

## **Pushbutton / Indicator**

**LA39 Series Pushbutton/AD16 Series Indicator**

[www.si-apt.com](http://www.si-apt.com)

# Pushbutton / Indicator

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# APT

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## Pushbutton/Indicator

LA39 Series Pushbutton  
AD16 Series Indicator

CCC CE RoHS





## Company Profile

APT has been established in 1993. Today it is now a Chinese leading manufacturer of low-voltage components and has been specialized in the manufacturing of low voltage products such as pushbuttons, indicators, cam switches and general-purpose relays. In August 2008, Siemens Electrical Apparatus Ltd. Suzhou (hereinafter referred to as “Siemens” ) made the wholly-owned acquisition of APT, putting the APT brand and related products under the operation of Siemens. With unified quality control and R&D resources of Siemens, APT focuses on manufacturing pushbuttons, indicators and other important low-voltage products such as tower lights, control cabinets, combined lights, current transformers and limit switches etc.

Through over 20 years of promotion and application, the APT products have been widely serving dozens of industrial fields in China including power, energy, rail transit, elevator, logistics, machine tool, etc. They have been successively selected and applied in Qinshan Nuclear Power Plant, the Three Gorges Project, Shenzhou V Spacecraft, Qinghai-Tibet Railway locomotives, “Harmony” Electric Multiple Unit, “Fuxing” Electric Multiple Unit, international airports and urban metros and have become the preferred brand for national key projects. At the same time, Siemens gives full play to its international operation experience to continuously enhance the management and business development of APT and better serve the Chinese market through advanced technology and improved product line.



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# APT



## LA39 A/B/C Series Pushbutton

### Product Features

- LA39-(A1B1C1): sharp outline and beautiful lines. It is fixed and installed with oblique screws, which conforms to the rigorous, firm and reliable engineering design concept in Europe and America.
- LA39-(A2B2C2): well-arranged outline, secured with high-strength PBT plastic parts in combination with straight screws, which not only inherits the steady and firm characteristics of A1B1C1, but also takes into account the manufacturing cost. It is a simple form of A1B1C1, which enables users to have a variety of economic options.
- LA39-(A3B3C3): fastened with nuts (with fastening screws), simple and concise, which can lower the installation difficulty and reduce the workload of users.
- LA39-(A4B4C4): fastened with nuts (without fastening screws), which can lower the installation difficulty and reduce the workload of customers.
- LA39-(A5B5C5): structured with one-handed installation, designed with quick installation, which is beneficial to installation in small space.

The reliability of installation will be reduced due to the influence of ambient temperature, so it is suggested that this installation mode shall not be adopted when using rotary working conditions such as selectors and key switches. Knobs shall not be used when choosing C3, and if selectors are selected for A3B3, an anti-rotation washer is needed.

# LA39-A/B/C





## Order code description

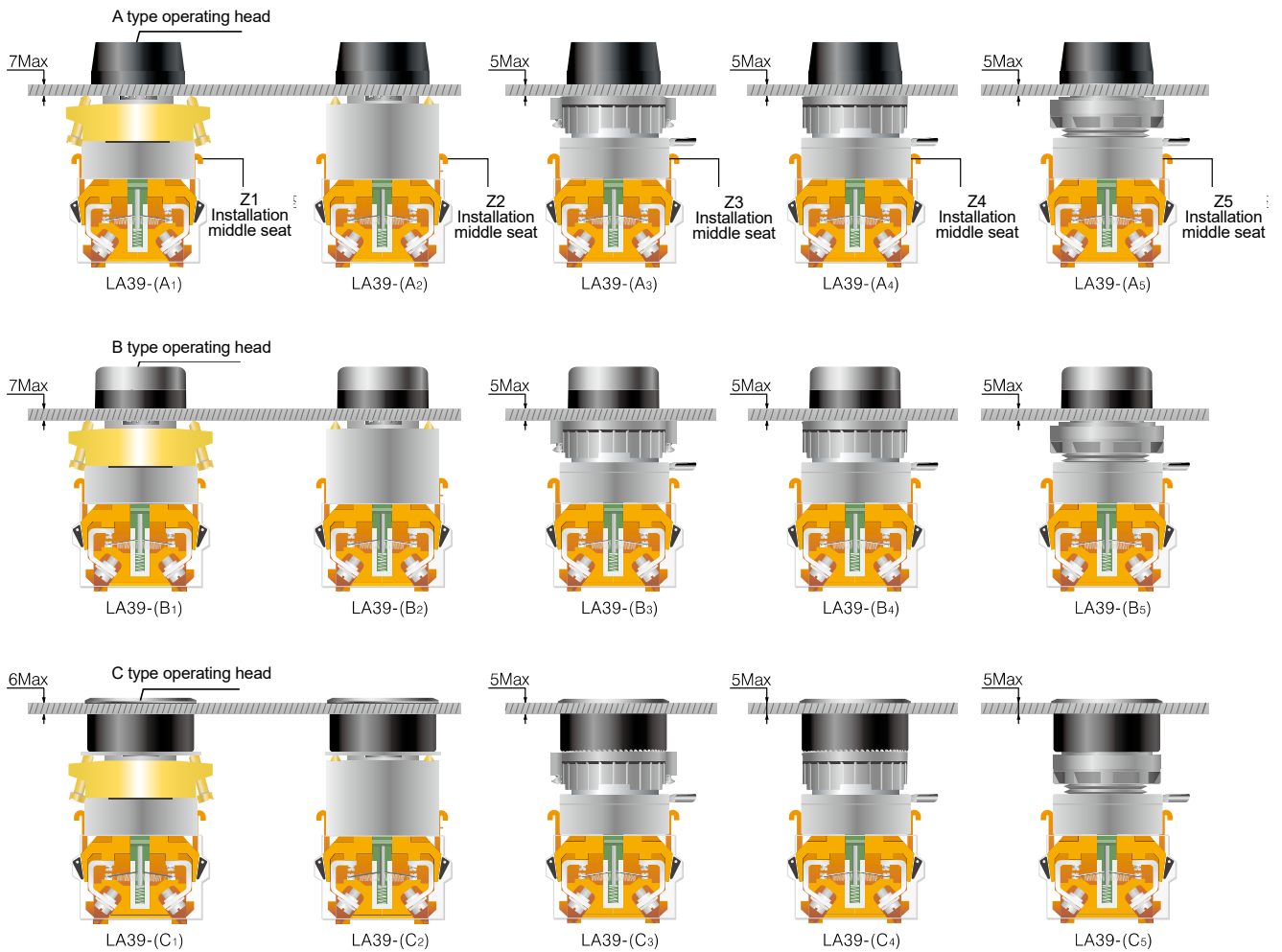
No.	LA 39 — □ □ □ □ □ / □ □ □ □ □										
	1	2	3	4	5	6	7	8	9	10	11
1	Pushbutton order code										
2	Design S/N										
3	Head type A, B, C and middle seat type (1~5)										
4	Contact composition	When 1 switch element is installed:	10: 1NO	01: 1NC	20: 2NO	02: 2NC	11: 1NO1NC				
		When 2 switch elements is installed:	30: 3NO	03: 3NC	40: 4NO	04: 4NC	21: 2NO1NC				
		When 3 switch elements is installed:	60: 6NO	06: 6NC	50: 5NO	05: 5NC	51: 5NO1NC				
			15: 1NO5NC	41: 4NO1NC	14: 1NO4NC	32: 3NO2NC	23: 2NO3NC				
5	Auxiliary order code	<b>No marking:</b> normal button	<b>ZC:</b> trigger-type emergency stop button	<b>MR:</b> rotary latching mushroom button	<b>R:</b> on-off button	<b>F:</b> square button					
		<b>D:</b> illuminated button	<b>ZL:</b> pulling-type emergency stop button	<b>X:</b> short-handle two-position selector	<b>RD:</b> illuminated on-off button	<b>XF:</b> square short-handle two-position selector					
		<b>T:</b> latching button	<b>M:</b> mushroom button	<b>XS:</b> short-handle three-position selector	<b>YS:</b> three-position key switch	<b>XSF:</b> square short-handle three-position selector					
		<b>TD:</b> illuminated latching button	<b>MT:</b> mushroom latching button	<b>XD:</b> illuminated two-position selector	<b>CX:</b> long-handle two-position selector	<b>CXF:</b> square long-handle two-position selector					
		<b>Z:</b> emergency stop button	<b>MD:</b> illuminated mushroom button	<b>XSD:</b> illuminated three-position selector	<b>CXS:</b> long-handle three-position selector	<b>CXSF:</b> square long-handle three-position selector					
		<b>ZY:</b> key resetting emergency stop button		<b>MTD:</b> illuminated mushroom latching button		<b>Y:</b> two-position key switch					
6	Marking code	No marking: no symbol mark    Sxyz: standard symbol mark S99: with symbol mark (the content is as required by the customer)									
7	Button sheet color	● Red-r   ● Green-g   ● Yellow-y   ● White-w   ● Blue-b   ● Black-k   ● rg: on-off button sheet									
8	Action function	Action position of selector and key switch (f: left spring return, fu: right spring return, ffu: left and right spring return) Key pulling-out position (a: left pulling out, ao: center pulling out, au: right pulling out)									
9	Voltage code	No marking: no illumination    20: AC/DC 5V    21: AC/DC 6V    22: AC/DC 12V    15: AC/DC 15V 23: AC/DC 24V    16: AC/DC 30V    24: AC/DC 36V    25: AC/DC 48V    17: AC/DC 63V    18: AC/DC 75V 26: AC/DC 110V    27: AC/DC 127V    36: AC/DC 150V    28: AC/DC 220V    33: AC/DC 270V    35: AC/DC 440V 31: AC 220V    40: AC 230V    41: AC 240V    42: AC 250V    37: AC 270V    32: AC 380V									
10	Head protection class	No marking: default value    With marking: mark the value as required									
11	Auxiliary code	No marking: supply based on normal order code    With marking: marked as required, the marked code is composed of 1-10 numbers and letters, for marking supply information									

## Technical feature

Rated capacity	Momentary-action type	AC-15 24V/10A 48V/10A 110V/5A 220V/2.5A 380V/1.5A 660V/0.8A	DC-13 24V/3.6A 48V/1.8A 110V/0.8A 220V/0.4A 440V/0.2A
	Slow-action type	AC-15 24V/10A 48V/10A 110V/10A 220V/6A 380V/4A 660V/2A	DC-13 24V/6A 48V/3A 110V/1A 220V/0.5A 440V/0.25A
Contact resistance	Hard silver contact ≤50mΩ (new value)		
Power frequency withstand voltage	AC 1890V	50Hz · 1min	
Mechanical endurance	3 million times for normal button, mushroom button and illuminated button, 100,000 times for latching button, 300,000 times for selector, 50,000 times for key switch and emergency stop button		
Electrical endurance	≥600,000 times	Action frequency: 1,200 times/hour	
Conventional thermal current	Ith 10A		
Rated insulation voltage	Ui 660V		
Working temperature	Ambient temperature -25°C ~+55°C    Average temperature in 24h not over +35°C		
Working humidity	≤90% RH, the relative humidity is not over 50% when the temperature exceeds 40°C		
Head protection class	A type head: IP54 (IP40 for ZY key emergency stop button, ZL push-pull emergency stop button, Y/YS key switch, A3/A4/A5 selector and key switch)    B type head: IP40    C type head: IP54 (IP40 for ZY key emergency stop button) IP67 can be realized for LA39-A/B flush head round button with FI optional		

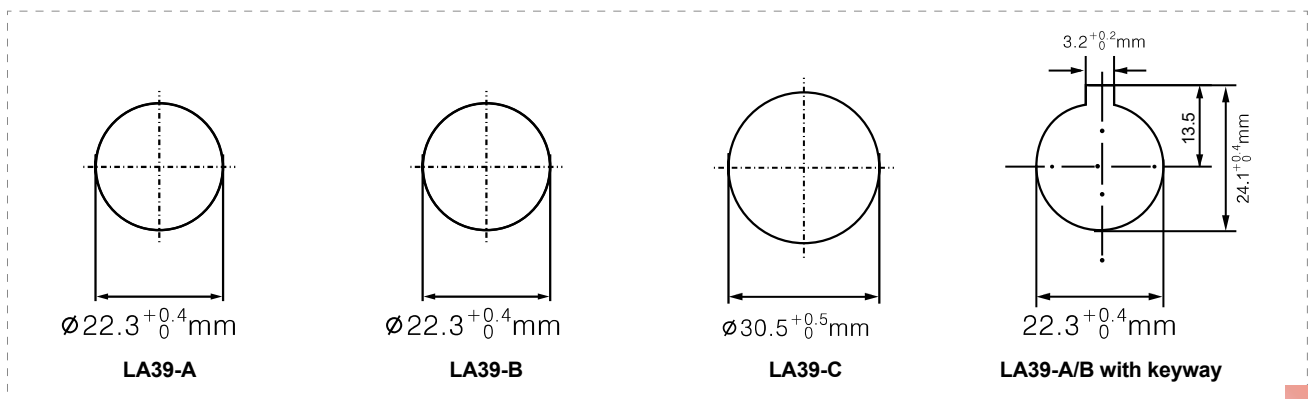
◎ **Component material**

Head periphery	Middle seat	Head	Contact point	Switch enclosure	Contact pin
AL	Zn or PBT.PA	PC	AgNi	PC	Cu


