the hanging inlet thread is G thread DQM-I explosion-proof cable clamping and sealing joint. If other types are required, please refer to our company's relevant product selection manual;
- Default cable wiring (please specify steel pipe wiring).

Dimension and installation (e、ia、IIC)

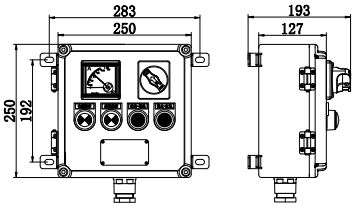
Hanging type



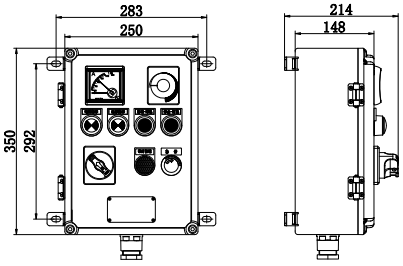
Ⅰ Type



Ⅱ Type

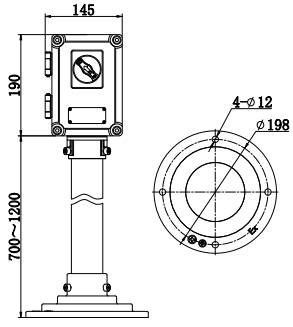


Ⅲ Type

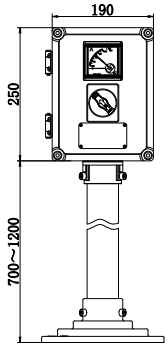


Ⅳ Type

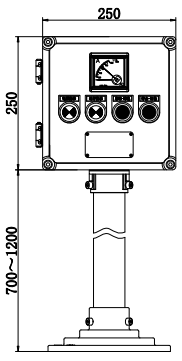
Vertical type



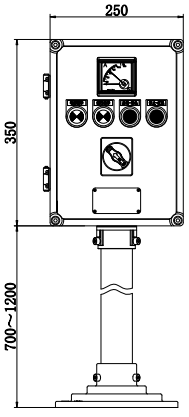
Ⅰ Type



Ⅱ Type

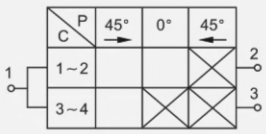
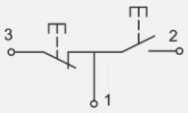
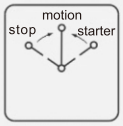
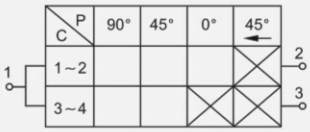
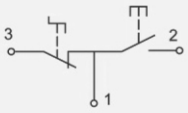
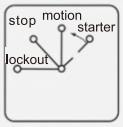
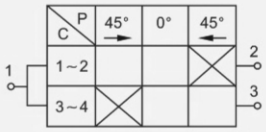
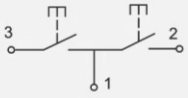
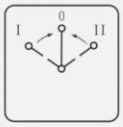
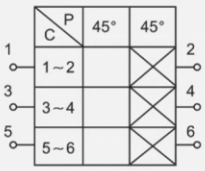
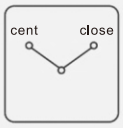
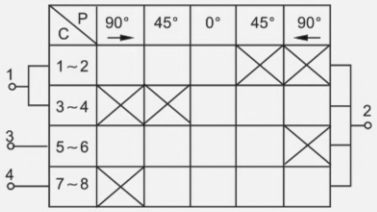
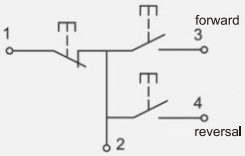
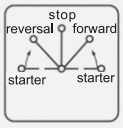
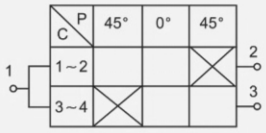
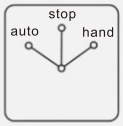
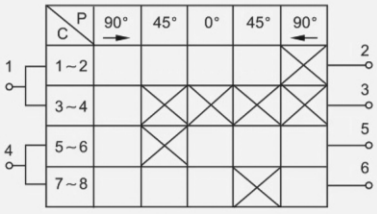
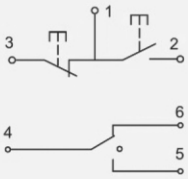
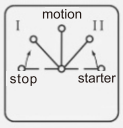
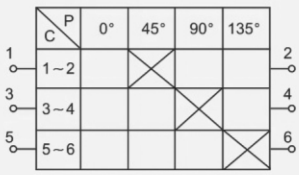
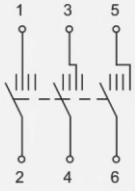


Ⅲ Type

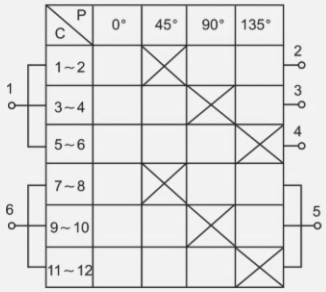
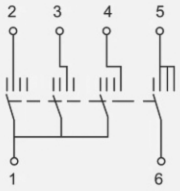
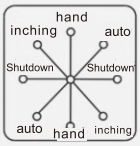
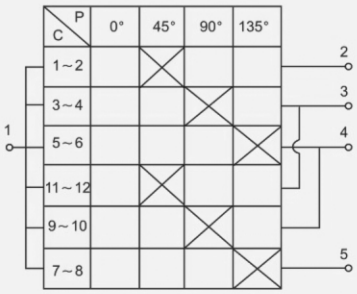
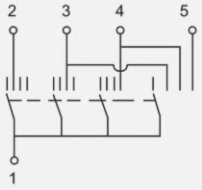
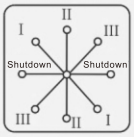
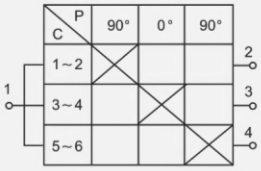
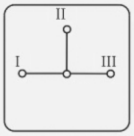
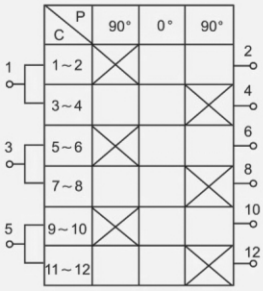
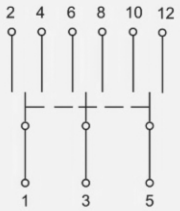
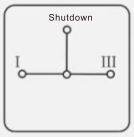
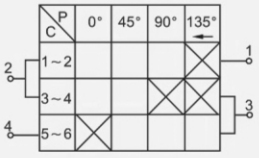
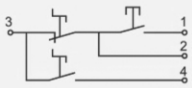
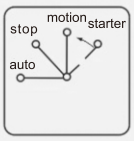
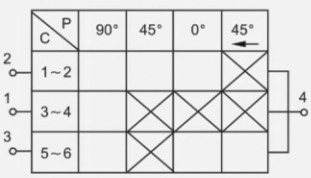
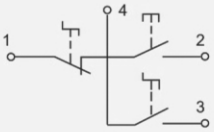
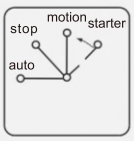


