

LAS0 series K type pushbutton switch

Product Overview

LAS0 series K type product that has five own intellectual property rights is a new kind of pushbutton, which is produced in recent years. Operating part and middle connection adopt convenient and quick installation way. It can be used under every terrible condition because of the shock, fall and vibration resistance.

The series has various head shape and we are still continually exploring and innovating to bring surprise to user!

The pushbutton lower the height above panel and lower the head height to 10mm; head of Φ 30mm diameter changing pushbutton even been reduced to less than 3mm.

K type pushbutton switches design philosophy for professional engineering bases on introducing, assimilating and innovating. The product blends new design ideas for the artistic technology mode of modern industrial product and adopts humanized overall structure design, which makes product has more beautiful shape, stronger structure and can be installed much quickly.

Protective Degree

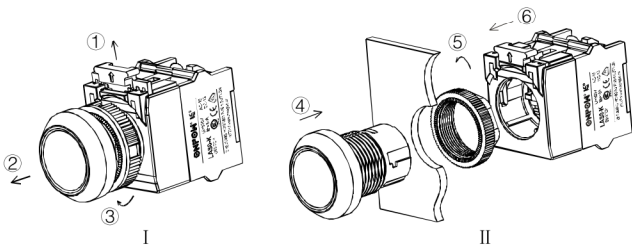
Common collocation is IP40. It is designed with internal high-level protection according to clients different demands to achieve IP65.

Outer Structure

The geometrical shape of operating part optimizes the organic combination of line and plane, plane and pyramid, which is not only nice and practical, but also can remove the operator's weary sight and lead the trend of modern science.

Convenient Installation

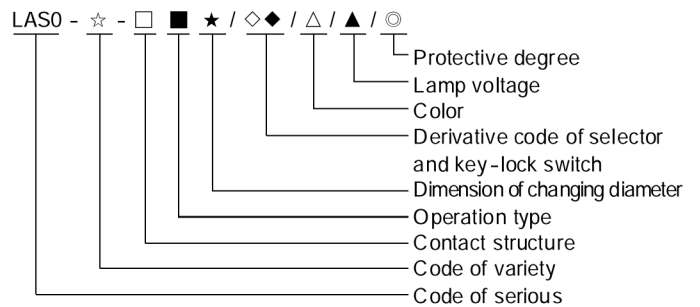
The product is made up of operating part, connection and contact. It used advanced alternate fixture less connection, which is safe and reliable. It shows humanized design thinking and can be dismantled and installed efficiently. The multi functional fixed bolt cap can be installed in Φ 22mm or Φ 25mm panel without any accessory.



Cutline of Panel Installation



Implication of Type



☆ Code of variety: □ Contact Structure:
 K normal type can choose the compound mode according
 KE economy type to your requirement, such as:
 11 1NO1NC 22 2NO2NC
 33 3NO3NC 44 4NO4NC
 If you need 'slow motion structure', please add M in front of the model number.

★ Diameter changing dimension: 30: Φ 30mm

■ Operation type:
 no letter means momentary, like D, EA or EB in part number, if in front there is contact number, means it is momentary illuminated pushbutton.

- Z alternate normal type
- D pilot lamp
- EA transparent ring pilot lamp
- EB colored ring pilot lamp
- ZD alternate illuminated
- ZEA alternate transparent ring illuminated
- ZEB alternate colored ring illuminated
- P momentary metal flat type
- Q momentary metal domed type
- ZP alternated metal flat type
- ZQ alternate metal domed type
- MA A type momentary mushroom
- MB B type momentary mushroom
- ZMA A type alternate mushroom
- ZMB B type alternate mushroom
- TSA A type emergency stop
- X selector switch
- XA A type lever switch
- XB B type lever switch
- XC C type lever switch
- Y key-lock switch
- S double-position pushbutton
- C21 double-position rocker switch
- C23 C23 double-position momentary rocker switch
- C41 four-position rocker switch
- C43 four-position momentary rocker switch