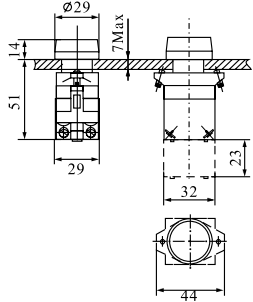


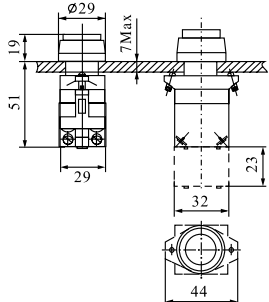



LA39-A/B/C

◎ **Hole dimensions**




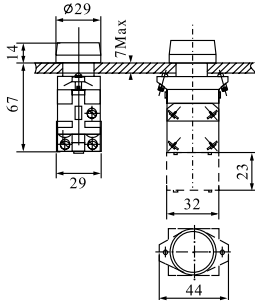


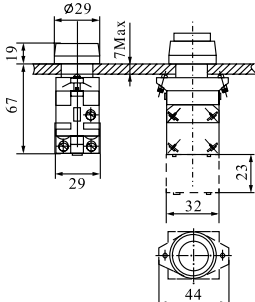

## Φ 22 LA39-A series pushbutton selection

Name	Type	Working status	Order code	Color	Dimension		
<b>Round button</b>							
		Momentary	LA39-A1- ■ / ▲	<ul style="list-style-type: none"> <li>● Red-r</li> <li>● Green-g</li> <li>● Yellow-y</li> <li>○ White-w</li> <li>● Blue-b</li> <li>● Black-k</li> </ul>			
		Latching	LA39-A1- ■ T/ ▲				
		Momentary	LA39-A1- ■ / ▲ -JW				
		Latching	LA39-A1- ■ T/ ▲ -JW				
<b>High-position round button</b>							
		Momentary	LA39-A1- ■ / ▲ -H				
		Latching	LA39-A1- ■ T/ ▲ -H				
		Momentary	LA39-A1- ■ / ▲ -H-JW				
		Latching	LA39-A1- ■ T/ ▲ -H-JW				
<p>Note: if the tolerance is not marked, follow GB/T 1804 – class c</p>							

Note

- Indicate the number of NO/NC contacts at ■ before the slash.
- Indicate the color at ▲ behind the slash.
- If Z2, Z3, Z4 and Z5 middle seats are required during order, change A1 in the order code to A2, A3, A4 or A5. Please note that requirements on the thickness of the mounting plate change greatly when Z3 middle seat is selected.
- The finished latching button is equipped with F5 accessory.

## Φ 22 LA39-A series pushbutton selection

Name	Type	Working status	Order code	Color	Light voltage	Dimension	
Illuminated round button		Momentary	LA39-A1- ■ D/ ▲★	<ul style="list-style-type: none"> <li>● Red-r</li> <li>● Green-g</li> <li>● Yellow-y</li> <li>○ White-w</li> <li>● Blue-b</li> </ul>	<b>LED light source:</b>  21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 24-AC/DC 36V 25-AC/DC 48V 26-AC/DC 110V 27-AC/DC 127V 28-AC/DC 220V 33-AC/DC 270V 35-AC/DC 440V 31-AC 220V 40-AC 230V 32-AC 380V		
		Latching	LA39-A1- ■ TD/ ▲★				
		Momentary	LA39-A1- ■ D/ ▲★ -JW				
		Latching	LA39-A1- ■ TD/ ▲★ -JW				
High-position illuminated round button		Momentary	LA39-A1- ■ D/ ▲★ -H			<b>LED light source:</b>  21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 24-AC/DC 36V 25-AC/DC 48V 26-AC/DC 110V 27-AC/DC 127V 28-AC/DC 220V 33-AC/DC 270V 35-AC/DC 440V 31-AC 220V 40-AC 230V 32-AC 380V	
		Latching	LA39-A1- ■ TD/ ▲★ -H				
		Momentary	LA39-A1- ■ D/ ▲★ -H-JW				
		Latching	LA39-A1- ■ TD/ ▲★ -H-JW				

Note: if the tolerance is not marked, follow GB/T 1804 – class c

Note: if the tolerance is not marked, follow GB/T 1804 – class c



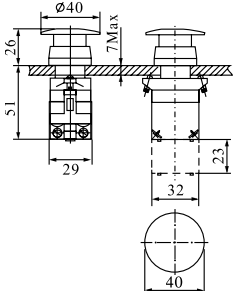


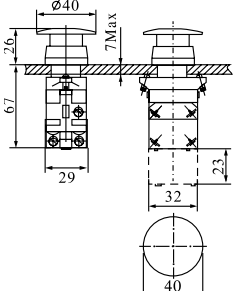
Note

- Indicate the number of NO/NC contacts at ■ before the slash.
- Indicate the color at ▲ behind the slash and indicate the voltage grade of illuminated button at ★ .
- The light sources of illuminated buttons are high brightness LED in pure color.
- If Z2, Z3, Z4 and Z5 middle seats are required during order, change A1 in the order code to A2, A3, A4 or A5. Please note that requirements on the thickness of the mounting plate change greatly when Z3 middle seat is selected.
- The finished latching button is equipped with F5 accessory.

LA39-A/B/C



## Φ 22 LA39-A series pushbutton selection


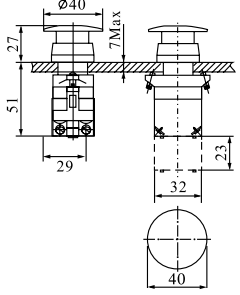


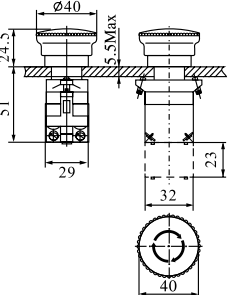

Name	Type	Working status	Order code	Color	Light voltage	Dimension
<b>Mushroom button</b>						
 <p>Note: Φ40、Φ60</p>  <p>Note: Φ40、Φ60</p>	Momentary		LA39-A1- ■ M/ ▲	Non-transparent ● Red-r ● Green-g ● Yellow-y ● Black-k		
	Latching		LA39-A1- ■ MT/ ▲			
	Momentary		LA39-A1- ■ M/ ▲ -JW			
	Latching		LA39-A1- ■ MT/ ▲ -JW			
<b>Illuminated mushroom button</b>						
 <p>Note: Φ40、Φ60</p>  <p>Note: Φ40、Φ60</p>	Momentary		LA39-A1- ■ MD/ ▲★	Transparent ● Red-r ● Green-g ● Yellow-y ○ White-w	<b>LED light source:</b> 21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 24-AC/DC 36V 25-AC/DC 48V 26-AC/DC 110V 27-AC/DC 127V 28-AC/DC 220V 33-AC/DC 270V 35-AC/DC 440V 31-AC 220V 40-AC 230V 32-AC 380V	
	Latching		LA39-A1- ■ MTD/ ▲★			
	Momentary		LA39-A1- ■ MD/ ▲★ -JW			
	Latching		LA39-A1- ■ MTD/ ▲★ -JW			

Note

- Indicate the number of NO/NC contacts at ■ before the slash.
- Indicate the color at ▲ behind the slash and indicate the voltage grade of illuminated button at .
- The light sources of illuminated buttons are high brightness LED in pure color.
- If Z2, Z3, Z4 and Z5 middle seats are required during order, change A1 in the order code to A2, A3, A4 or A5.
- The finished latching button is equipped with F5 accessory.

Note: if Φ 60 mushroom head is required, please mark “-60” behind the order code, no marking for Φ 40 ones.

## Φ 22 LA39-A series pushbutton selection

Name	Type	Working status	Order code	Color	Dimension
Rotary latching type inching mushroom button	 Note: Φ40	Inching by pressing, latching by rotating	LA39-A1- ■ MR/ ▲	Non-transparent ● Red-r ● Green-g ● Yellow-y ● Black-k	
	 Note: Φ40		LA39-A1- ■ MR/ ▲ -JW		
Emergency stop button	 Note: Φ40	Latching by pressing, resetting by rotating clockwise	LA39-A1-R ■ Z/ ▲	Transparent ● Red-r	
	 Note: Φ40		LA39-A1-R ■ Z/ ▲ -JW		


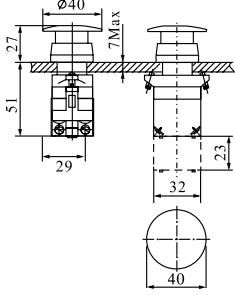

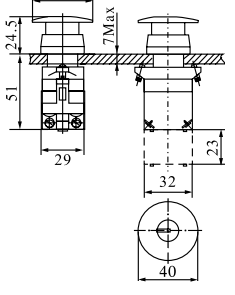

LA39-A/B/C

Note

- Indicate the number of NO/NC contacts at ■ before the slash.
- Indicate the color at ▲ behind the slash.
- If Z2, Z3, Z4 and Z5 middle seats are required during order, change A1 in the order code to A2, A3, A4 or A5.
- The finished latching button is equipped with F5 accessory.

Note: the emergency stop button adopts slow-action base.


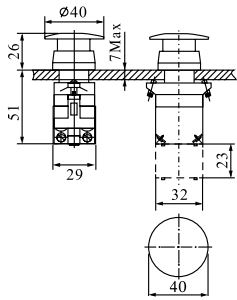

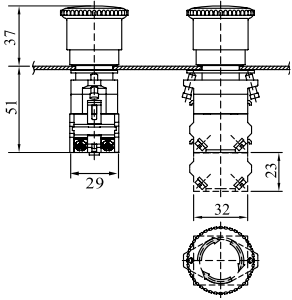
## Φ 22 LA39-A series pushbutton selection

Name	Type	Working status	Order code	Color	Dimension
Emergency stop button		Latching by pressing, resetting by rotating clockwise	LA39-A1-R ■ Z1/ ▲	Non-transparent ● Red-r	
	Note: Φ40、Φ60		LA39-A1-R ■ Z1/ ▲ -JW		
Key resetting emergency stop button		Latching by pressing, resetting by rotating the key clockwise	LA39-A1-R ■ ZY/ ▲	Non-transparent ● Red-r	
	Note: Φ40		LA39-A1-R ■ ZY/ ▲ -JW		
		Note: Φ40			Note: if the tolerance is not marked, follow GB/T 1804 – class c

Note

- Indicate the number of NO/NC contacts at ■ before the slash.
  - Indicate the color at ▲ behind the slash.
  - If Z2, Z3, Z4 and Z5 middle seats are required during order, change A1 in the order code to A2, A3, A4 or A5.
- Note: if Φ 60 mushroom head is required, please mark “-60” behind the order code, no marking for Φ 40 ones.  
The emergency stop button adopts slow-action base.

## Φ 22 LA39-A series pushbutton selection


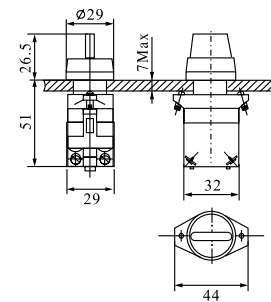














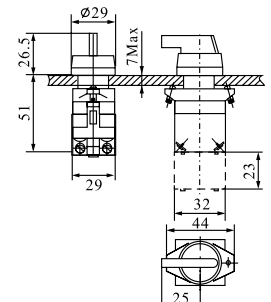













Name	Type	Working status	Order code	Color	Dimension
Pulling type emergency stop button    Note: Φ40	Note: Φ40  Latching by pressing, resetting by pulling		LA39-A1-R ■ ZL/ ▲	Non-transparent ● Red-r	  Note: if the tolerance is not marked, follow GB/T 1804 – class c
			LA39-A1-R ■ ZL/ ▲ -JW		
Trigger-type emergency stop button    Note: Φ40	Latching triggered by pressing, resetting by rotating clockwise		LA39-A1-R ■ ZC/ ▲		  Note: if the tolerance is not marked, follow GB/T 1804 – class c

Note

- Indicate the number of NO/NC contacts at ■ before the slash.
  - Indicate the color at ▲ behind the slash.
  - If Z2, Z3, Z4 and Z5 middle seats are required during order, change A1 in the order code to A2, A3, A4 or A5.
- Note: the emergency stop button adopts slow-action base.

