



## LAS2(3,4) Pushbutton Switch

### Characteristic

LAS2/3/4 series products have compact structure, three head shapes of round, square and rectangular, are the best choice of user for small panel.

**Specs** Including pushbutton, signal light; mounting hole diameter is  $\Phi 12\text{mm}$ (LAS2),  $\Phi 10\text{mm}$ (LAS3),  $\Phi 8\text{mm}$ (LAS4).

**Performance** Stable function, low contact resistance, strong insulation resistance and anti-vibration etc.

**Structure** Use fast-break structure, each switch element contains 1NO1NC. LAS2 could use 2 switch elements at most; LAS3 and LAS4 could use 1 switch element at most.

**Protective Degree** IP40



### Switch Ratings

Rated Insulation Voltage Ui			250V			
Thermal Current Ith			3A Temperature rise can't over the Max. rating current			
Rated Voltage			12V	24V	110V	220V
Rated Current	AC 50/60Hz	Resistive Load	—	—	1A	0.5A
		Inductive Load	—	—	0.7A	0.5A
	DC	Resistive Load	1A	1A	0.2A	—
		Inductive Load	0.7A	0.7A	0.1A	—
Contact Material			Silver Alloy			

Minimum load: 3VAC/DC 5mA (use range depend on operation environment and load type)

### Lamp Ratings

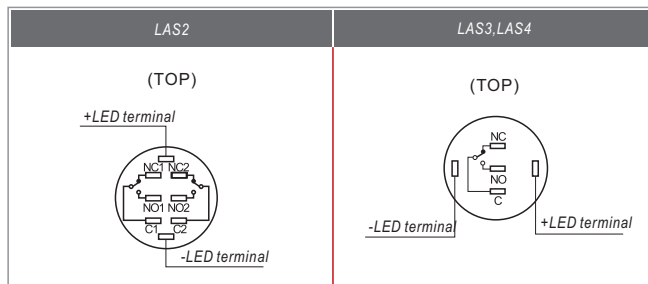
Lamp Type	AC LED			External Resistor Diagram
Rated Voltage	AC/DC6V	AC/DC12V	AC/DC24V	
		AC/DC110V		AC/DC220V
LED Color	R	G	Y B W	
Life	About 40000 hours			

Note: need external resistor for the pushbutton need external resistor for the pushbutton over 60V (refer to the diagram); others use internal resistor. DC LED could be customized; red & green dual-color LED could be customized.

### Specification

Operating Temperature	-25°C~+55°C (no freezing) Keep good ventilation round the switch.	
Operating Humidity	45~85%RH (no condensation)	
Contact Resistance	≤50mΩ	
Insulation Resistance	>100MΩ (500VDC)	
Dielectric Strength	Between contact and LED terminals	1500V, AC 50Hz, 1 min
	Between terminals of the same pole	1500V, AC 50Hz, 1 min
	Between terminals of different poles	2000V, AC 50Hz, 1 min
Operating Travel	About 3mm	
Solder Heat Resistance	320°C 3s	
Mechanical Life	Momentary: 200,000 times; Latching: 100,000 times	
Electrical Life	≥50,000 cycles	

### Circuit


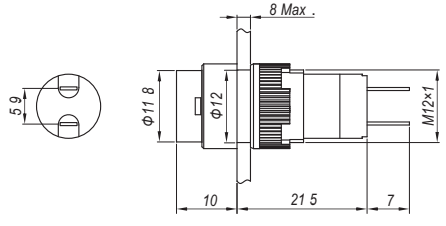
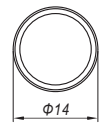

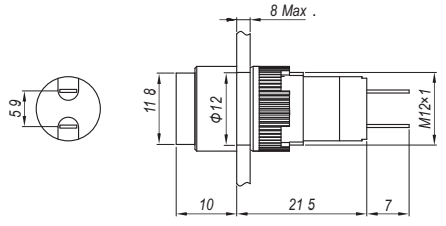
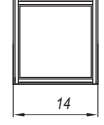

