

# LAS1-B Pushbutton Switch

#### Characteristic

LAS1-B series products have complete range, some products have three types of head shape: round, square and rectangular (see details from content page) and each pushbutton could use 1~3 pcs elements (except for pin terminal version), could meet customer's different requirements.

**Specs** Including pushbutton, signal light, emergency-stop switch, selector switch, key-lock switch, mushroom switch; mounting hole diameter is  $\Phi$ 16mm.

**Performance** Stable function, low contact resistance, strong insulation resistance and anti-vibration etc. Meet the standards of IEC60947-5-1, GB/T14048.5 etc.

**Structure** The switch element is "double-break fast-motion, self-cleaning". Each element contains 1NO+1NC contacts, each pushbutton could use 3 pcs elements at most.

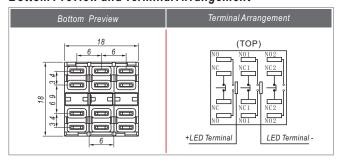
Protective Degree IP40



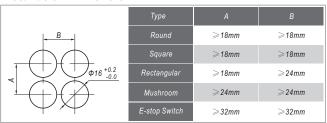
Rated Insulation Voltage Ui			250V			
Thermal Current Ith			5A Temperature rise can't over the Max. rating current			
	Rated Voltage			24V	110V	220V
Rated Current	AC 50/60Hz	Resistive Load	_	_	5A	3A
		Inductive Load	_	_	3A	2A
	DC	Resistive Load	5A	5A	1A	0.5A
		Inductive Load	2A	2A	0.2A	0.1A
Contact Material			Silver Alloy			

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

#### **Bottom Preview and Terminal Arrangement**



### Installation Dimension





#### Specification

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	Operating Temperature	-25°C~+55°C (no freezing)			
	Operating reinperature	Keep good ventilation round the switch.			
	Operating Humidity	45~85%RH(no condensation)			
	Contact Resistance	≤50mΩ			
	Insulation Resistance	>100M\Omega (500VDC)			
Rated insulation Voltage		250VAC/DC			
	Between contact and LED terminals	2000V, AC 50Hz, 1 min			
Dielectric Strength	Between terminals of the same pole	1500V£AC 50Hz, 1 min			
	Between terminals of different poles	2000V£AC 50Hz, 1 min			
Vibration Resistance		50Hz£amplitude 1.2mm			
	Momentary Pushbutton	1,000,000 times			
Mechanical Life	Latching Pushbutton, Selector Switch	500,000 times			
	Key-lock Switch	200,000 times			
	Electrical Life	50,000 times			
		Diameter of wire:2×0.8mm max			
	Wiring	Area of copper wire: 0.75mm²			
		Pin Terminal:2.8¡0.5mm			
Solder Heat Resistance		320 <sub>i</sub> 3s			
	Operating Travel	About 3mm			
	Operating Force	About 2.8N(1NO1NC) / About 3.5N(2NO2NC)			
	Operating rorce	About 4.7N(3NO3NC)			

#### Lamp Ratings

LED Life	Current	Allowable Voltage Fluctuation Range	Circuit Diagram		
≥40000 hours	≤24V about 15mA ≥110V about 2mA	DC: ±10% AC: ±20%	a • R b  Use internal resistor and no distinction between positive and negative poles.		



# Φ16mm Product Cutline Specification Dimension



Pushbutton(can be illuminated) LAS1-BY-□ ■/△/▲

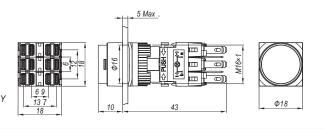
Contact<sub>□</sub> 1NO1NC / 2NO2NC / 3NO3NC

Operation Type ■ No letter means momentary / Z: Latching

Color $\triangle$  R G Y B W N LED Voltage  $\blacktriangle$  6V/12V/24V/220V

Protection Degree IP40

Accessory Switch Guard S01 / Sealing Cover S09-S1Y





Pushbutton(can be illuminated) LAS1-BF- $\square$   $\blacksquare$ / $\triangle$ / $\blacksquare$ 

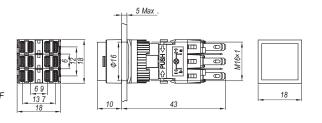
Contact<sub>□</sub> 1NO1NC / 2NO2NC / 3NO3NC