LA39-A/B/C




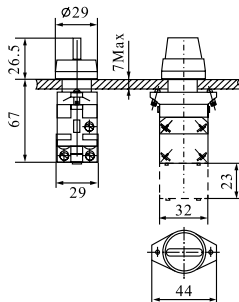






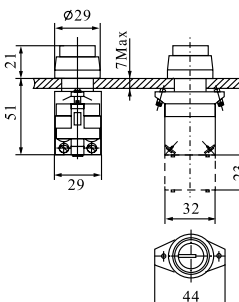






## Φ 22 LA39-A series pushbutton selection

Name	Type	Handle position & order code	Color	Dimension		
Short-handle selector	Two-position	 LA39-A1- ■ X/ ▲	● Red-r ● Green-g ● Yellow-y ● Black-k			
		 LA39-A1- ■ X/ ▲ f			 LA39-A1- ■ X/ ▲ fu	
	Three-position	 LA39-A1- ■ XS/ ▲			 LA39-A1- ■ XS/ ▲ ffu	
		 LA39-A1- ■ XS/ ▲ f			 LA39-A1- ■ XS/ ▲ fu	
	Two-position	 LA39-A1- ■ X/ ▲ -JW			 LA39-A1- ■ X/ ▲ f-JW	 LA39-A1- ■ X/ ▲ fu-JW
		Three-position			 LA39-A1- ■ XS/ ▲ -JW	 LA39-A1- ■ XS/ ▲ ffu-JW
 LA39-A1- ■ XS/ ▲ f-JW	 LA39-A1- ■ XS/ ▲ fu-JW					
Long-handle selector	Two-position	 LA39-A1- ■ CX/ ▲	● Red-r ● Green-g ● Yellow-y ● Black-k			
		 LA39-A1- ■ CX/ ▲ f			 LA39-A1- ■ CX/ ▲ fu	
	Three-position	 LA39-A1- ■ CXS/ ▲			 LA39-A1- ■ CXS/ ▲ ffu	
		 LA39-A1- ■ CXS/ ▲ f			 LA39-A1- ■ CXS/ ▲ fu	
	Two-position	 LA39-A1- ■ CX/ ▲ -JW			 LA39-A1- ■ CX/ ▲ f-JW	 LA39-A1- ■ CX/ ▲ fu-JW
		Three-position			 LA39-A1- ■ CXS/ ▲ -JW	 LA39-A1- ■ CXS/ ▲ ffu-JW
 LA39-A1- ■ CXS/ ▲ f-JW	 LA39-A1- ■ CXS/ ▲ fu-JW					

Note

- Indicate the number of NO/NC contacts at ■ before the slash.
  - Indicate the color at ▲ behind the slash.
  - If Z2, Z3, Z4 and Z5 middle seats are required during order, change A1 in the order code to A2, A3, A4 or A5.
- Note: when the selector is equipped with Z3 middle seat, the anti-rotation washer shall be added.

## Φ 22 LA39-A series pushbutton selection


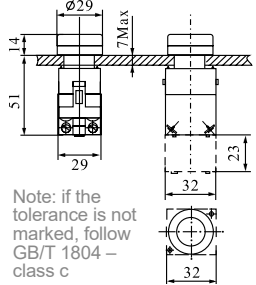
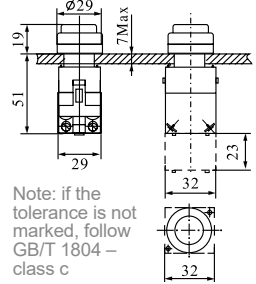

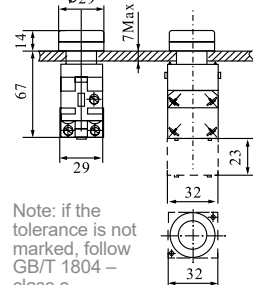
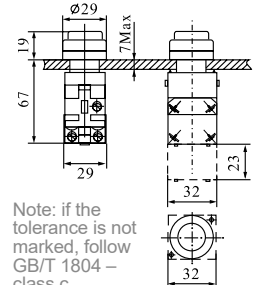

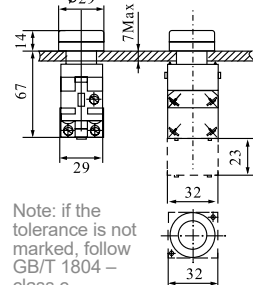
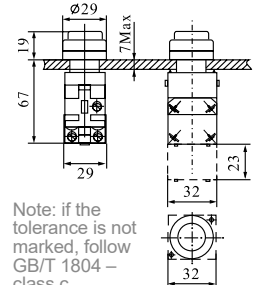

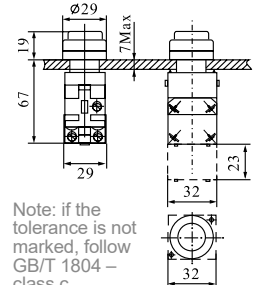
Name	Type	Handle position & order code	Color	Light voltage	Dimension
  	Two-position	 LA39-A1- ■ XD/ ▲★    LA39-A1- ■ XD/ ▲★ fu	● Red-r ● Green-g ● Yellow-y ○ White-w ● Blue-b	LED light source:  21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 24-AC/DC 36V 25-AC/DC 48V 26-AC/DC 110V 27-AC/DC 127V 28-AC/DC 220V 33-AC/DC 270V 35-AC/DC 440V 31-AC 220V 40-AC 230V 32-AC 380V	
	Three-position	 LA39-A1- ■ XSD/ ▲★    LA39-A1- ■ XSD/ ▲★ ffu			
	Two-position	 LA39-A1- ■ XSD/ ▲★ f    LA39-A1- ■ XSD/ ▲★ fu			
	Two-position	 LA39-A1- ■ XD/ ▲★ -JW    LA39-A1- ■ XD/ ▲★ fu-JW			
	Three-position	 LA39-A1- ■ XSD/ ▲★ -JW    LA39-A1- ■ XSD/ ▲★ ffu-JW			
		 LA39-A1- ■ XSD/ ▲★ f-JW    LA39-A1- ■ XSD/ ▲★ fu-JW			
Key switch	Two-position	 LA39-A1- ■ Y/	Key taking-out position		
		 LA39-A1- ■ Y/f	 LA39-A1- ■ Y/fu		Left    Center    Right a        ao        au
	Three-position	 LA39-A1- ■ YS/	 LA39-A1- ■ YS/ffu		Each pulling-out position can be customized in case of any special requirement. Note: the key taking-out position cannot be the momentary position for momentary key switch.
		 LA39-A1- ■ YS/f	 LA39-A1- ■ YS/fu		

LA39-A/B/C

Note

- Indicate the number of NO/NC contacts at ■ before the slash.
- Indicate the color at ▲ behind the slash and indicate the voltage grade of illuminated button at .
- The light sources of illuminated buttons are high brightness LED in pure color.
- If Z2, Z3, Z4 and Z5 middle seats are required during order, change A1 in the order code to A2, A3, A4 or A5.
- When the selector is equipped with Z3 middle seat, the anti-rotation washer shall be added.


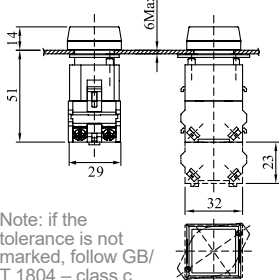




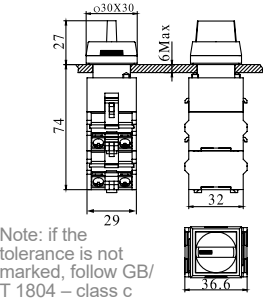
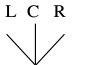






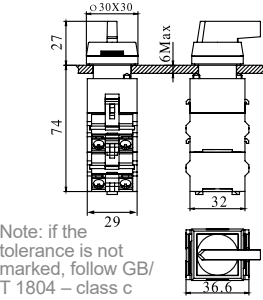
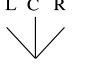


## Φ 22 LA39-B series pushbutton selection

Name	Type	Working status	Order code	Color	Light voltage	Dimension					
	Momentary		LA39-B2- ■ / ▲	<ul style="list-style-type: none"> <li>● Red-r</li> <li>● Green-g</li> <li>● Yellow-y</li> <li>○ White-w</li> <li>● Blue-b</li> <li>● Black-k</li> </ul>		 <p>Note: if the tolerance is not marked, follow GB/T 1804 – class c</p>					
	Latching		LA39-B2- ■ T/ ▲				 <p>Note: if the tolerance is not marked, follow GB/T 1804 – class c</p>				
	Momentary		LA39-B2- ■ / ▲ -H			<p><b>LED light source:</b></p> <ul style="list-style-type: none"> <li>21-AC/DC 6V</li> <li>22-AC/DC 12V</li> <li>23-AC/DC 24V</li> <li>24-AC/DC 36V</li> <li>25-AC/DC 48V</li> <li>26-AC/DC 110V</li> <li>27-AC/DC 127V</li> <li>28-AC/DC 220V</li> <li>33-AC/DC 270V</li> <li>35-AC/DC 440V</li> <li>31-AC 220V</li> <li>40-AC 230V</li> <li>32-AC 380V</li> </ul>		 <p>Note: if the tolerance is not marked, follow GB/T 1804 – class c</p>			
	Latching		LA39-B2- ■ TD/ ▲★				 <p>Note: if the tolerance is not marked, follow GB/T 1804 – class c</p>				
	Momentary		LA39-B2- ■ D/ ▲★					<ul style="list-style-type: none"> <li>● Red-r</li> <li>● Green-g</li> <li>● Yellow-y</li> <li>○ White-w</li> <li>● Blue-b</li> </ul>		 <p>Note: if the tolerance is not marked, follow GB/T 1804 – class c</p>	
	Latching		LA39-B2- ■ TD/ ▲★				 <p>Note: if the tolerance is not marked, follow GB/T 1804 – class c</p>				
	Momentary		LA39-B2- ■ D/ ▲★ -H							<ul style="list-style-type: none"> <li>● Red-r</li> <li>● Green-g</li> <li>● Yellow-y</li> <li>○ White-w</li> <li>● Blue-b</li> </ul>	
	Latching		LA39-B2- ■ TD/ ▲★ -H				 <p>Note: if the tolerance is not marked, follow GB/T 1804 – class c</p>				

Note

- Indicate the number of NO/NC contacts at ■ before the slash.
- Indicate the color at ▲ behind the slash and indicate the voltage grade of illuminated button at .
- The light sources of illuminated buttons are high brightness LED in pure color.
- If Z1, Z3, Z4 and Z5 middle seats are required during order, change B2 in the order code to B1, B3, B4 or B5.
- The finished latching button is equipped with F5 accessory.

## Φ 22 LA39-B series pushbutton selection

Name	Type	Working status	Order code	Color	Light voltage	Dimension
	Momentary		LA39-B2- ■ F/ ▲	<ul style="list-style-type: none"> <li>● Red-r</li> <li>● Green-g</li> <li>● Yellow-y</li> <li>○ White-w</li> <li>● Blue-b</li> <li>● Black-k</li> </ul>		 <p>Note: if the tolerance is not marked, follow GB/T 1804 – class c</p>
Name	Type	Handle position & order code			Color	Dimension
	Two-position	 LA39-B2- ■ XF/ ▲	 LA39-B2- ■ XF/ ▲ f	 LA39-B2- ■ XF/ ▲ fu	<ul style="list-style-type: none"> <li>● Red-r</li> <li>● Green-g</li> <li>● Yellow-y</li> <li>● Black-k</li> </ul>	 <p>Note: if the tolerance is not marked, follow GB/T 1804 – class c</p>
	Three-position	 LA39-B2- ■ XSF/ ▲	 LA39-B2- ■ XSF/ ▲ ffu	 LA39-B2- ■ XSF/ ▲ fu		
	Two-position	 LA39-B2- ■ CXF/ ▲	 LA39-B2- ■ CXF/ ▲ f	 LA39-B2- ■ CXF/ ▲ fu	<ul style="list-style-type: none"> <li>● Red-r</li> <li>● Green-g</li> <li>● Yellow-y</li> <li>● Black-k</li> </ul>	 <p>Note: if the tolerance is not marked, follow GB/T 1804 – class c</p>
	Three-position	 LA39-B2- ■ CXSF/ ▲	 LA39-B2- ■ CXSF/ ▲ ffu	 LA39-B2- ■ CXSF/ ▲ fu		


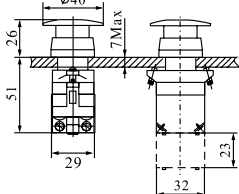

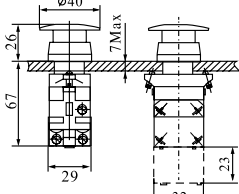


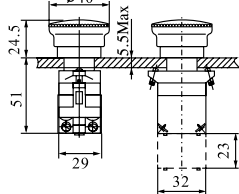

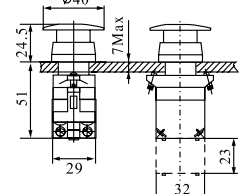
Note

- Indicate the number of NO/NC contacts at ■ before the slash.
- Indicate the color at ▲ behind the slash and indicate the voltage grade of illuminated button at .
- The light sources of illuminated buttons are high brightness LED in pure color.
- If Z1, Z3, Z4 and Z5 middle seats are required during order, change B2 in the order code to B1, B3, B4 or B5.
- The finished latching button is equipped with F5 accessory.

