

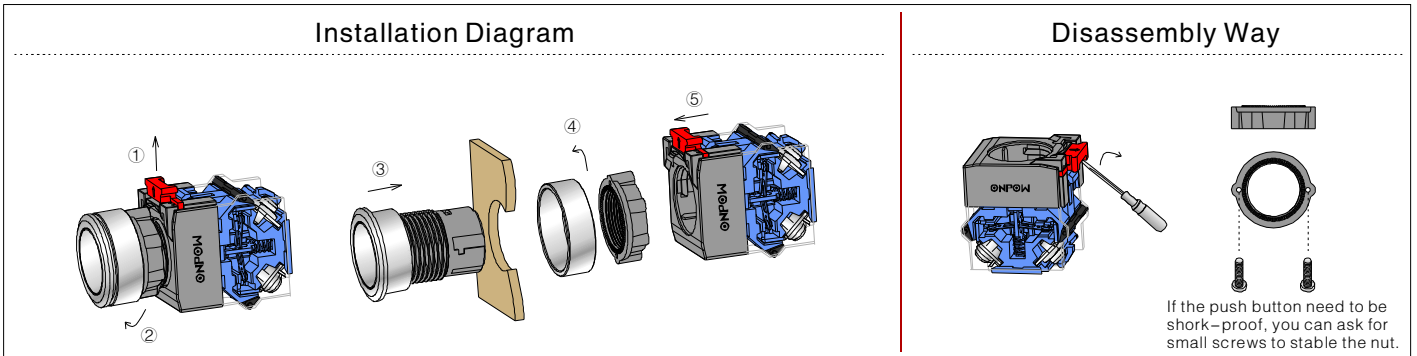
LAS0 Series K30 Type Push Button Switch

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

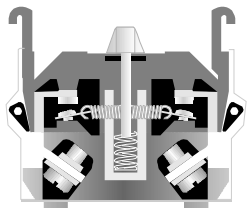


Implication of Type

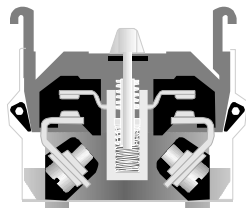
<p>LAS0-K30 - □ ■ / ◇ ◆ / △ / ▲ / ☆</p>	<p>Code of series and code of variety</p> <p>Contact Structure: 10 1NO 01 1NC 11 1NO1NC 22 2NO2NC 33 3NO3NC 44 4NO4NC PS: If you need "slow motion structure", please add M in front of the number.</p>	<p>Operation Type: no letter means momentary. D Pilot lamp EA 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</p>	<p>◇: Operation position of selector and key-lock switch: 2 Two positions 3 Three positions ◆: Operation type: 1 Maintain 2 Half return 3 self return</p>	<p>Color: R Red G Green Y Yellow O Orange B Blue W White N Black</p>	<p>LED voltage (Refer "Lamp Ratings")</p>	<p>The material of front cust S Stainless steel 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.</p>
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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	$\leq 50\text{m}\Omega$
Insulation Resistance	$\geq 100\text{M}\Omega$
Dielectric Strength	3000V, AC50Hz
Vibration Resistance	50Hz, Amplitude 1.0mm p-p
Shock Resistance	> 10g
Life	Mechanical
	Electrical
Terminal	Thread connection, diameter of weld wire: $2 \times 1.5\text{mm}$ max Pin terminal: $6.3 \times 0.8\text{mm}$
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	
	AC/DC 24V		AC 110V	AC 220V	AC 380V	
Rated current	$\leq 20\text{mA}$					
Life	40,000 hours					
Minimum load						

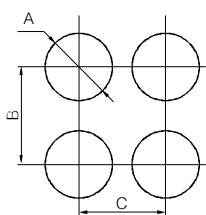
AC/DC: (resistance for step-down)

AC: (capacitor for step-down)

Applicable Frequency: 50 ~ 60Hz

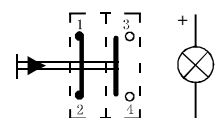
PS: 1. This lamp contains current-limiting resistor inside and doesn't need connect outside.
2. The standard is using AC/DC LED lamp. DC LED lamp, dual-color LED lamp and other voltages can be customized.