Ⅳ Type

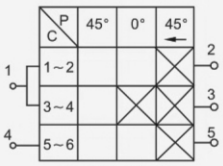
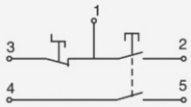
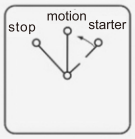
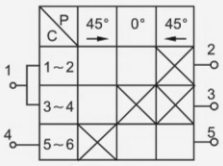
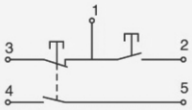
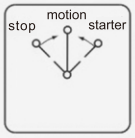
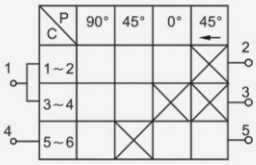
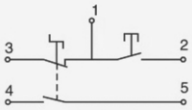
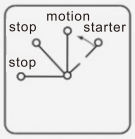
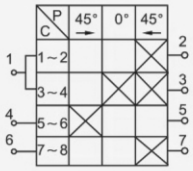
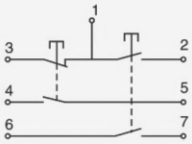
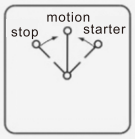
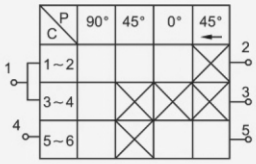
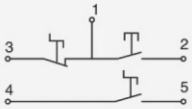
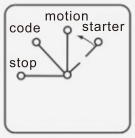
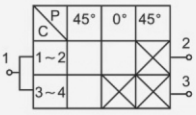
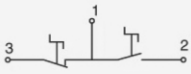
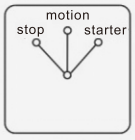
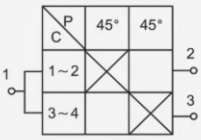
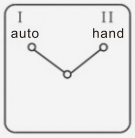
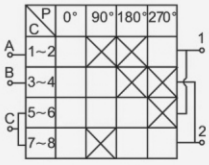
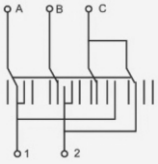
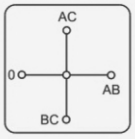
Switch code brief description

Switch combi symbol	contact graph	Equivalent switch	Knob position (Solid line indicates positioning, dotted line indicates self-reset)	Equivalent function description
A				A. Function wiring is the same as double control button, automatic reset.
B				B. Function is the same as double button, automatic reset at start, can be equipped with locking device, lock the switch in stop gear to avoid misoperation.
C				C. Function is 2 buttons with normally open contacts, automatic reset, suitable for high-voltage motor control circuit. Or use A function panel.
D				D. Low-power power switch.
E				E. Function is the same as three buttons, used to control the forward and reverse rotation of the motor, and the forward and reverse starting positions are automatically reset.
F				F. Selector switch, with stop gear in the middle.
G				G.equivalent to 2 buttons and a switch installed on one shaft, can output communication signals or monitoring signals before starting and stopping.
H				H. multi-signal transmission, arbitrary direction rotation.

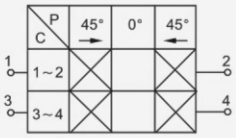
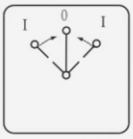
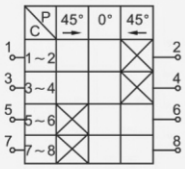
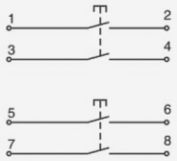
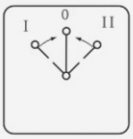
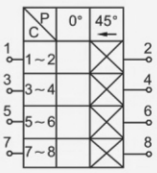
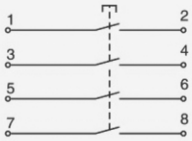
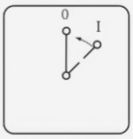
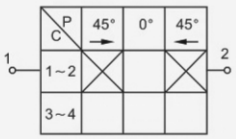
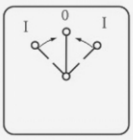
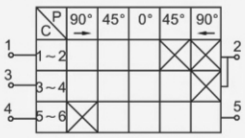
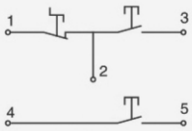
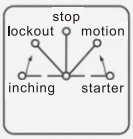
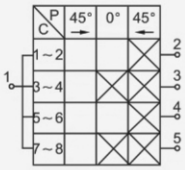
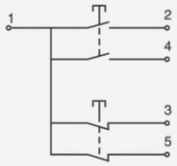
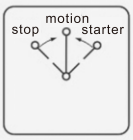
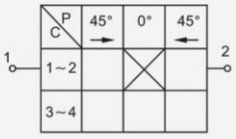
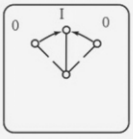
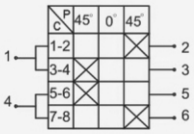
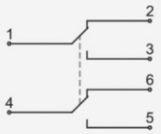
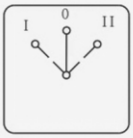
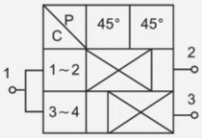
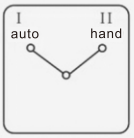
Switch code brief description

Switch combi symbol	contact graph	Equivalent switch	Knob position (Solid line indicates positioning, dotted line indicates self-reset)	Equivalent function description
I				I. added total signal transmission function on the basis of H.
J				J. two-position step-by-step switching.
K				K. switch.
L				L. three-pole double-throw selection switch.
M				M. automatic, manual, start three-position conversion switch, self-reset at start, must pass the stop gear position to turn to the automatic gear position after starting.
N				N. slightly different from the M universal structure, directly turn to the automatic gear position without passing the stop gear position after starting.

