

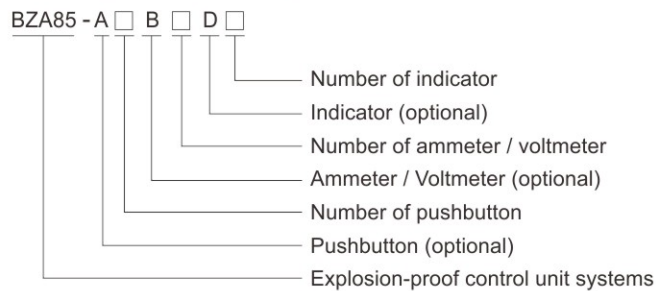
## Control Unit Systems

### BZA85 Series Explosion-proof Control Unit Systems



- ◆ Explosion protection to
  - CENELEC
  - IEC
  - NEC
- ◆ Can be used in
  - Zone 1 and Zone 2
  - Zone 21 and Zone 22
  - Class I, Zone 1 and Zone 2
  - Class I, Division 1, Groups A, B, C, D
- ◆ Copper-free Aluminium Alloy, powder coated surface.

#### ■ Catalogue number logic





#### ■ Note

1. Please refer to the Selection table on P4/25~26.
2. Please select internal components as below:
  - Selection table of HA pushbutton on P4/10~13 (nominal contact is 1NO+1NC);
  - Selection table of HD indicator on P4/14~15;
  - Dimension drawings of ammeter (type 48) and voltmeter (type 48) see P4/27.
3. Example: BZA85-A1
  - Components: One control button;
  - Tech. Details: One start control button (40036B + 40033, green, 1NO+1NC).
4. Special requirements on request.

# Zones 1&2; 21&22







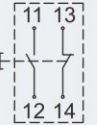



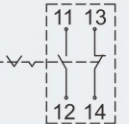


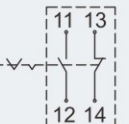
## Control Unit Systems

### BZA85 Series Explosion-proof Control Unit Systems

Technical data			
Explosion-proof control unit systems BZA85			
<b>Explosion protection</b>			
Global (IECEX)	IECEX CQM 17.0021X		
Gas and dust	Ex db IIC T6 Gb Ex tb IIIC T80°C Db IP66		
Europe (ATEX)	TÜV CY 18 ATEX 0206093 X		
Gas and dust	 II 2 G Ex db IIC T6 Gb  II 2 D Ex tb IIIC T80°C Db IP66		
<b>Certificates</b>	IECEX; ATEX; CU-TR		
<b>Conformity to standards</b>	EN 60079-0, EN 60079-1, EN 60079-31 IEC 60079-0, IEC 60079-1, IEC60079-31		
<b>Enclosure material</b>	Copper-free Aluminium Alloy, powder coated surface		
<b>Enclosure colour</b>	Window grey (RAL7040)		
<b>Exposed fastener</b>	Stainless steel		
<b>Rated voltage</b>	Max.500V AC, 250V DC		
<b>Rated current</b>	Max.10A (AC), 6A (DC)		
<b>Degree of protection</b>	IP66, IP67(optional)		
<b>Ambient temperature</b>	-60°C ~+60°C		
<b>Components</b>			
HA pushbutton	Technical data on P4/8~11		
HD indicator	Technical data on P4/12~13		
Ammeter (type 48) / Voltmeter (type 48)		Working mode	Accuracy
	Ammeter	Electromagnetic type	Class 1.5
	Voltmeter	(moving iron)	Overload times
			5 times (2 or 6 times on request)
			-
<b>Cable entries</b>	Standard 2 x M25 x 1.5 plugs 2 x NPT3/4" plugs on request		
<b>Cable gland (optional)</b>	DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~31.		


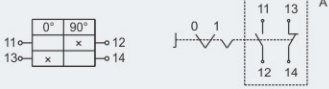
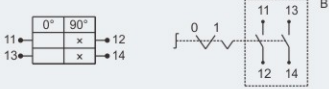

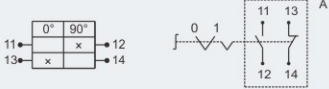
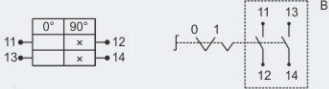


#### Selection table (Pushbutton / Indicator)


Outline	Colour	Chart of contact	Ordering code	Weight (kg)
Indicator 	Red 		40171A	0.65
	Green 		40171B	
Spring-return button 	Red 		40172A	0.65
	Green 		40172B	
Mushroom stay-put emergency pushbutton 	Red 		40173	0.7
Mushroom turn-to-release emergency pushbutton 	Red 		40174	0.7

