

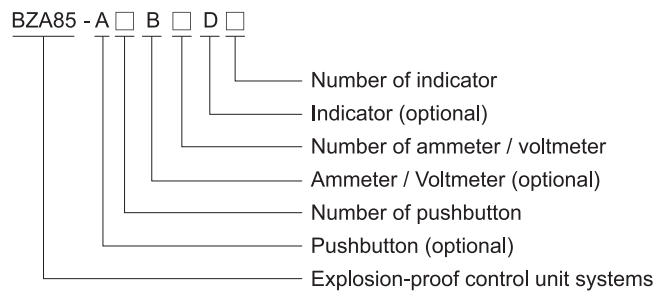
## Control Unit Systems

### 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, powder coated surface.

#### ■ Catalogue number logic



#### ■ Note

1. Please refer to the Selection table on P4/23~24.
2. Please select internal components as below:
  - Selection table of HA pushbutton on P4/8~11 (nominal contact is 1NO+1NC);
  - Selection table of HD indicator on P4/12~13;
  - Dimension drawings of ammeter (type 48) and voltmeter (type 48) see P4/25.
3. Example: BZA85-A1
  - Components: One control button
  - Tech. Details: One start control button (40036B + 40033, green, 1NO+1NC)
4. Special requirements on request.







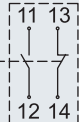



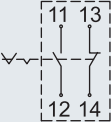


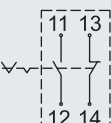
# Zones 1&2; 21&22

## Control Unit Systems

### BZA85 Series Explosion-proof Control Unit Systems

Technical data				
Explosion-proof control unit systems BZA85				
<b>Explosion protection</b>				
Gas explosion protection	Ⓔ II 2 G Ex db IIC T6 Gb			
Dust explosion protection	Ⓔ II 2 D Ex tb IIIC T80°C Db IP66			
<b>Certificates</b>	ATEX (applied for); IECEx CQM 17.0021X; 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, 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	Overload times
	Ammeter	Electromagnetic type (moving iron)	Class 1.5	5 times (2 or 6 times on request)
	Voltmeter			-
<b>Cable entries</b>	Standard 2 x M25 x 1.5 plugs 2 x G3/4" plugs or 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 P7/20~29.			


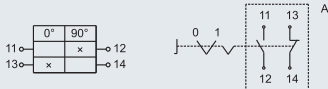
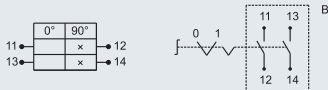

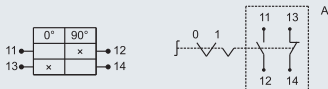
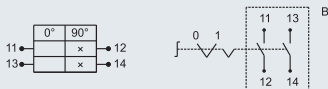
### Selection table (Pushbutton / Indicator)

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

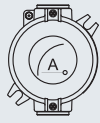


## Control Unit Systems BZA85 Series Explosion-proof Control Unit Systems


### 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)

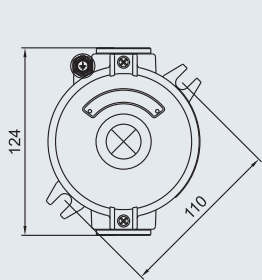
Version	Description	Overload scale	Measuring range	Ordering code	Weight (kg)
	Direct measuring	2 times	0~20/40 mA	40177	0.70
			4~20/40 mA	40178	
	Direct measuring	2 times	0~1 A	40179	
			0~5 A	40180	
	For CT (current transformer)	2 times or 6 times	sek. 1 A	40181	
			sek. 5 A	40182	

### Selection table (Voltmeter)

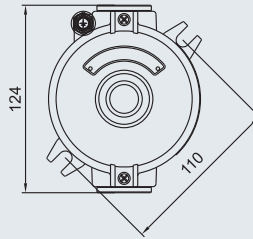
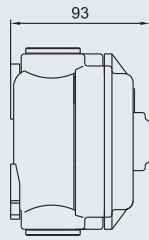
Version	Description	Measuring range	Ordering code	Weight (kg)
	Direct measuring	0~10 V	40183	0.70
		0~25 V	40184	
		0~40 V	40185	
		0~60 V	40186	
		0~100 V	40187	
		0~150 V	40188	
		0~250 V	40189	
		0~300 V	40190	
		0~450 V	40191	
		0~500 V	40192	
	For PT (potential transformer)	sek. 100 V	40193	
		sek.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

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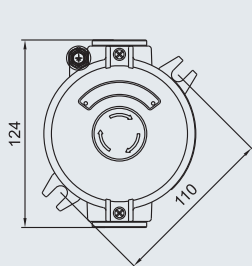
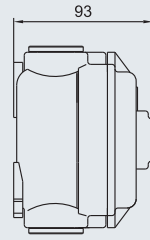
Dimension drawings (all dimensions in mm) - subject to alteration



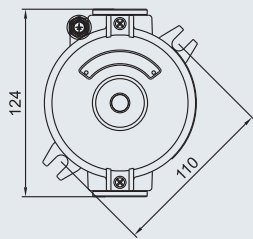
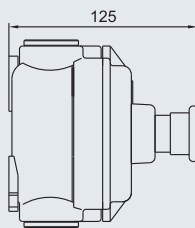
Indicator



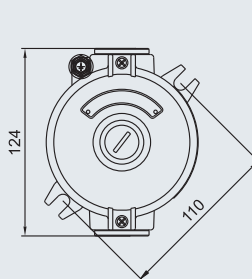
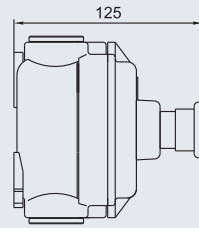
Spring-return button



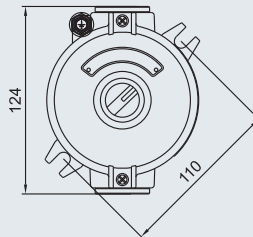
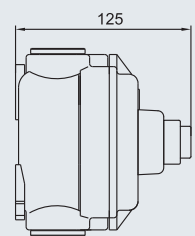
Mushroom turn-to-release  
emergency pushbutton



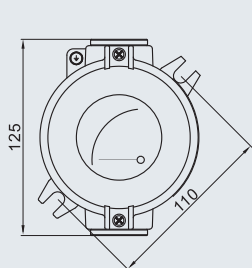
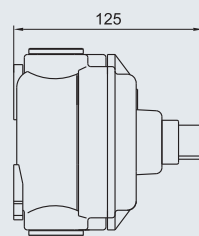
Mushroom stay-put  
emergency pushbutton



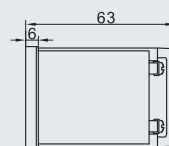
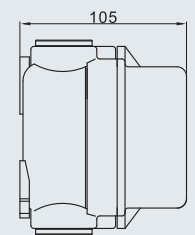
Key-operated pushbutton



Rotary button



Ammeter / Voltmeter



Ammeter (48 type) / Voltmeter (48 type)