Switch code brief description

Switch combi symbol	contact graph	Equivalent switch	Knob position (Solid line indicates positioning, dotted line indicates self-reset)	Equivalent function description
O				O. Start is double contact, startself-reset. Can be equipped with a locking device to lock the switch in the stop position to avoid misoperation.
P				P. Stop is double contact, can replace A and C respectively, start and stop, automatic reset.
Q				Q. Stop with double contacts, start self-reset, can be equipped with a locking device, lock the switch in the lock stop position to avoid misoperation.
R				R. Start and stop are both equipped with double contacts,start and stop are automatically reset, same as A universal panel.
S				S. Send a contact signal before starting and stopping.
T				T. Start and stop can be equipped with a locking device to lock the switch in the start or stop position to avoid misoperation, no automatic reset.
U				U. double control selection switch
V				V. voltage phase change measurement conversion switch

Switch code brief description

Switch combi symbol	contact graph	Equivalent switch	Knob position (Solid line indicates positioning, dotted line indicates self-reset)	Equivalent function description
W				W. 1pcs 2 normally open self-reset button, same on left and right.
X				X. 2pcs self-reset buttons with 2 normally open contacts.
Y				Y. self-reset button with 4 normally open contacts.
Z				Z. power program switch, disconnected in the middle, close on both sides, can be used as a fire switch.
a				a. used for starting and inching mixed circuits.
b				b. double linkage switch.
e				e. Emergency stop switch.
f				f. 2 normally open 2 normally closed selection switch
g				g. Double control selection switch(first on then off)





BZC8310Series

Anti-corrosive explosion proof controlle

Scope of application

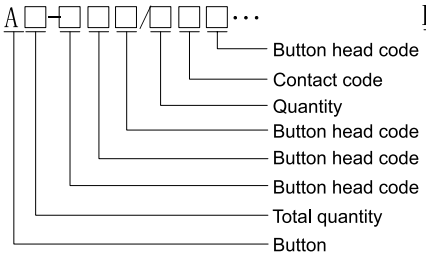
- Widely used in flammable and explosive gas environments such as oil extraction, oil refining, chemical industry, offshore oil platform tankers, and also in combustible dust places such as military industry and metal processing;
- Applicable to explosive gas environment Zone 1 and Zone 2 places;
- Applicable to Class ⅡA, ⅡB, ⅡC explosive gas environments;
- Applicable to combustible dust environment Zone 21 and Zone 22 places;
- Applicable to temperature groups T1~T6.

Catalogue number logic

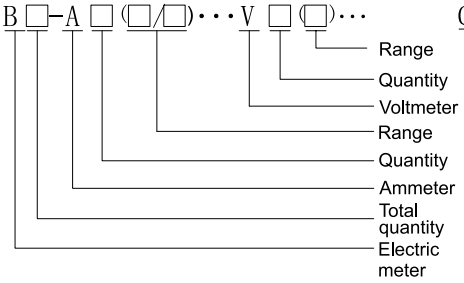
BZC 8310-A□ B□ C□ D□ K□ P□ □ □

- Explosion-proof operating column
- Design serial number
- Unit 1: Button specification code — button quantity (no note if not installed)
- Unit 2: Electric meter specification code — electric meter quantity (no note if not installed)
- Unit 3: Illuminated button specification code — illuminated button quantity (no note if not installed)
- Unit 4: Indicator specification code — indicator quantity (no note if not installed)
- Unit 5: Switch specification code — switches quantity (no note if not installed)
- Unit 6: Potentiometer specification code — potentiometer quantity (no note if not installed)
- installation form: G: hanging type; L: vertical type
- No requirement, no note
- F1, medium corrosion protection Wf1
- F2, strong corrosion protection Wf2

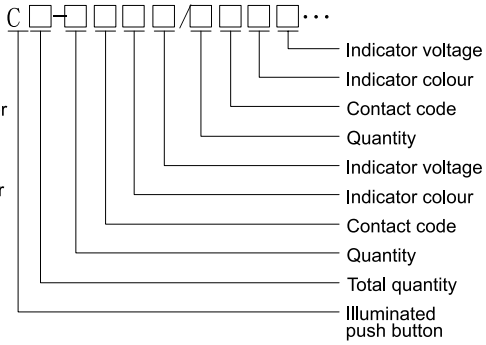
Unit 1



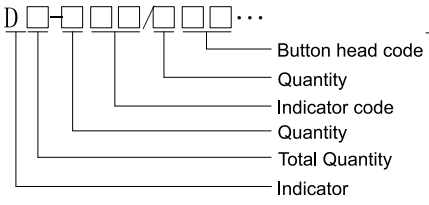
Unit 2



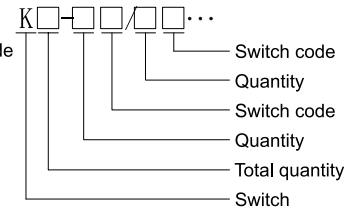
Unit 3



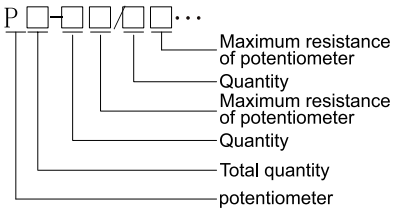
Unit 4



Unit 5



Unit 6



Product Features

- The shell is molded with unsaturated polyester resin, which has the properties of anti-static, corrosion resistance, impact resistance, good thermal stability, and beautiful appearance;
- The joint between the shell and the shell cover adopts a labyrinth sealing structure, and the sealing ring adopts high temperature resistant and anti-aging silicone rubber, which has strong waterproof and dustproof properties;
- The increased safety shell is equipped with explosion-proof components (universal control switch, control button, indicator light, potentiometer, electric meter, etc.);
- The explosion-proof components adopt a top-mounted structure, which is easy to install, with modular design of functional areas and strong component interchangeability;
- The shell and cover are installed with stainless steel hinges for easy installation and maintenance;
- Stainless steel exposed fasteners and anti-drop structure are easy to install and maintain;
- There are two installation methods, vertical and hanging, to meet the needs of different scenes.

