

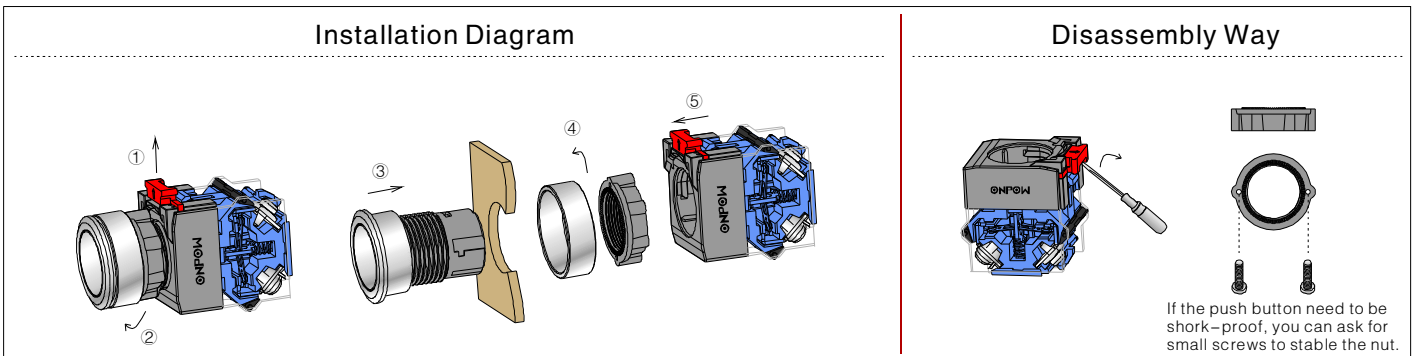
**LAS0 Series K30 Type Push Button Switch**

**Product specialty**

- ⊙ Oversized buttons, beautiful and comfortable operation.
- ⊙ Low flat head, button switch head under 3mm.
- ⊙ Inside symbol type of the head, which can engraved symbol and decided dire
- ⊙ The metal head of the push button and emergency switch, it' s beautiful and upper grade.
- ⊙ The installation is efficient and convenient, the structure is firm and reliable.
- ⊙ Wide varieties and varias types to choose.

**Applied Range**

- ⊙ Rail transportation industry
- ⊙ Machine tool industry
- ⊙ Engineering machinetry
- ⊙ Ship industry
- ⊙ Oil industry
- ⊙ Power transmission and distribution

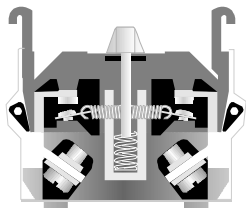


**Implication of Type**

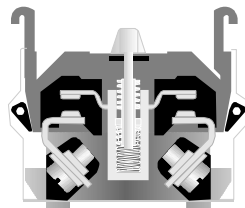
<b>LAS0-K30</b> - □ ■ / ◇ ◆ / △ / ▲ / ☆	<b>Code of series and code of variety</b>	<b>Contact Structure:</b> 10 1NO 01 1NC 11 1NO1NC 22 2NO2NC 33 3NO3NC 44 4NO4NC  <i>PS: If you need "slow motion structure", please add M in front of the number.</i>	<b>Operation Type:</b> no letter means momentary. D Pilot lamp EA Transparent ring pilot lamp EB Colored ring pilot lamp P Metal actuator Z Latching push button ZEA Latching transparent ring illuminated ZEB Latching colored ring illuminated ZP Latching metal actuator X Selector switch XB B type lever switch MA A type mushroom MB B type mushroom MC C type mushroom YA A type key switch YB B type key switch YTS Key emergency stop TSA A type emergency stop TSC C type emergency stop TSD D type emergency stop	<b>◇: Operation position of selector and key-lock switch:</b> 2 Two positions 3 Three positions <b>◆: Operation type:</b> 1 Maintain 2 Half return 3 self return	<b>Color:</b> R Red G Green Y Yellow O Orange B Blue W White N Black	<b>LED voltage</b> (Refer "Lamp Ratings")	<b>The material of front cust</b> S Stainless steel  <small>PS: No letter means the material of the front cust is alluminium alloy. The stainless steel is just for indicator, momenatry and latching push button, selector switch, C type mushroom, D type emergency stop can be choosed.</small>
---	---	---	--	--	---	--	---

ps: Matel actuator for the ring illuminated and singel lamp, the material of the actuator is only Aluminium alloy now, if you need other material can be customized.

