



SHIZUMA

PUSH BUTTON CATALOG



Characteristics Structure And Performance

Contact and Lamp Element modularization: Both Snap Action contact and Slow Action contact are the same demention, can be any combination and increase, pushbutton increase the illuminated function without increasing the product installation space, un-illuminated push button can control 3 group contacts without increasing the volume of the products simultaneously.

Self-cleaning capacity of the switch contact: adhering to Shuangke advanced design concepts, Snap action contact have self-cleaning ability, with the operation of the push button switch, the contacts can be self-cleaning surface dust and oxidation layer, keep the electricity performance of the products.

The waterproof performance: increase the waterproof design, waterproof grade up to IP65. Small size, simple structure the rear dimensions of the panel only 48mm, operation component: and switch components connection easier, to ensure the connection reliability and service life. It is more convenient to install.

The electricity performance more powerful: 120V voltage can carry 10A current, mechanical life up to 3 million times.

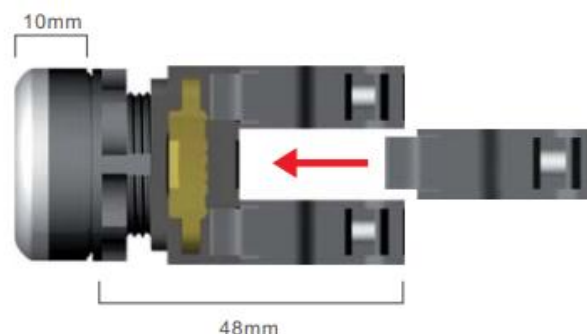
Panel Out High (10 Mm) Thin Design, Reflect Concise, Fashion Image Of Plane Control Panel

Can realize image fashionable device and operation control panel. And the flat surface less concave and convex, in the security level, is to reduce the wrong operation or accident caused by bump was accidentally touch panel, and on the health level, can reduce the accumulation of dust and rubbish

The Rear Dimensions Of The Panel Only 48mm, can Proceed Save Space Design.

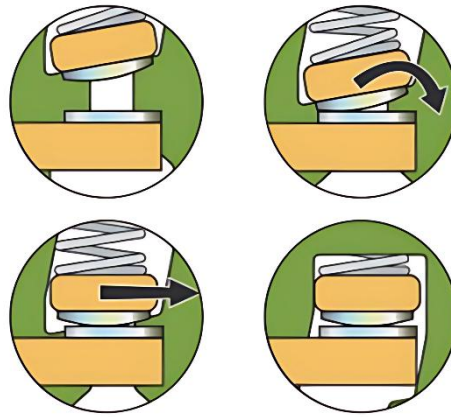
Make contributions to the miniaturization of device and control panel, make save space design to possible. Non-illuminated flat push button on each layer equipped with two contacts, can be installed two layers, total four contacts. Illuminated flat push button on each layer equipped with three contacts, can be installed two layers, total six contacts.

Can also be combined with the push button box and other $\varnothing 22$ mounting hole in common use control box, It has the ultra short body, but with 120V, AC-10A contact switching capacity. All lighting voltage without transformers, the rear of the panel elongation is consistent.



The contact with self-cleaning function, low-current can also be applied.

Both Snap Action contact and Slow Action contact can realize contact self-cleaning function. During operation, the moving contact rolling, sliding sideways after contact with the static contact, This feature to ensure the contact self-cleaning function even in the low-current applications.



