

Pushbutton Switch & Indicator Series

www.soflight.com



soflight

SL-CPB02 Series
Pushbutton Switch And Indicator Light

1.Function

SL-CPB02 series button is suitable for AC 50Hz and 60Hz, rated operation voltage up to 380V and DC 250V in the industrial control circuits, used as electromagnetic starter, contactors, relays and others' control of electrical lines.

2.Specifications

2.1.Technical Parameters

Rated insulating voltage U_i (V)	415				
Conventional free air Thermal current I_{th} (A)	10				
Rated operational voltage U_e (V)	380	250	240	125	
Rated operational current I_e (A)	AC-15	2.5	-	3	-
	DC-13	-	0.27	-	0.55

2.2.Lamp Beads Specifications

Lamp type	LED light-emitting diodes		
Rated Voltage	AC/DC 6V	AC/DC 12V	AC/DC 24V
	AC/DC 110V	AC/DC 220V	AC/DC 380V
Lamp beads life	≥5000h		
Light Color			
Voltage limits	0.85 U_e ≤ U ≤ 1.1 U_e		

2.3.Part Material SL-CPB02

Type	head part	mid-rise	contact	switch case
SL-CPB02 metal series	Zinc Alloy	Zinc Alloy	Silver alloy	PBT

2.4.Features

Environment	
Standard	GB 14048.5-2008、 IEC 60947-5-1
Ambient temperature	-25 C - +55 C
Vibration resistance	<500HZ,amplitude about1.0mm
Shock resistance	≥10g
Protection grade	IP40 can be customized IP65

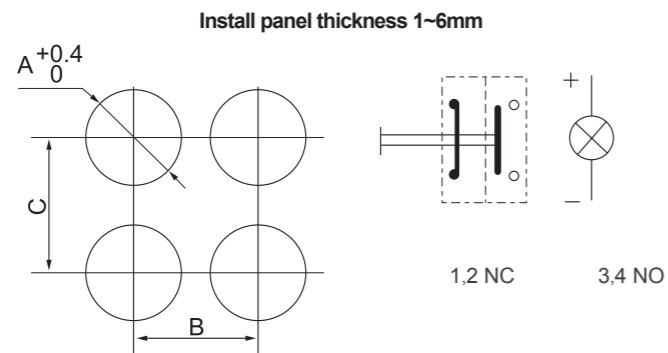
2.5.Contact Features

Contact Action	Slow-action (normally closed or normally open); normally closed contact directly off
Contact resistance	≤50mΩ
Mechanical life	Automatic reset button Automatic reset button more than 1 million times, and the remaining 100,000 times or more
Electrical life	AC 10,000 times or more
Short-circuit protection	RT16-10A
Wiring	Screw east pressure into the terminal,connection capacity:minimum 1x0.5mm2, maximum, with or without terminal piece: 2x1.5mm2 or 1x2.5mm2

2.6.Control Stations

Protection grade	IP40,can customized to IP65
Cable Inlet	Knock down hole, suitable for PG13.5 Cable sets

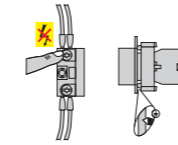
2.7.The Installation Hole Size



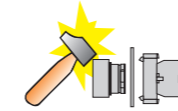
Type	A	B	C
Ordinary type		>50	>35
Rotary knob	Φ22.3	>50	>35
Mushroom type		>50	>42
Big mushroom type		>70	>70

Note:
1,Unit: mm
2,B and C are refers to the minimal size

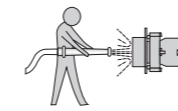
3.Features



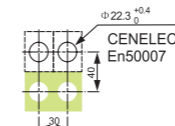
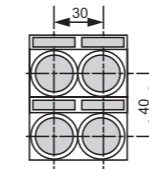
- The finger of comfort press to press position and switch to turn operation
- The function identify
- The auto connect ground
- Defend the finger get an electric shock a design



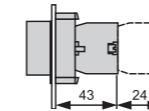
- Plate chrome metals a head and install a base
- The quakeproof bolt carry son
- Hard,credibility,as long as 3,000,000 time machine life span
- As long as 50,000 hours of the service life of the LED indicator



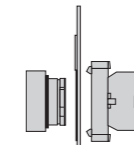
- Protection degree IP55:
Install fast simple,end from you decision



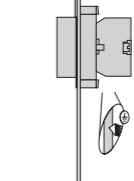
Note: The LA167-B2E plastics series install Front-panel thickness 1-5mm



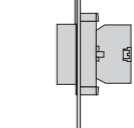
- The front-panel surface is minimum
- Install depth the most shallow



