

LAS0 Series Pushbutton Switches

Product Overview

Specs

LAS0seriesA,B,C,K type pushbutton switches are derivatives of LAS0 series. They are innovated from the original stucture of LAS0 series, which can be installed more easily and firmly and can be operated more reliably and stably. There are three standard diameters of installation hole $\Phi22mm$, $\Phi25mm$ and $\Phi30mm$, can be using wide area.

Performance

Using high quality inflaming retarding materials. Switch unit is separated independently and the insulating performance is very well.

The product meets standards of IEC60947 - 5 - 1,GB14048.5 etc.

Structure

The switch unit is slow - break and self - cleaning. It uses modular combination mode and you can combine from one to eight switch units optional, so can make the product meet the requirement of many special control circuits.

Protective Degree

The standard is IP40 and some types can reach Ip67 with the seal cover.

Switch Ratings

Rated Insulation Voltage	Ui: 500V				
Thermal Current	Ith: 10A				
Rated Voltage	24V	110V	220V	380V	500V
Direct Current	10A	2.2A	1.1A		
Alternating Current P.F=0.7		10A	6A	4A	2A

Specifications

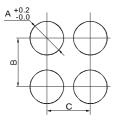
(Operating Temperature	- 25°C ~ +55°C(no freezing)		
	Operating Humidity	45 ~ 85%RH(no condensation)		
	Contact Material	- silver - silver alloy - gold - clad silver, cladding thickness is 3 µ m		
	Contact Resistance	≤50mΩ		
	Insulation Resistance	≥100 MΩ		
	Dielectric Strength	3000 V, AC 50Hz		
	Vibration Resistance	50Hz,Amplitude 1.0mm p-p		
	Shock Resistance	≥10g		
Life	Momentary type:≥1,000,000 times; Mechanical Alternate type and selector type:≥500,000 time Key-lock type and emergency type:≥200,000t			
	Electrical	≥50,000times		
	Terminal	Thread connection, diameter of welded wire: 2×1.5mm maxConnecting link:6.3× 0.8mm		
	Operating Force	800gf~2200gf,according to the quantity of switch units		
	Operating Travel	A,B,C type:about 5.5mm(pushbutton)		
	Sperating Traver	K type:about 3.8mm(pushbutton)		

Lamp Ratings

Lamp Type	AC LED Lamp						AC/DC:
Rated	AC/DC 6V	AC/DC 12V	AC/DC110V	AC/DC220V	AC/DC380V	ent uit	(resistor step-down) a • R b
Voltage	AC/DC 24V AC 110V AC 220V AC 380V			AC 380V	/alc	·	
Rated Current	≤20mA					ļ.	AC: a C
Life	40,000 hours				йο	(capacitor step-down)	
Cover Color		R G Y O B W					Suitable Frequency:50 ~ 60Hz

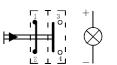
- Note: 1.The lamp contains current -limiting resistor inside and doesn't need connect outside...
 - 2. The standard is using AC/DC LED lamp, DC LED lamp, dual-color LED lamp and other voltages can be customized.

Installation Dimensions



Category	Α	В	С	Remarks
Normal Type	Ф22.5 or Ф25.5 or	≥50	≥35	
Selector Type&Key-lock Type		≥50	≥35	1,Unit:mm
Mushroom		≥50	≥42	2,Band C both are the
Big Mushroom	Ф30.5	≥70	≥70	minimum size.

Circuit Diagram



Switch code: 11 1,2 are normal closed;

3,4 are normal opened;

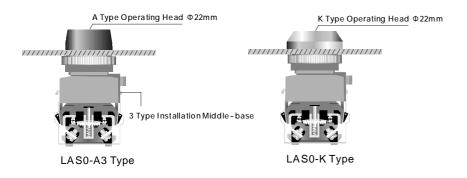
The Contact Pair's Close-open State Chart of the Selector Switches and Key-lock Switches



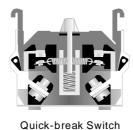
Structure Charts







Switch Base Diagram





Slow-break Switch



LAS0 Series A Type Pushbutton Switches

Implication of Type

Note:The operating head and installation Middle-base of A3 type cann't applicable to A1 and A2 types. The detailed ratings are included in "Product Cutline" .

LASO - A●	*		• .	<i>!</i>	/ △	/ 🔺	/ ©
Code of series specification o installation Middle-base (see "Structur Charts")	Y round F square	Contact Structure: 111NO1NC 222NO2NC 333NO3NC 444NO4NC You can choose combination modes according to your needs; for example If you need "slow-break structure", please add M to the front, :*M11".	Operating type: D pilot lamp Z alternate type X selector type XB lever type Y key-lock type M mushroom type TS emergency type S rectangular type	◇ expresses selector and key-lock operating position: 2 two position 3 three position 4 expresses selector and key-lock operating type: 1 maintain 2 half return 3 self return	Color: R red G green Y yellow O orange B blue W white N black	Lamp Voltage (Please check the lamp rating)	Protective Degree: FP IP67 No letter means IP40

Product Cutline

Note: The products in big pictures are all 1 type installation middle-base type; and the small picture is 2 types installation middile-base type; the 3 type are included in P33.