## Switch Base Diagram



Quick-break Switch  
(Default blue)



Slow-break Switch  
(Default green)

If you need "slow motion structure", please add "M" in the front of the model number.

## Specification

Operation Temperature	-25°C ~ +55°C (no freezing) keep the air flowing around the illuminated pushbutton
Operation Humidity	45 ~ 85%RH (no condensation)
Contact Resistance	$\leq 50m\Omega$
Insulation Resistance	$\geq 100M\Omega$
Dielectric Strength	3000V, AC50Hz
Vibration Resistance	50Hz, Amplitude 1.0mm-p
Shock Resistance	> 10g
Life	Machanical
	Electrical
Terminal	Thread connection, diameter of weld wire: 2 x 1.5mm max Pin terminal: 6.3 x 0.8mm
Operation Force	800gf~2200gf, according to the quantity of switch units
Operation Travel	about 3.8mm (pushbutton)

## Switch Rating

Rated Insulation Voltage $U_i$			500V					
Thermal Current $I_{th}$			10A temperature not exceeding the maximum rated current as permitted					
Rated Voltage			24V	48V	110V	220V	380V	500V
operation current	AC 50/60HZ	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					

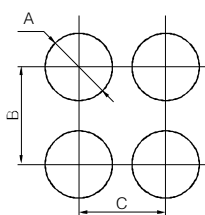
Minimum load: 3V AC/DC, 5mA ( Application scope depends on environment and load type)

## Lamp Ratings

Lamp type	AC LED Lamp					Equivalent circuit
Rated voltage	AC/DC 6V	AC/DC 12V	AC/DC 110V	AC/DC 220V	AC/DC 380V	
Rated current	AC/DC 24V					
Life	$\leq 20mA$					
Minimum load	40,000 hours					

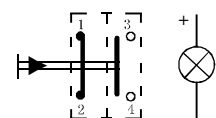
PS: 1. This lamp contains current-limiting resistor inside and doesn't need connect outside.  
2. The standard is using AC/DC LED lamp. DC LED lamp, dual-color LED lamp and other voltages can be customized.

## Mounting Hole Dimension




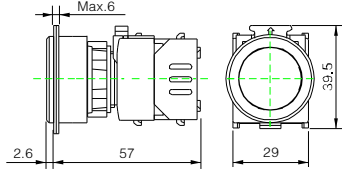

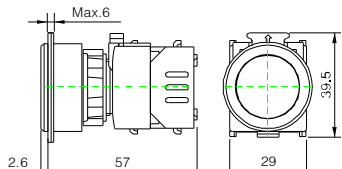

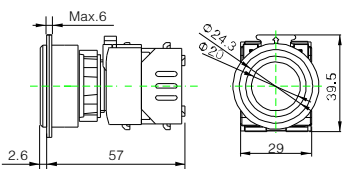

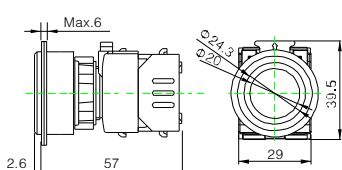

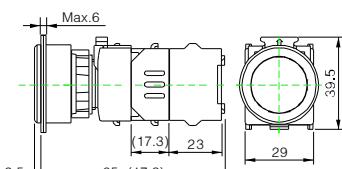

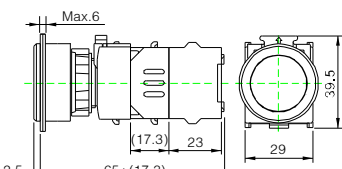

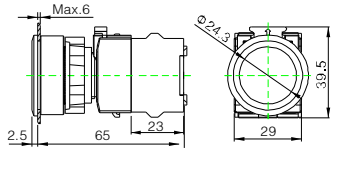
Model	A	B	C	Mark
Normal pushbutton	$\Phi 30.5$	$\geq 50$	$\geq 35$	1、Unit:mm 2、B and C are both the minimum size.
Selector, key switch		$\geq 50$	$\geq 35$	
Mushroom		$\geq 50$	$\geq 42$	
Big mushroom		$\geq 70$	$\geq 70$	