LA39-A/B/C



## Φ 22 LA39-B series pushbutton selection

Name	Type	Working status	Order code	Color	Light voltage	Dimension
 <p>Note: Φ40、Φ60</p>	Momentary		LA39-B2- ■ M/ ▲	Non-transparent ● Red-r ● Green-g ● Yellow-y ● Black-k		 <p>Note: if the tolerance is not marked, follow GB/T 1804 – class c</p>
	Latching		LA39-B2- ■ MT/ ▲			
 <p>Note: Φ40、Φ60</p>	Momentary		LA39-B2- ■ MD/ ▲★	Transparent ● Red-r ● Green-g ● Yellow-y ○ White-w	<b>LED light source:</b> 21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 24-AC/DC 36V 25-AC/DC 48V 26-AC/DC 110V 27-AC/DC 127V 28-AC/DC 220V 33-AC/DC 270V 35-AC/DC 440V 31-AC 220V 40-AC 230V 32-AC 380V	 <p>Note: if the tolerance is not marked, follow GB/T 1804 – class c</p>
	Latching		LA39-B2- ■ MTD/ ▲★			
 <p>Note: Φ40</p>  <p>Note: Φ40、Φ60</p>	Latching by pressing, resetting by rotating clockwise		LA39-B2-R ■ Z/ ▲	Non-transparent ● Red-r		 <p>Note: if the tolerance is not marked, follow GB/T 1804 – class c</p>
					LA39-B2-R ■ Z1/ ▲	
 <p>Note: Φ40</p>	Latching by pressing, resetting by rotating the key clockwise		LA39-B2-R ■ ZY/ ▲			 <p>Note: if the tolerance is not marked, follow GB/T 1804 – class c</p>

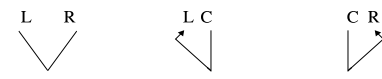
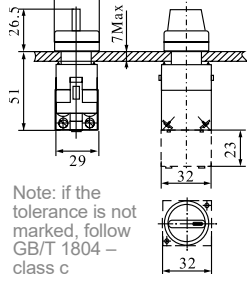
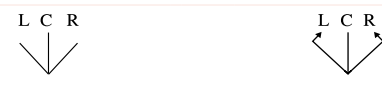
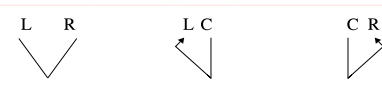
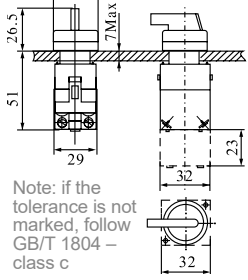
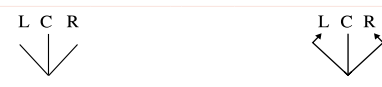
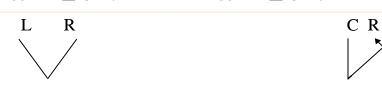
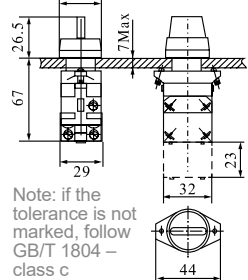
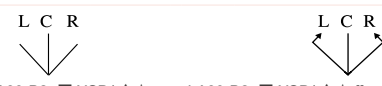
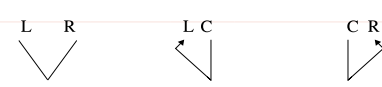
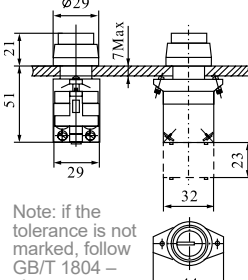

Note

- Indicate the number of NO/NC contacts at ■ before the slash, indicate the color at ▲ behind the slash and indicate the voltage grade of illuminated button at .
- The light sources of illuminated buttons are high brightness LED in pure color.
- If Z1, Z3, Z4 and Z5 middle seats are required during order, change B2 in the order code to B1, B3, B4 or B5.
- The finished latching button is equipped with F5 accessory.

Note: if Φ 60 mushroom head is required, please mark “-60” behind the order code, no marking for Φ 40 ones.

The emergency stop button adopts slow-action base.

## Φ 22 LA39-B series pushbutton selection


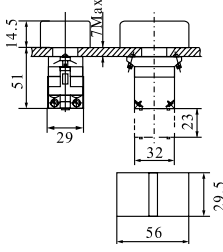
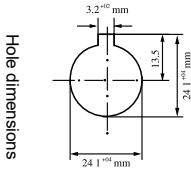

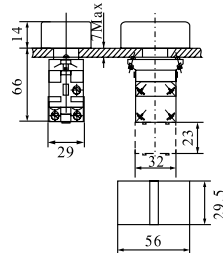
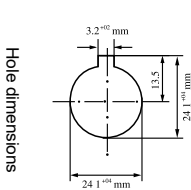
Name	Type	Handle position & order code	Color	Light voltage	Dimension						
Short-handle selector	Two-position	 LA39-B2- ■ X/ ▲ LA39-B2- ■ X/ ▲ f LA39-B2- ■ X/ ▲ fu	● Red-r ● Green-g ● Yellow-y ● Black-k		 Note: if the tolerance is not marked, follow GB/T 1804 – class c						
	Three-position	 LA39-B2- ■ XS/ ▲ LA39-B2- ■ XS/ ▲ ffu									
Long-handle selector	Two-position	 LA39-B2- ■ CX/ ▲ LA39-B2- ■ CX/ ▲ f LA39-B2- ■ CX/ ▲ fu				● Red-r ● Green-g ● Yellow-y ● Black-k		 Note: if the tolerance is not marked, follow GB/T 1804 – class c			
	Three-position	 LA39-B2- ■ CXS/ ▲ LA39-B2- ■ CXS/ ▲ ffu									
Illuminated selector	Two-position	 LA39-B2- ■ XD/ ▲★ LA39-B2- ■ XD/ ▲★ fu							● Red-r ● Green-g ● Yellow-y ○ White-w ● Blue-b	<b>LED light source:</b> 21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 24-AC/DC 36V 25-AC/DC 48V 26-AC/DC 110V 27-AC/DC 127V 28-AC/DC 220V 33-AC/DC 270V 35-AC/DC 440V 31-AC 220V 40-AC 230V 32-AC 380V	 Note: if the tolerance is not marked, follow GB/T 1804 – class c
	Three-position	 LA39-B2- ■ XSD/ ▲★ LA39-B2- ■ XSD/ ▲★ ffu									
Key switch	Two-position	 LA39-B2- ■ T/ LA39-B2- ■ Y/f LA39-B2- ■ Y/ffu	Key taking-out position Left    Center    Right a        ao        au		 Note: if the tolerance is not marked, follow GB/T 1804 – class c						
	Three-position	 LA39-B2- ■ YS/ LA39-B2- ■ YS/ffu LA39-B2- ■ YS/f LA39-B2- ■ YS/fu	Each pulling-out position can be customized in case of any special requirement. Note: the key taking-out position cannot be the momentary position for momentary key switch.								

Note

- Indicate the number of NO/NC contacts at ■ before the slash.
- Indicate the color at ▲ behind the slash and indicate the voltage grade of illuminated button at .
- The light sources of illuminated buttons are high brightness LED in pure color.
- If Z1, Z3, Z4 and Z5 middle seats are required during order, change B2 in the order code to B1, B3, B4 or B5.
- When the selector and key switch are equipped with Z3 middle seats, the anti-rotation washer shall be added.

LA39-A/B/C

## Φ 22 LA39-B series pushbutton selection



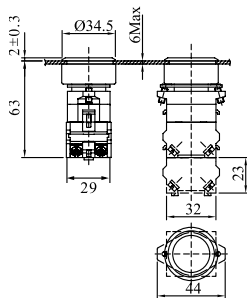


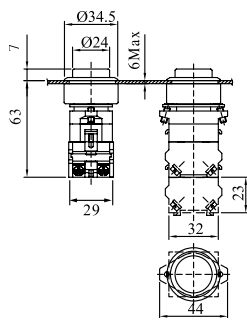
Name	Type	Order code	Button color	Light color	Light voltage	Overall & hole dimensions	Note
On-off button		LA39-B2- ■ R/ ▲▲	<ul style="list-style-type: none"> <li>● Red-r</li> <li>● Green-g</li> <li>○ White-w</li> <li>● Black-k</li> </ul>			 <p>Note: if the tolerance is not marked, follow GB/T 1804 – class c</p> 	<ol style="list-style-type: none"> <li>1. The action of contacts is momentary type.</li> <li>2. The contact can be added or changed as needed.</li> <li>3. Used for the start and stop control of motor or load.</li> </ol>
Illuminated on-off button		LA39-B2- ■ R/ ▲▲ □ ★	<p>For button sheet lettering color, see note ①</p> <ul style="list-style-type: none"> <li>● Red-r</li> <li>● Green-g</li> <li>● Yellow-y</li> <li>○ White-w</li> <li>● Blue-b</li> </ul>	<p><b>LED light source:</b></p> <p>21-AC/DC 6V                  22-AC/DC 12V                  23-AC/DC 24V                  24-AC/DC 36V                  25-AC/DC 48V                  26-AC/DC 110V                  27-AC/DC 127V                  28-AC/DC 220V                  33-AC/DC 270V                  35-AC/DC 440V                  31-AC 220V                  40-AC 230V                  32-AC 380V</p>		 <p>Note: if the tolerance is not marked, follow GB/T 1804 – class c</p> 	<ol style="list-style-type: none"> <li>1. The action of contacts is momentary type.</li> <li>2. The contact can be added or changed as needed, and illumination occurs in the middle of two buttons.</li> <li>3. Used for the start and stop control of motor or load.</li> </ol>

Note

- Indicate the number of NO/NC contacts at ■ before the slash.
- Indicate the color of button sheet sequentially at ▲ behind the slash (two letters).
- If illuminated button is required, add LED color and voltage code behind, indicating light color at □, and the voltage grade of illuminated button at .
- If Z1, Z3, Z4 and Z5 middle seats are required during order, change B2 in the order code to B1, B3, B4 or B5.

Note ① : button sheet lettering color: stop symbol “○” in red and white, start symbol “I” in green and black; if the letters need to be customized, add S99 before / and attach a figure.