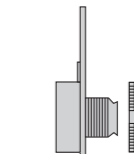
- SL-CPB02 Whole model number**
- Button head-touch some base a construction
 - The button head hold automatic is in open the bore
 - The button head revolve certainangle,card go into touch some base



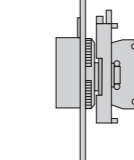
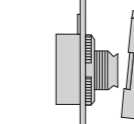
- 2 metals bolt fix quake proof
- The auto connect ground
- The open type connect line to carry and have never need to prepare loose bolt



- Electricity function
- Most can pack 1-6 pay to touch some
- Mold plece

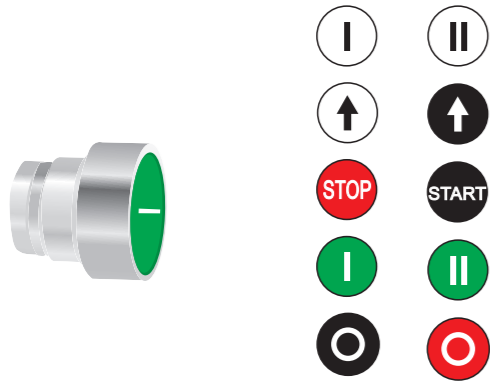


- Button head of install
- The empress carry a Luo turn fix

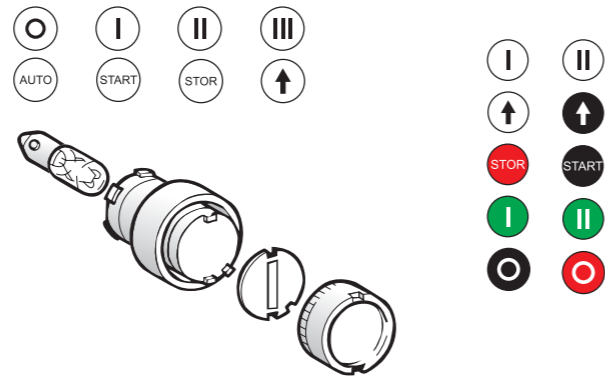


- Touch some basecassette install
- Do not need to any tool
- Fast and firm

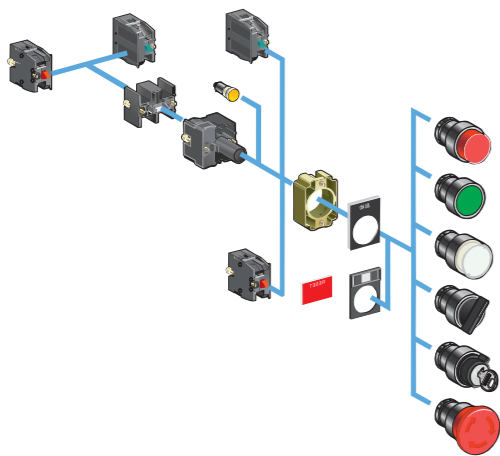
Well-found marking mark card-tailor for you
button of take the function sign



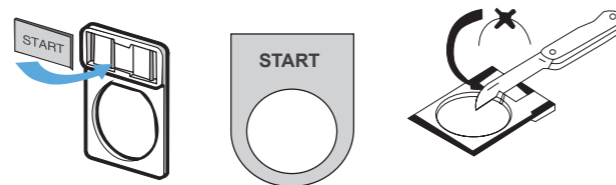
The transparent wreath form engrave one degree plank
Well-found marking mark card-tailor ofr you button of take
the function sign



Constiute with enclosure



Label


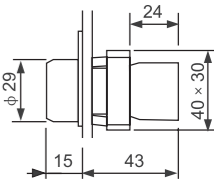


Dissimilarity choice
Size
Shape
Clolor
Words
Can arbitrarily make to order according to the demand

4.Product list

Button Switch

Type and Elucidation	Color	Contact type		Reference	Weight (kg)	Size (mm)
		NO	NC			
 Push-button	Black	1	-	SL-CPB02-BA21	0.056	
	Green	1	-	SL-CPB02-BA31	0.056	
	Yellow	1	-	SL-CPB02-BA51	0.056	
	Blue	1	-	SL-CPB02-BA61	0.056	
	Red	-	1	SL-CPB02-BA42	0.058	

 Button with waterproof button	Black	1	-	SL-CPB02-BP21	0.0572	
	Green	1	-	SL-CPB02-BP31	0.0572	
	Yellow	1	-	SL-CPB02-BP51	0.0572	
	Blue	1	-	SL-CPB02-BP61	0.0572	
	Red	-	1	SL-CPB02-BP42	0.0592	