## Circuit diagram


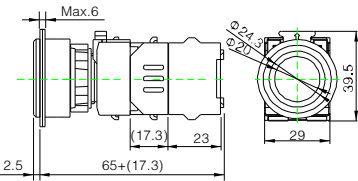

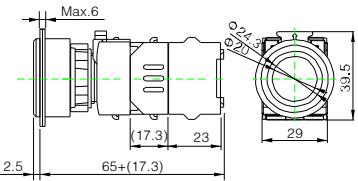


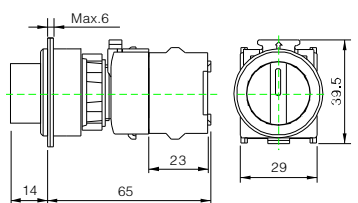






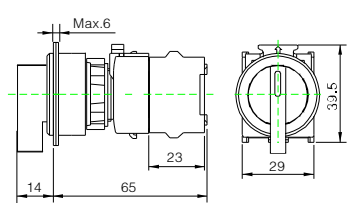






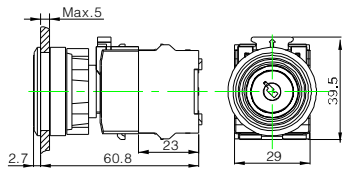




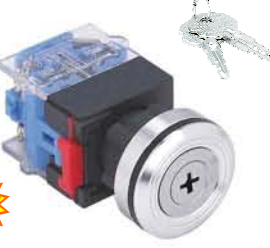

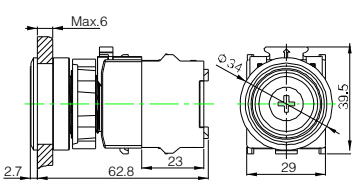






Switch code: 11.  
1, 2 are normal closed NC;  
3, 4 are normal opened NO;

The switch contact state diagram of the selector and the key-lock.

Shape	Operating Type	Part Number	Dimension	Remarks
 Signal lamp	Signal lamp	LAS0-K30-D/ $\Delta$ / $\blacktriangle$		⦿ Color: ( $\Delta$ ): <span style="color:red">R</span> <span style="color:green">G</span> <span style="color:yellow">Y</span> <span style="color:blue">B</span> <span style="color:black">W</span> ⦿ IP degree: IP40、IP65
 Stainless steel Signal lamp	stainless steel front case Signal lamp	LAS0-K30-D/ $\Delta$ / $\blacktriangle$ /S		
 Ring signal lamp	Signal lamp	LAS0-K30-EA/ $\Delta$ / $\blacktriangle$		
 Ring signal lamp	Signal lamp	LAS0-K30-EB/ $\Delta$ / $\blacktriangle$		
 Flat head pushbutton (can be illuminated)	Momentary	LAS0-K30- $\square$ / $\Delta$ / $\blacktriangle$		
	Latching	LAS0-K30- $\square$ Z/ $\Delta$ / $\blacktriangle$		
 Stainless steel Flat head pushbutton (can be illuminated)	stainless steel front case Momentary	LAS0-K30- $\square$ / $\Delta$ / $\blacktriangle$ /S		
	stainless steel front case Latching	LAS0-K30- $\square$ Z/ $\Delta$ / $\blacktriangle$ /S		
 Flat head Metal pushbutton	Momentary	LAS0-K30- $\square$ P		
	Latching	LAS0-K30- $\square$ ZP		

Contact Structure( $\square$ ): 10 /01/ 11 /22 /33 /44 LED Voltage( $\blacktriangle$ ):12V/24V/110V/220V