Operation Type No letter means momentary / Z: Latching

Color $\triangle$  R G Y B W N LED Voltage  $\blacktriangle$  6V/12V/24V/220V

Protection Degree IP40

Accessory Switch Guard S01 / Sealing Cover S09-S1F





Pushbutton(can be illuminated) LAS1-BJ-□ ■/△/▲

Contact

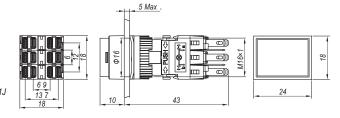
1NO1NC / 2NO2NC / 3NO3NC

Operation Type No letter means momentary / Z: Latching

Color $\triangle$  R G Y B W N LED Voltage  $\blacktriangle$  6V/12V/24V/220V

Protection Degree IP40

Accessory Switch Guard S01 / Sealing Cover S09-S1J





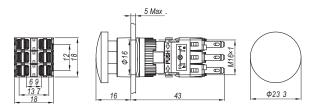
Contact□ Operation Type■ Color△

1NO1NC / 2NO2NC / 3NO3NC No letter means momentary / Z: Latching

R G

LED Voltage▲ 6V / 12V / 24V / 220V

Protection Degree IP40
Accessory T34-16





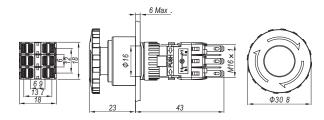
E-stop Switch(can be illuminated) LAS1-BY-□ TSA/▲

Contact

1NO1NC / 2NO2NC / 3NO3NC

LED Voltage▲ 6V / 12V / 24V / 220V

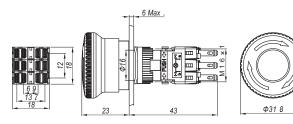
Protection Degree IP40





Contacta 1NO1NC / 2NO2NC / 3NO3NC

Protection Degree IP40







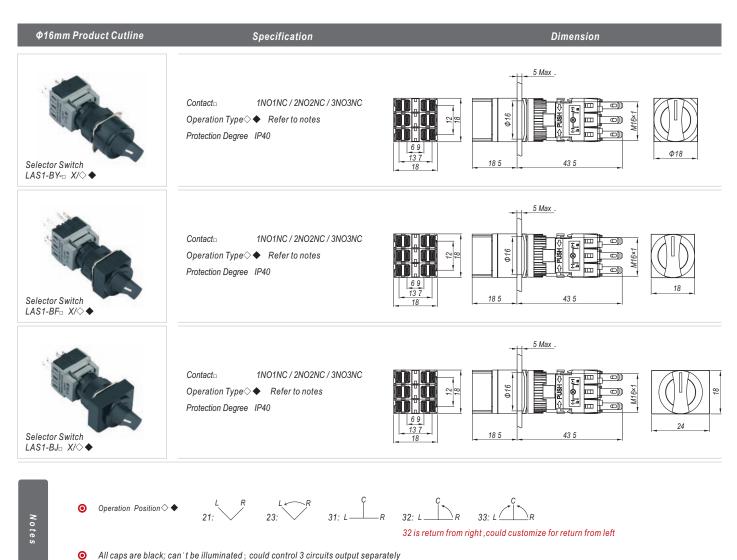








# LAS1-B Pushbutton Switch



# Contact State of Selector and Key-lock Switch

Switch Type		90° 2 Position		90° 3 Position			
Operation Position	1NO1NC	2NO2NC	3NO3NC	2NO2NC	2NO2NC	2NO2NC	3NO3NC
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# LAS1-B Pushbutton Switch

# Ф16mm Product Cutline Specification Dimension 5 Max 1NO1NC / 2NO2NC / 3NO3NC Operation Type $\diamondsuit$ $\spadesuit$ Refer to notes Protection Degree IP40 Key-lock Switch LAS1-BY-□ Y/◇◆ 1NO1NC / 2NO2NC / 3NO3NC Contact<sub>-</sub> Operation Type $\Diamond \spadesuit$ Refer to notes Protection Degree IP40 Key-lock Switch LAS1-BF-□ Y/◇◆ 5 Max . Contact<sub>□</sub> 1NO1NC / 2NO2NC / 3NO3NC Operation Type♦ ◆ Refer to notes Protection Degree IP40

Notes

Key-lock Switch LAS1-BJ-□ Y/◇ ◆













32 is return from right, could customize for return from left

Provide 2 keys, need rotate into position when using. The keys are removable at each position, also can be customized for maintained at specified position. All keys are same.

## Contact State of Selector and Key-lock Switch

Switch Type	90° 2 Position			90° 3 Position			
Operation Position	1NO1NC	2NO2NC	3NO3NC	2NO2NC	2NO2NC	2NO2NC	3NO3NC
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				0000			0 0 0 0 0 0
	<b>●</b>   <b>●</b> ○ ○						