Technical data

Standards	GB/T 3836.1、GB/T 3836.2、GB/T 3836.3、GB/T 3836.31、IEC 60079-0、IEC 60079-1、IEC 60079-7、IEC 60079-31、EN 60079-0、EN 60079-1、EN 60079-7、EN 60079-31
Ex marking	Ex db eb ⅡC T6 Gb/Ex tb ⅢC T80℃ Db
Rated voltage	AC 220/380V、AC 230/400V、DC 220V
Rated current	10A
Degree of protection	IP66
Anti-corrosive degree	Wf2
Ambient temperature	-40℃~+55℃
Applicable categories	AC-15、DC-13
Internal components	explosion-proof buttons, explosion-proof electric meters, explosion-proof indicator lights, explosion-proof conversion switches, explosion-proof potentiometers, etc.
Inlet and outlet threads	Vertical type uses a special vertical through-head, G1" lead-in specification, please indicate if there are special requirements Hanging type uses DQM-VI type cable clamping sealing joint, G3/4" lead-in specification, please indicate if there are special requirements
Applicable cable outer diameter	Applicable to 12mm~16mm cables
Installation method	hanging type, vertical type
Wiring method	cable wiring (please indicate steel pipe wiring)

Ordering Instructions

- When selecting, please indicate the quantity, specifications, installation method, inlet and outlet direction of buttons, meters, indicators, switches, etc. according to the meaning of the main unit and sub-unit, and specify the model of the required product in detail;
- In the main unit, indicate the quantity, installation method, inlet method, specifications and quantity of the required buttons, meters, indicators, switches;
- In the sub-unit, indicate the quantity and specifications of the buttons, meters, indicators, switches;
- If there are no special requirements, our company's red buttons are equipped with a group of normally closed contacts, and green or yellow buttons are equipped with a group of normally open contacts; the indicator voltage level is AC220~380V, red represents stop, and green represents operation; if there are different requirements, please provide a schematic diagram;
- After the main unit and sub-unit are selected, they are combined together to form a complete selection code;

For example, the order code is: BZC8310-A2B1D2G WF2；

A2-1 Ⅰa1/1 Ⅱ a2
B1-A1(100/5)
D2-1Rd/1Gd

This product is a two-button, one-meter, two-light hanging type, with two standard buttons, one red, one normally closed; one green, one normally open. The ammeter range is 100/5, and the indicator lights are 220V~380V, with one red color and one green color;

BZC8310-B1C2K1L WF2；

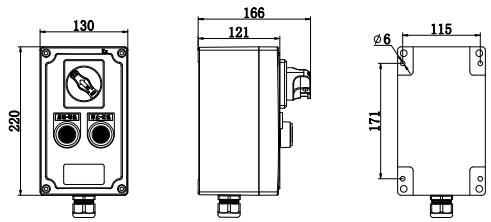
B1-A1 (100/5)
C2-1 IRd/1 Ⅱ Gd
K1-1A

This product is: one meter, with two lighted buttons, and one switch, the ammeter range is 100/5,and the specifications of the two lighted buttons are one normally closed and one light,one normally open and one light. The indicator lights are 220V~380v with one red color and one green color, and the switch is A universal.

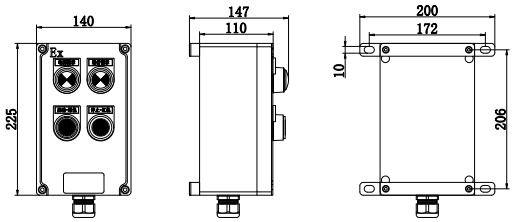
- Lighted button can only be one button, one light core;
- For internal explosion-proof accessories, please refer to the accessories details page. If the switch needs to be customized, please provide an electrical schematic or contact diagram;
- The conventional configuration of the hanging inlet thread is G thread DQM-I explosion-proof cable clamping and sealing joint. If other types are required, please refer to our company's relevant product selection manual;
- Default cable wiring (please specify steel pipe wiring).

Installation and dimension (e、ia、IIIC)

