LAS1 Series B Type(AH16) Pushbutton Switches

Product Overview

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 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.

Performance

The product has stable property, small contact resistance, strong insulation resistance, anti-vibration and so on . It 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 1NO and 1NC terminal. Every pushbutton also can possess from one to four switch units.

Protective Degree

The standard degree is IP40, some of type can reach IP67 with the seal cover. And the pin insert type can be make in Ip65.

Lamp Ratings

Lamp Type	AC LE	LED Lamp (Standard)			Neon lamp	
Data d Valta as	AC/DC6V	AC/E	C12V	AC/DC24V	A C 1 1 0 V	AC220V
Rated Voltage	AC/DC1	10V	AC/	DC220V	AC110V	
Cover Color:	R	G Y O B W		R	G	
Life	Ab	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.

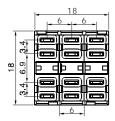
Switch Ratings

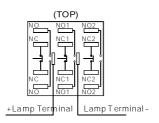
Thermal Current 1th		5A		
Rated Voltage		24V	125V(110V)	250V(220V)
Direct Current		1A	0.2A	0.1A
Alternating	P.F=1		5A	3A
Current	P.F=0.7		3A	2A

Specifications

Оре	Operating Temperature		-25°C ~ $+55$ °C(no freezing)	
Operating Humidity		iting Humidity	45 ~ 85%RH(no condensation)	
Contact Material		act Material	- silver - silver alloy - gold - clad silver, cladding thickness is 3 μ m	
C	onta	ct Resistance	≤50MΩ	
Ins	ulat	ion Resistance	≥100MΩ	
ric h	Between 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	
Vil	orati	on Resistance	50Hz,Amplitude 1.2mm p-p	
S	hoc	k Resistance	≥10g	
	Me	Momentary Type	1,000,000times	
	Mechanica	Alternate and Selector Type	500,000 times	
Life	ica	Key-lock and Emergency Type	200,000 times	
		Electrical	≥50,000times	
	Terminal		Diameter of welded wire:2×0.8mm Area of copper wire:0.75mm2 max Connecting link:2.8×0.5mm	
Solo	Solder Heat Resistance		230℃(no more than 3 second)	
(Эре	rating Travel	(Pushbuttons) about 3mm	

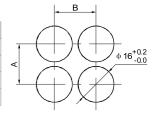
Bottom View Terminal Arrangement





Installation Dimensions

Category	А	В
Round	≥18mm	≥18mm
Square	≥18mm	≥18mm
Rectangular	≥18mm	≥24mm
Mushroom	≥32mm	≥32mm



Implication of Type

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LAS1-B	* -	- 🗆		/ ♦♦	/ <u>\</u>	/ _	/ ©
Code of series	The front shape:: Y round F square J rectangular	Contact Structure: 11 1NO1NC 22 2NO2NC 33 3NO3NC	Code name of derivative products: D pilot lamp Z alternate type X selector type Y key-lock type M mushroom type TS emergency type No letter means momentary	 ♦ The position of selector and key-lock switch: 2 two position 3 three position ♦ the operating type of selector and key-lock switch: 1 Maintain 2 Half return 3 Self return 	Color:: R red G green Y yellow O orange B blue W white N black	Voltage of the illuminated part is included in the lamp ratings form.	Protective Degree: FP IP67 No letter means IP40

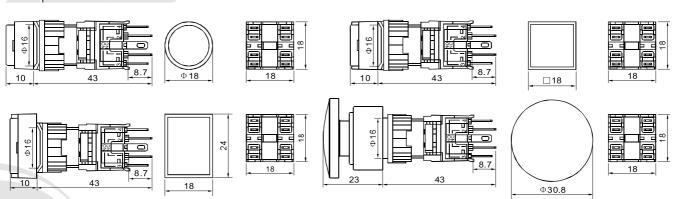
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LAS1-B Pilot Lamp, Pushbuttons & Illuminated Pushbuttons