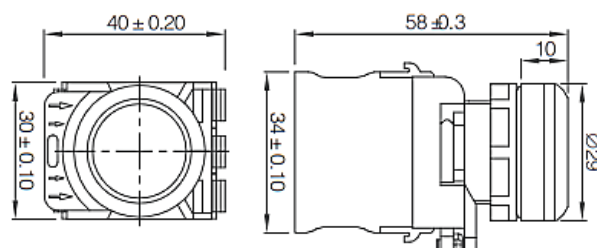
Self-cleaning function

Main Technical Data		
Rated capacity	Snap Action contact	AC-15 220V/2.2A 380V/1.5A 660V/0.8A
		DC-13 24V/3.6A 48V/3A 110V/1A 220V/0.4A 440V/0.25A
	Slow Action contact	AC-15 220V/6A 380V/4A 660V/2A
		DC-13 24V/6A 48V/3A 110V/1A 220V/0.5A 440V/0.25A
Contact resistance		≤ 50mΩ
Maximum insulation voltage		AC 2500V 50Hz. 1min
Mechanical life		Flat push button ≥ 3x10 ⁶ turn button ≥ 3x10 ⁴ Key button ≥ 5x10 ⁴ emergency button ≥ 5x10 ⁴
Electrical life		≥ 60x10 ⁴
Rate thermal current (1th)		10A
Rated insulation voltage (Ui)		AC 660V
Environment temperature		-25℃ ~ +55℃
Front protection degree		Default IP54, if need IP65, please add “IP65” after model while release orther. Key button is IP40, SKBO flat button can mach accessory F1 become IP67

Pushbuttons with plastic

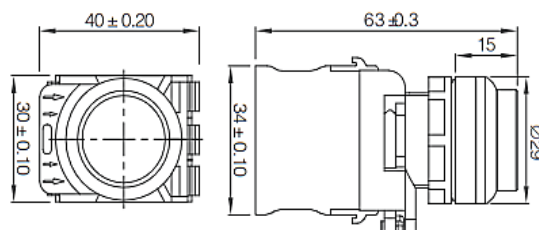
Style	Working status	Contact Classification	Type No	Color code
FLAT 	Momentary	1NO	SZB022-BM10●	R : Red Y : Yellow G : Green S : Blue B : Black
		1NC	SZB022-BM01●	
		1NO-1NC	SZB022-BM11●	
		2NO	SZB022-BM20●	
		2NC	SZB022-BM02●	
	Maintained	1NO	SZB022-BA10●	
		1NC	SZB022-BA01●	
		1NO-1NC	SZB022-BA11●	
		2NO	SZB022-BA20●	
		2NC	SZB022-BA02●	

Overall demensions



Style	Working status	Contact Classification	Type No	Color code
HIGH CAP 	Momentary	1NO	SZB022-BM210●	R : Red Y : Yellow G : Green S : Blue B : Black
		1NC	SZB022-BM201●	
		1NO-1NC	SZB022-BM211●	
		2NO	SZB022-BM220●	
		2NC	SZB022-BM202●	
	Maintained	1NO	SZB022-BA210●	
		1NC	SZB022-BA201●	
		1NO-1NC	SZB022-BA211●	
		2NO	SZB022-BA220●	
		2NC	SZB022-BA202●	

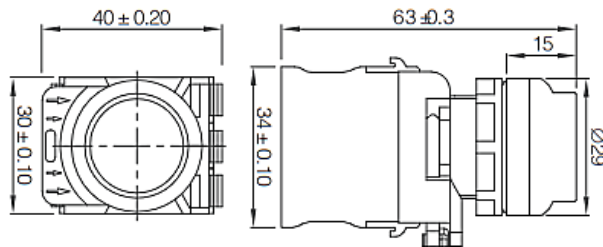
Overall demensions



Pushbuttons with plastic

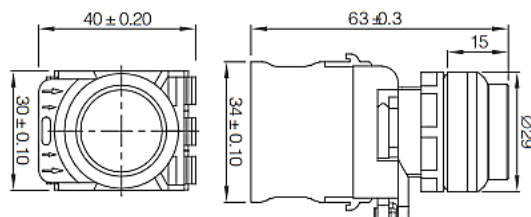
Style	Working status	Contact Classification	Type No	Color code
EXTENDED 	Momentary	1NO	SZB022-BEM10●	R : Red Y : Yellow G : Green S : Blue B : Black
		1NC	SZB022-BEM01●	
		1NO-1NC	SZB022-BEM11●	
		2NO	SZB022-BEM20●	
		2NC	SZB022-BEM02●	
	Maintained	1NO	SZB022-BEA10●	
		1NC	SZB022-BEA01●	
		1NO-1NC	SZB022-BEA11●	
		2NO	SZB022-BEA20●	
		2NC	SZB022-BEA02●	