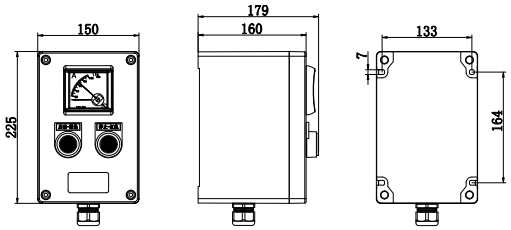
hanging type



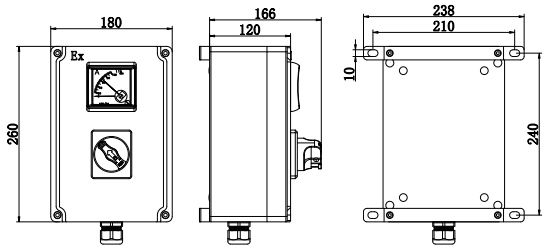
BZC8310- Ⅰ



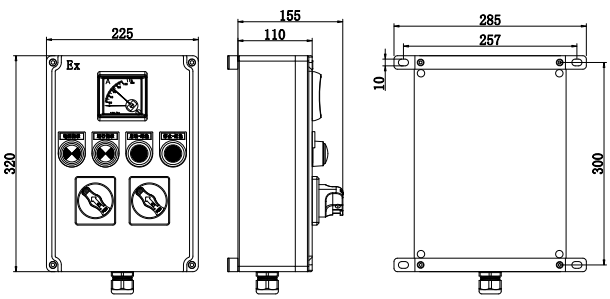
BZC8310-Ⅱ



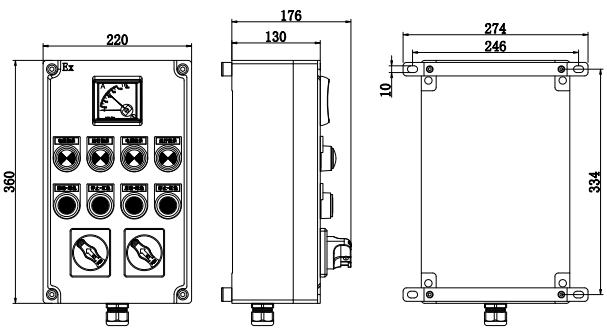
BZC8310-Ⅲ



BZC8310-Ⅳ

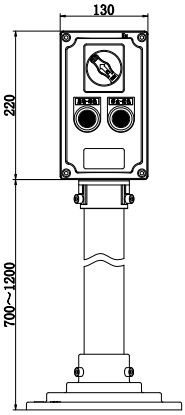


BZC8310-Ⅴ

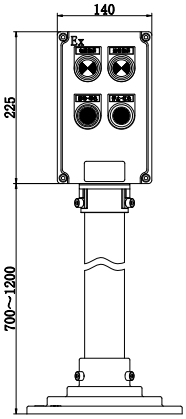


BZC8310-Ⅵ

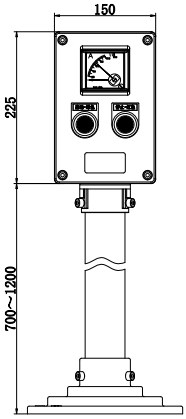
Vertical type



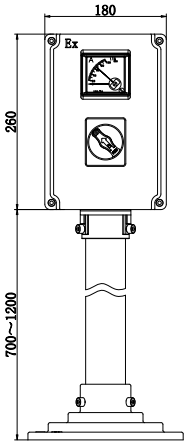
BZC8310-Ⅰ



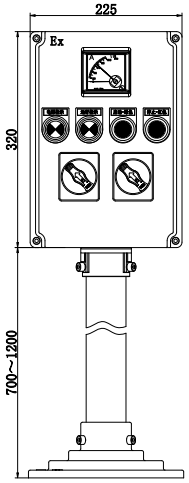
BZC8310-Ⅱ



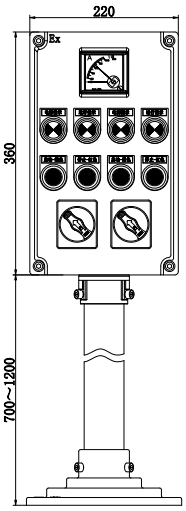
BZC8310-Ⅲ



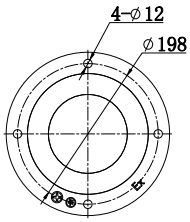
BZC8310-Ⅳ



BZC8310-Ⅴ

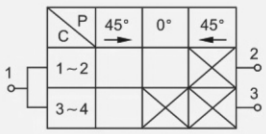
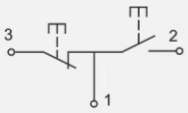
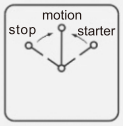
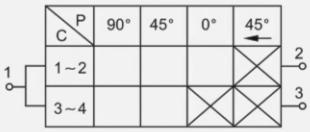
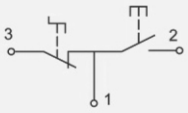
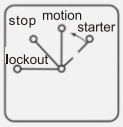
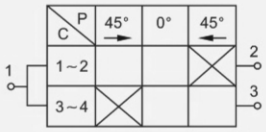
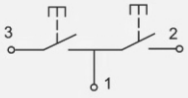
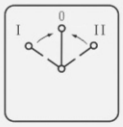
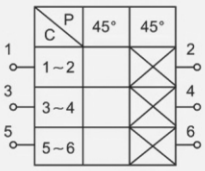
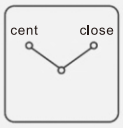
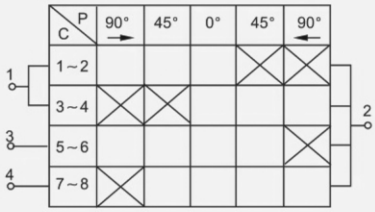
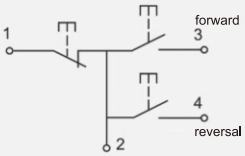
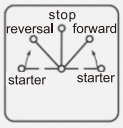
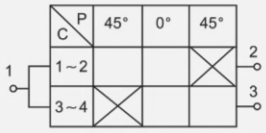
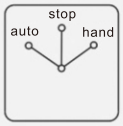
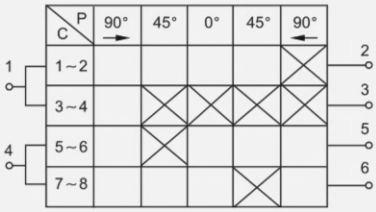
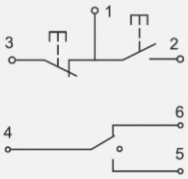
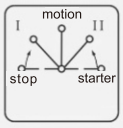
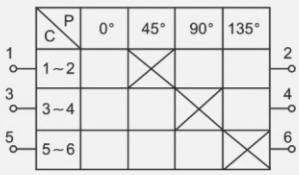
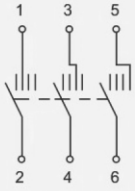


BZC8310-Ⅵ

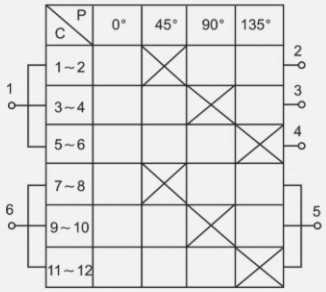
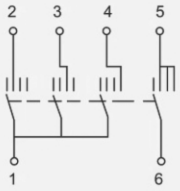
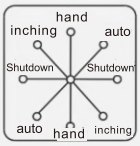
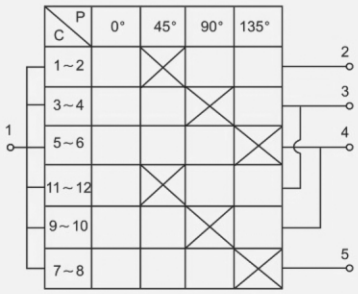
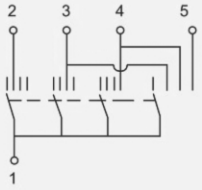
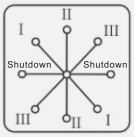
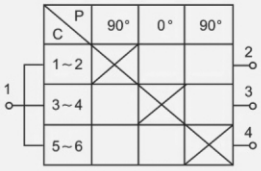
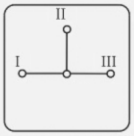
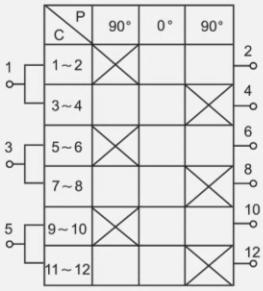
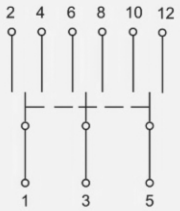
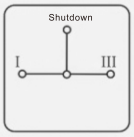
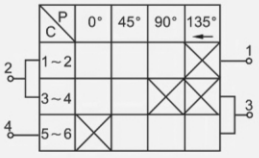
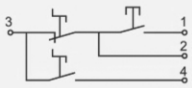
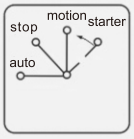
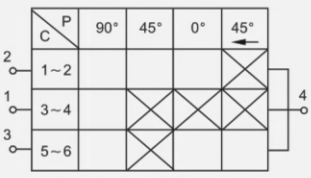
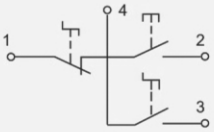
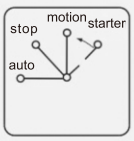


