Button Switch LAK39 Series

LAK39C (LA39/LA38) Button Switch Series

LAK39C Button Switch is suitable for remote control of electromagnetic starter contactors, relays and other electrical circuits with AC 50Hz (or 60Hz) below 660V and DC 440V and below. Those with indicator light find use in occasions for light signal indication.

Working Conditions and Installation

- ♦ Ambient temperature: No. more than $+40^{\circ}$ C. The average temperature of 24h should not exceed $+35^{\circ}$ C, and the lower limit stands at -5° C;
- ◆Altitude: No more than 2,000m;
- •Atmospheric conditions: When the maximum temperature reaches +40°C, the relative humidity of the air should not exceed 50%. Higher relative humidity comes at lower temperatures, such as 90% at 20°C; special measures should be taken for occasional condensation due to temperature changes;
- ◆Pollution level: 3
- ◆Installation category: Category II.

Structure and Features

- ♦ The contact system adopts a lever-type supercritical flip mechanism. Even if the pressing stroke is not enough during operation, as long as it exceeds the critical flip position, it acts quickly and reliably, contact or disconnect. The tension spring ensures that the necessary contact pressure and self-cleaning function make the contact reliable and the arc extinguishing performance good. When the switch is on and off, the metal sheet vibrates and emits a crisp sound, giving the user a signal to let him know whether the command is executed or not;
- ·Combined installation: Flexible, convenient and reliable installation and disassembly; access to two-section switch elements and 1-4 pairs of contacts for 1-14
- ◆Normally open and normally closed are electrically insulated and work with different poles;
- ◆The wiring part is equipped with a partition plate to form a screw pressure wire. Its tile-shaped washer rises or falls as the screw is screwed out or in, making wiring convenient;
- ♦ Oblique screw fixing is not only convenient but also safe and reliable.

Key Technical Parameters

Key Performance Indicators

Rated insulation	AC 600V,50Hz								
Power frequency withstand voltage		AC2500V,50Hz Imin							
Conventional thermal current		10A							
Contact resistance		≤50mΩ							
Protection level		IP40							
Use category		AC-15 DC-13							
Rated working voltage	220V	380V	660V	110V	220V	440V			
Rated working current	4.5A	2.5A	1.5A	0.5A	0.5A	0.2A			

Key Technical Parameters

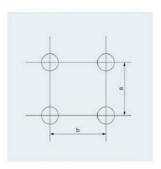
Service life

Name	Item					
	Mechanical life	Electrical life				
General button, lighted button	3 million times	600,000 times				
Knob	300,000 times	100,000 times				
Key button, self-locking button	50,000 times	50,000 times				

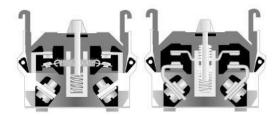
Appearance and Installation Dimensions (mm)

- lacktriangle It takes ϕ 22 to install. The button head should be inserted into the installation hole from the front of the panel, and then screwed into the middle seat behind the panel. The set screws at both ends then should be tightened at the same time (Note: Do not use excessive force, the maximum torque is 25N.cm). Next connect the switch element or lamp holder directly, no other tools are needed. Press the button after installation. Possible stuck is caused by the uneven tightness or over-tightening of the two set screws during installation. Check whether the switch element is fully buckled to address the problem.
- •In case several buttons are installed side by side on the control panel, the distance between the center lines of the copper bar button and the center line distance between the spare row buttons must be less than the values listed in the table below.

None	Size			
Name	a	b		
General button, lighted button, knob, key button	30	50		
Mushroom button, long handle knob, emergency stop button	45	50		



Switch element contact



Status

مام		٠	<u>a a</u>	0 0 0 0	<u>0</u> 0		
Contact	01	10	02	20	11		
	One closed	One open	Two closed	Two open	One open and one closed		

Open-press contacts are a product launched by our factory, which withstands greater current than spring-type contacts.

Lighted button indicator specifications



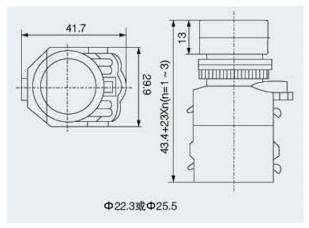
Light source	LED										
Code	21	21 22 23 24 25 26 27 28 31 32									
Power supply	AC.DC AC										
Voltage (V)	6	12	24	36	48	110	127	220	220	380	