Overall demensions



Style	Working status	Contact Classification	Type No	Color code
LOW FLAT 	Momentary	1NO	SZB022-BM310●	R : Red Y : Yellow G : Green S : Blue B : Black
		1NC	SZB022-BM301●	
		1NO-1NC	SZB022-BM311●	
		2NO	SZB022-BM320●	
		2NC	SZB022-BM302●	
	Maintained	1NO	SZB022-BA310●	
		1NC	SZB022-BA301●	
		1NO-1NC	SZB022-BA311●	
		2NO	SZB022-BA320●	
		2NC	SZB022-BA302●	

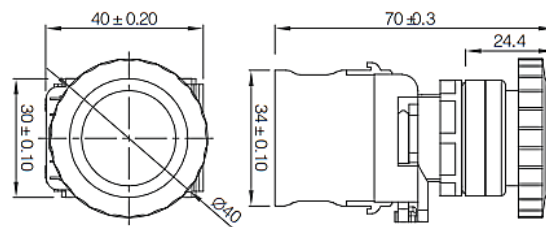
Overall demensions



Pushbuttons with plastic

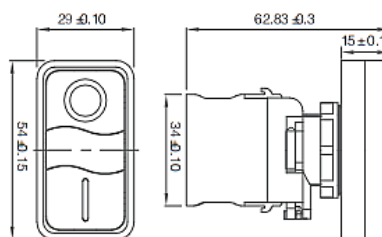
Style	Working status	Contact Classification	Type No	Color code
MUSHROOM 	Momentary	1NO	SZB022-BMM10●	R : Red Y : Yellow G : Green S : Blue B : Black
		1NC	SZB022-BMM01●	
		1NO-1NC	SZB022-BMM11●	
		2NO	SZB022-BMM20●	
		2NC	SZB022-BMM02●	
	Maintained	1NO	SZB022-BMA10●	
		1NC	SZB022-BMA01●	
		1NO-1NC	SZB022-BMA11●	
		2NO	SZB022-BMA20●	
		2NC	SZB022-BMA02●	

Overall dimensions



Style	Working status	Contact Classification	Type No	Color code
DOUBLE POSITION 	Momentary	1NO	SZB022-BDM10●●	R : Red Y : Yellow G : Green S : Blue B : Black
		1NC	SZB022-BDM01●●	
		1NO-1NC	SZB022-BDM11●●	
		2NO	SZB022-BDM20●●	
		2NC	SZB022-BDM02●●	

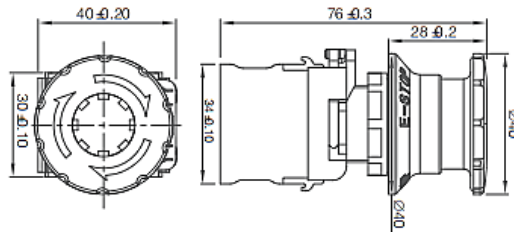
Overall dimensions



Emergency

Style	Working status	Contact Classification	Type No	Color code
Emergency Φ40 - Without Warning Ring 	Pushlock Pull/Turn Reset	1NO	SZB022-E10●	R : Red
		1NC	SZB022-E01●	
		1NO-1NC	SZB022-E11●	
		2NO	SZB022-E20●	
		2NC	SZB022-E02●	

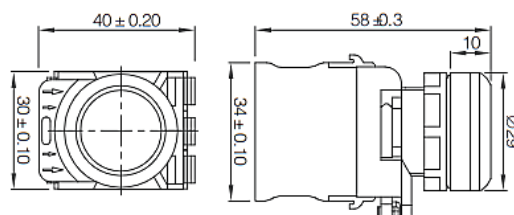
Overall dimensions



Pushbuttons with pilot light

Style	Working status	Contact Classification	Type No	Color code	Voltage
FLAT 	Momentary	1NO	SZB022-BPM10●	R : Red Y : Yellow G : Green S : Blue B : Black	6 : AC/DC6V 12 : AC/DC12V 24 : AC/DC24V 36 : AC/DC36V 48 : AC/DC48V 110 : AC/DC110V 220 : AC/DC220V
		1NC	SZB022-BPM01●		
		1NO-1NC	SZB022-BPM11●		
		2NO	SZB022-BPM20●		
		2NC	SZB022-BPM02●		
	Maintained	1NO	SZB022-BPA10●		
		1NC	SZB022-BPA01●		
		1NO-1NC	SZB022-BPA11●		
		2NO	SZB022-BPA20●		
		2NC	SZB022-BPA02●		