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Shape	Operating Type	Type Number	Dimension	Remarks
Pilot Lamp	Pilot Lamp	LAS0-A1Y-D/△/▲/◎	6.2 8X 9 12.8 43.7	B W Protective Degree: 1P40,IP67 1P67 should be installed with seal cover.
Round (can be illuminated)	Momentary	LAS0-A1Y-□/△/▲/◎	62	R G Y O B W N The black cover can't
	Alternate	LAS0-A1Y-□Z/△/▲/◎	12.8 49.7+(17)	be used with lamp. Protective Degree: IP40,IP67 IP67 should be installed with seal cover
Square (can be illuminated)	Momentary	LAS0-A1F-□/△/▲	9.82	R G Y O
	Alternate	LAS0-A1F-□Z/△/▲	12.8 49.7+(17)	The black cover can't be used with lamp.
Mushroom (can be illuminated)	Momentary	LAS0-A1Y-□M/△/▲	6.2 (17) 23 24 49.7+(17)	R G The dimension of head is: 0 40mm, 0 60mm
Emergency Pushbutton	Push-lock Turn-reset	LAS0-A1Y-□TS/△	24 49.7	R



Note: The products in big pictures are all 1 type installation middle-base type; and the small picture is 2 types installation middle-base type.; the 3 type are included in P33.

Shape	Operating Type	Type Number	Dimension	Remarks
Round Selector Switch	^L 90° 2 position maintain	LAS0-A1Y- □X/21/ △	/2	
	90° 2 position return	LAS0-A1Y-□X/23/△	6.2	R G N
	L C R 45° 3 position maintain	LAS0-A1Y-□X/31/△	4	
	L C R 45°3 position half return	LAS0-A1Y-□X/32/△	24.5 49.7	N
	L_CR 45° 3 position self return	LAS0-A1Y-□X/33/△		
Square Selector Switch	^L 90° 2 position maintain	LAS0-A1F-□X/21/△		
	^R 90° 2 position return	LAS0-A1F-□X/23/△	6.2	R
	L C R 45° 3 position maintain	LAS0-A1F-□X/31/△	4	G
	L CR 45° 3 position half return	LAS0-A1F-□X/32/△	24.5 49.7	N
	L_CR 45° 3 position self return	LAS0-A1F-□X/33/△	-	
Round Lever Switch	^L 90° 2 position maintain	LAS0-A1Y-□XB/21/△		
	R 90° 2 position return	LAS0-A1Y-□XB/23/△	6.2	R G N
	L C R 45° 3 position maintain	LAS0-A1Y-□XB/31/△	4	
	L C R 45°3 position half return	LAS0-A1Y-□XB32/△	24.5 49.7 ϕ_{30}	
	L_CR 45° 3 position self return	LAS0-A1Y-□XB33/△		
Square Lever Switch	^L 90° 2 position maintain	LAS0-A1F-□XB21/△		R G N
	^L 90° 2 position return	LAS0-A1F-□XB23/△	6.2	
	L C R 45° 3 position maintain	LAS0-A1F-□XB31/△	4 + 4	
	L CR 45°3 position half return	LAS0-A1F-□XB32/△	24.5 49.7	
	L C R 45° 3 position self return	LAS0-A1F-□XB33/△		
Key-lock Switch	^L 90° 2 position maintain	LAS0-A1Y-□Y/21		
	^L 90° 2 position return	LAS0-A1Y-□Y/23	+ 6.2 + 29 + 1	
	L C R 45° 3 position maintain	LAS0-A1Y- □Y/31	4	Two keys are supplied.
	L CR 45°3 position half return	LAS0-A1Y-□Y/32	23 49.7 ϕ 30.	
	L_CR 45° 3 position self return	LAS0-A1Y-□Y/33	111	
Rectangular (can be used with lamp)	Double Head Momentary	LAS0-A1J-□S/▲	6.2 (17.1 49.7+(17) 30	



LAS0 Series A3 Type Pushbutton Switches

The series product adopt a new connect way for A Type operating head with 3 type quick installation middle-base, It not only realizes the continuity of panel pattern and quality, but also can be installed more easily and saves time for customers.

Shape	Operating Type	Type Number	Dimension	Remarks
Pilot Lamp	Pilot Lamp	LAS0-A3Y-D/∆/▲/◎	Panel Thickness 0.5 - 5mm	B W Protective Degree: 1P40,1P67 IP67 should be installed with seal cover.
Round (can be illuminated)	Momentary	LAS0-A3Y-□/△/▲/◎	Panel Thickness 0.5-5mm	BWN The black cover can't be used
	Alternate	LASO-A3Y-□Z/△/▲/◎	(17) 23 12.8 55+(17)	with lamp. Protective Degree: IP40,IP67 IP67 should be installed with seal cover.
Mushroom (can be illuminated)	Momentary	LAS0-A3Y-□M/△/▲	Panel Thickness 0.5 - 5mm	R
Emergency Pushbutton	Push-lock Turn-reset	LAS0-A3Y-□TS/△	Panel Thickness 0.5 ~ 5mm	R
Round Selector Switch	^R 90° 2 position maintain	LAS0-A3Y-□X/21/△		
	90° 2 position return	LAS0-A3Y-□X/23/△	Panel Thickness 0.5~5mm	R
	L C R 45° 3 position maintain	LAS0-A3Y-□X/31/△		G
	L C 45° 3 position half return	LAS0-A3Y-□X/32/△	23 29 29	N
	L CR 45° 3 position self return	LAS0-A3Y-□X/33/△		
Round Lever Switch	^R 90° 2 position maintain	LAS0-A3Y-□XB/21/△		
	90° 2 position return	LAS0-A3Y-□XB/23/△	Panel Thickness 0.5 ~ 5mm	R
	L C R 45° 3 position maintain	LAS0-A3Y-□XB/31/△		G
	L C R 45° 3 position half return	LAS0-A3Y-□XB32/△	23 29 29	N
	LCR45° 3 position self return	LAS0-A3Y-□XB33/△		