## Φ 30 LA39-C series pushbutton selection


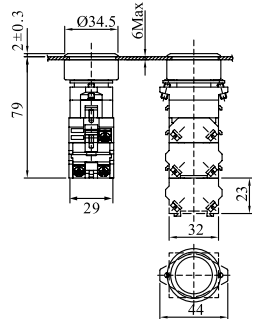


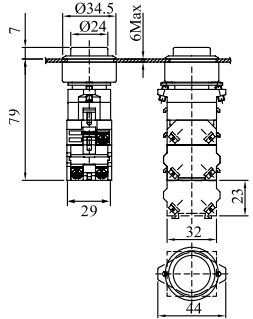

Name	Type	Working status	Order code	Color	Dimension	
<p>Round button</p>  		Momentary	LA39-C1- ■ / ▲	<ul style="list-style-type: none"> <li>● Red-r</li> <li>● Green-g</li> <li>● Yellow-y</li> <li>○ White-w</li> <li>● Blue-b</li> <li>● Black-k</li> </ul>		
		Latching	LA39-C1- ■ T/ ▲			
		Momentary	LA39-C1- ■ / ▲ -JW			
		Latching	LA39-C1- ■ T/ ▲ -JW			
<p>High position round button</p>  		Momentary	LA39-C1- ■ / ▲ -H		<ul style="list-style-type: none"> <li>● Red-r</li> <li>● Green-g</li> <li>● Yellow-y</li> <li>○ White-w</li> <li>● Blue-b</li> <li>● Black-k</li> </ul>	
		Latching	LA39-C1- ■ T/ ▲ -H			
		Momentary	LA39-C1- ■ / ▲ -H-JW			
		Latching	LA39-C1- ■ T/ ▲ -H-JW			

LA39-A/B/C

Note

- Indicate the number of NO/NC contacts at ■ before the slash.
- Indicate the color at ▲ behind the slash.
- The light sources of illuminated buttons are high brightness LED in pure color.
- If Z2, Z3, Z4 and Z5 middle seats are required during order, change C1 in the order code to C2, C3, C4 or C5.

## Φ 30 LA39-C series pushbutton selection

Name	Type	Working status	Order code	Color	Light voltage	Dimension	
Illuminated round button  		Momentary	LA39-C1- ■ D/ ▲★	● Red-r ● Green-g ● Yellow-y ○ White-w ● Blue-b	<b>LED light source:</b>  21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 24-AC/DC 36V 25-AC/DC 48V 26-AC/DC 110V 27-AC/DC 127V 28-AC/DC 220V 33-AC/DC 270V 35-AC/DC 440V 31-AC 220V 40-AC 230V 32-AC 380V		
		Latching	LA39-C1- ■ TD/ ▲★				
		Momentary	LA39-C1- ■ D/ ▲★ -JW				
		Latching	LA39-C1- ■ TD/ ▲★ -JW				
High-position illuminated round button  		Momentary	LA39-C1- ■ D/ ▲★ -H			<b>LED light source:</b>  21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 24-AC/DC 36V 25-AC/DC 48V 26-AC/DC 110V 27-AC/DC 127V 28-AC/DC 220V 33-AC/DC 270V 35-AC/DC 440V 31-AC 220V 40-AC 230V 32-AC 380V	
		Latching	LA39-C1- ■ TD/ ▲★ -H				
		Momentary	LA39-C1- ■ D/ ▲★ -H-JW				
		Latching	LA39-C1- ■ TD/ ▲★ -H-JW				


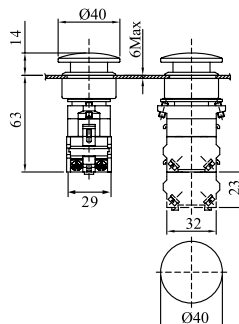


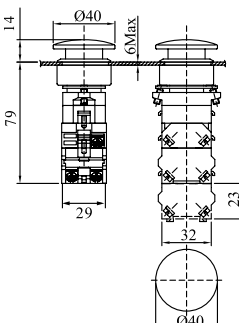

Note: if the tolerance is not marked, follow GB/T 1804 – class c

Note: if the tolerance is not marked, follow GB/T 1804 – class c

Note

- Indicate the number of NO/NC contacts at ■ before the slash.
- Indicate the color at ▲ behind the slash and indicate the voltage grade of illuminated button at .
- The light sources of illuminated buttons are high brightness LED in pure color.
- If Z2, Z3, Z4 and Z5 middle seats are required during order, change C1 in the order code to C2, C3, C4 or C5.

## Φ 30 LA39-C series pushbutton selection


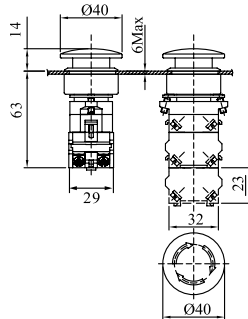


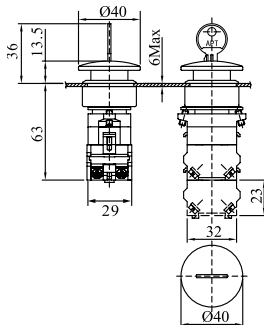

Name	Type	Working status	Order code	Color	Light voltage	Dimension
<b>Mushroom button</b>						
 Note: Φ40、Φ60	Momentary		LA39-C1- ■ M/ ▲	Non-transparent ● Red-r ● Green-g ● Yellow-y ● Black-k		
	Latching		LA39-C1- ■ MT/ ▲			
 Note: Φ40、Φ60	Momentary		LA39-C1- ■ M/ ▲ -JW			
	Latching		LA39-C1- ■ MT/ ▲ -JW			
<b>Illuminated mushroom button</b>						
 Note: Φ40、Φ60	Momentary		LA39-C1- ■ MD/ ▲★	<b>LED light source:</b>  21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 24-AC/DC 36V 25-AC/DC 48V 26-AC/DC 110V 27-AC/DC 127V 28-AC/DC 220V 33-AC/DC 270V 35-AC/DC 440V 31-AC 220V 40-AC 230V 32-AC 380V		
	Latching		LA39-C1- ■ MTD/ ▲★			
 Note: Φ40、Φ60	Momentary		LA39-C1- ■ MD/ ▲★ -JW			
	Latching		LA39-C1- ■ MTD/ ▲★ -JW			
Note: if the tolerance is not marked, follow GB/T 1804 – class c						

LA39-A/B/C

Note

- Indicate the number of NO/NC contacts at ■ before the slash.
  - Indicate the color at ▲ behind the slash and indicate the voltage grade of illuminated button at .
  - The light sources of illuminated buttons are high brightness LED in pure color.
  - If Z2, Z3, Z4 and Z5 middle seats are required during order, change C1 in the order code to C2, C3, C4 or C5.
- Note: if Φ 60 mushroom head is required, please mark “-60” behind the order code, no marking for Φ 40 ones.


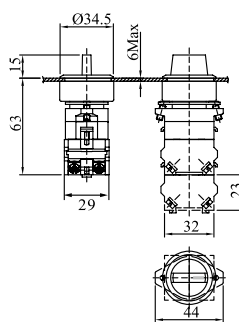














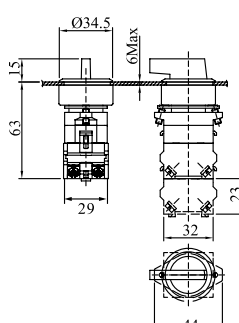













## Φ 30 LA39-C series pushbutton selection

Name	Type	Working status	Order code	Color	Dimension
Emergency stop button	 Note: Φ40、Φ60	Latching by pressing, resetting by rotating clockwise	LA39-C1-R ■ Z/ ▲	Non-transparent ● Red-r	 <p>Note: if the tolerance is not marked, follow GB/T 1804 – class c</p>
 Note: Φ40、Φ60	LA39-C1-R ■ Z/ ▲ -JW				
Key resetting emergency stop button	 Note: Φ40	Latching by pressing, resetting by rotating the key clockwise	LA39-C1-R ■ ZY/ ▲	Non-transparent ● Red-r	 <p>Note: if the tolerance is not marked, follow GB/T 1804 – class c</p>
 Note: Φ40	LA39-C1-R ■ ZY/ ▲ -JW				

Note

- Indicate the number of NO/NC contacts at ■ before the slash.
  - Indicate the color at ▲ behind the slash.
  - If Z2, Z3, Z4 and Z5 middle seats are required during order, change C1 in the order code to C2, C3, C4 or C5.
- Note: if Φ 60 mushroom head is required, please mark “-60” behind the order code, no marking for Φ 40 ones.
- The emergency stop button adopts slow-action base.

## Φ 30 LA39-C series pushbutton selection

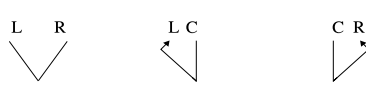
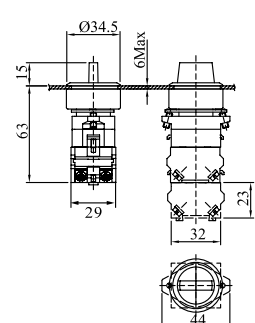


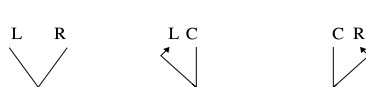
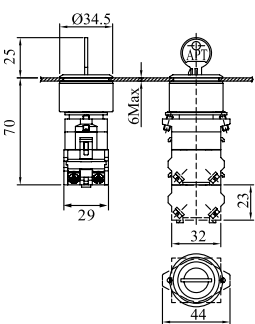


Name	Type	手柄位置及 Order code	Color	Dimension		
Short-handle selector	Two-position	 LA39-C1-■ X/▲	● Red-r ● Green-g ● Yellow-y ● Black-k	 <p>Note: if the tolerance is not marked, follow GB/T 1804 – class c</p>		
		 LA39-C1-■ X/▲ f			 LA39-C1-■ X/▲ fu	
	Three-position	 LA39-C1-■ XS/▲			 LA39-C1-■ XS/▲ ffu	
		 LA39-C1-■ XS/▲ f			 LA39-C1-■ XS/▲ fu	
	Two-position	 LA39-C1-■ X/▲ -JW			 LA39-C1-■ X/▲ f-JW	 LA39-C1-■ X/▲ fu-JW
		Three-position			 LA39-C1-■ XS/▲ -JW	 LA39-C1-■ XS/▲ ffu-JW
 LA39-C1-■ XS/▲ f-JW	 LA39-C1-■ XS/▲ fu-JW					
Long-handle selector	Two-position	 LA39-C1-■ CX/▲	● Red-r ● Green-g ● Yellow-y ● Black-k	 <p>Note: if the tolerance is not marked, follow GB/T 1804 – class c</p>		
		 LA39-C1-■ CX/▲ f			 LA39-C1-■ CX/▲ fu	
	Three-position	 LA39-C1-■ CXS/▲			 LA39-C1-■ CXS/▲ ffu	
		 LA39-C1-■ CXS/▲ f			 LA39-C1-■ CXS/▲ fu	
	Two-position	 LA39-C1-■ CX/▲ -JW			 LA39-C1-■ CX/▲ f-JW	 LA39-C1-■ CX/▲ fu-JW
		Three-position			 LA39-C1-■ CXS/▲ -JW	 LA39-C1-■ CXS/▲ ffu-JW
 LA39-C1-■ CXS/▲ f-JW	 LA39-C1-■ CXS/▲ fu-JW					

Note

- Indicate the number of NO/NC contacts at ■ before the slash.
- Indicate the color at ▲ behind the slash.
- If Z2, Z3, Z4 and Z5 middle seats are required during order, change C1 in the order code to C2, C3, C4 or C5.



## Φ 30 LA39-C series pushbutton selection

Name	Type	Handle position & order code	Color	Light voltage	Dimension
Short-handle illuminated selector	Two-position	 LA39-C1-■XD/▲★ LA39-C1-■XD/▲★f LA39-C1-■XD/▲★fu	● Red-r ● Green-g ● Yellow-y ○ White-w ● Blue-b	<b>LED light source:</b> 21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 24-AC/DC 36V 25-AC/DC 48V 26-AC/DC 110V 27-AC/DC 127V 28-AC/DC 220V 33-AC/DC 270V 35-AC/DC 440V 31-AC 220V 40-AC 230V 32-AC 380V	
	Three-position	 LA39-C1-■XSD/▲★ LA39-C1-■XSD/▲★ffu  LA39-C1-■XSD/▲★f LA39-C1-■XSD/▲★fu			
Key switch	Two-position	 LA39-C1-■Y/ LA39-C1-■Y/f LA39-C1-■Y/fu	Key taking-out position Left    Center    Right a        ao        au	Each pulling-out position can be customized in case of any special requirement. Note: the key taking-out position cannot be the momentary position for momentary key switch.	
	Three-position	 LA39-C1-■YS/ LA39-C1-■YS/fu  LA39-C1-■YS/f LA39-C1-■YS/fu			

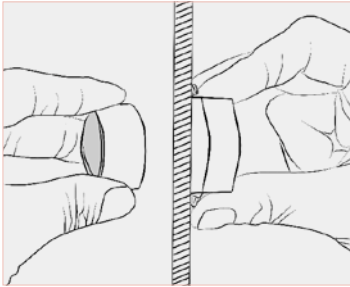
Note: if the tolerance is not marked, follow GB/T 1804 – class c

Note: if the tolerance is not marked, follow GB/T 1804 – class c

Note

- Indicate the number of NO/NC contacts at ■ before the slash.
- Indicate the color at ▲ behind the slash and indicate the voltage grade of illuminated button at .
- The light sources of illuminated buttons are high brightness LED in pure color.
- If Z2, Z3, Z4 and Z5 middle seats are required during order, change C1 in the order code to C2, C3, C4 or C5.