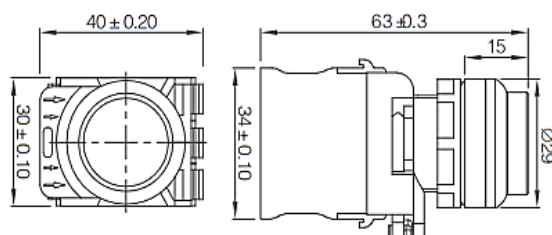
Overall dimensions



Pushbuttons with pilot light

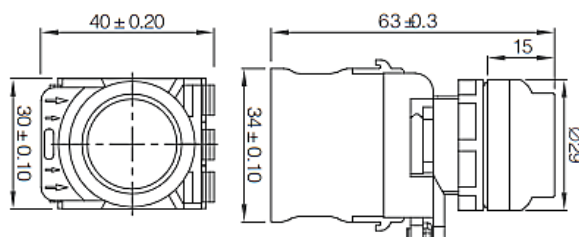
Style	Working status	Contact Classification	Type No	Color code	Voltage
HIGH CAP 	Momentary	1NO	SZB022-BPM210 ●	R : Red Y : Yellow G : Green S : Blue B : Black	6 : AC/DC6V 12 : AC/DC12V 24 : AC/DC24V 36 : AC/DC36V 48 : AC/DC48V 110 : AC/DC110V 220 : AC/DC220V
		1NC	SZB022-BPM201 ●		
		1NO-1NC	SZB022-BPM211 ●		
		2NO	SZB022-BPM220 ●		
		2NC	SZB022-BPM202 ●		
	Maintained	1NO	SZB022-BPA210 ●		
		1NC	SZB022-BPA201 ●		
		1NO-1NC	SZB022-BPA211 ●		
		2NO	SZB022-BPA220 ●		
		2NC	SZB022-BPA202 ●		

Overall demensions



Style	Working status	Contact Classification	Type No	Color code	Voltage
EXTENDED 	Momentary	1NO	SZB022-BEPM10 ●	R : Red Y : Yellow G : Green S : Blue B : Black	6 : AC/DC6V 12 : AC/DC12V 24 : AC/DC24V 36 : AC/DC36V 48 : AC/DC48V 110 : AC/DC110V 220 : AC/DC220V
		1NC	SZB022-BEPM01 ●		
		1NO-1NC	SZB022-BEPM11 ●		
		2NO	SZB022-BEPM20 ●		
		2NC	SZB022-BEPM02 ●		
	Maintained	1NO	SZB022-BEPA10 ●		
		1NC	SZB022-BEPA01 ●		
		1NO-1NC	SZB022-BEPA11 ●		
		2NO	SZB022-BEPA20 ●		
		2NC	SZB022-BEPA02 ●		

Overall demensions

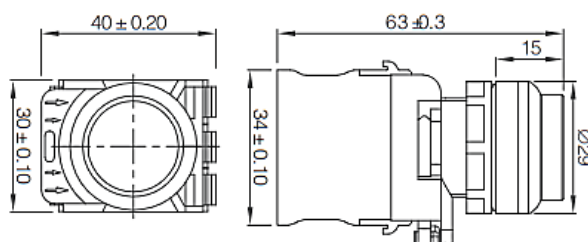




Pushbuttons with pilot light

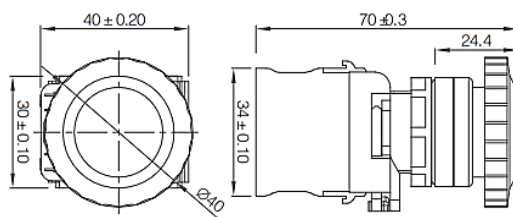
Style	Working status	Contact Classification	Type No	Color code	Voltage
LOW FLAT 	Momentary	1NO	SZB022-BPM310●	R : Red Y : Yellow G : Green S : Blue B : Black	6 : AC/DC6V 12 : AC/DC12V 24 : AC/DC24V 36 : AC/DC36V 48 : AC/DC48V 110 : AC/DC110V 220 : AC/DC220V
		1NC	SZB022-BPM301●		
		1NO-1NC	SZB022-BPM311●		
		2NO	SZB022-BPM320●		
		2NC	SZB022-BPM302●		
	Maintained	1NO	SZB022-BPA310●		
		1NC	SZB022-BPA301●		
		1NO-1NC	SZB022-BPA311●		
		2NO	SZB022-BPA320●		
		2NC	SZB022-BPA302●		