Mushroom Head "Emergency Stop" Push button

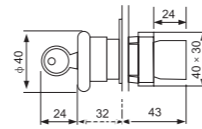
Type and Elucidation	Color	Contact type		Reference	
		NO	NC		
 ø40mm Mushroom head button ø40mm	Black	1	-	SL-CPB02-BC21	0.0774
	Green	1	-	SL-CPB02-BC31	0.0774
	Red	-	1	SL-CPB02-BC42	0.0774

 Emergency stop push button	Red ø30	-	1	SL-CPB02-BS442	0.0767	
	Red ø40	-	1	SL-CPB02-BS542	0.0935	


SL-CPB02 Series
Pushbutton Switch And Indicator Light



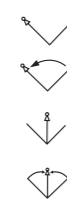
SL-CPB02-BS The key rest nasty stop ø40 - 1 SL-CPB02-BS142 0.1097



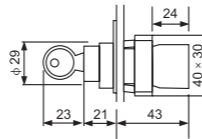
Choice Switch

Type and Elucidation	Position	Contact type		Reference	Weight (kg)	Size (mm)
		NO	NC			
SL-CPB02-BD 		1	-	SL-CPB02-BD21	0.0669	
		1	-	SL-CPB02-BD41	0.0669	
3 Position select switch		2	-	SL-CPB02-BD33	0.0826	


SL-CPB02-BG 2 Position select switch with key



1 - SL-CPB02-BG21 0.0925
1 - SL-CPB02-BG41 0.0925
2 - SL-CPB02-BG33 0.109
2 - SL-CPB02-BG53 0.109



Double Key Bbutton Switch

Type and Elucidation	Color	Contact type		Reference	Weight (kg)	Size (mm)
		NO	NC			
SL-CPB02-BL 		1	1	SL-CPB02-BL8325	0.0721	

SL-CPB02 Series
Pushbutton Switch And Indicator Light

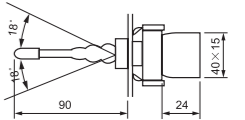


The word lords make switch

SL-CPB02-PA
Mounting Holeø22



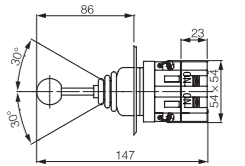
Two to lock - 2 SL-CPB02-PA12 0.0467
Two to spring return 2 - SL-CPB02-PA22 0.0467
four to spring return 2 2 SL-CPB02-PA24 0.0525



SL-CPB02-C402
Mounting Holeø30



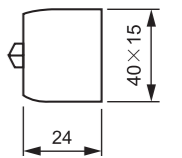
Four to spring return 4 - SL-CPB02-C402 0.193
Two to spring return 2 - SL-CPB02-C201 0.19



SL-CPB02-BE



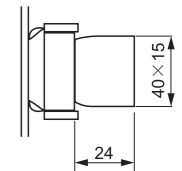
Assist / alternative contacts 1 - SL-CPB02-BE101
Spiral pressed into electronic - 1 SL-CPB02-BE102
Button contact




SL-CPB02-BZ



With 1/2 contact module base for buttons and two selection switch and key switch - 1 SL-CPB02-BZ101
The middle plate and contact - 1 SL-CPB02-BZ102



Indicator light push button

Type and Elucidation	Color	Reference	Weight (kg)	Size (mm)	
SL-CPB02-BV-24V 	Direct type		White	SL-CPB02-BV61-24 0.0616	
	Green		SL-CPB02-BV63-24 0.0616		
	Red		SL-CPB02-BV64-24 0.0616		
	Yellow		SL-CPB02-BV65-24 0.0616		
	Blue		SL-CPB02-BV66-24 0.0616		
SL-CPB02-BV-230V	Direct type		White	SL-CPB02-BV61-230 0.0616	
	Green		SL-CPB02-BV63-230 0.0616		
	Red		SL-CPB02-BV64-230 0.0616		
	Yellow		SL-CPB02-BV65-230 0.0616		
	Blue		SL-CPB02-BV66-230 0.0616		

1.Function

SL-CPB02 A4 A5series button is suitable for AC 50Hz and 60Hz, rated operation voltage up to 380V and DC 250V in the industrial control circuits, used as electromagnetic starter, contactors, relays and others' control of electrical lines.