◇ Operation position of selector and key-lock switch:
 2 two position
 3 three position

◆ Operation 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

▲ Lamp voltage
 ○ Protective degree:
 P IP65
 no letter means IP40

LAS0 series K type pushbutton switch



Specification

Operating Temperature		-25°C ~ +55°C(no freezing) keep the air flowing around the illuminated pushbutton
Operating Humidity		45 ~ 85%RH(no condensation)
Contact Resistance		≤50mΩ
Insulation Resistance		≥100MΩ
Dielectric Strength		3000 V, AC 50Hz
Vibration Resistance		50Hz,Amplitude 1.0mmp-p
Shock Resistance		≥10g
Life	Mechanical	Momentary type:≥1,000,000 times; Alternate type and selector type:≥500,000 times Key-lock type and emergency type:≥200,000times
	Electrical	≥50,000 times
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) K type:about 3.8mm(pushbutton)

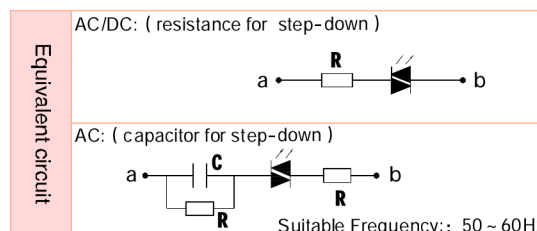
Switch Ratings

Rated Insulation Voltage Ui			500V					
Thermal Current Ith			10A					
Rated Voltage			24V	48V	110V	220V	380V	500V
Operating current	AC	AC-12 resistive load and Semiconductor load control	10A	—	10A	6A	—	—
		AC-15 electronic load control (>72VA)	10A	—	6A	3A	1.8A	1.4A
	DC	DC-12 resistive load and Semiconductor load control	8A	4A	2.2A	1.1A	—	—
		DC-13 electronic load control	4A	2A	1.1A	0.6A	—	—
Contact material			Silver alloy					

Minimum load: 3V AC/DC,5mA (Application scope depends on operating environment and load type)

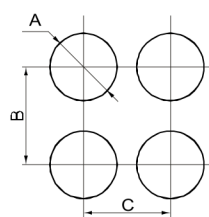
Lamp Ratings

Lamp type	AC LED Lamp				
Rated voltage	AC/DC 6V	AC/DC 12V	AC/DC110V	AC/DC220V	AC/DC380V
	AC/DC 24V		AC 110V	AC 220V	AC 380V
rated current	≤20mA				
Life	40,000 hours				
Color	R G Y O B W				



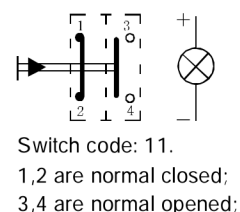
Note: 1.The lamp contains current-limiting resistor inside and doesn't need connect outside.
2. The standard is using AC/DC LED lamp,DC LED lamp, dual-color LED lamp and other voltages can be customized.

Mounting hole Dimension

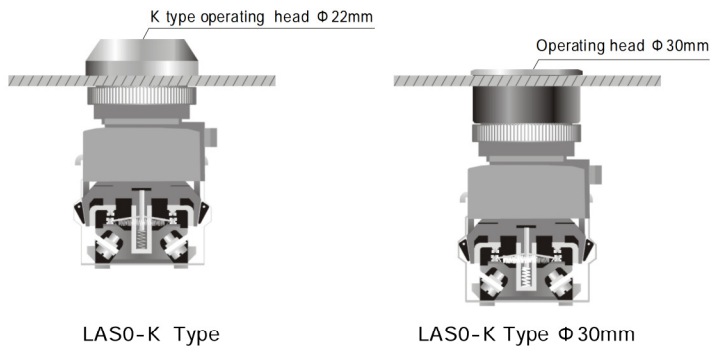


Model	A	B	C	Mark
Normal pushbutton	Φ22.5	≥50	≥35	1. Unit: mm 2. Band C both are the minimum size.
Selector, key switch	or Φ25.5	≥50	≥35	
Mushroom	or	≥50	≥42	
Big mushroom	Φ30.5	≥70	≥70	