Overall demensions

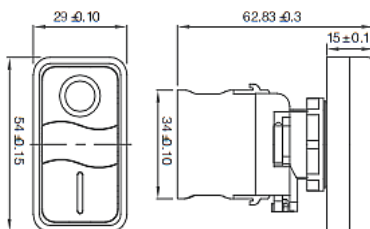


Style	Working status	Contact Classification	Type No	Color code	Voltage
MUSHROOM 	Momentary	1NO	SZB022-BPMM10●	R : Red Y : Yellow G : Green S : Blue B : Black	6 : AC/DC6V 12 : AC/DC12V 24 : AC/DC24V 36 : AC/DC36V 48 : AC/DC48V 110 : AC/DC110V 220 : AC/DC220V
		1NC	SZB022-BPMM01●		
		1NO-1NC	SZB022-BPMM11●		
		2NO	SZB022-BPMM20●		
		2NC	SZB022-BPMM02●		
	Maintained	1NO	SZB022-BPMA10●		
		1NC	SZB022-BPMA01●		
		1NO-1NC	SZB022-BPMA11●		
		2NO	SZB022-BPMA20●		
		2NC	SZB022-BPMA02●		

Overall demensions

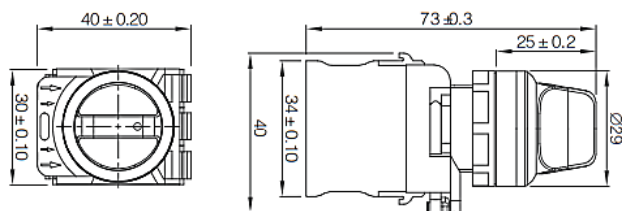


Pushbuttons with pilot light

Style	Working status	Contact Classification	Type No	Color code	Voltage
DOUBLE POSITION 	Momentary	1NO	SZB022-BDPM10●●	R : Red Y : Yellow G : Green S : Blue B : Black	6 : AC/DC6V 12 : AC/DC12V 24 : AC/DC24V 36 : AC/DC36V 48 : AC/DC48V 110 : AC/DC110V 220 : AC/DC220V
		1NC	SZB022-BDPM01●●		
		1NO-1NC	SZB022-BDPM11●●		
		2NO	SZB022-BDPM20●●		
		2NC	SZB022-BDPM02●●		
Overall demensions					
					

Selector Switches

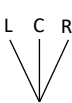
Overall demensions



Selector Switches with Plastic

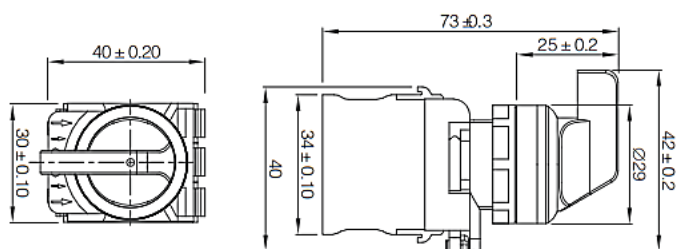
Style	Positions		Model	Action function	Contact
	Two-positions BLACK		SZB022-S2●●	- : Maintained 1 : Return form right 2 : Return form left	10 : 1NO 01 : NC 11 : 1NO-1NC 20 : NO 02 : NC
			SZB022-S2●●		
			SZB022-S2●●		
			SZB022-S2●●		
			SZB022-S2●●		
	Three-positions BLACK		SZB022-S3●●	- : Maintained 1 : Return form right 2 : Return form left 3 : Return of both	
			SZB022-S3●●		
			SZB022-S3●●		
			SZB022-S3●●		
			SZB022-S3●●		