Mounting Hole Dimension




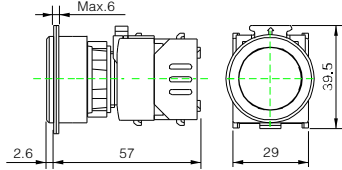

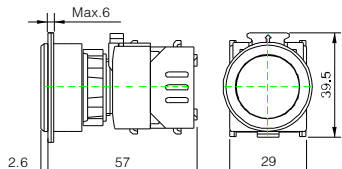

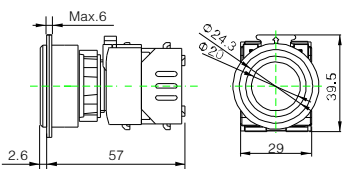

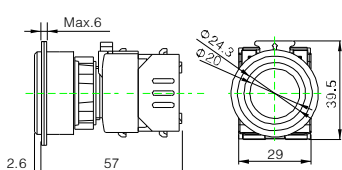

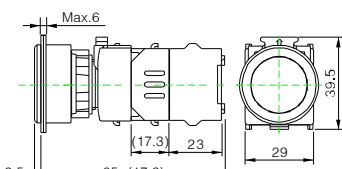

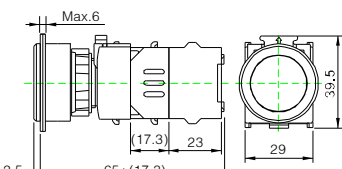

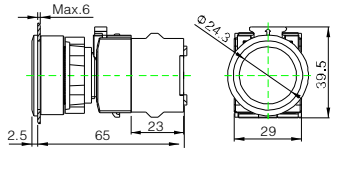
Model	A	B	C	Mark
Normal pushbutton	$\Phi 30.5$	≥ 50	≥ 35	1、Unit:mm 2、B and C are both the minimum size.
Selector, key switch		≥ 50	≥ 35	
Mushroom		≥ 50	≥ 42	
Big mushroom		≥ 70	≥ 70	

Circuit diagram


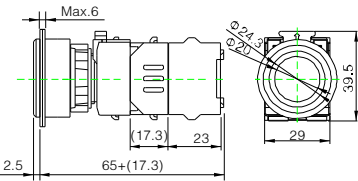

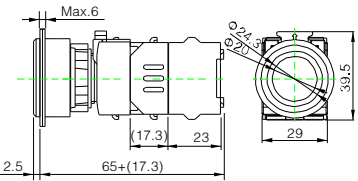


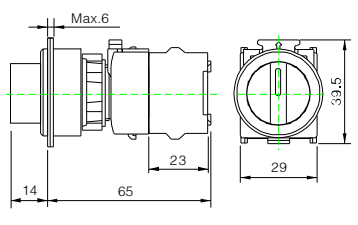












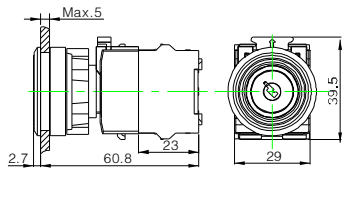




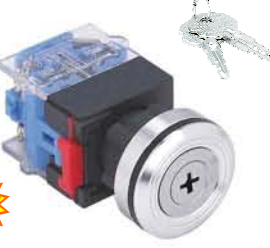







Switch code: 11.
1, 2 are normal closed NC;
3, 4 are normal opened NO;

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/ Δ / \blacktriangle		⦿ Color: (Δ): R G Y B W ⦿ IP degree: IP40、IP65
 Stainless steel Signal lamp	stainless steel front case Signal lamp	LAS0-K30-D/ Δ / \blacktriangle /S		
 Ring signal lamp	Signal lamp	LAS0-K30-EA/ Δ / \blacktriangle		
 Ring signal lamp	Signal lamp	LAS0-K30-EB/ Δ / \blacktriangle		
 Flat head pushbutton (can be illuminated)	Momentary	LAS0-K30- \square / Δ / \blacktriangle		
	Latching	LAS0-K30- \square Z/ Δ / \blacktriangle		
 Stainless steel Flat head pushbutton (can be illuminated)	stainless steel front case Momentary	LAS0-K30- \square / Δ / \blacktriangle /S		
	stainless steel front case Latching	LAS0-K30- \square Z/ Δ / \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>NEW Flat head Metal pushbutton (can be illuminated)</p>	Momentary	LAS0-K30-□EA/Δ/▲		<ul style="list-style-type: none"> ○ Color: (Δ): R G Y B W ○ IP degree: IP40, IP65
	Latching	LAS0-K30-□ZEA/Δ/▲		
 <p>NEW 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		
 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>NEW 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>NEW A type Mushroom pushbutton (can be illuminated)</p>	Metal Mushroom head Momentary	LAS0-K30-□MA/Δ/▲		<ul style="list-style-type: none"> ○ Color: (Δ): R ○ Dimension of head: Φ40mm ○ IP degree: IP40、IP65 		
	Metal Mushroom head Latching	LAS0-K30-□ZMA/Δ/▲				
<p>NEW 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"> ○ Color: (Δ): R G ○ Dimension of head: Φ40mm Φ60mm ○ IP degree: IP40、IP65 	
	Latching	LAS0-K30-□ZMC/Δ/▲ (same as LAS0-K30-□ZM/Δ/▲)				
<p>NEW Emergency stop switch with keys</p>	Push-lock Key release	LAS0-K30-□YTS				<ul style="list-style-type: none"> ○ Color: (Δ): R G ○ Dimension of head: Φ40mm Φ60mm ○ IP degree: IP40、IP65
<p>NEW Emergency stop switch</p>	Push-lock Turn-reset	LAS0-K30-□TSA/Δ				
<p>NEW Metal head Emergency stop switch</p>	Metal head Push-lock Turn-reset	LAS0-K30-□TSC/Δ				
<p>Emergency stop switch</p>	Push-lock Turn-reset	LAS0-K30-□TSD/Δ (same as LAS0-K30-□TTS/Δ)		<ul style="list-style-type: none"> ○ Color: (Δ): R G ○ Dimension of head: Φ36mm ○ IP degree: IP40、IP65 		

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