底盘尺寸

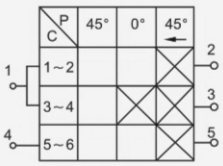
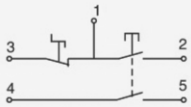
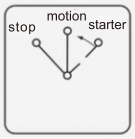
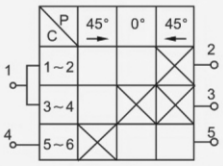
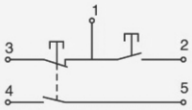
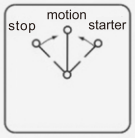
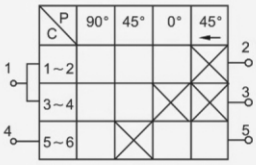
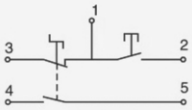
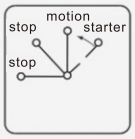
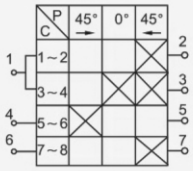
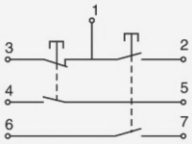
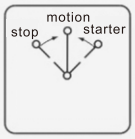
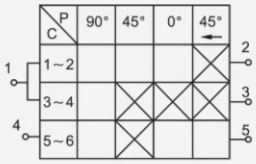
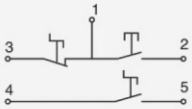
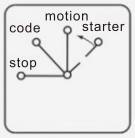
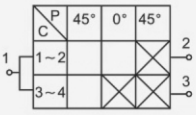
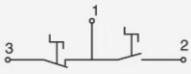
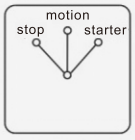
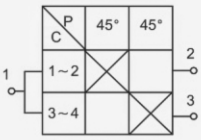
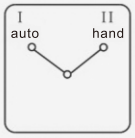
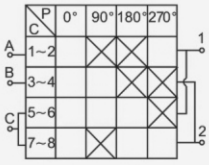
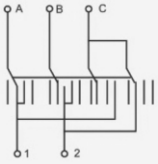
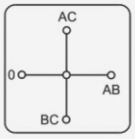
Switch code brief description

Switch combi symbol	contact graph	Equivalent switch	Knob position (Solid line indicates positioning, dotted line indicates self-reset)	Equivalent function description
A				A. Function wiring is the same as double control button, automatic reset.
B				B. Function is the same as double button, automatic reset at start, can be equipped with locking device, lock the switch in stop gear to avoid misoperation.
C				C. Function is 2 buttons with normally open contacts, automatic reset, suitable for high-voltage motor control circuit. Or use A function panel.
D				D. Low-power power switch.
E				E. Function is the same as three buttons, used to control the forward and reverse rotation of the motor, and the forward and reverse starting positions are automatically reset.
F				F. Selector switch, with stop gear in the middle.
G				G.equivalent to 2 buttons and a switch installed on one shaft, can output communication signals or monitoring signals before starting and stopping.
H				H. multi-signal transmission, arbitrary direction rotation.

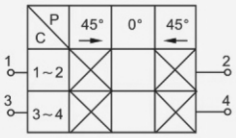
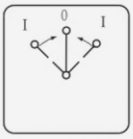
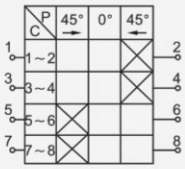
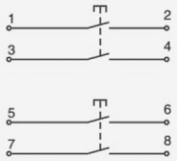
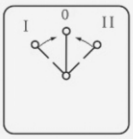
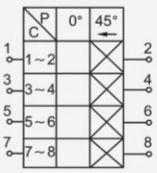
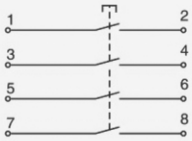
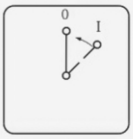
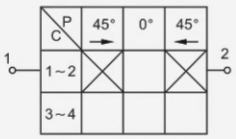
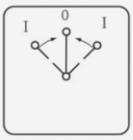
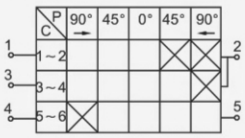
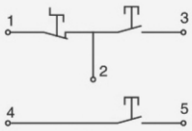
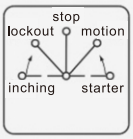
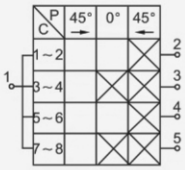
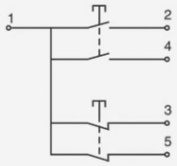
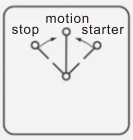
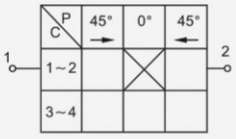
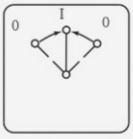
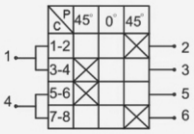
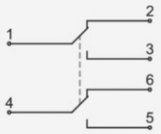
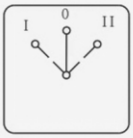
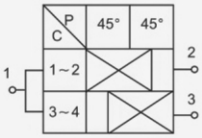
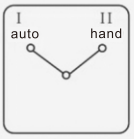
Switch code brief description

Switch combi symbol	contact graph	Equivalent switch	Knob position (Solid line indicates positioning, dotted line indicates self-reset)	Equivalent function description
I				I. added total signal transmission function on the basis of H.
J				J. two-position step-by-step switching.
K				K. switch.
L				L. three-pole double-throw selection switch.
M				M. automatic, manual, start three-position conversion switch, self-reset at start, must pass the stop gear position to turn to the automatic gear position after starting.
N				N. slightly different from the M universal structure, directly turn to the automatic gear position without passing the stop gear position after starting.

