

## LAS1 Series A Type $\Phi 22$ Pushbutton Switch

### Characteristic

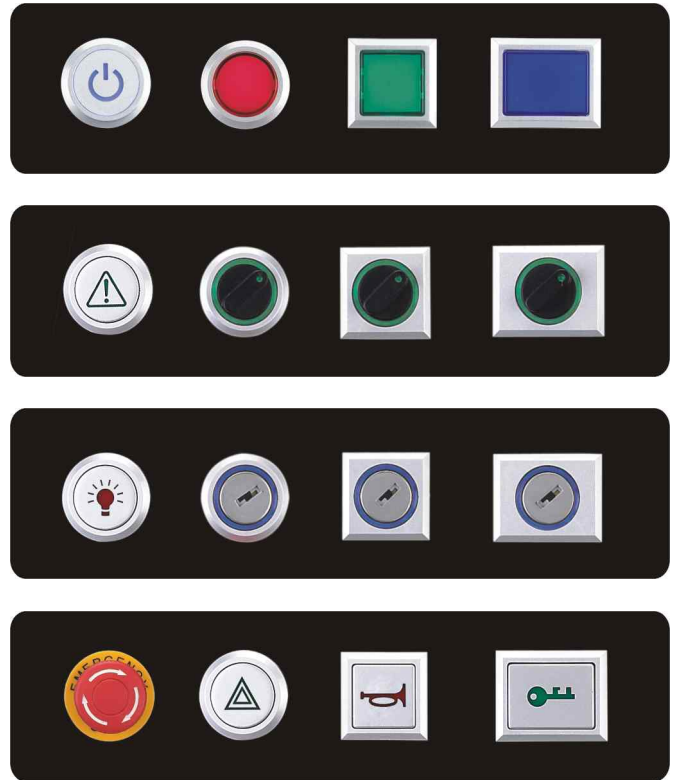
**Specs** It includes pilot lamp, pushbutton, illuminated pushbutton, selector switch, key-lock switch and emergency switch; the head shape could be round ( $\Phi 25\text{mm}$ ), square ( $25 \times 25\text{mm}$ ) and rectangle ( $25 \times 31\text{mm}$ ).

**Functions** With stable property, low contact resistance, strong insulation resistance, anti-vibration and anti-impact feature, products meet the standards of IEC60947-5-1, GB14048.5, etc.

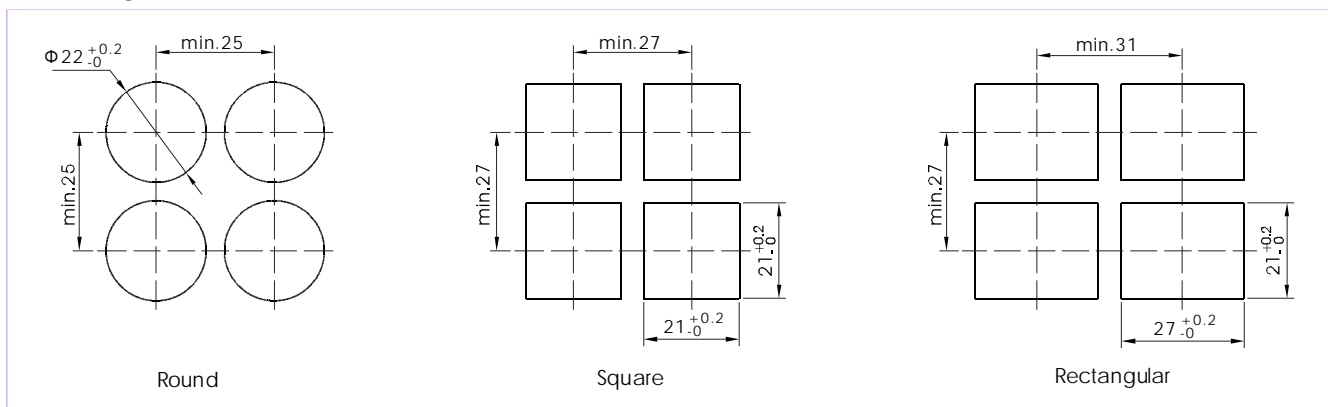
**Structure** The switch elements are of fast-break structure, and every elements consist of 1NO1NC. One pushbutton can collocate not more than 2 elements.

**Feature** Using veneering installation, the front frame of the product is only 2mm higher over the panel. The tope face could be customized of various patterns.