## Installation instructions



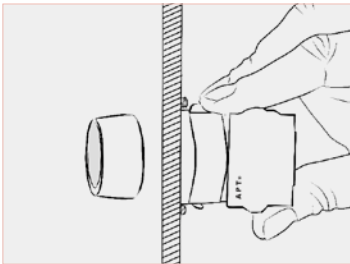
Insert the operating head into the installation hole from the front of the panel, screw it into the middle seat at the back of the panel, and then tighten the set screws at both ends evenly (do not use too much force, with the maximum torque of 0.25 N.m). If the panel is made of plastic and other non-metallic materials, the panel can be padded with a mounting plate (see Annex F5) before installation. If the diameter of the installation hole is 25mm, the panel can be padded with a  $\Phi 25$  mounting plate (see Annex F6) before installation.

For Z1 middle-seat button, the switching element can be installed together with the middle seat.

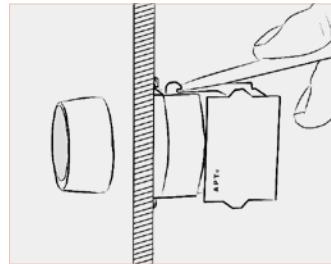
For Z2 middle-seat button, the switching element shall be removed before installing the middle seat.

For Z3 middle-seat button, the switching element shall be removed first. Insert the middle seat into the head, then turn the middle seat clockwise, and then tighten the nuts on the middle seat.

Note: If the button is found to be stuck after installation, the two set screws in the middle seat shall be adjusted to keep the tightness consistent, so as to remove blocking.



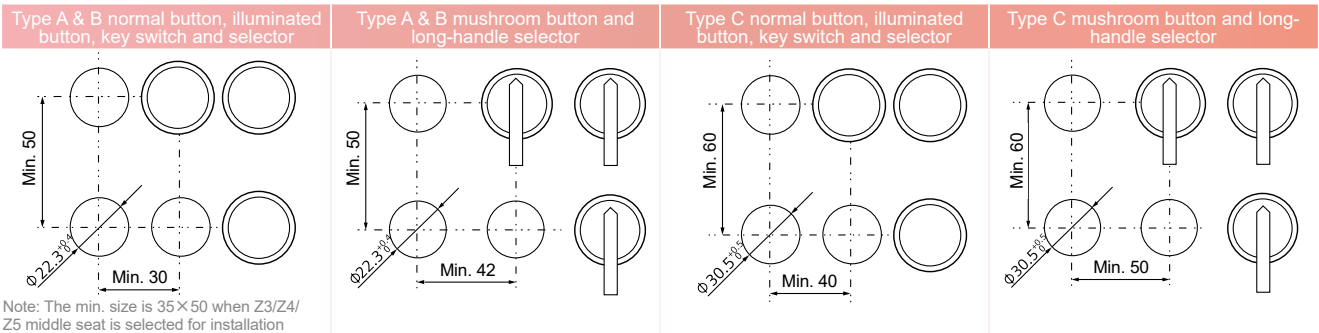
The switching element can be directly buckled, and the symbol mark at the head can be directly installed at the front (usually installed at the factory). If the illuminated button is installed, the lamp holder shall be buckled first, and then the switching element shall be buckled.  
Note: After installation, check whether the hasp of the switching element is fully engaged.



Removal of switching element or lamp holder: Lift the hasp of the lock installation system with a screwdriver to disassemble the components that have been tightly installed at will.

Tip: When installing the selector, the white point of the short handle and the pointed end of the long handle shall face upwards.

## Hole dimensions




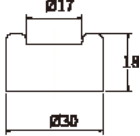

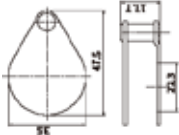

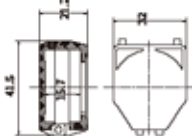

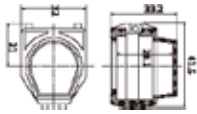

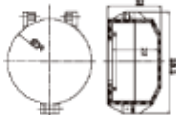

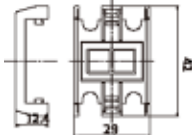

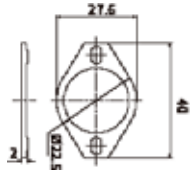

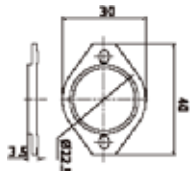
## Functional diagram of selector and key switch on-off elements

Two-position		Three-position		Three-position special function	
Contact lettering label (0 bit)	Contact code	Contact lettering label (0 bit)	Contact code	Contact lettering label (0 bit)	Contact code
11-12	11	11-12	11	11	12
23-24	11	23-24	11	21	22 2NO
11-12	02	11-12	02	33	34 2NO
21-22	02	21-22	02	43	44
13-14	20	13-14	20	Note	
23-24	20	23-24	20	<div style="display: flex; align-items: center;"> <div style="width: 15px; height: 10px; background-color: #ccc; border: 1px solid #000; margin-right: 5px;"></div> <span>Indicates contact closed</span> </div>	
13-14	11	13-14	11	<div style="display: flex; align-items: center;"> <div style="width: 15px; height: 10px; background-color: #fff; border: 1px solid #000; margin-right: 5px;"></div> <span>Indicates contact disconnected</span> </div>	
21-22	11	21-22	11	(0 bit): indicates the position of original on-off state	


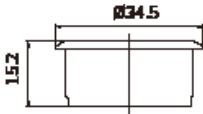

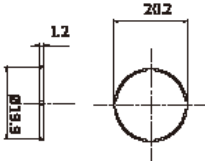

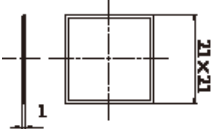

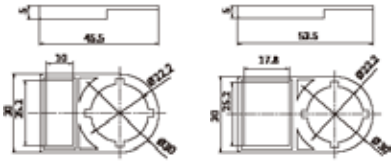

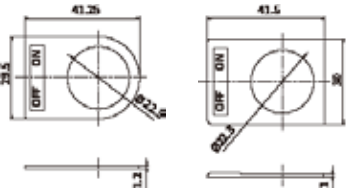

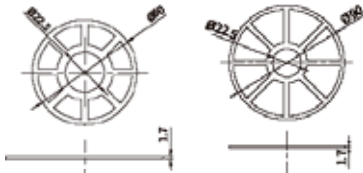
### Contact lettering label

The numbers of contact terminals are represented by two digits, with "1" on tens digit representing the first pair of contacts on the first switching element and "2" on tens digit representing the second pair of contacts on the first switching element, and with "1, 2" on units digit representing two terminals of normally closed contact, and "3, 4" on units digit representing two terminals of normally open contact.


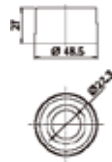


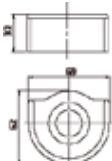
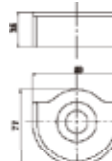

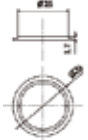
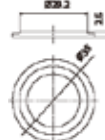

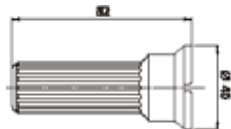

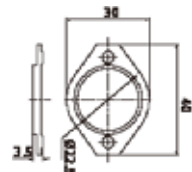

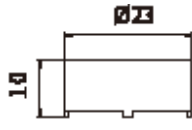

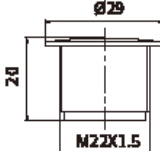
## LA39 series pushbutton accessories

Name	Type	Order code	Material	Function	Dimension
Seal cover		F1	Silica gel	Installed at the head of button, waterproof and dustproof. Protection class is up to IP67.	
Protective cover		F2	Stainless steel	Installed at the head of button, to prevent collision and misoperation.	
Protective cover		F3-1	Plastic	Installed at the head of the flat-head round button to prevent collision and misoperation. It can be blocked.	
		F3-2		Installed at the head of short-handle selector, illuminated selector and key switch, to prevent collision and misoperation. It can be blocked.	
		F3-3		Installed at the head of $\Phi 40$ mushroom button, $\Phi 40$ emergency stop button and key resetting emergency stop button, to prevent collision and misoperation. It can be blocked.	
Protective cover for joint		F4	Plastic + silica gel	Installed behind the connecting screws of switching elements, to prevent electric shock and play a certain role in dust prevention.	
		F4a			
$\Phi 22$ mounting plate		F5	Q235	When the chassis panel is made of plastic, a mounting plate shall be installed to improve the strength.	
$\Phi 25$ mounting plate		F6		When the panel hole diameter is $\Phi 25$ , a mounting plate shall be installed.	






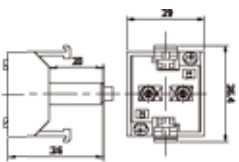

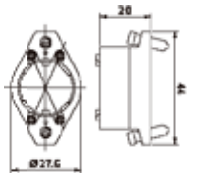

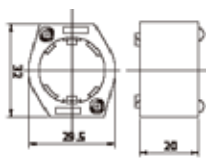

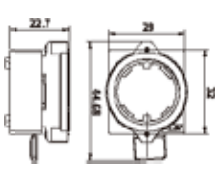

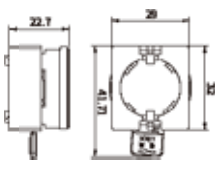

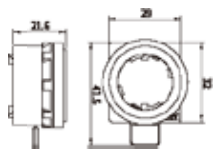
◎ LA39 series pushbutton accessories

Name	Type	Order code	Material	Function	Dimension
Φ30 reducing nut		F8	Aluminum alloy	It is used for the panel with a hole diameter of Φ30 and producing ultra-thin button effect.	
Symbol mark for round button		F9	Plastic	It is installed in the transparent button sheet of round button for symbolic indication.	
Symbol mark for square button		F10		It is installed in the transparent button sheet of square button for symbolic indication.	
Signage frame		F11-10 Writing area: : 25×10mm F11-18 Writing area: : 25×18mm		Hung on the pushbutton or indicator for symbolic indication or text description.	
Signage plate		F12 (round) F12a (square)			
Warning ring		F13-60 Φ60 F13-90 Φ90	ABS	Used for emergency stop button.	

## LA39 series pushbutton accessories







Name	Type	Order code	Material	Function	Dimension
Yellow guard ring		F14a-40 Φ40 Applicable for LA39-M/MT/MD/MTD series products with the head diameter of 40. (Note: due to structure limit, LA39-MR/Z/ZY/ZL/ZC series products with the head diameter of 40 may only use F14a-60)	ABS	Used to enhance eye-catching tips and protect mushroom button from collision and misoperation.	 F14a-40
		F14a-60 Φ60 Applicable for LA39-M/MT/MD/MTD series products with the head diameter of 60.			 F14a-60
		F14b-60 Φ60 Applicable for LA39-M/MT/MD/MTD/MR/Z/ZY/ZL/ZC series products with the head diameter of 40.			 F14b-60
		F14b-90 Φ90 Applicable for LA39-M/MT/MD/MTD/Z series products with the head diameter of 60.			 F14b-90
Reducing ring		F15-25 Φ25		The reducing ring can be used to install the Φ22mm indicator/pushbutton on the panel with a hole diameter of Φ25 or Φ30mm.	 F15-25
		F15-30 Φ30			 F15-30
Handler		F26		It is used for installing and removing the nuts of Z3, Z4 and Z5 middle seats, reducing the workload of installers.	
Indicator fastening wrench		F16 Φ22	PC	It can be used to improve the installation quality and reduce the workload of installers.	
Indicator symbol cover		F18	POM	Used for symbolic lettering or text description of indicator.	
Panel plug		F19 Φ22	ABS	Used for plugging reserved holes or redundant holes.	

