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.

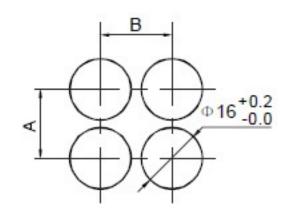
Lamp Ratings

Lamp Type	AC LED Lamp (Standard)				Neon Lamp	
Rated Voltage	AC/DC6V	AC/DC12V AC/D		AC/DC24V	404400	
	AC/DC11	AC/DC110V AC/DC220V		AC110V	AC220V	
Cover Color:	R	3 Y	0	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

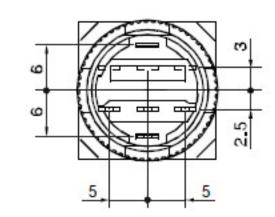
Switch Ratings

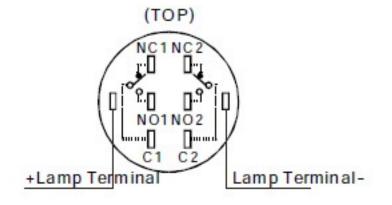
Thermal Current 1th Rated Voltage Direct Current		5A				
		24V	125V (110V)	250V (220V) 0.1 A		
		1A	0.2A			
Alternating	P.F=1		5A	3A		
Current	P.F=0.7		3A	2A		

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		
Insulation Resistance		ion Resistance	≥100MΩ		
.은 _ Between contact and lamp terminals :		een contact and lamp terminals :	2000V, A C 50Hz, 1 min		
Dielectric strength	Between terminal of the same pole:		1000V, AC 50Hz, 1 min		
Die	Between 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 × 0.8 Area of copper wire: 0.75 mm2 ii Connecting link: 2.8 × 0.5 mm			
Solder Heat Resistance		Heat Resistance	230°C(no more than 3 second)		
Operating Travel		rating Travel	(Pushbuttons) about 3mm		

Bottom View Terminal Arrangement





Implication of Type

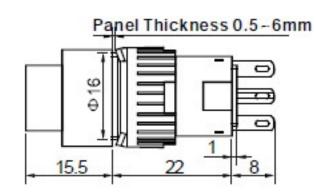
LAS1-A	*		/ ◊◆	/ 🛆 /	A	<u></u>
Code of series	The front shape: Y round F square J rectangular M mushroom DF big square DJ big rectangular	Code name of derivative products: D pilot lamp Z alternate type X selector type Y key-lock type TS emergency B buzzer type No letter means momentary	 :expresses selectorand 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 Selector Switches

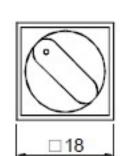
Product Cutline

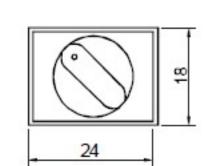
Shape	Position	Contact	Type Number	Remarks
Round(can be illuminated)	L R	SPDT	LAS1-AY-11X/2/△/▲/◎	
	90° 2 Position	DPDT	LAS1-AY-22X/2/△/▲/◎	
	45° 3 Position	DPDT	LAS1-AY-22X/3/△/▲/◎	
Square (can be illuminated)	L R	SPDT	LAS1-AF-11X/2/△/▲/◎	
	90° 2 Position	DPDT	LAS1-AF-22X/2/△/▲/◎	R G Y N The black cover can't be
	45° 3 Position	DPDT	LAS1-AF-22X/3/△/▲/◎	used with the illuminated push buttons Protective Degree:
Rectangular (can be illuminated)	L R	SPDT	LAS1-AJ-11X/2/△/▲/◎	IP40, IP65.
	90° 2 Position	DPDT	LAS1-AJ-22X/2/△/▲/◎	
	45° 3 Position	DPDT	LAS1-AJ-22X/3/△/▲/◎	

Shape and Dimensions









Contact Operation

Position	Contact	Operating Position & Contact Operation					
	Contact	Left	Center	Right			
90° 2 Position	IC	NO NC		NO NC			
	2C	NO NC NO NC Left Contact C Right Contact C		NO NC NO NC Left Contact C Right Contact C			
45° 3 Position	2C	NO NC NO NC Left Contact C Right Contact C	NO NC NO NC Left Contact C Right Contact C	NO NC NO NC Left Contact C Right Contact C			