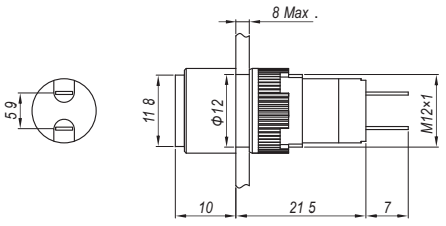
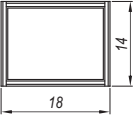

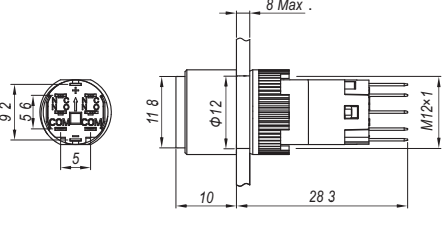
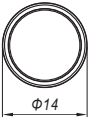

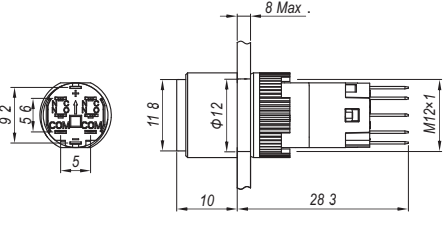


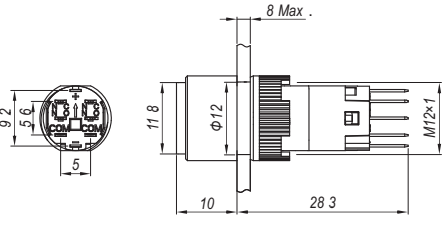
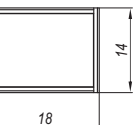


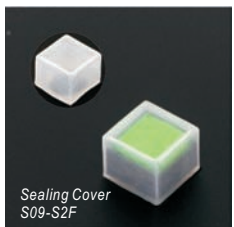
### Installation Dimension

Type	LAS2			LAS3			LAS4		
	A	B	C	A	B	C	A	B	C
Round	12mm	14mm	≥14mm	10mm	≥12mm	≥12mm	8mm	10mm	10mm
Sqaure	12mm	14mm	14mm	10mm	12mm	12mm	8mm	10mm	10mm
Rectangular	12mm	≥14mm	18mm	10mm	12mm	≥16mm	8mm	10mm	14mm