Selector Switches with Light

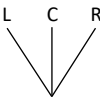
Style	Positions		Model	Action function	Contact	Color code	Voltage
	Two-positions		SZB022-SP2●●●●	- : Maintained 1 : Return form right 2 : Return form left	10 : 1NO 01 : NC 11 : 1NO-1NC 20 : NO 02 : NC	R : Red Y : Yellow G : Green S : Blue W : White	6 : AC/DC6V 12 : AC/DC12V 24 : AC/DC24V 36 : AC/DC36V 48 : AC/DC48V 110 : AC/DC110V 220 : AC/DC220V
			SZB022-SP2●●●●				
			SZB022-SP2●●●●				
			SZB022-SP2●●●●				
			SZB022-SP2●●●●				
	Three-positions		SZB022-SP3●●●●●	- : Maintained 1 : Return form right 2 : Return form left 3 : Return of both			
			SZB022-SP3●●●●●				
			SZB022-SP3●●●●●				
			SZB022-SP3●●●●●				
			SZB022-SP3●●●●●				

Key Selector Switches

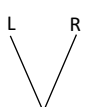
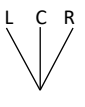
Overall demensions



Key Selector Switches with Plastic

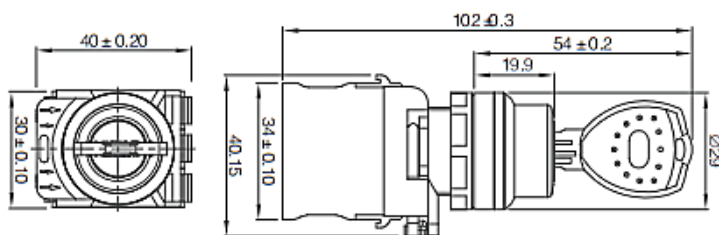
Style	Positions		Model	Action function	Contact
	Two-positions BLACK		SZB022-SLK2●●	- : Maintained 1 : Return form right 2 : Return form left	10 : 1NO
			SZB022-SLK2●●		01 : NC
			SZB022-SLK2●●		11 : 1NO-1NC
			SZB022-SLK2●●		20 : NO
			SZB022-SLK2●●		02 : NC
	Three-positions BLACK		SZB022-SLK3●●	- : Maintained 1 : Return form right 2 : Return form left 3 : Return of both	10 : 1NO
			SZB022-SLK3●●		01 : NC
			SZB022-SLK3●●		11 : 1NO-1NC
			SZB022-SLK3●●		20 : NO
			SZB022-SLK3●●		02 : NC

Key Selector Switches with Light

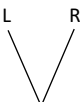
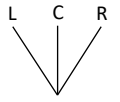
Style	Positions		Model	Action function	Contact	Color code	Voltage
	Two-positions		SZB022-SLPK2●●●●	- : Maintained 1 : Return form right 2 : Return form left	10 : 1NO 01 : NC 11 : 1NO-1NC 20 : NO 02 : NC	R : Red Y : Yellow G : Green S : Blue W : White	6 : AC/DC6V 12 : AC/DC12V 24 : AC/DC24V 36 : AC/DC36V 48 : AC/DC48V 110 : AC/DC110V 220 : AC/DC220V
			SZB022-SLPK2●●●●				
			SZB022-SLPK2●●●●				
			SZB022-SLPK2●●●●				
			SZB022-SLPK2●●●●				
	Three-positions		SZB022-SLPK3●●●●	- : Maintained 1 : Return form right 2 : Return form left 3 : Return of both			
			SZB022-SLPK3●●●●				
			SZB022-SLPK3●●●●				
			SZB022-SLPK3●●●●				
			SZB022-SLPK3●●●●				

Key Selector Switches

Overall demensions



Key Selector Switches with Plastic

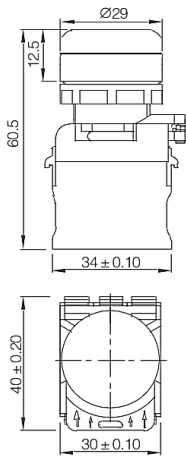
Style	Positions		Model	Contact
	Two-positions BLACK		SZB022-SK2●	10 : 1NO 01 : NC 11 : 1NO-1NC 20 : NO 02 : NC
			SZB022-SK2●	
			SZB022-SK2●	
			SZB022-SK2●	
			SZB022-SK2●	
	Three-positions BLACK		SZB022-SK3●	
			SZB022-SK3●	
			SZB022-SK3●	
			SZB022-SK3●	
			SZB022-SK3●	