© LA39 series pushbutton accessories

Name	Type	Order code	Material	Function	Dimension
Switch base (momentary action type)		C01 C10 C02 C20 C11	PC	It is installed at the tail of the button to increase or decrease the contacts. Two-digit number in the model indicates the number of normally open and normally closed contacts.	
Switch base (slow action type)		S01 S10 S02 S20 S11			
Lamp holder		D/ ▲★	PA	It is installed between the middle seat and the base, used for illuminated button. In model, ▲ indicates color, and ★ indicates voltage grade code.	
Middle seat		Z1	Zn+PBT	Used for fixing the button	
		Z2	PBT		
		Z3	PA		
		Z4			
		Z5			

LA39-A/B/C







## LA39 series pushbutton accessories

Name	Type	Order code	Note		
Button head	 <p>A B C</p>	Normal button LA39-A-/ ▲ LA39-B-/ ▲ LA39-C-/ ▲	Indicate the color at ▲ behind the slash		
		Latching button LA39-A-T/ ▲ LA39-B-T/ ▲ LA39-C-T/ ▲			
	 <p>A C</p>	Normal button LA39-A-/ ▲ -JW LA39-C-/ ▲ -JW			
		Latching button LA39-A-T/ ▲ -JW LA39-C-T/ ▲ -JW			
	 <p>A B C</p>	High-position button LA39-A-/ ▲ -H LA39-B-/ ▲ -H LA39-C-/ ▲ -H			
		High-position latching button LA39-A-T/ ▲ -H LA39-B-T/ ▲ -H LA39-C-T/ ▲ -H			
	 <p>A C</p>	High-position button LA39-A-/ ▲ -H-JW LA39-C-/ ▲ -H-JW			
		High-position latching button LA39-A-T/ ▲ -H-JW LA39-C-T/ ▲ -H-JW			
	Short-handle selector	 <p>A B C</p>		Two-position LA39-A-X/ ▲ □ LA39-B-X/ ▲ □ LA39-C-X/ ▲ □	Indicate the color at ▲ behind the slash, indicate the momentary form at □
				Three-position LA39-A-XS/ ▲ □ LA39-B-XS/ ▲ □ LA39-C-XS/ ▲ □	
		 <p>A C</p>		Two-position LA39-A-X/ ▲ □ -JW LA39-C-X/ ▲ □ -JW	
				Three-position LA39-A-XS/ ▲ □ -JW LA39-C-XS/ ▲ □ -JW	

LA39-A/B/C







© LA39 series pushbutton accessories

Name	Type	Order code	Note
Long-handle selector	 <p>A B C</p>	Two-position LA39-A-CX/ ▲□ LA39-B-CX/ ▲□ LA39-C-CX/ ▲□	Indicate the color at ▲ behind the slash, indicate the momentary form at □
		Three-position LA39-A-CXS/ ▲□ LA39-B-CXS/ ▲□ LA39-C-CXS/ ▲□	
	 <p>A C</p>	Two-position LA39-A-CX/ ▲□ -JW LA39-C-CX/ ▲□ -JW	
		Three-position LA39-A-CXS/ ▲□ -JW LA39-C-CXS/ ▲□ -JW	
Illuminated selector	 <p>A C</p>	Two-position LA39-A-XD/ ▲□ LA39-C-XD/ ▲□	
		Three-position LA39-A-XSD/ ▲□ LA39-C-XSD/ ▲□	
	 <p>A C</p>	Two-position LA39-A-XD/ ▲□ -JW LA39-C-XD/ ▲□ -JW	
		Three-position LA39-A-XSD/ ▲□ -JW LA39-C-XSD/ ▲□ -JW	
On-off button		Normal button LA39-B-R/ ▲▲	1. Indicate the button sheet color at ▲ behind the slash. 2. The action of contacts is momentary type. 3. The contact can be added or changed as needed, and illumination occurs in the middle of two buttons. 4. Used for the start and stop control of motor or load.
		Illuminated button LA39-B-RD/ ▲▲	
Key switch	 <p>A C</p>	Two-position LA39-A-Y LA39-C-Y	
		Three-position LA39-A-YS LA39-C-YS	

LA39-A/B/C







## LA39 series pushbutton accessories

Name	Type	Order code	Note	
Mushroom button	 <p>A                      B                      C</p>	Normal button LA39-A-M/ ▲ LA39-B-M/ ▲ LA39-C-M/ ▲	Indicate the color at ▲ behind the slash	
		Latching button LA39-A-MT/ ▲ LA39-B-MT/ ▲ LA39-C-MT/ ▲		
	 <p>A    C</p>	Normal button LA39-A-M/ ▲ -JW LA39-C-M/ ▲ -JW		
		Latching button LA39-A-MT/ ▲ -JW LA39-C-MT/ ▲ -JW		
	Illuminated mushroom button	 <p>A                      B                      C</p>		Normal button LA39-A-MD/ ▲ LA39-B-MD/ ▲ LA39-C-MD/ ▲
				Latching button LA39-A-MTD/ ▲ LA39-B-MTD/ ▲ LA39-C-MTD/ ▲
 <p>A    C</p>		Normal button LA39-A-MD/ ▲ -JW LA39-C-MD/ ▲ -JW		
		Latching button LA39-A-MTD/ ▲ -JW LA39-C-MTD/ ▲ -JW		

LA39-A/B/C

© LA39 series pushbutton accessories

Name	Type	Order code	Note
Emergency stop button	 <p>A                      B                      C</p>	<p>LA39-A-Z/ ▲ LA39-B-Z/ ▲ LA39-C-Z/ ▲</p>	
	 <p>A                                      C</p>	<p>LA39-A-Z/ ▲ -JW LA39-C-Z/ ▲ -JW</p>	
Key emergency stop button	 <p>A                      B                      C</p>	<p>LA39-A-ZY/ ▲ LA39-B-ZY/ ▲ LA39-C-ZY/ ▲</p>	Indicate the color at ▲ behind the slash
	 <p>A                                      C</p>	<p>LA39-A-ZY/ ▲ -JW LA39-C-ZY/ ▲ -JW</p>	

LA39-A/B/C

# APT



## LA39<sub>E</sub> Series Pushbutton

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### Product Features

- LA39-E series  $\Phi 16$  pushbuttons, with ingenious design, beautiful appearance, exquisite volume, simple installation and reliable contact, are the best choice for users to meet their requirements on miniaturization and intensive control of the panel.
- The button head of illuminated pushbutton is bright in color, with soft and eye-catching lighting, and there are red, green, yellow, blue and white colors for users to choose. This series of pushbuttons has a wide variety of shapes, and the head shapes include three types: round, square and rectangular, which greatly meet the needs of users.
- This series of pushbuttons consists of two systems: the threaded sleeve component, which constitutes the head operating mechanism and the base component which constitutes the contact operating mechanism. All structural members are connected by internationally advanced fastener-free momentary-in and latching connectors, which are safe, reliable and convenient for assembly and disassembly. Moreover, the anti-rotation structure is adopted to ensure that the pushbutton is installed and positioned correctly to prevent loosening.
- The base component has one normally open contact and one normally closed contact or two normally open and two normally closed contacts, and is designed with a. It belongs to single-break momentary-action switch, which is the exact guarantee of reliable contact and stable electrical performance.
- LA39-E series pushbuttons are of complete varieties and specifications, including normal buttons, illuminated buttons, buttons with function symbols, selectors (selection buttons) with two positions or three positions, key switches with two positions or three positions, mushroom buttons, emergency stop buttons, latching buttons, etc. Among them, normal buttons, illuminated buttons and buttons with function symbols can be equipped with accessories F-I or F-II to prevent pushbutton misoperation.
- According to the requirements of user's operation instructions, various forms of marks or signs (symbols, letters, characters, etc.) can be configured.

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Compliance with standards: IEC 60947-5-1 GB/T 14048.5

# LA39-E



## Scope of application

LA39-E series pushbuttons are equipped with complete functions, which can fully meet the needs of digital and program-controlled devices and electronic and electrical controls at home and abroad, and are widely used as matching components for control circuits, signals, interlocks, etc. in various fields such as machine tools, textiles, ships, aviation, automobiles, tobacco, power, telecommunications, and medical devices with AC 50Hz(60Hz) and AC/DC 220V.

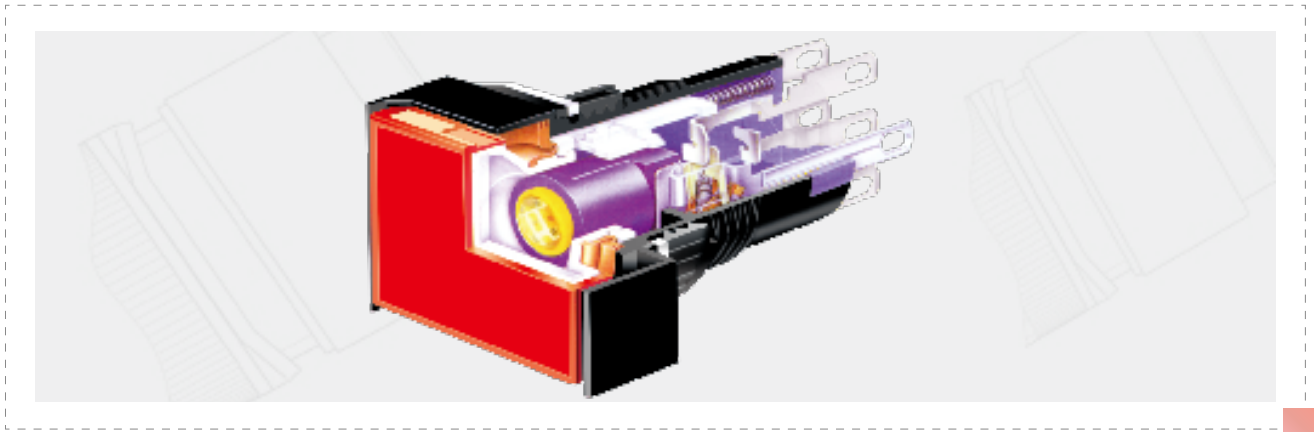
## Order code description

No.		LA	39	—	E	—	□	□	□	□	□	/	□	□	□					
		1	2		3		4	5	6	7			8	9	10					
1	Pushbutton order code																			
2	Design S/N																			
3	Specification code	Specification with installation hole of $\Phi$ 16 and C-type contact																		
4	Number of contacts	11: 1NO, 1NC														22: 2NO, 2NC				
5	Auxiliary order code	No marking: normal button				D: illuminated button			M: mushroom button			X: two-position selector								
		XS: three-position selector		Y: two-position key switch			YS: three-position key switch			T: latching button										
		Z: emergency stop button																		
6	Head shape	No marking: round			F: square			J: rectangular												
7	Marking code	No marking: no symbol mark			Sxyz: standard symbol mark															
		S99: with symbol mark (the content is as required by the customer)																		
8	Color code	● Red-r	● Green-g	● Yellow-y	○ White-w	● Blue-b	● Black-k													
	Key switch	Indicates pulling-out position of the key L: left C: center R: right																		
9	Voltage code	20: AC/DC 5V		21: AC/DC 6V		22: AC/DC 12V		23: AC/DC 24V		24: AC/DC 36V		25: AC/DC 48V		26: AC/DC 110V		27: AC/DC 127V		28: AC/DC 220V		Type of light bead: LED
10	Auxiliary code	No marking: supply based on normal order code																		
		With marking: marked as required, the marked code is composed of 1-10 characters, for marking supply information																		

## Technical feature

Working temperature	-25°C ~+55°C	Average temperature in 24h not over +35°C
Working humidity	≤90% RH, the relative humidity is not over 50% when the temperature exceeds 40°C	
Contact resistance	≤100mΩ	
Insulation resistance	≥100MΩ	
Power frequency withstand voltage	AC 1500V	50Hz · 1min
Mechanical endurance	1 million times for normal button and illuminated button, 100,000 times for latching button and selector, 50,000 times for key switch and emergency stop button	
Electrical endurance	600,000 times for normal button and illuminated button, 100,000 times for latching button and selector, 50,000 times for key switch and emergency stop button	
Head protection class	IP 40	Those marked with “TH” can work normally in a humid and tropical environment

## Product section view



## Rated contact capacity

Rated insulation voltage $U_i$		250V		
Conventional thermal current $I_{th}$		5A		
Usage category	Rated working voltage $U_e$	24V	110V	220V
AC-15	Rated working current $I_e$	2A	1A	0.5A
DC-13		0.7A	0.2A	0.1A


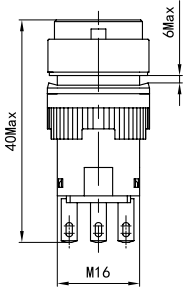



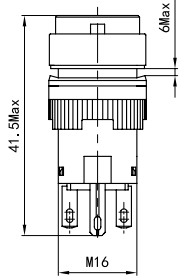


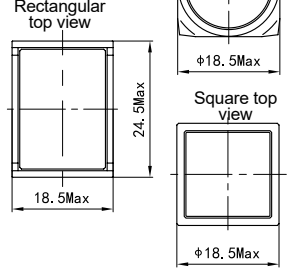
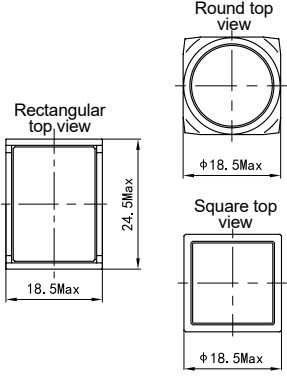
## Contact type and wiring diagram