Button Switch Model: LAK39C-11 Transient
LAK39C-11T Self-locking

Size: $\phi 22mm$

Color: RGYBW K

Switch combination: NO+NC

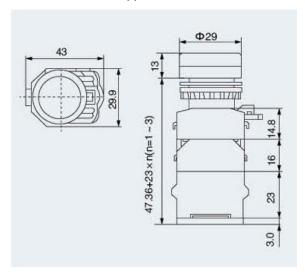


Model: LAK39C-11D Transient

Size: φ22mm Color: **RG** YBW

Switch combination: NO+NC

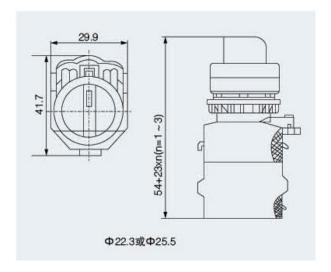
Protection level: IP40 Product Dimensions↓↓



Knob Switch Model: LAK39C-11X/2 Two-position knob

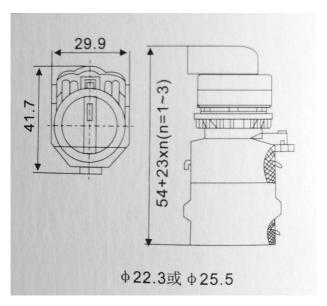
Size: φ22mm Color: G Y K

Protection level: IP40 Product Dimensions↓↓



Knob switch Model: LAK39C-20CX/3 Three-position knob with handle

Size: φ22mm Color: RG YK



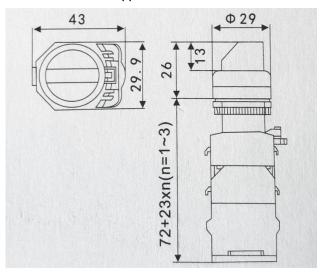
Model: LAK39C-11XD/3

Three-position self-locking LCR

Size: φ Color: GGYW

Lighted knob

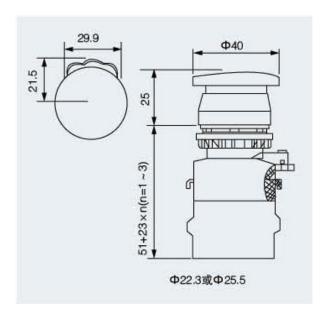
Protection level: IP40 Product Dimensions↓↓



Mushroom button Model: LAK39C-11M Transient

Size: $\phi 22mm$ Color: RGY

Switch combination: NO+NC



Emergency Stop Model: LAK39C-11ZS

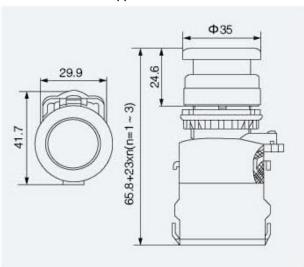
Size: φ Color: 🖪

Switch combination: NO+NC

Protection level: IP40

Press to lock. Turn clockwise to reset

Product Dimensions↓↓



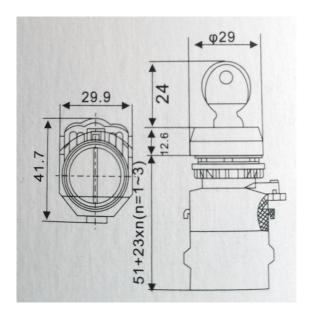
Key Button

Model: LAK39C-11Y/2

Two-position self-locking

g

Size: φ Color:

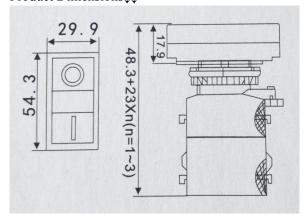


Double-position push button Model: LAK39C-11RG

Size: ϕ Color: 🗓 😉

Switch combination: NO+NC

Protection level: IP40 Product Dimensions↓↓



Button Switch LAK39E Series

LAK39E Series

LAK39E push button switch is suitable for industrial control circuits with AC 50Hz (or 60Hz), rated working voltage up to 380V and DC working voltage 220V. It can be used as remote control in electromagnetic starter contactors, relays and other electrical circuits. Those with indicator light are for occasions where light signals are indicated.

Working Conditions and Technical Reference

 \triangle Air temperature: -5° C $\sim +40^{\circ}$ C

♦Withstand voltage: 2500V,1min

♦Ui Rated insulation voltage: 660v

◆Electrical life: 50 x10

◆Rated working voltage: 380V 220V

◆Rated working current: AC - 15 2.5A

 \triangle Air humidity: 45° C $\sim +85^{\circ}$ C

♦ Contact resistance: $\leq 50 \text{m}\Omega$

◆Ith: 10A

◆Protection level: IP40

110V 48V 24V

4.5A 6A 8A

DC - 13 -0.3A 0.6A 1.3A 2.5

Rated voltage	Direct						Res	istor	Transformer	
Electric light source	6V	12V	24V	48V	110V	220V	380V	220V	220V	380V
LED light	√	1	4	_	_	_	_	-	1	4
Neon light	_	-	-	-	1	1	1	1	-	-
Incandescent light	1	1	1	1	1	1	1	_	1	1

Structure and Performance

The metal button adopts an anti-movement head and cannot be removed from the front;

All contacts have the dual functions of switching circuits and self-cleaning, and can still maintain contact reliability when used at low voltage and low current (5V.5mA);

Normally open and normally closed contact groups are independent of each other and can be combined as needed.