Indicator Light

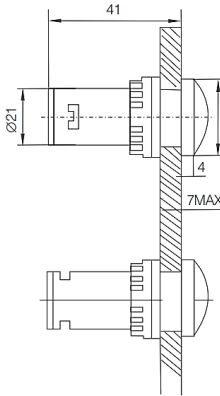
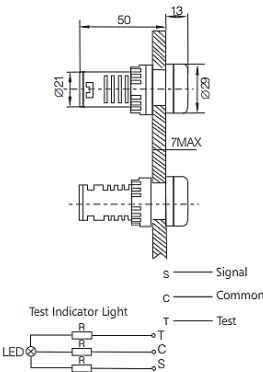
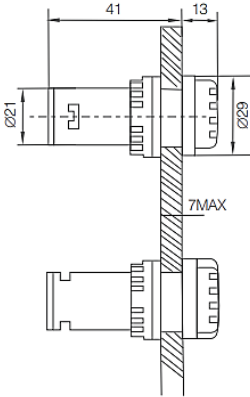
Main Technical Parameters

Industrial Frequency Withstand Voltage	2.5kV (AC RMS), 1min
Insulation Resistance	$\geq 2M\Omega$
Allowable Voltage Fluctuation	$\pm 10\%$
Continuous Operating Life	$\geq 30000h$
Brightness	$\geq 100cd/m^2$
Cti	CTI $\geq 600V$
Degree Of Protection	IP40, 65, IP67 (customize)
Applying Frequency	AC50 ~ 60Hz
Ambient Temperature	-25°C ~ +55°C
Relative Humidity	$\leq 98\%$

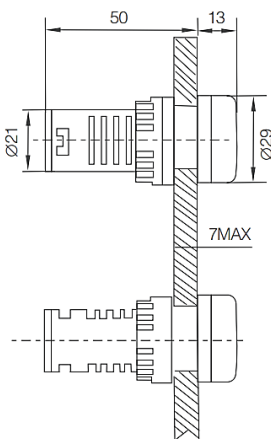
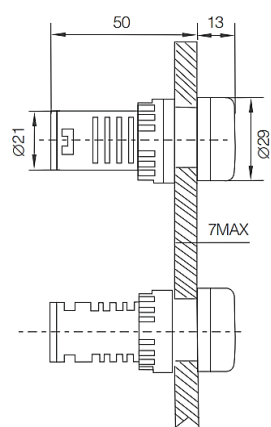
Pilot Lights

Style	Type No	Color code	Voltage	Picture	Overall demensions
Flush Full Voltage	SZB022-P●●	R : Red Y : Yellow G : Green S : Blue W : White	6 : AC/DC6V		
	SZB022-P●●		12 : AC/DC12V		
	SZB022-P●●		24 : AC/DC24V		
	SZB022-P●●		36 : AC/DC36V		
	SZB022-P●●		48 : AC/DC48V		
	SZB022-P●●		110 : AC/DC110V		
	SZB022-P●●		220 : AC/DC220V		

Pilot Lights – Unibody

Style	Type No	Color code	Voltage	Picture	Overall dimensions
Combined Indicator Light	SZB022-UP1●●	R : Red Y : Yellow G : Green S : Blue W : White	6 : AC/DC6V		
	SZB022-UP1●●		12 : AC/DC12V		
	SZB022-UP1●●		24 : AC/DC24V		
	SZB022-UP1●●		36 : AC/DC36V		
	SZB022-UP1●●		48 : AC/DC48V		
	SZB022-UP1●●		110 : AC/DC110V		
	SZB022-UP1●●		220 : AC/DC220V		
Test Indicator Light	SZB022-UP2●●	R : Red Y : Yellow G : Green S : Blue W : White	6 : AC/DC6V		 s — Signal c — Common T — Test 
	SZB022-UP2●●		12 : AC/DC12V		
	SZB022-UP2●●		24 : AC/DC24V		
	SZB022-UP2●●		36 : AC/DC36V		
	SZB022-UP2●●		48 : AC/DC48V		
	SZB022-UP2●●		110 : AC/DC110V		
	SZB022-UP2●●		220 : AC/DC220V		
Extended Indicator Light	SZB022-UP3●●	R : Red Y : Yellow G : Green S : Blue W : White	6 : AC/DC6V		
	SZB022-UP3●●		12 : AC/DC12V		
	SZB022-UP3●●		24 : AC/DC24V		
	SZB022-UP3●●		36 : AC/DC36V		
	SZB022-UP3●●		48 : AC/DC48V		
	SZB022-UP3●●		110 : AC/DC110V		
	SZB022-UP3●●		220 : AC/DC220V		