Switch code brief description

Switch combi symbol	contact graph	Equivalent switch	Knob position (Solid line indicates positioning, dotted line indicates self-reset)	Equivalent function description
O				O. Start is double contact, startself-reset. Can be equipped with a locking device to lock the switch in the stop position to avoid misoperation.
P				P. Stop is double contact, can replace A and C respectively, start and stop, automatic reset.
Q				Q. Stop with double contacts, start self-reset, can be equipped with a locking device, lock the switch in the lock stop position to avoid misoperation.
R				R. Start and stop are both equipped with double contacts,start and stop are automatically reset, same as A universal panel.
S				S. Send a contact signal before starting and stopping.
T				T. Start and stop can be equipped with a locking device to lock the switch in the start or stop position to avoid misoperation, no automatic reset.
U				U. double control selection switch
V				V. voltage phase change measurement conversion switch

Switch code brief description

Switch combi symbol	contact graph	Equivalent switch	Knob position (Solid line indicates positioning, dotted line indicates self-reset)	Equivalent function description
W				W. 1pcs 2 normally open self-reset button, same on left and right.
X				X. 2pcs self-reset buttons with 2 normally open contacts.
Y				Y. self-reset button with 4 normally open contacts.
Z				Z. power program switch, disconnected in the middle, close on both sides, can be used as a fire switch.
a				a. used for starting and inching mixed circuits.
b				b. double linkage switch.
e				e. Emergency stop switch.
f				f. 2 normally open 2 normally closed selection switch
g				g. Double control selection switch(first on then off)



BZA5200series

Explosion proof control unit system

Scope of application

- Widely used in flammable and explosive gas environments such as oil mining, oil refining, chemical industry, offshore oil platforms, tankers, etc., and also used in combustible dust places such as military industry and metal processing;
- Applicable to explosive gas environment Zone 1 and Zone 2 places;
- Applicable to IIA, IIB, IIC explosive gas environments;
- Applicable to combustible dust environment Zone 21 and Zone 22 places;
- Applicable to combustible dust categories mA, ImB, mC.
- Applicable to temperature groups T1~T6.

Catalogue number logic

BZA 5200 – □ □ □

Specification code

Component code	Specification code	Specification description
A1 A2	11	1 normally open 1 normally closed
	20	2 normally open
	02	2 normally closed
D1 D2 D3 D4	R	Red
	G	Green
	Y	Yellow
	W	White
	B	Blue

Component code

Component code	Description	Component code	Description
A1	Explosion-proof emergency stop button	D1	Indicator light AC/DC 24~36V
A2	Explosion-proof ordinary button	D2	Indicator light AC 220~380V
A1	Ammeter	D3	Indicator light DC 12~60V
A2	Voltmeter	D4	Indicator light AC/DC 110~240V

Component type
- A: Button
- B: Ammeter (voltmeter/ammeter)
- D: Indicator light

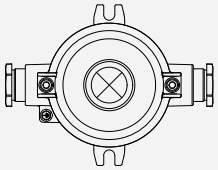
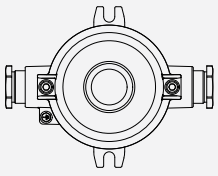
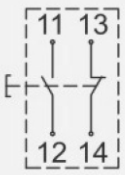
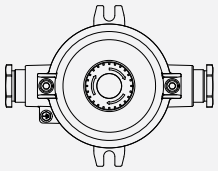
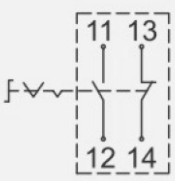
Design serial number

Explosion-proof master controller

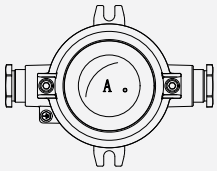
Technical data

Conformity to standards：GB/T 3836.1、GB/T 3836.2、GB/T 3836.31、IEC 60079-0、IEC 60079-1、IEC 60079-31、EN 60079-0、EN 60079-1、EN 60079-31
Ex marking： Ex db ⅡC T6 Gb/Ex tb ⅢC T80℃ Db
Rated voltage：AC 220/380V、AC 230/400V、DC 220V
Rated current：10A
Degree of protection：IP66
Degree of anti-corrosive：WF1*WF2
Ambient temperature：-40℃~+55℃
Use Category：AC-15、DC-13
Internal components：buttons, electric meters, indicator lights
Inlet and outlet threads：G3/4” please indicate if there are special requirements
Applicable cable outer diameter：Applicable to 10mm~14mm cables
Installation method：hanging type
Wiring method：cable wiring (please indicate steel pipe wiring)

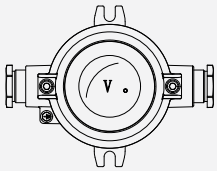
Selection table(push buttom /indicator)

Outline	Colour		Contact diagram	Net Weight（kg）
Indicator light 	Red Green Yellow White Blue			0.71
Explosion-proof ordinary button 	Red Green			0.71
Explosion-proof emergency stop button 	Red			0.77

Selection table(Ammeter)

Outline	Description	Overload multiple	Measuring range	Net weight（kg）
Indicator light 	Direct measurement	2times	0~20/40mA	0.71
			4~20/40mA	
	Direct measurement	2times	0~1A	
			0~5A	
	Distribution current transformer	2times or 6 times	sec.1A	
			sec.5A	

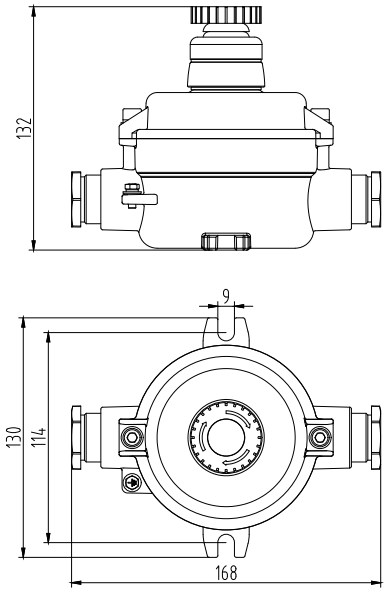
Selection table(Voltmeter)

Outline	Description	Measuring range	Net weight（kg）
Indicator light 	Direct measurement	0~10V	0.8
		0~25V	
		0~40V	
		0~60V	
		0~100V	
		0~150V	
		0~250V	
		0~300V	
		0~450V	
		0~500V	
	Distribution current transformer	sec.100V	
		sec.110V	
		sec.120V	