Shape	Operating Type	Part number	Dimension	Remarks
 <p><b>NEW</b> Flat head Metal pushbutton (can be illuminated)</p>	Momentary	LAS0-K30-□EA/Δ/▲		○ Color: (Δ): ■ R ■ G ■ Y ■ C ■ B ■ W ○ IP degree: IP40, IP65
	Latching	LAS0-K30-□ZEA/Δ/▲		
 <p><b>NEW</b> Flat head Metal pushbutton (can be illuminated)</p>	Momentary	LAS0-K30-□EB/Δ/▲		
	Latching	LAS0-K30-□ZEB/Δ/▲		
 <p>Selector switch</p>	 2 position maintain	LAS0-K30-□X/21		
	 2 position return	LAS0-K30-□X/23		
	 3 position maintain	LAS0-K30-□X/31		
	 3 position half return	LAS0-K30-□X/32		
	 3 position return	LAS0-K30-□X/33		
 <p>Selector switch with handle</p>	 2 position maintain	LAS0-K30-□XB/21		
	 2 position return	LAS0-K30-□XB/23		
	 3 position maintain	LAS0-K30-□XB/31		
	 3 position half return	LAS0-K30-□XB/32		
	 3 position return	LAS0-K30-□XB/33		
 <p>key switch</p>	 2 position maintain	LAS0-K30-□YA/21		
	 2 position return	LAS0-K30-□YA/23		
	 3 position maintain	LAS0-K30-□YA/31		
	 3 position half return	LAS0-K30-□YA/32		
	 3 position return	LAS0-K30-□YA/33		
 <p><b>NEW</b> cross-shaped key switch</p>	 2 position maintain	LAS0-K30-□YB/21		
	 2 position return	LAS0-K30-□YB/23		
	 3 position maintain	LAS0-K30-□YB/31		
	 3 position half return	LAS0-K30-□YB/32		
	 3 position return	LAS0-K30-□YB/33		

Contact Structure(□): 10 /01/ 11 /22 /33 /44 LED Voltage(▲):12V/24V/110V/220V

Shape	Operating Type	Part number	Dimension	Remarks		
<p><b>NEW</b> A type Mushroom pushbutton (can be illuminated)</p>	Metal Mushroom head Momentary	LAS0-K30-□MA/Δ/▲		<ul style="list-style-type: none"> <li>○ Color: (Δ):</li> <li><b>R</b></li> <li>○ Dimension of head: Φ 40mm</li> <li>○ IP degree: IP40、IP65</li> </ul>		
	Metal Mushroom head Latching	LAS0-K30-□ZMA/Δ/▲				
<p><b>NEW</b> B type Mushroom pushbutton (Non-illuminated)</p>	Metal Mushroom head Momentary	LAS0-K30-□MB/Δ				
	Metal Mushroom head Latching	LAS0-K30-□ZMB/Δ				
<p>C type Mushroom pushbutton (can be illuminated)</p>	Momentary	LAS0-K30-□MC/Δ/▲ (same as LAS0-K30-□M/Δ/▲)			<ul style="list-style-type: none"> <li>○ Color: (Δ):</li> <li><b>R G</b></li> <li>○ Dimension of head: Φ 40mm Φ 60mm</li> <li>○ IP degree: IP40、IP65</li> </ul>	
	Latching	LAS0-K30-□ZMC/Δ/▲ (same as LAS0-K30-□ZM/Δ/▲)				
<p><b>NEW</b> Emergency stop switch with keys</p>	Push-lock Key release	LAS0-K30-□YTS				<ul style="list-style-type: none"> <li>○ Color: (Δ):</li> <li><b>R G</b></li> <li>○ Dimension of head: Φ 40mm</li> <li>○ IP degree: IP40、IP65</li> </ul>
	Push-lock Turn-reset	LAS0-K30-□TSA/Δ				
<p><b>NEW</b> Emergency stop switch</p>	Push-lock Turn-reset	LAS0-K30-□TSA/Δ		<ul style="list-style-type: none"> <li>○ Color: (Δ):</li> <li><b>R</b></li> <li>○ Dimension of head: Φ 40mm</li> <li>○ IP degree: IP40、IP65</li> </ul>		
	Metal head Push-lock Turn-reset	LAS0-K30-□TSC/Δ				
<p><b>NEW</b> Metal head Emergency stop switch</p>	Push-lock Turn-reset	LAS0-K30-□TSC/Δ				
	Push-lock Turn-reset	LAS0-K30-□TSD/Δ (same as LAS0-K30-□TTS/Δ)			<ul style="list-style-type: none"> <li>○ Color: (Δ):</li> <li><b>R G</b></li> <li>○ Dimension of head: Φ 36mm</li> <li>○ IP degree: IP40、IP65</li> </ul>	
Emergency stop switch						

Contact Structure(□): 10 /01/ 11 /22 /33 /44 LED Voltage(▲):12V/24V/110V/220V