LAS1 Series A Type Pushbutton Switches

Characteristic

Specs

Having three head shape: round (Φ 18mm), square (18 × 18mm) and rectangular (18 × 24mm), containing pilot lamps, pushbuttons, illuminated push buttons, selector switches, key-lock switches, buzzer and emergency switchs. The normal diameter of the installation hole is Φ 16mm, and some type can be installed in Φ 22mm hole easily with the diameter changing circle.

Functions

The product has stable property, small contact resistance, strong insulation resistance, anti-vibration and so on .lt meets to standards of IEC60947-5-1, GB14048.5 etc.

Structure

The switch have the advantage of fast-break and self-cleaning, and each of them contains 1 NO and 1 NC terminal. Every pushbutton also can possess from one to two switch units.

Protective Degree

Its protective degree is IP40,IP65,some of type can reach IP67 with the seal cover.

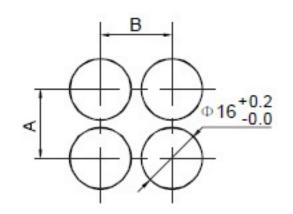
Lamp Ratings

Lamp Type	AC LED Lamp (Standard)			Neon Lamp		
Rated Voltage	AC/DC6V	AC/DC12V AC/DC24		AC/DC24V	404400	
	AC/DC11	110V AC/DC220V			AC110V	AC220V
Cover Color:	R G Y O B W				R	G
Life	About 40,000 hours			About 20,	000 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.

Installation Dimensions



Category	Α	В
Round	≥ 18mm	≥18mm
Square	≥ 18mm	≥ 18mm
Rectangular	≥ 18mm	≥24mm
Mushroom	≥ 24mm	≥24mm
Big square	≥ 24mm	≥24mm
Big rectangular	≥ 18mm	≥24mm

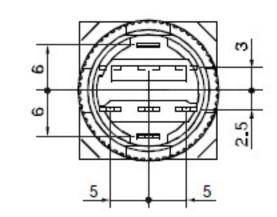
Switch Ratings

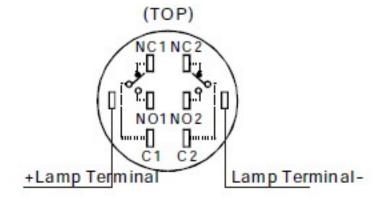
Thermal C	urrent Ith	5 A				
Rated Voltage		24V	125V (110V)	250V (220V)		
Direct Current		1A	0.2A	0.1A		
Alternating	P.F=1		5A	3A		
Current	P.F=0.7		3A	2A		

Specifications

Operating Temperature		ng Temperature	-25°C ~ +55°C(no freezing)		
Operating Humidity		ating Humidity	45 ~ 85%RH(no condensation)		
Contact Material		tact Material	- silver - silver alloy - gold - clad silver, cladding thickness is 3 μ m		
Contact Resistance		ct Resistance	≤ 50M Ω		
Ins	ulat	ion Resistance	≥100MΩ		
.은 _ Between contact and lamp terminals :		een contact and lamp terminals :	2000V, A C 50Hz, 1 min		
Between contact and lamp terminals: Between terminal of the same pole: Between terminal of different pole:		een terminal of the same pole:	1000V,AC 50Hz,1 min		
Between terminal of different pole:		een terminal of different pole:	2000V,A C 50Hz,1 min		
Vit	Vibration Resistance		50Hz, Amplitude 1.2mm p-p		
S	Shock Resistance		≥10g		
	Me	Momentary Type	1,000,000times		
	Mechanica	Alternate and Selector Type	500,000 times		
Life	ical	Key-lock and Emergency Type	200,000 times		
		Electrical ≥50,000times			
Terminal		Terminal	Diameter of welded wire:2×0.8mm Area of copper wire: 0.75mm2 max Connecting link: 2.8×0.5mm		
Solo	der I	Heat Resistance	230℃(no more than 3 second)		
Operating Travel		rating Travel	(Pushbuttons) about 3mm		

Bottom View Terminal Arrangement





Implication of Type

LAS1-A	* -		<i>l</i>	/ 🛆 /		<u> </u>
Code of series	The front shape: Y round F square J rectangular M mushroom DF big square DJ big rectangular	Code name of derivative products: D pilot lamp Z alternate type X selector type Y key-lock type TS emergency B buzzer type No letter means momentary	 ⇒:expresses selectorand key-lock series: 2 two position 3 three position ◆:expresses key-lock retention position 	color:: R red G green Y yellow O orange B blue W white N black	Lamp Voltage (Please check the lamp rating)	Protective Degree: P IP65 FP IP67 No letter means IP40

LAS1-A Pilot lamp

Product Cutline

Model Number	LAS1-AY-D/△/▲/◎	LAS1-AF-D/△/▲/◎	LAS1-AJ-D/△/▲/◎
Shape			
Remarks	100	R G Y O B W	I.

LAS1-A Pushbuttons, Illuminated Pushbuttons

Product Cutline

Note:SPDT_single-pole double-throw,DPDT double-pole double Throw.

Round(can be illuminated)			7.1	Remarks		
	CDDT	Momentary	LAS1-AY-11/△/▲/◎			
20	SPDT	Alternate	LAS1-AY-11Z/△/▲/◎			
		Momentary	LAS1-AY-22/△/▲/◎			
	DPDT	Alternate	LAS1-AY-22Z/△/▲/◎			
Square(can be illuminated)		Momentary	LAS1-AF-11/△/▲/◎	R G Y O B W N		
	SPDT	Alternate	LAS1-AF-11Z/△/▲/◎	The black cover can't be		
	DPDT	Momentary	LAS1-AF-22/△/▲/◎	used with the illuminated push buttons Protective Degree: IP40, IP65, IP67; IP67 should be installed		
		Alternate	LAS1-AF-22Z/△/▲/◎			
Rectangular(can be illuminated)	SPDT	Momentary	LAS1-AJ-11/△/▲/◎			
		Alternate	LAS1-AJ-11Z/△/▲/◎	with seal covers.		
		Momentary	LAS1-AJ-22/△/▲/◎			
	DPDT	Alternate	LAS1-AJ-22Z/△/▲/◎			
Mushroom(can be illuminated)		Momentary	LAS1-AM-11/△/▲/◎			
	SPDT	Alternate	LAS1-AM-11Z/△/▲/◎	R G Y		
		Momentary	LAS1-AM-22/△/▲/◎	Protective Degree: IP40, IP65		
	DPDT	Alternate	LAS1-AM-22Z/△/▲/◎			

Note: SPDT signal-pole double-throw, DPDT double-pole double-throw.

Shape	Contact	Operating Type	Type Number	Remarks
Big Square (can be illuminated)	CDDT	Momentary	LAS1-ADF-11/△/▲/◎	
	SPDT	Alternate	LAS1-ADF-11Z/△/▲/©	
	DPDT	Momentary	LAS1-ADF-22/△/▲/◎	
		Alternate	LAS1-ADF-22Z/△/▲/◎	R G Y
Big Rectangular(can be illuminated)		Momentary	LAS1-ADJ-11/△/▲/◎	Protective Degree: IP40, IP65.
2	SPDT	Alternate	LAS1-ADJ-11Z/△/▲/◎	
		Momentary	LAS1-ADJ-22/△/▲/◎	
	DPDT	Alternate	LAS1-ADJ-22Z/△/▲/◎	

Shape and Dimensions

