# **ONPOW**<sup>®</sup>

### 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.

**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

### LAS1-B Switch Ratings

Rated Insulation Voltage Ui			250V			
Thermal Current Ith			5A Temperature rise can't over the Max. rating current			
	Rated Volta	ge	12V	24V	110V	220V
	AC 50/60Hz	Resistive Load	—	—	5A	3A
Rated		Inductive Load	—	—	3A	2A
Current	DC	Resistive Load	5A	5A	1A	0.5A
	Inductive Load		2A	2A	0.2A	0.1A
Contact Material				Silve	er Alloy	

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

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

	•
Bottom Preview	Terminal Arrangement
	(TOP)

#### Installation Dimension

	Туре	А	В
<u>+ B</u> →	Round	≥18mm	<b>≥18mm</b>
	Square	≥18mm	≥18mm
φ16 <sup>+0.2</sup> -0.0	Rectangular	≥18mm	≥24mm
	Mushroom	≥24 <i>mm</i>	≥24mm
	E-stop Switch	≥32mm	≥32mm



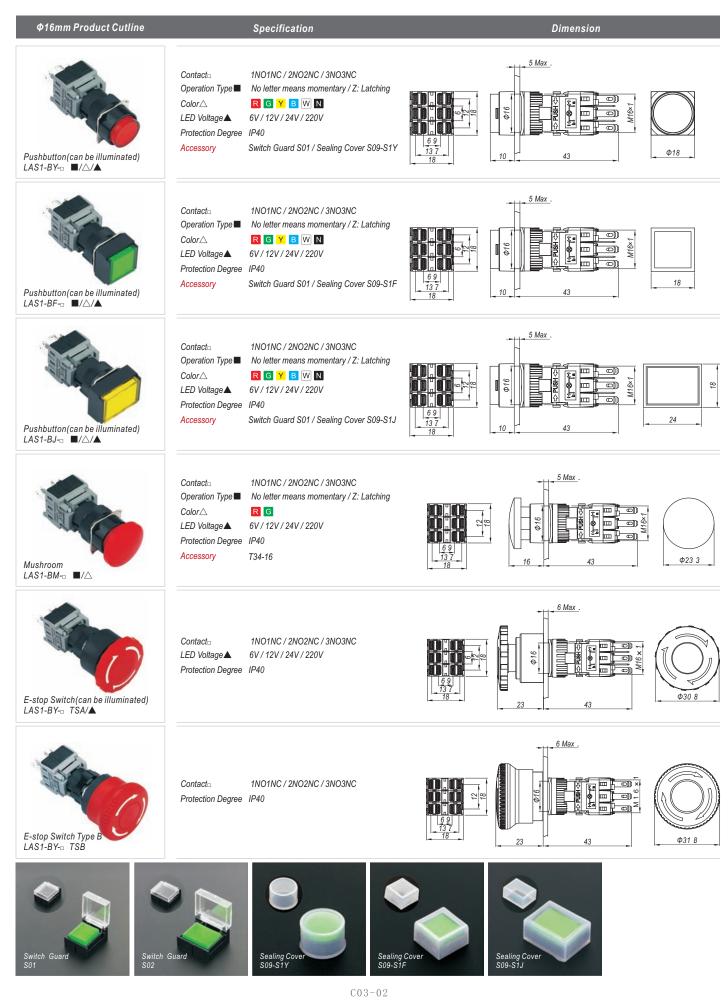
#### Specification

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	Operating Temperature	-25℃~+55℃(no freezing)				
		Keep good ventilation round the switch.				
	Operating Humidity	45~85%RH(no condensation)				
Contact Resistance		≪50mΩ				
	Insulation Resistance	>100MQ (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				
Mechanical Life	Momentary Pushbutton	1,000,000 times				
	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: 0.75mm <sup>2</sup>				
		Pin Terminal:2.8¡0.5mm				
	Solder Heat Resistance	320; 3s				
	Operating Travel	About 3mm				
	Operating Force	About 2.8N(1NO1NC) / About 3.5N(2NO2NC)				
	Operating Force	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 <u>R</u> Use internal resistor and no distinction between positive and negative poles.		

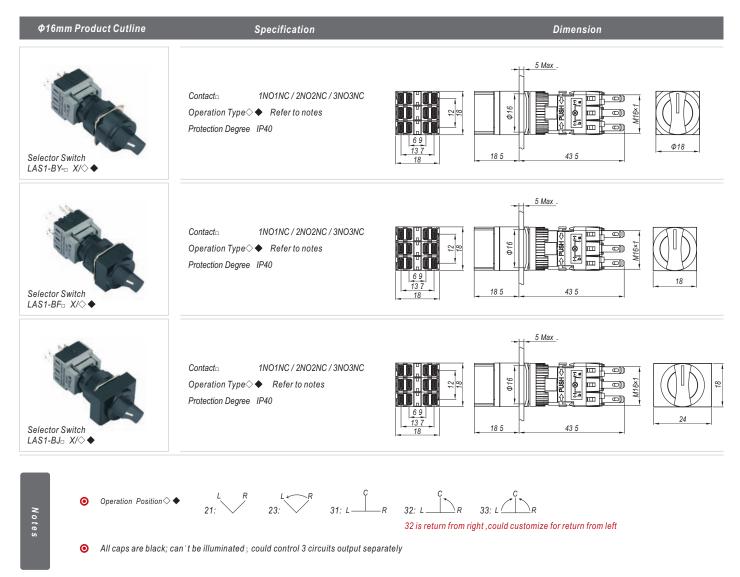
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LAS1-B Pushbutton Switch

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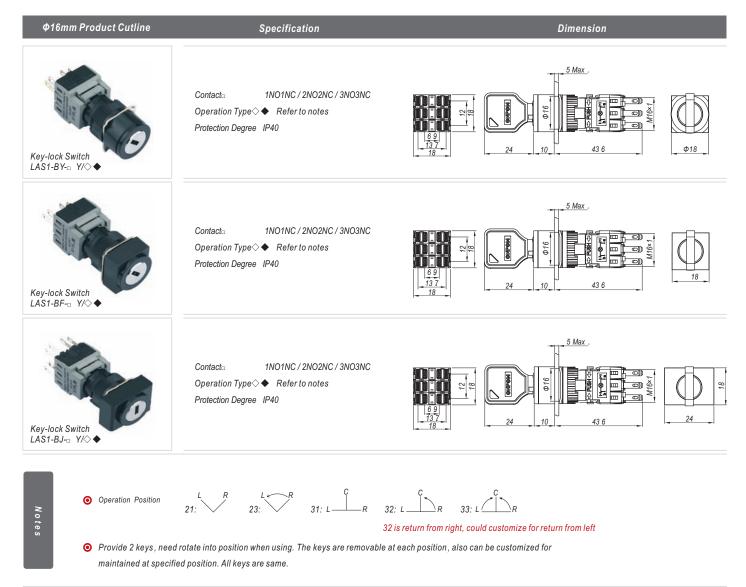
### Contact State of Selector and Key-lock Switch

Switch Type	90° 2 Position			90* 3 Position			
Operation Position	1NO1NC	2NO2NC	3NO3NC	2NO2NC	2NO2NC	2NO2NC	3NO3NC
$\overline{\mathbf{N}}$							



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Operation Position	1NO1NC	2NO2NC	3NO3NC	2NO2NC	2NO2NC	2NO2NC	3NO3NC
$\overline{\mathbf{N}}$			$\begin{array}{c c}\bullet \bullet $				