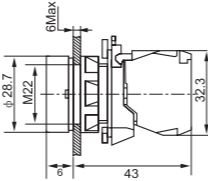
Part Material SL-CPB01

Type	head part	mid-rise	contact	switch case
SL-CPB01 series	nylon	nylon	Silver alloy	nylon


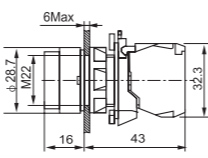
Remarks: Other technical parameters and characteristics refer to SL-CPB02

2.Product list

Spring coil reset push button

Type and Elucidation	Color	Contact type		Reference	Weight (kg)	Size (mm)
		NO	NC			
 SL-CPB01-AA	White	1	-	SL-CPB01-AA11	0.025	
	Black	1	-	SL-CPB01-AA21	0.025	
	Green	1	-	SL-CPB01-AA31	0.025	
	Yellow	1	-	SL-CPB01-AA51	0.025	
	Blue	1	-	SL-CPB01-AA61	0.025	
	Red	-	1	SL-CPB01-AA42	0.025	


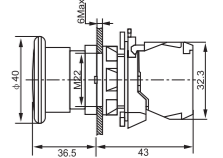

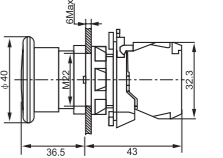

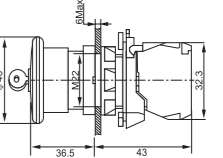
Choice switch

Type and Elucidation	Position	Contact type		Reference	Weight (kg)	Size (mm)
		NO	NC			
 SL-CPB01-AD	2 Position maintained	1	-	SL-CPB01-AD21	0.031	
	2 Position spring	1	-	SL-CPB01-AD41	0.031	
	3 Position maintained	2	-	SL-CPB01-AD33	0.042	
	3 Position spring	2	-	SL-CPB01-AD53	0.042	

Key choice switch

 SL-CPB01-AG	2 Position switch with key	1	-	SL-CPB01-AG21	0.055	
	3 Position switch with key	2	-	SL-CPB01-AG33	0.066	





Urgent stop a mushroom button

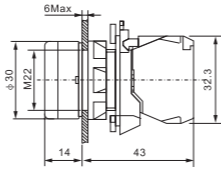
Type and Elucidation	Color	Contact type		Reference	Weight (kg)	Size (mm)	
		NO	NC				
 SL-CPB01-AC	Black	1	-	SL-CPB01-AC21	0.05		
	Green	1	-	SL-CPB01-AC31	0.05		
	Red	-	1	SL-CPB01-AC42	0.05		
 SL-CPB01-AS	Emergenly stop switch	040	-	1	SL-CPB01-AS542	0.045	
		040	1	1	SL-CPB01-AS545	0.056	
 SL-CPB01-AS14	(Ronis n° 455) Emergenly stop switch with key	040			SL-CPB01-AS142	0.065	

Double key button switch













 SL-CPB01-AL	Double button switch	NO ¹³ - ₁₄	IP40		1	1	SL-CPB01-AL8325	0.038	
--	----------------------	-------------------------------------	------	---	---	---	-----------------	-------	---

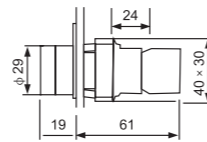
The crew cut take a light button

Type and Elucidation	Position	Color	Contact type		Reference	Weight (kg)
			No	Nc		
SL-CPB01-AW-230V 		White	1	-	SL-CPB01-AW3161-230	0.037
		Green	1	-	SL-CPB01-AW3361-230	0.037
		Red	-	1	SL-CPB01-AW3462-230	0.037
		Yellow	1	-	SL-CPB01-AW3561-230	0.037
		Blue	1	-	SL-CPB01-AW3661-230	0.037
SL-CPB01-AW-24V 		White	1	-	SL-CPB01-AW3161-24	0.037
		Green	1	-	SL-CPB01-AW3361-24	0.037
		Red	-	1	SL-CPB01-AW3462-24	0.037
		Yellow	1	-	SL-CPB01-AW3561-24	0.037
		Blue	1	-	SL-CPB01-AW3661-24	0.037



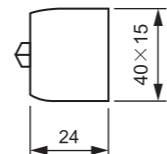
Take a light choice a switch






SL-CPB01-BK-24V 	2 Position select switch with key		1	1	SL-CPB02-BK2365-24	0.0907
			1	1	SL-CPB02-BK2465-24	0.0907
			1	1	SL-CPB02-BK2565-24	0.0907
			1	1	SL-CPB02-BK2665-24	0.0907
			1	1	SL-CPB02-BK2765-24	0.0907
SL-CPB01-BK-230V 	2 Position select switch with key		1	1	SL-CPB02-BK3365-230	0.0907
			1	1	SL-CPB02-BK3465-230	0.0907
			1	1	SL-CPB02-BK3565-230	0.0907
			1	1	SL-CPB02-BK3665-230	0.0907
			1	1	SL-CPB02-BK3765-230	0.0907