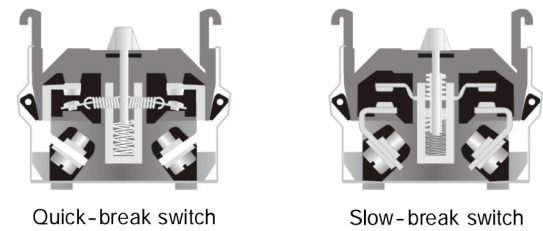
Circuit diagram



Structure Charts



Switch Base Diagram



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

A. The Contact Pair's Close-open State Chart of 2-position Selector Switch.

Number	Model Type	↻	↻
1	LAS0-K-11■/2◆	○ ○ ● ●	● ● ○ ○
2	LAS0-K-02■/2◆	● ● ● ●	○ ○ ○ ○
3	LAS0-K-20■/2◆	○ ○ ○ ○	● ● ● ●
4	LAS0-K-22■/2◆	○ ○ ● ● ○ ○ ● ●	● ● ○ ○ ● ● ○ ○
5	LAS0-K-13■/2◆	● ● ● ● ● ● ○ ○	○ ○ ○ ○ ○ ○ ● ●
6	LAS0-K-31■/2◆	○ ○ ○ ○ ○ ○ ● ●	● ● ● ● ○ ○ ○ ○
7	LAS0-K-04■/2◆	● ● ● ● ● ● ● ●	○ ○ ○ ○ ○ ○ ○ ○
8	LAS0-K-40■/2◆	○ ○ ○ ○ ○ ○ ○ ○	● ● ● ● ● ● ● ●
9	LAS0-K-42■/2◆	● ● ● ● ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ● ● ● ● ○ ○ ○ ○
10	LAS0-K-24■/2◆	○ ○ ○ ○ ● ● ● ● ○ ○ ○ ○	● ● ● ● ○ ○ ○ ○ ○ ○ ○ ○
11	LAS0-K-06■/2◆	● ● ● ● ● ● ● ● ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○
12	LAS0-K-60■/2◆	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	● ● ● ● ● ● ● ● ○ ○ ○ ○
13	LAS0-K-33■/2◆	○ ○ ● ● ○ ○ ● ● ○ ○ ● ●	● ● ○ ○ ● ● ○ ○ ● ● ○ ○
14	LAS0-K-15■/2◆	● ● ● ● ● ● ● ● ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○
15	LAS0-K-51■/2◆	○ ○ ● ● ○ ○ ○ ○ ○ ○ ○ ○	● ● ● ● ○ ○ ○ ○ ○ ○ ○ ○