Buzzer – Unibody

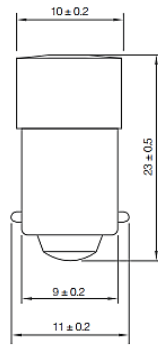
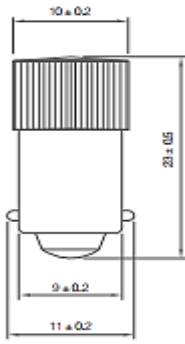
Style	Type No	Color code	Voltage	Picture	Overall demensions
Non-Pilot	SZB022-BZ	R : Red K : Black	6 : AC/DC6V		
			12 : AC/DC12V		
			24 : AC/DC24V		
			36 : AC/DC36V		
			48 : AC/DC48V		
			110 : AC/DC110V		
			220 : AC/DC220V		
Flash Buzzer	SZB022-BZF	R : Red Y: Yellow S: Blue	6 : AC/DC6V		
			12 : AC/DC12V		
			24 : AC/DC24V		
			36 : AC/DC36V		
			48 : AC/DC48V		
			110 : AC/DC110V		
			220 : AC/DC220V		

**LED Series Indicator Bulb****Introduction**

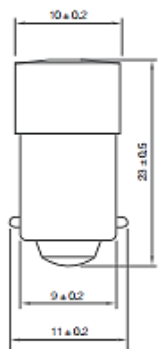
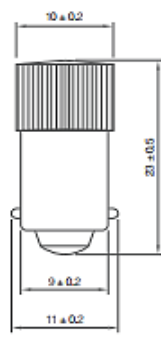
Suitable for AC 220V, frequency 50-60Hz, 220V and below 220V DC voltage specifications of telecommunications electrical equipment for a variety of electrical circuit indicator signal, warning signal, accident signal and other instructions signal; in line with GB14048.5-2003 standard. Advantages: light bright color, high reliability and appearance have multiple style, light form of LED light-emitting diode having a long life and other characteristics.

Main technical parameters and operating environment	
Performance Index	Operating frequency 2000V/min, allowable voltage $\pm 10\%$
Continuous Operating Life	30000h
Ambient Temperature	$-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$
Altitude	$\leq 2000\text{m}$
Relative Humidity	$\leq 85\%$
Degree Of Protection	IP55
Insulation Class: III	III Class
Pollution Class	3 Class

Common

Picture	Name	Electric light source	Color	Overall dimensions
	BA9S-X1●●	6 : AC/DC6V	R : Red Y : Yellow G : Green S : Blue W : White	
		12 : AC/DC12V		
		24 : AC/DC24V		
		36 : AC/DC36V		
		48 : AC/DC48V		
		110 : AC/DC110V		
		220 : AC/DC220V		
	BA9S-X2●●	6 : AC/DC6V	R : Red Y : Yellow G : Green S : Blue W : White	
		12 : AC/DC12V		
		24 : AC/DC24V		
		36 : AC/DC36V		
		48 : AC/DC48V		
		110 : AC/DC110V		
		220 : AC/DC220V		

Flash

Picture	Name	Electric light source	Color	Overall dimensions
	BA9S-XF1●●	6 : AC/DC6V	R : Red Y : Yellow G : Green S : Blue W : White	
		12 : AC/DC12V		
		24 : AC/DC24V		
		36 : AC/DC36V		
		48 : AC/DC48V		
		110 : AC/DC110V		
		220 : AC/DC220V		
	BA9S-XF2●●	6 : AC/DC6V	R : Red Y : Yellow G : Green S : Blue W : White	
		12 : AC/DC12V		
		24 : AC/DC24V		
		36 : AC/DC36V		
		48 : AC/DC48V		
		110 : AC/DC110V		
		220 : AC/DC220V		



SHIZUMA