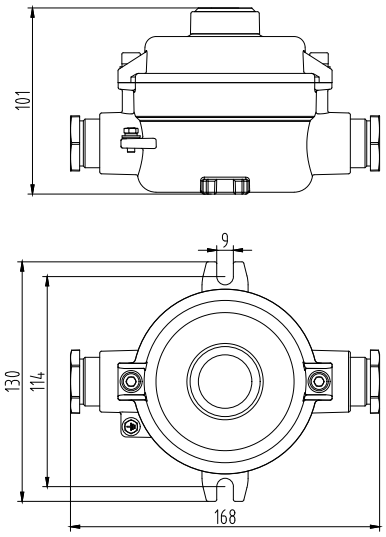
Ordering Instructions

- Please refer to the selection table for user scheme selection;
- For internal components, please refer to: ammeter (48 type), voltmeter (48 type) component appearance drawing, button selection (normally 1NO+1NC, no note);
- Example: BZA5200-A1, component: mushroom head flameproof emergency stop button, 1 normally open and 1 normally closed (1NO+1NC);
  BZA5200-D2R, component: AC220~380 red indicator light
- Please specify special requirements when ordering;
- Default cable wiring entry device (please specify for steel pipe wiring).

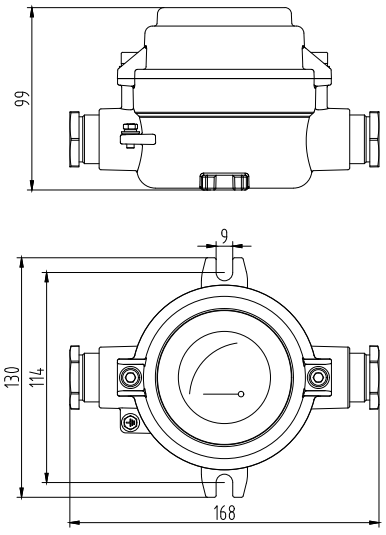
Dimension and installation



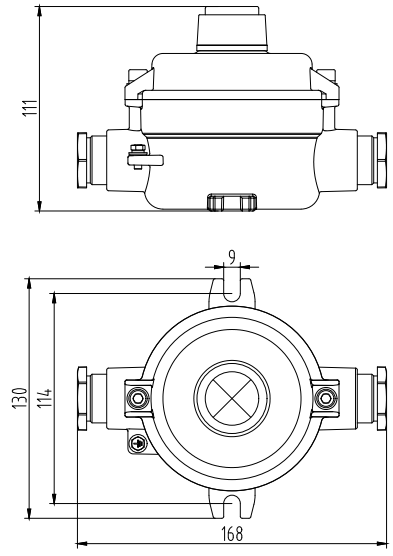
BZA5200-A1
Emergency stop button



BZA5200-A2
Original Button



BZA5200-B
Voltmeter/Ammeter



BZA5200-D
Indicator light

Explosion-proof lighting switch typed BZM */*



Ex marking: Ex db IIC T6 Gb
Ex tb IIIC T80°C Db

Application

- Can be used in Zone 1 and Zone 2, group IIA, IIB, and IIC explosive gas mixture atmosphere; Zone 21 and Zone 22, group IIIA, IIIB, and IIIC flammable dust atmosphere;
- Applicable to ambient temperature: -40°C~+55°C;
- Applicable to relative air humidity: ⩽95% (25°C);
- Applicable to explosive gas mixture temperature groups: T1~T6.

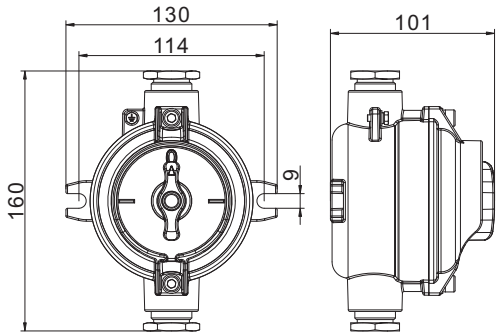
Technical Parameters

- Rated voltage: 220V/230V/250V; 50Hz
- Rated current: 10A/16A/20A;
- Explosion-proof mark: Ex db IIC T6 Gb/Ex tb IIIC T80°C Db;
- Protection level: IP66;
- Product material: aluminum alloy;
- Cable entry thread: G3/4", M25×1.5, NPT3/4";
- Suitable cable outer diameter: ϕ10~ϕ14;
- Executive standards: EN IEC 60079-0, EN 60079-1, EN 60079-31, IEC 60079-0, IEC 60079-1, IEC 60079-31, GB/T 3836.1, GB/T 3836.2
- **Explosion proof certificate: ATEX, IECEX, CNEX.**

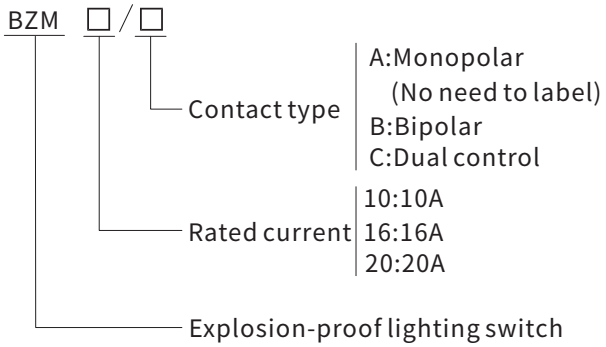
Ordering number

- Example: BZM-10: Rated current 10A, Monopolar
  BZM-16/B: Rated current 16A, Bipolar

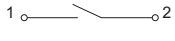
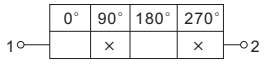
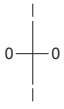
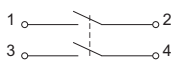
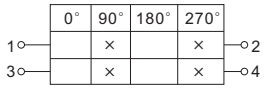
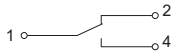
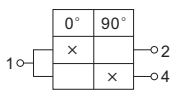
Drawing of dimension (Dimensions in mm)



Model number



Product selection table

Model specifications	Rated current(A)	Number of poles	Contact combination type	Equivalent switch	Panel position	Explosion -proof level
BZM 10/A	10	Mono-polar				II C, IIIC
BZM 16/A	16					
BZM 20/A	20					
BZM 10/B	10	Bipolar				II C, IIIC
BZM 16/B	16					
BZM 20/B	20					
BZM 10/C	10	Dual control				II C, IIIC
BZM 16/C	16					
BZM 20/C	20					