B. The Contact Pair's Close-open State Chart of 3-position Selector Switch.


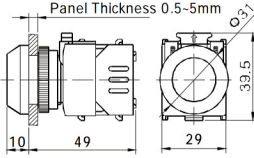


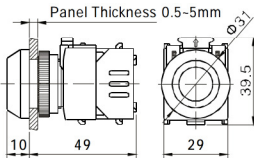


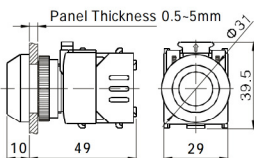


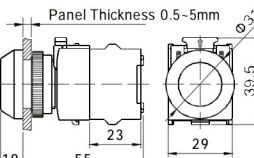


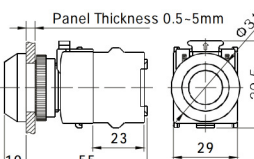


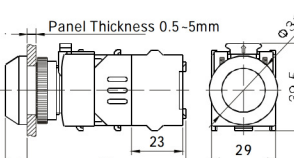


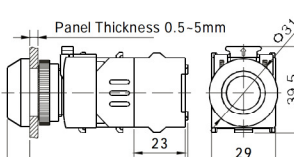

Number	Model Type	↻	↻	↻
1	LAS0-K-11■/3◆	● ● ● ●	○ ○ ● ●	○ ○ ○ ○
2	LAS0-K-02■/3◆	○ ○ ● ●	● ● ● ●	● ● ○ ○
3	LAS0-K-20■/3◆	● ● ○ ○	○ ○ ○ ○	○ ○ ● ●
4	LAS0-K-22■/3◆	○ ○ ● ● ○ ○ ● ●	● ● ● ● ○ ○ ○ ○	● ● ○ ○ ○ ○ ● ●
5	LAS0-K-13■/3◆	● ● ● ● ○ ○ ● ●	○ ○ ● ● ○ ○ ● ●	○ ○ ○ ○ ○ ○ ● ●
6	LAS0-K-31■/3◆	● ● ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ● ●	○ ○ ● ● ○ ○ ○ ○
7	LAS0-K-04■/3◆	○ ○ ● ● ○ ○ ● ●	● ● ● ● ● ● ● ●	● ● ○ ○ ○ ○ ○ ○
8	LAS0-K-40■/3◆	● ● ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○	○ ○ ● ● ○ ○ ● ●
9	LAS0-K-42■/3◆	○ ○ ● ● ○ ○ ○ ○ ○ ○ ○ ○	● ● ● ● ○ ○ ○ ○ ○ ○ ○ ○	● ● ○ ○ ○ ○ ● ● ○ ○ ● ●
10	LAS0-K-24■/3◆	● ● ○ ○ ○ ○ ● ● ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ● ● ○ ○ ● ● ○ ○ ○ ○
11	LAS0-K-06■/3◆	○ ○ ● ● ○ ○ ● ● ○ ○ ○ ○	● ● ● ● ● ● ● ● ○ ○ ○ ○	● ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○
12	LAS0-K-60■/3◆	● ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ● ● ○ ○ ● ● ○ ○ ○ ○
13	LAS0-K-33■/3◆	● ● ● ● ○ ○ ● ● ○ ○ ● ●	○ ○ ● ● ○ ○ ● ● ○ ○ ● ●	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○
14	LAS0-K-15■/3◆	○ ○ ● ● ○ ○ ● ● ○ ○ ● ●	● ● ● ● ○ ○ ○ ○ ○ ○ ○ ○	● ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○
15	LAS0-K-51■/3◆	● ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	○ ○ ● ● ○ ○ ● ● ○ ○ ○ ○

Note: 1. ○ ○ express open state, ● ● express close state.

2. Not all the contact state show in the table. If you need other contact state, please tell us

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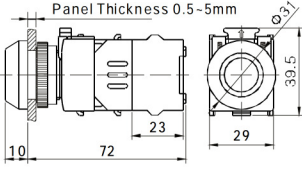