**Protective Degree** IP40 or IP65.



### Mounting hole dimension



### Model Number Description

LAS1-A	☆	★	-	□	■	○	/	◇	◆	●	/	△	/	▲	/	◎
Code of series	Code of variety: P black frame W silvery frame	The front shape: Y round F square J rectangular	Contact Structure: 11 1NO1NC 22 2NO2NC	Code name of derivative products: D pilot lamp Z alternate type X selector type Y key-lock type TS emergency No letter means momentary	Type of illuminated symbol: T power sign No letter means normal type. Note: T type is special for round silvery frame. Other symbol can be made to order.	◇: operating position of selector and key switch: 2 two position 3 three position ◆: operation type: 1 maintain 2 right return 3 three position 4 left return ● key-lock maintain position	Color: R red G green Y yellow O orange B blue W white N black	Lamp voltage (Please see the chart of lamp rating)	Protective degree: P IP65 No letter means IP40							

Note: Pls check other specification, lamp ratings, structure and terminal explanation from LAS1 series A type in ONPOW plastic products catalogue.

## Switch Ratings

Rated Insulation Voltage $U_i$			250V			
Thermal Current $I_{th}$			5A			
Rated Voltage			12V	24V	110V	220V
Rated Current	Alternating Current 50/60Hz	Resistive load	—	—	1A	0.5A
		inductive load	—	—	0.7A	0.5A
	Direct Current	resistive load	1A	1A	0.2A	—
		inductive load	0.7A	0.7A	0.1A	—
Contact Material			Silver Alloy			

Minimum load: 3V AC/DC 5mA (reference) (range of use depend on operation environment and load type)

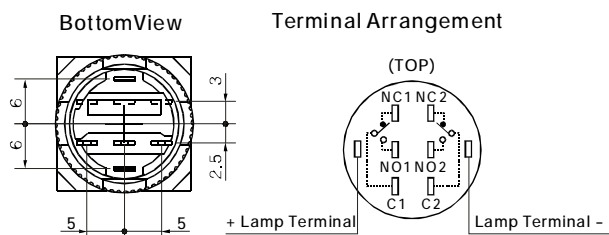
## Specification

Operating Temperature		-25°C ~ +55°C (no freezing)) the air round light switch noumenon must be ventilative	
Operating Humidity		45 - 85%RH (no condensation)	
Contact Resistance		≤ 50mΩ	
Insulation Resistance		≥ 100MΩ	
Dielectric strength	Between contact and lamp terminals	2000V, A C 50Hz, 1 min	
	Between terminal of the same pole:	1000V, AC 50Hz, 1 min	
	Between terminal of different pole:	2000V, A C 50Hz, 1 min	
Vibration Resistance		50Hz, Amplitude 1.2mmp - p	
Shock Resistance		≥ 10g	
Life	Mechanical	Momentary Type	1,000,000times
		Alternate and Selector Type	500,000 times
		Key- lock and Emergency Type	200,000 times
Electrical		≥ 50,000times	
Terminal		Diameter of welded wire: 2 × 0.8mm Area of copper wire: 0.75mm <sup>2</sup> max Connecting link: 2.8 × 0.5mm	
Solder Heat Resistance		230°C (no more than 3 second)	
Operating Travel		(Pushbuttons) about 3mm	

## Lamp Ratings

Lamp Type	AC LED Lamp (Standard)			Neon Lamp		
Rated Voltage	AC/DC 6V	AC/DC 12V	AC/DC 24V	AC 110V	AC 220V	
	AC/DC 110V	AC/DC 220V				
Cover Color	R	G	Y	O	B	W
Life	About 40000 hours				About 20000 hours	

Note: the lamp contains a current-limiting resistor inside and doesn't need external connection.  
DC LED lamp, dual-color LED lamp and other voltages can be customized.





## Selector and key lock switch contact operation

Position	Contact	Operating Positon & Contact Operation		
		Left	Center	Right
90° 2 Position	1NO1NC			
	2NO2NC			
45° 3 Position	2NO2NC			

**LAS1 Series A Type  $\Phi 22$  pushbutton, illuminated pushbutton**

Product Outline

Shape	Contact	Operation type	Model Type	Mark
 Round(can be illuminated) Silvery Frame	—	Pilot lamp	LAS1-AWY-DT/ $\Delta$ / $\blacktriangle$ / $\odot$	 <ul style="list-style-type: none"> <li><math>\odot</math> The black cover can not be used for illuminated pushbutton.</li> <li><math>\odot</math> Protective Degree: IP40 and IP65 canbe chosen.</li> </ul>
	1NO1NC	Momentary	LAS1-AWY-11T/ $\Delta$ / $\blacktriangle$ / $\odot$	
		Alternate	LAS1-AWY-11ZT/ $\Delta$ / $\blacktriangle$ / $\odot$	
	2NO2NC	Momentary	LAS1-AWY-22T/ $\Delta$ / $\blacktriangle$ / $\odot$	
		Alternate	LAS1-AWY-22ZT/ $\Delta$ / $\blacktriangle$ / $\odot$	

Product overall dimension