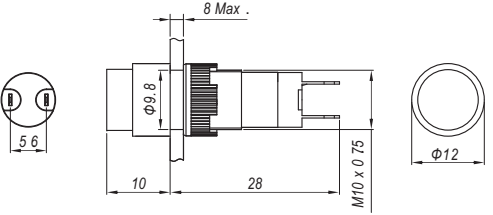

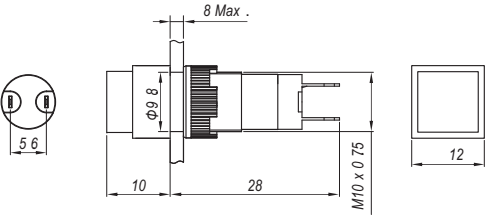

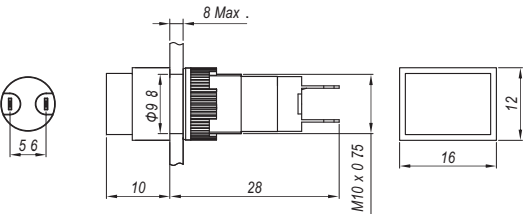

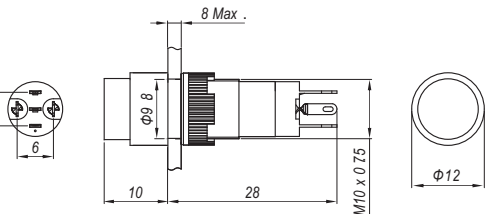

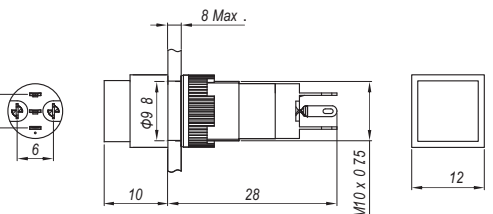

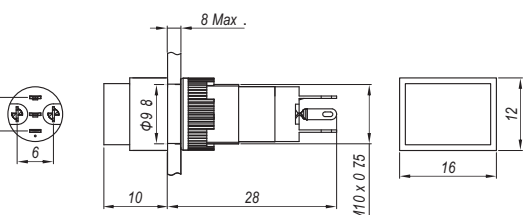
# LAS2 Pushbutton Switch

Φ12mm Product Outline	Specification	Dimension	
 <p>Signal Light LAS2Y-D/△/▲</p>	<p>LED Color△ <b>R G Y B W</b></p> <p>LED Voltage▲ 6V / 12V / 24V / 110V / 220V</p> <p>Protection Degree IP40</p>		
 <p>Signal Light LAS2F-D/△/▲</p>	<p>LED Color△ <b>R G Y B W</b></p> <p>LED Voltage▲ 6V / 12V / 24V / 110V / 220V</p> <p>Protection Degree IP40</p>		
 <p>Signal Light LAS2J-D/△/▲</p>	<p>LED Color△ <b>R G Y B W</b></p> <p>LED Voltage▲ 6V / 12V / 24V / 110V / 220V</p> <p>Protection Degree IP40</p>		
 <p>Pushbutton(can be illuminated) LAS2Y-□ ■/△/▲</p>	<p>Contact□ 11: 1NO1NC / 22: 2NO2NC</p> <p>Operation Type No letter means momentary / Z: Latching</p> <p>Color△ <b>R G Y B W N</b></p> <p>LED Voltage▲ 6V / 12V / 24V / 220V</p> <p>Protection Degree IP40</p> <p>Accessory Solder Terminal S20 / PCB Terminal S20-A / Sealing Cover S09-S2Y</p>		
 <p>Pushbutton(can be illuminated) LAS2F-□ ■/△/▲</p>	<p>Contact□ 11: 1NO1NC / 22: 2NO2NC</p> <p>Operation Type No letter means momentary / Z: Latching</p> <p>Color△ <b>R G Y B W N</b></p> <p>LED Voltage▲ 6V / 12V / 24V / 220V</p> <p>Protection Degree IP40</p> <p>Accessory Solder Terminal S20 / PCB Terminal S20-A / Sealing Cover S09-S2F</p>		
 <p>Pushbutton(can be illuminated) LAS2J-□ ■/△/▲</p>	<p>Contact□ 11: 1NO1NC / 22: 2NO2NC</p> <p>Operation Type No letter means momentary / Z: Latching</p> <p>Color△ <b>R G Y B W N</b></p> <p>LED Voltage▲ 6V / 12V / 24V / 220V</p> <p>Protection Degree IP40</p> <p>Accessory Solder Terminal S20 / PCB Terminal S20-A / Sealing Cover S09-S2J</p>		