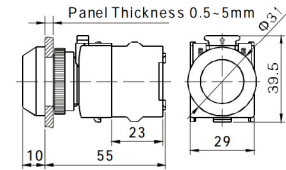

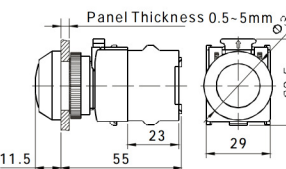

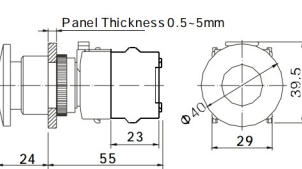


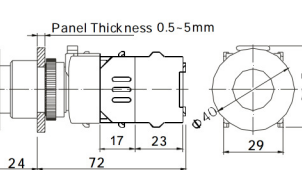


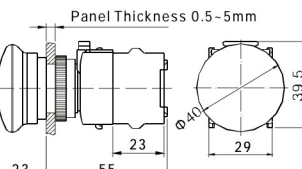


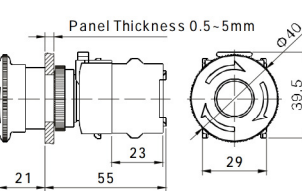

Product Outline

Shape	Operating Type	Type Number	Dimension	Remark
	Pilot Lamp	LAS0-K-D/ Δ / \blacktriangle / \odot		 Protective Degree: IP40, IP65
	transparent ring pilot lamp	LAS0-K-EA/ Δ / \blacktriangle / \odot		 Protective Degree: IP40, IP65
	Colored ring pilot lamp	LAS0-K-EB/ Δ / \blacktriangle / \odot		 Protective Degree: IP40, IP65
	Momentary	LAS0-K- \square / Δ / \odot		 Protective Degree: IP40, IP65
	Alternated	LAS0-K- \square Z/ Δ / \odot		
	Momentary	LAS0-K- \square EB/ Δ / \odot		 Protective Degree: IP40, IP65
	Alternate	LAS0-K- \square ZEB/ Δ / \odot		
	Momentary	LAS0-K- \square D/ Δ / \blacktriangle / \odot		 Protective Degree: IP40, IP65
	Alternate	LAS0-K- \square ZD/ Δ / \blacktriangle / \odot		
	transparent ring, momentary	LAS0-K- \square EA/ Δ / \blacktriangle / \odot		 Protective Degree: IP40, IP65
	transparent ring, alternate	LAS0-K- \square ZEA/ Δ / \blacktriangle / \odot		



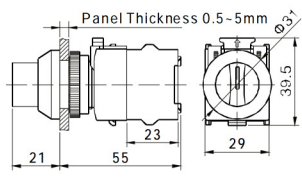






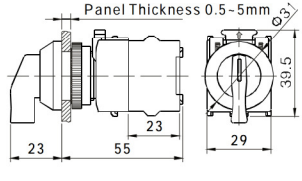






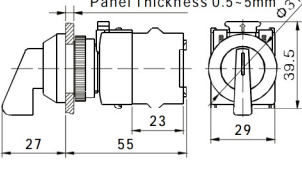






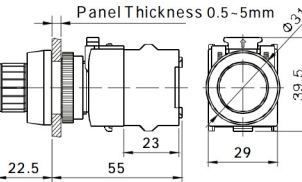






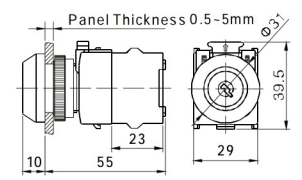





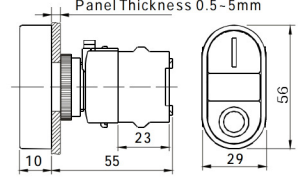
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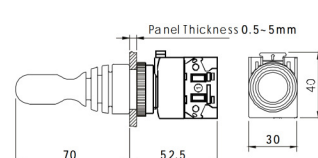

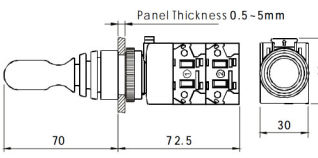
Product Outline

Shape	Operating Type	Type Number	Dimension	Remark
Ring Illum 	Colored ring, momentary	LAS0-K-□EB/△/▲/◎		 ◎ Protective Degree: IP40, IP65
	Colored ring, alternate	LAS0-K-□ZEB/△/▲/◎		
Metal Flat Head 	Momentary	LAS0-K-□P/◎		◎ Protective Degree: IP40, IP65
	Alternate	LAS0-K-□ZP/◎		
Metal Domed Head 	Momentary	LAS0-K-□Q/◎		◎ Protective Degree: IP40, IP65
	Alternate	LAS0-K-□ZQ/◎		
A Type Mushroom 	Momentary	LAS0-K-□MA/△/◎		 ◎ Protective Degree: IP40, IP65
	Alternate	LAS0-K-□ZMA/△/◎		
A Type Illuminated Mushroom 	Momentary	LAS0-K-□MA/△/▲/◎		 ◎ Protective Degree: IP40, IP65
	Alternate	LAS0-K-□ZMA/△/▲/◎		
B Type Mushroom 	Momentary	LAS0-K-□MB/△/◎		 ◎ Protective Degree: IP40, IP65
	Alternate	LAS0-K-□ZMB/△/◎		
A Type Emergency stop switch 	Push-lock Turn-reset	LAS0-K-□TSA/△/◎		 ◎ Protective Degree: IP40, IP65