Product Cutline

Shape	Contact	Operation Type	Type Number	Remarks
Round(can be illuminated)		Pilot Lamp	LAS1-BY-D/△/▲/◎	
. 3	41104110	Momentary	LAS1-BY-11/△/▲/◎	
	1NO1NC	Alternate	LAS1-BY-11Z/△/▲/◎	
	20102010	Momentary	LAS1-BY-22/△/▲/◎	
WA CO	2NO2NC	Alternate	LAS1-BY-22Z/△/▲/◎	
	20102010	Momentary	LAS1-BY-33/△/▲/◎	
	3NO3NC	Alternate	LAS1-BY-33Z/△/▲/◎	
Square(can be illuminated)		Pilot Lamp	LAS1-BF-D/△/▲/◎	
	4004010	Momentary	LAS1-BF-11/△/▲/◎	
	1NO1NC	Alternate	LAS1-BF-11Z/△/▲/◎	R G Y O B W
	21122112	Momentary	LAS1-BF-22/△/▲/◎	Protective Degree:IP40,IP67;IP67 should be installed with the seal cover.
	2NO2NC	Alternate	LAS1 - BF - 22Z/△/▲/◎	
	3NO3NC	Momentary	LAS1-BF-33/△/▲/◎	
		Alternate	LAS1-BF-33Z/△/▲/◎	
Rectangular(can be illuminated)		Pilot Lamp	LAS1-BJ-D/△/▲/◎	with the sear cover.
600		Momentary	LAS1-BJ-11/△/▲/◎	
38	1NO1NC	Alternate	LAS1-BJ-11Z/△/▲/◎	
		Momentary	LAS1-BJ-22/△/▲/◎	
	2NO2NC	Alternate	LAS1-BJ-22Z/△/▲/◎	
	21122112	Momentary	LAS1-BJ-33/△/▲/◎	
	3NO3NC	Alternate	LAS1-BJ-33Z/△/▲/◎	
Mushroom		Momentary	LAS1 - BM - 11/△	
	1NO1NC	Alternate	LAS1 - BM - 11Z/△	
	2NO2NC	Momentary	LAS1 - BM - 22/△	R G
		Alternate	LAS1 - BM - 22Z/△	
	21122115	Momentary	LAS1 - BM - 33/△	
	3NO3NC Alternate LAS1-	LAS1 - BM - 33Z/△		

Shape and Dimensions



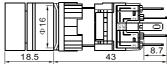
LAS1-B Selector Switches

Product Cutline

Shape	Туре	Type Number	Remarks
Round	L R 90° 2 position maintain	LAS1-BY-□X/21	
	LR 90° 2 position return	LAS1-BY-□X/23	
	L R 90° 3 position maintain	LAS1-BY-□X/31	
	$L = \frac{C}{R}$ 90° 3 position half return	LAS1-BY-□X/32	
,000	LCR 90° 3 position self return	LAS1-BY-□X/33	
Square	L R 90° 2 position maintain	LAS1-BF-□X/21	All the covers are black.
	LR 90° 2 position return	LAS1-BF-□X/23	○ Can't be used with lamp.
	C 90° 3 position maintain	LAS1-BF-□X/31	Can control three circuit
	CR90° 3 position half return	LAS1-BF-□X/32	outputs.(you can ask us
	LCR90° 3 position self return	LAS1-BF-□X/33	for the circuit diagram if
Rectangular	L R 90° 2 position maintain	LAS1-BJ-□X/21	you need)
	L R 90° 2 position return	LAS1-BJ-□X/23	
	C 90° 3 position maintain	LAS1-BJ-□X/31	
	LR90° 3 position half return	LAS1-BJ-□X/32	
	LCR90° 3 position self return	LAS1-BJ-□X/33	

Shape and Dimensions

Panel Thickness 0.5~5mm











LAS1-B Key-lock Switches

Product Cutline

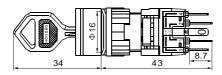
Shape	Туре	Type Number	Remarks
Round	L R 90° 2 position maintain	LAS1-BY-□Y/21	
	R 90° 2 position return	LAS1-BY-□Y/23	
	L——R 90° 3 position maintain	LAS1-BY-□Y/31	
	LR 90° 3 position half return	LAS1-BY-□Y/32	O Turo kovo o no ovo mlio d
	LCCR 90° 3 position self return	LAS1-BY-□Y/33	Two keys are supplied,which can be out in both
Square	L R 90° 2 position maintain	LAS1-BF-□Y/21	positions.
	R 90° 2 position return	LAS1-BF-□Y/23	All the keys are same.
	C 90° 3 position maintain	LAS1-BF-□Y/31	An the keys are same.
	LR 90° 3 position half return	LAS1-BF-□Y/32	
	90° 3 position self return	LAS1-BF-□Y/33	

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Shape	Туре	Type Number	Remarks	
Rectangular	^L R 90° 2 position maintain	LAS1-BJ-□Y/21		
	R 90° 2 position return	LAS1-BJ-□Y/23	⊙ Two keys are supplied,	
	LR 90° 3 position maintain	LAS1 - BJ - □Y/31	which can be out in both	
0	LR 90° 3 position half return	LAS1-BJ-□Y/32	positions.	
	2 90° 3 position self return	LAS1-BJ-□Y/33	● O All the keys are same.	

Shape and Dimensions

Panel Thickness 0.5~5mm











LAS1-B Emergency Pushbuttons

Product Cutline

Shape	Contact	Type Number	Remarks
A Type(can be illuminated)	Monopole	LAS1-BY-11TSA/△/▲	
	Dipole	LAS1-BY-22TSA/△/▲	
	Three-pole	LAS1-BY-33TSA/△/▲	R G
B type	Monopole	LAS1-BY-11TSB/△	K G
	Dipole	LAS1-BY-22TSB/△	
	Three-pole	LAS1-BY-33TSB/△	

Shape and Dimensions

Panel Thickness 0.5~5mm