## Control Unit Systems BZA85 Series Explosion-proof Control Unit Systems

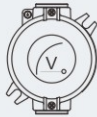
### Selection table (Pushbutton)

Outline	Chart of contact	Ordering code	Weight (kg)
Key-operated pushbutton 		40175A	0.7
		40175B	0.7
Rotary button 		40176A	0.7
		40176B	0.7

### Selection table (Ammeter)

Version	Description	Overload scale	Measuring range	Ordering code	Weight (kg)
	Direct measuring	-	0~20/40 mA	40177	0.70
			4~20/40 mA	40178	
	Direct measuring	-	0~1 A	40179	
			0~5 A	40180	
	For CT (current transformer)	2 times or 6 times	sec. 1 A	40181	
			sec. 5 A	40182	

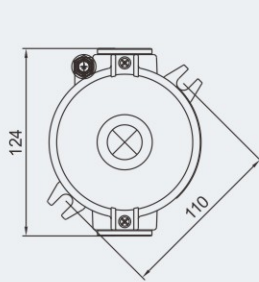
### Selection table (Voltmeter)

Version	Description	Measuring range	Ordering code	Weight (kg)
	Direct measuring	0~10 V	40183	0.70
		0~25 V	40184	
		0~40 V	40185	
		0~60 V	40186	
		0~100 V	40187	
		0~150 V	40188	
		0~250 V	40189	
		0~300 V	40190	
		0~450 V	40191	
		0~500 V	40192	
	For PT (potential transformer)	sec. 100 V	40193	
		sec. 110 V	40194	
		sec. 120 V	40195	

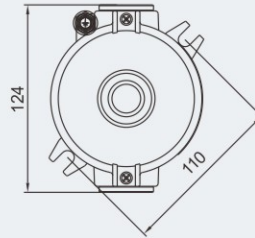
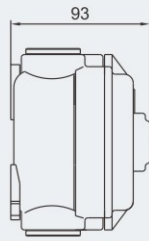


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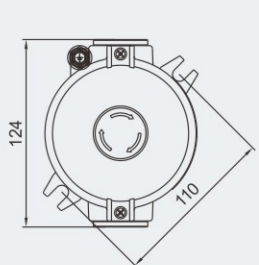
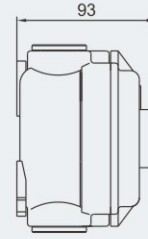
Dimension drawings (all dimensions in mm) - subject to alteration



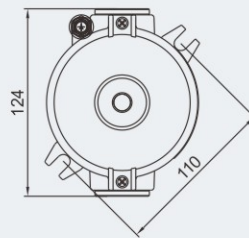
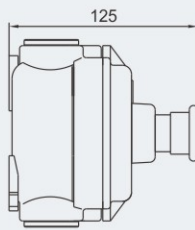
Indicator



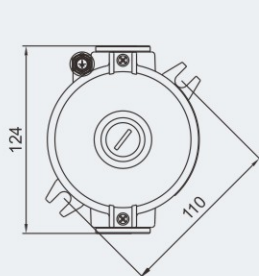
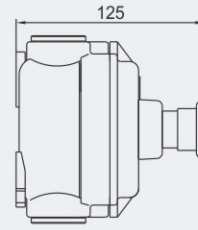
Spring-return button



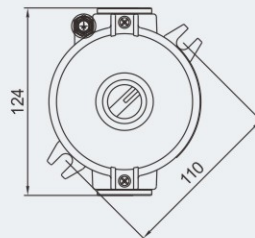
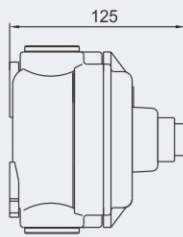
Mushroom turn-to-release emergency pushbutton



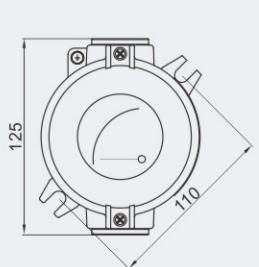
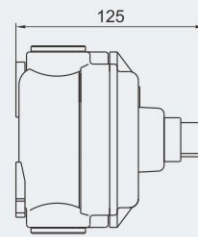
Mushroom stay-put emergency pushbutton



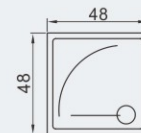
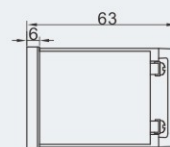
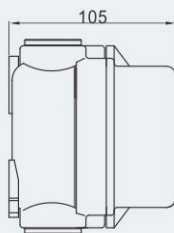
Key-operated pushbutton



Rotary button



Ammeter / Voltmeter



Ammeter (48 type) / Voltmeter (48 type)