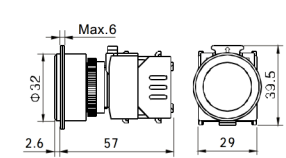


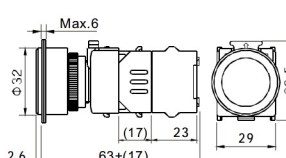


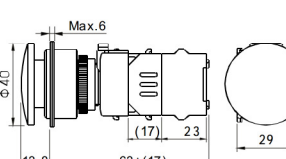


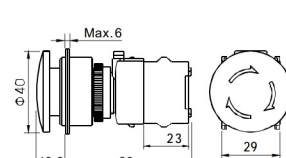

LAS0 series K type pushbutton switch

Shape	Operating Type	Type Number	Dimension	Remark
	 2 position maintain	LAS0-K-□X/21/○		<p>N</p> <p>☉ Protective Degree: IP40, IP65</p>
	 2 position return	LAS0-K-□X/23/○		
	 3 position maintain	LAS0-K-□X/31/○		
	 3 position half return	LAS0-K-□X/32/○		
	 3 position return	LAS0-K-□X/33/○		
	 2 position maintain	LAS0-K-□XA/21/○		<p>N</p> <p>☉ Protective Degree: IP40, IP65</p>
	 2 position return	LAS0-K-□XA/23/○		
	 3 position maintain	LAS0-K-□XA/31/○		
	 3 position half return	LAS0-K-□XA/32/○		
	 3 position return	LAS0-K-□XA/33/○		
	 2 position maintain	LAS0-K-□XB/21/△/○		<p>R G Y N</p> <p>☉ Protective Degree: IP40, IP65</p>
	 2 position return	LAS0-K-□XB/23/△/○		
	 3 position maintain	LAS0-K-□XB/31/△/○		
	 3 position half return	LAS0-K-□XB/32/△/○		
	 3 position return	LAS0-K-□XB/33/△/○		
	 2 position maintain	LAS0-K-□XC/21/○		<p>☉ Protective Degree: IP40, IP65</p>
	 2 position return	LAS0-K-□XC/23/○		
	 3 position maintain	LAS0-K-□XC/31/○		
	 3 position half return	LAS0-K-□XC/32/○		
	 3 position return	LAS0-K-□XC/33/○		
	 2 position maintain	LAS0-K-□Y/21/△/○		<p>R G N</p> <p>☉ Protective Degree: IP40, IP65</p> <p>☉ Key can be customized unremovable at assigned position.</p>
	 2 position return	LAS0-K-□Y/23/△/○		
	 3 position maintain	LAS0-K-□Y/31/△/○		
	 3 position half return	LAS0-K-□Y/32/△/○		
	 3 position return	LAS0-K-□Y/33/△/○		
	Double position	LAS0-K-□S/▲		<p>R G</p> <p>☉ Protective Degree: IP40</p>

LAS0 Series K type Rocker Switch

Shape	Operating Type	Type Number	Dimension	Remark
 Rocker Switch 2 Position	Two position rocker operation	LAS0-K-□C 21		N Protective Degree: IP67
	Two position return rocker operation	LAS0-K-□C 23		
 Rocker Switch 4 Position	Four position rocker operation	LAS0-K-□C 41		N Protective Degree: IP67
	Four position return rocker position	LAS0-K-□C 43		