Base for SL-CPB01

SL-CPB01-ZBE 	Assist / alternative contacts	1	-	SL-CPB01-ZBE101
	Spiral pressed into electronic Button contact	-	1	SL-CPB01-ZBE102



Type	Configuration	Mark
	SL-CPB01-CXB101H29	Green flat button, 1NO
	SL-CPB01-CXB116	Red flat button, 1NC
	SL-CPB01-CXB111H29	Red flat button, 1NC
	SL-CPB01-CXJ174	Red Ø40Mushroom head Self-locking, Rotational reset, 1NC
	SL-CPB01-CXJ178	Red Ø40Mushroom head latching ø40, 1NO+NC
	SL-CPB01-CXB132H29	Black selection button, 1NO
	SL-CPB01-CXB211H29	Green flat button, 1NO; Red flat button, 1NC
	SL-CPB01-CXB142H29	2 position latching with key
	SL-CPB01-CXB361H29	Green flat button, 1NO; Red flat button, 1NC; Green flat button, 1NO



1.Application

AD22 series lights LED light-emitting chips are used as the light source, long life, low power consumption, small size, light weight, is the XD type all types of incandescent and neon signal light replacement products, using high-strength polycarbonate lampshade, has a good impact performance, built rivet-type wiring, more secure and convenient. This series of signal lights are suitable for electricity, telecommunications, machine tools, shipbuilding, textile, printing, mining machinery and other equipment for the signal indication, notice the signal, accident signal and other instructions with the signal.

Note: Performance Characteristics

Continuous working Life: $\geq 3,0000$ hours

instantaneous voltage fluctuation allow $\pm 20\%$ (110V above)

Power frequency withstand voltage: 2.5KV(AC effective value), 1min

Use frequency (AC): 50-60HZ

Rated working current: ≤ 20 mA

Light height: ≥ 100 cd/m²

Comparative tracking index CT₁ ≥ 100 , inflaming retarding

Insulation resistance: $U_i \leq 60$ v 为 $5M\Omega$, $60 \leq U_i \leq 660$ V $50M\Omega$

Light colors: red, green, yellow, white, blue

2.Mounting Dimension

	AC/DC type signal	AC type signal light	AC/DC bicolor light	AC type bicolor light
rdinary type				
Anti-interference type				

NOTE: 1. AC/DC signal is resistance step-down type, AC signal of resistance capacity type.

2. When voltage 110 v and above, AC/DC type lamp shell temperature rise is higher than AC signal lamp.

3.Precautions For Use

1, AC type signal using frequency 50-60HZ, used in other frequency bands will damage the signal lights.

2, Anti-interference signal light general threshold in 40V or less, if a high threshold, please explain further. Recommended threshold is not too high, such as the interference voltage is too high, check the wiring conditions.

3, AC double color lamp do not allow the wiring error, otherwise it will damage the signal lamp.

4.Product list

	Type and Elucidation	Color	Reference	Weight(kg)	Size
	The LED electronics economy energy indicator install size $\phi 22$ (The LED has already prepared to pack into integral whole and can't dismantle a cent)	Green	SL-CPB01-22DS-GR-230	0.0212	
		Red	SL-CPB01-22DS-RD-230	0.0212	
		Yellow	SL-CPB01-22DS-YE-230	0.0212	
		Blue	SL-CPB01-22DS-BL-230	0.0212	
		White	SL-CPB01-22DS-WH-230	0.0212	
	The LED electronics economy energy indicator install size $\phi 22$ (The LED has already prepared to pack into integral whole and can't dismantle a cent)	Green	SL-CPB01-22DS-GR-24	0.0212	
		Red	SL-CPB01-22DS-RD-24	0.0212	
		Yellow	SL-CPB01-22DS-YE-24	0.0212	
		Blue	SL-CPB01-22DS-BL-24	0.0212	
		White	SL-CPB01-22DS-WH-24	0.0212	
	Buzzer $\phi 22$	NO flash flash	Black Red	SL-CPB01-22FM-230 SL-CPB01-22SM-230	
	Buzzer $\phi 22$	NO flash flash	Black Red	SL-CPB01-22FM-024 SL-CPB01-22SM-024	
	Isolating switch position indicator				
	X0X1 power on X0X2 power on	red light red light	Green Red	SL-CPB01-127-RG-024 SL-CPB01-127-RG-230	