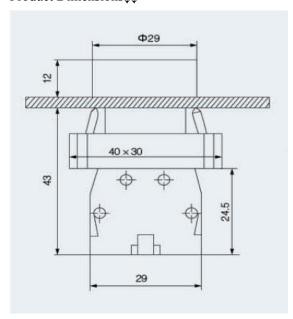
Concealed wiring terminals are safer and more reliable. The metal button operating head and base are made of zinc alloy, with beautiful and sturdy appearance.

The illuminated buttons and signal lights agree to use BA9S lamp holders, and different light sources can be selected as needed.

Button Switch Model: LAK39E-BA31

Size: φ

Color: GG YEWK Swith combination: NO Protection level: IP40 Product Dimensions↓↓

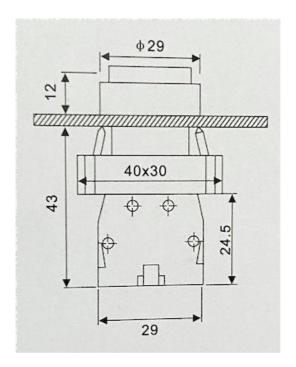


High position button switch Model: LAK39E-BL61

Size: φ

Color: RGYBWK

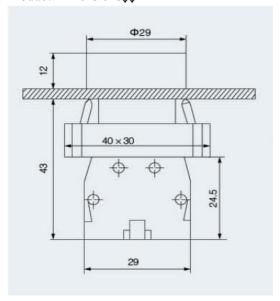
Switch combination: NO Protection level: IP40 Product Dimensions↓↓



Marked Button Switch Model: LAK39E-BA3341

Size: φ Color:

Switch combination: NO Protection level: IP40 Product Dimensions↓↓

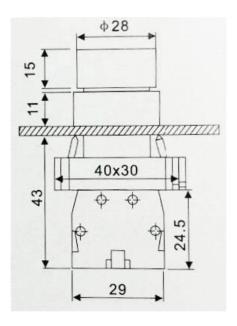


Knob Switch Model: LAK39E-BD21 Two-position lock

Size: φ

Color: RGK

Switch combination: NO Protection level: IP40 Product Dimensions↓↓

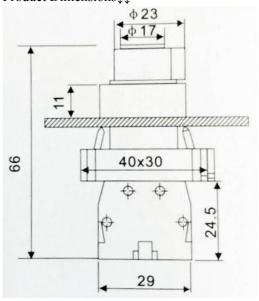


Knob switch with handle Model: LAK39E-BJ33 Three-position lock LCR

Size: φ
Color: 🖺 G Y

Switch combination: 2NO+NO

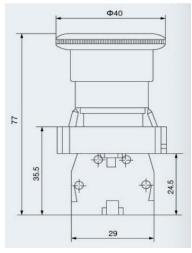
Protection level: IP40 Product Dimensions↓↓



Mushroom button Model: LAK39E-BC31

Size: φ40mm Color: RGYK

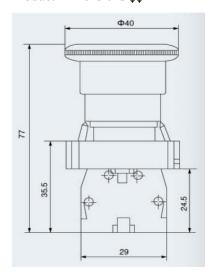
Switch combination: NO Protection level: IP40 Product Dimensions↓↓



Emergency Stop Model: LAK39E-BS542

Size: φ40mm Color:

Switch combination: NC Protection level: IP40 Product Dimensions ↓↓

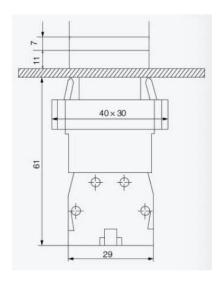


Lighted Button Model: LAK39E-BW3361

Size: φ

Color: RGYBW

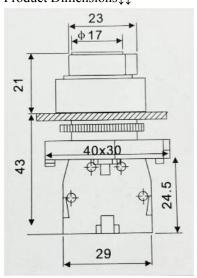
Switch combination Contact Structure: NO



Key Button Model LAK39E-BG21 Two-position lock

Size: φ Color:

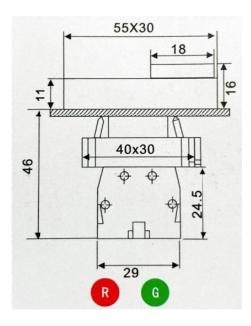
Switch combination: NC Protection level: IP40 Product Dimensions↓↓



Double position button Model: LAK39E-BL8325

Size: φ Color: 🖫 🕞

Switch combination: NO+NC



Double-position lighted button

Model LAK39E-BL8425

Size: φ40 Color: 🖫 🖫

Switch combination: NO+NC