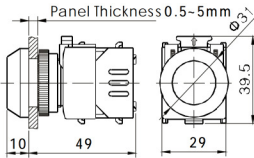


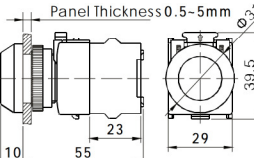


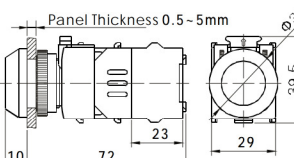



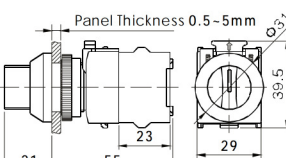







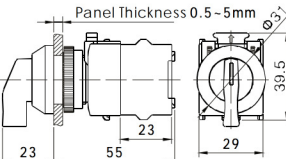







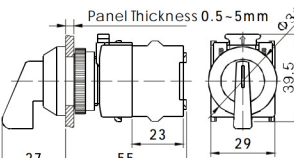







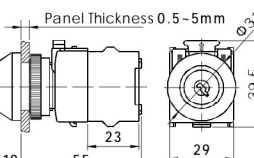





LAS0 Series K Type Pushbutton Switch(Φ 30mm)

Shape	Operating Type	Type Number	Dimension	Remark
 Pilot Lamp	Pilot Lamp	LAS0-K-D30/△/▲		
 Round Flat (can be illuminated)	Momentary	LAS0-K-□30/△/▲		 The black can't be used with lamp
	Latching	LAS0-K-□■30/△/▲		
 Mushroom (can be illuminated)	Momentary	LAS0-K-□M30/△/▲		 Head Dimension: Φ 40mm, Φ 60mm
	Latching	LAS0-K-□ZM30/△/▲		
 Emergency Stop	Push-lock Turn-reset	LAS0-K-□TS30/△		 Head Dimension: Φ 40mm

LAS0 series K type pushbutton switch



Product Outline of Economical Type

Shape	Operating Type	Type Number	Dimension	Remark
	Pilot Lamp	LAS0-KE-D/ Δ / \blacktriangle / \odot		 Protective Degree: IP40, IP65
	Momentary	LAS0-KE- \square / Δ / \odot		 Protective Degree: IP40, IP65
	Alternate	LAS0-KE- \square Z/ Δ / \odot		
	Momentary	LAS0-KE- \square D/ Δ / \blacktriangle / \odot		 Protective Degree: IP40, IP65
	Alternate	LAS0-KE- \square ZD/ Δ / \blacktriangle / \odot		
	 2 position maintain	LAS0-KE- \square X/21/ \odot		 Protective Degree: IP40, IP65
	 2 position return	LAS0-KE- \square X/23/ \odot		
	 3 position maintain	LAS0-KE- \square X/31/ \odot		
	 3 position half return	LAS0-KE- \square X/32/ \odot		
	 3 position return	LAS0-KE- \square X/33/ \odot		
	 2 position maintain	LAS0-KE- \square XA/21/ \odot		 Protective Degree: IP40, IP65
	 2 position return	LAS0-KE- \square XA/23/ \odot		
	 3 position maintain	LAS0-KE- \square XA/31/ \odot		
	 3 position half return	LAS0-KE- \square XA/32/ \odot		
	 3 position return	LAS0-KE- \square XA/33/ \odot		
	 2 position maintain	LAS0-KE- \square XB/21/ Δ / \odot		 Protective Degree: IP40, IP65
	 2 position return	LAS0-KE- \square XB/23/ Δ / \odot		
	 3 position maintain	LAS0-KE- \square XB/31/ Δ / \odot		
	 3 position half return	LAS0-KE- \square XB/32/ Δ / \odot		
	 3 position return	LAS0-KE- \square XB/33/ Δ / \odot		
	 2 position maintain	LAS0-KE- \square Y/21/ Δ / \odot		 Protective Degree: IP40, IP65
	 2 position return	LAS0-KE- \square Y/23/ Δ / \odot		
	 3 position maintain	LAS0-KE- \square Y/31/ Δ / \odot		
	 3 position half return	LAS0-KE- \square Y/32/ Δ / \odot		
	 3 position return	LAS0-KE- \square Y/33/ Δ / \odot		

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