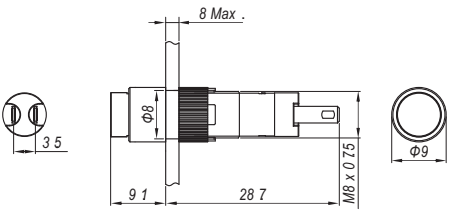

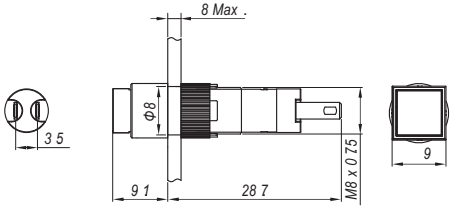

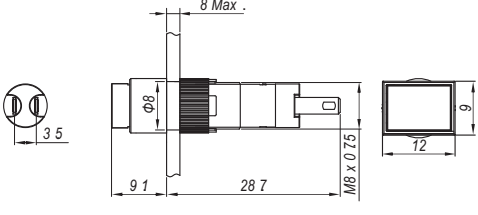

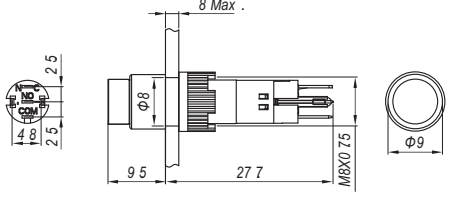

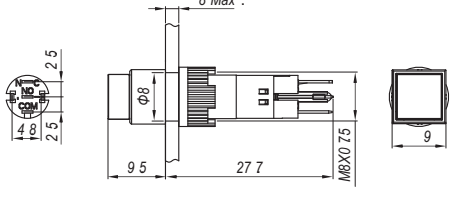



# LAS3 Pushbutton Switch

Φ10mm Product Cutline	Specification	Dimension
 <p>Signal Light LAS3Y-D/△/▲</p>	<p>LED Color △ <b>R G Y B W</b></p> <p>LED Voltage ▲ 6V / 12V / 24V / 110V / 220V</p> <p>Protection Degree IP40</p>	
 <p>Signal Light LAS3F-D/△/▲</p>	<p>LED Color △ <b>R G Y B W</b></p> <p>LED Voltage ▲ 6V / 12V / 24V / 110V / 220V</p> <p>Protection Degree IP40</p>	
 <p>Signal Light LAS3J-D/△/▲</p>	<p>LED Color △ <b>R G Y B W</b></p> <p>LED Voltage ▲ 6V / 12V / 24V / 110V / 220V</p> <p>Protection Degree IP40</p>	
 <p>Pushbutton (can be illuminated) LAS3Y-11/■/△/▲</p>	<p>Contact 11: 1NO1NC</p> <p>Operation Type No letter means momentary / Z: Latching</p> <p>Color △ <b>R G Y B W N</b></p> <p>LED Voltage ▲ 6V / 12V / 24V / 220V</p> <p>Protection Degree IP40</p>	
 <p>Pushbutton (can be illuminated) LAS3F-11/■/△/▲</p>	<p>Contact 11: 1NO1NC</p> <p>Operation Type No letter means momentary / Z: Latching</p> <p>Color △ <b>R G Y B W N</b></p> <p>LED Voltage ▲ 6V / 12V / 24V / 220V</p> <p>Protection Degree IP40</p>	
 <p>Pushbutton (can be illuminated) LAS3J-11/■/△/▲</p>	<p>Contact 11: 1NO1NC</p> <p>Operation Type No letter means momentary / Z: Latching</p> <p>Color △ <b>R G Y B W N</b></p> <p>LED Voltage ▲ 6V / 12V / 24V / 220V</p> <p>Protection Degree IP40</p>	



# LAS4 Pushbutton Switch

Φ8mm Product Cutline	Specification	Dimension
 <p>Signal Light LAS4Y-D/△/▲</p>	<p>LED Color△ <b>R G Y B W</b></p> <p>LED Voltage▲ 6V / 12V / 24V / 110V / 220V</p> <p>Protection Degree IP40</p>	
 <p>Signal Light LAS4F-D/△/▲</p>	<p>LED Color△ <b>R G Y B W</b></p> <p>LED Voltage▲ 6V / 12V / 24V / 110V / 220V</p> <p>Protection Degree IP40</p>	
 <p>Signal Light LAS4J-D/△/▲</p>	<p>LED Color△ <b>R G Y B W</b></p> <p>LED Voltage▲ 6V / 12V / 24V / 110V / 220V</p> <p>Protection Degree IP40</p>	
 <p>Pushbutton(can be illuminated) LAS4Y-11■/△/▲</p>	<p>Contact 11: 1NO1NC</p> <p>Operation Type No letter means momentary / Z: Latching</p> <p>Color△ <b>R G Y B W N</b></p> <p>LED Voltage▲ 6V / 12V / 24V / 220V</p> <p>Protection Degree IP40</p>	
 <p>Pushbutton(can be illuminated) LAS4F-11■/△/▲</p>	<p>Contact 11: 1NO1NC</p> <p>Operation Type No letter means momentary / Z: Latching</p> <p>Color△ <b>R G Y B W N</b></p> <p>LED Voltage▲ 6V / 12V / 24V / 220V</p> <p>Protection Degree IP40</p>	
 <p>Pushbutton(can be illuminated) LAS4J-11■/△/▲</p>	<p>Contact 11: 1NO1NC</p> <p>Operation Type No letter means momentary / Z: Latching</p> <p>Color△ <b>R G Y B W N</b></p> <p>LED Voltage▲ 6V / 12V / 24V / 220V</p> <p>Protection Degree IP40</p>	