1NO 1NC	Wiring diagram	2NO 2NC	Wiring diagram

## Installation hole dimensions

Round & square head	Rectangular head	Head of emergency stop button and mushroom button	Installation protective cover F - I head	Installation protective cover F - II head

## Φ16 LA39-E series pushbutton selection



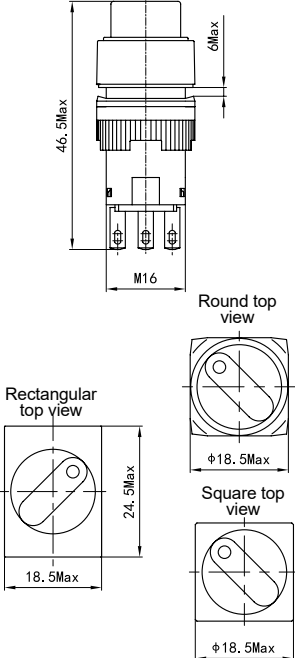









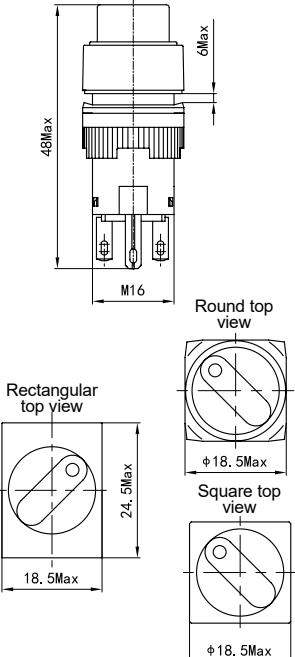







Name	Type	Working status	Contact	Order code	Color	Light voltage	Dimension		
<b>Round button</b> 	Momentary	11	LA39-E11/ ▲	<ul style="list-style-type: none"> <li>● Red-r</li> <li>● Green-g</li> <li>● Yellow-y</li> <li>○ White-w</li> <li>● Blue-b</li> <li>● Black-k</li> </ul>					
		22	LA39-E22/ ▲						
	Latching	11	LA39-E11T/ ▲						
		22	LA39-E22T/ ▲						
<b>Square button</b> 	Momentary	11	LA39-E11F/ ▲						
		22	LA39-E22F/ ▲						
	Latching	11	LA39-E11TF/ ▲						
		22	LA39-E22TF/ ▲						
<b>Rectangular button</b> 	Momentary	11	LA39-E11J/ ▲						
		22	LA39-E22J/ ▲						
	Latching	11	LA39-E11TJ/ ▲						
		22	LA39-E22TJ/ ▲						
<b>Illuminated round button</b> 	Momentary	11	LA39-E11D/ ▲★	<b>LED light :</b> 20-AC/DC 5V 21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 24-AC/DC 36V 25-AC/DC 48V 26-AC/DC 110V 27-AC/DC 127V 28-AC/DC 220V					
		22	LA39-E22D/ ▲★						
	Latching	11	LA39-E11TD/ ▲★						
		22	LA39-E22TD/ ▲★						
<b>Illuminated square button</b> 	Momentary	11	LA39-E11DF/ ▲★						
		22	LA39-E22DF/ ▲★						
	Latching	11	LA39-E11TDF/ ▲★						
		22	LA39-E22TDF/ ▲★						
<b>Illuminated rectangular button</b> 	Momentary	11	LA39-E11DJ/ ▲★						
		22	LA39-E22DJ/ ▲★						
	Latching	11	LA39-E11TDJ/ ▲★						
		22	LA39-E22TDJ/ ▲★						
									
									

**Note**

• Indicate the color at ▲ behind the slash and indicate the voltage grade of an illuminated button at ★.




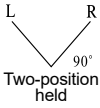
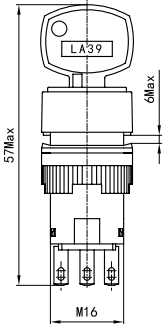
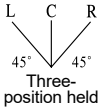

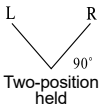

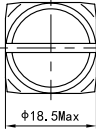
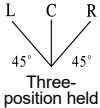

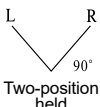
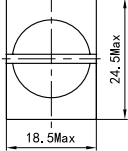
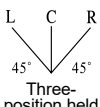
## Φ16 LA39-E series pushbutton selection

Name	Type	Handle position	Contact	Order code	Color	Light voltage	Dimension
Round selector			11	LA39-E11X/ ▲	<ul style="list-style-type: none"> <li>● Red-r</li> <li>● Green-g</li> <li>● Yellow-y</li> <li>○ White-w</li> <li>● Blue-b</li> <li>● Black-k</li> </ul>		
		Two-position held	22	LA39-E22X/ ▲			
			22	LA39-E22XS/ ▲			
Square selector			11	LA39-E11XF/ ▲			
		Two-position held	22	LA39-E22XF/ ▲			
			22	LA39-E22XS/ ▲			
Rectangular selector			11	LA39-E11XJ/ ▲			
		Two-position held	22	LA39-E22XJ/ ▲			
			22	LA39-E22XSJ/ ▲			
Illuminated round selector			11	LA39-E11XD/ ▲★	<p><b>LED light :</b></p> <ul style="list-style-type: none"> <li>20-AC/DC 5V</li> <li>21-AC/DC 6V</li> <li>22-AC/DC 12V</li> <li>23-AC/DC 24V</li> <li>24-AC/DC 36V</li> <li>25-AC/DC 48V</li> <li>26-AC/DC 110V</li> <li>27-AC/DC 127V</li> <li>28-AC/DC 220V</li> </ul>		
		Two-position held	22	LA39-E22XD/ ▲★			
			22	LA39-E22XSD/ ▲★			
Illuminated square selector			11	LA39-E11XDF/ ▲★			
		Two-position held	22	LA39-E22XDF/ ▲★			
			22	LA39-E22XSDF/ ▲★			
Illuminated rectangular selector			11	LA39-E11XDJ/ ▲★			
		Two-position held	22	LA39-E22XDJ/ ▲★			
			22	LA39-E22XSDJ/ ▲★			

LA39-E

**Note** • Indicate the color at ▲ behind the slash and indicate the voltage grade of an illuminated button at ★.


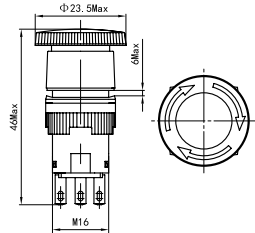

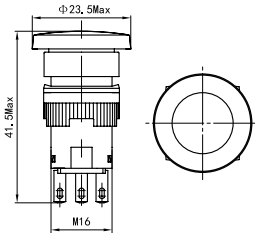

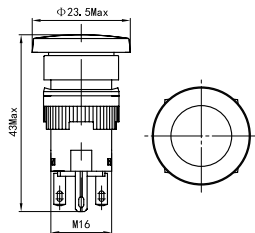
## Φ16 LA39-E series pushbutton selection

Name	Type	Handle position	Contact	Order code	Note	Dimension
	Round key switch	 <p>Two-position held</p>	11	LA39-E11Y/ □		 <p>57Max φMax M16</p>
			22	LA39-E22Y/ □		
		 <p>Three-position held</p>	22	LA39-E22YS/ □		
	Square key switch	 <p>Two-position held</p>	11	LA39-E11YF/ □	<p>Two-position key switch, the keys are in the two positions: Left (L) and Right (R)</p> 	<p>Round top view</p>  <p>φ18.5Max</p>
			22	LA39-E22YF/ □		
		 <p>Three-position held</p>	22	LA39-E22YSF/ □		
	Rectangular key switch	 <p>Two-position held</p>	11	LA39-E11YJ/ □		<p>Rectangular top view</p>  <p>24.5Max 18.5Max</p>
			22	LA39-E22YJ/ □		
		 <p>Three-position held</p>	22	LA39-E22YSJ/ □		

Note

- Indicate the position where the key can be pulled out at □ behind the slash: Left (L), Center (C) and Right (R).


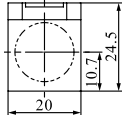

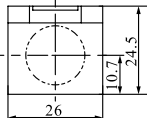

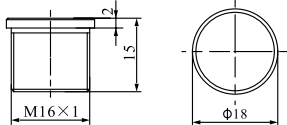

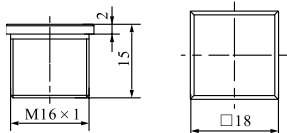

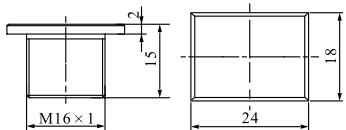
## Φ16 LA39-E series pushbutton selection

Name	Type	Working status	Contact	Order code	Color	Light voltage	Dimension
Emergency stop button 		Latching by pressing, resetting by rotating right	11	LA39-E11Z/ ▲	● Red-r		
			22	LA39-E22Z/ ▲			
Mushroom button 	Momentary		11	LA39-E11M/ ▲	● Red-r ● Green-g ● Yellow-y ○ White-w ● Blue-b ● Black-k		
			22	LA39-E22M/ ▲			
	Latching	11	LA39-E11MT/ ▲				
		22	LA39-E22MT/ ▲				
Illuminated mushroom button 	Momentary		11	LA39-E11MD/ ▲★	● Red-r ● Green-g ● Yellow-y ○ White-w ● Blue-b	<b>LED light :</b> 20-AC/DC 5V 21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 24-AC/DC 36V 25-AC/DC 48V 26-AC/DC 110V 27-AC/DC 127V 28-AC/DC 220V	
			22	LA39-E22MD/ ▲★			
	Latching	11	LA39-E11MTD/ ▲★				
		22	LA39-E22MTD/ ▲★				

Note

- Indicate the color at ▲ behind the slash and indicate the voltage grade of an illuminated button at ★ .

## Φ16 LA39-E series pushbutton accessories

Name	Type	Order code	Note	Function	Dimension
Protective cover		F- I	Used for round and square heads	To prevent misoperation	
		F- II	Used for rectangular head		
Panel plug		F- III	Plugging the empty hole of the panel (round head)	Decoration	
		F- IV	Plugging the empty hole of the panel (square head)		
		F- V	Plugging the empty hole of the panel (rectangular head)		

LA39-E

## Φ16 LA39-E series pushbutton accessories

Name	Type	Order code	Note	作用	Dimension
Fastening wrench		F- VI	Handling tool	Mount and dismantle button and LED	
Connector socket		F- VII	Inserted tightly at the rear of LA39-E Φ16 series products	Avoid being welded directly on the wiring terminal of the button	
Fastening nut		F- VIII	The material is plastic	For tightening Φ16 pushbutton and indicator	
		F- IX	The material is metal		
LED		F-D2/ ▲★	“▲” indicates the color “★” indicates the voltage code	Light source in the illuminated button	

Note

- The switch wiring shall avoid being welded as far as possible, and shall be connected by common international socket (2.8x0.5mm) and covered with the protective sleeve.
- If welding is necessary for wiring: A. manual welding at 25W, within 3 seconds; B. automatic welding at 240°C, within 3 seconds.  
No external force shall be imposed within one minute after welding, and then cover the protective sleeve. Please do not use solvent as flux to prevent the flux from penetrating into the product which will damage the product.
- The pushbuttons shall be operated by hand, rather than other devices which are strictly forbidden!



# LA39<sub>G</sub>

## Series Pushbutton

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### Product Features

- LA39-G series pushbuttons are the latest products independently developed by our company with independent intellectual property rights. This series of products combines the advantages of similar products and makes up for the shortcomings of other products. Its greatest advantages are exquisite design, complete specifications, convenient installation, beautiful appearance and reliable action.
- LA39-G series pushbuttons are equipped with internationally-popular modular combination structure, which is mainly composed of operating head and contact module. The head design features smooth lines, ultra-thin size, various appearance styles and IP65 protection class, which greatly improves the exquisiteness of the control panel.
- The contact module of LA39-G series pushbuttons is designed as a double-break quick-acting structure with the unique technical expertise of our company, which greatly improves the contact reliability and electrical breaking ability. The contacts are gold-plated, so that they can work reliably under the conditions of low voltage and microcurrent. A module can provide a pair of independent normally open and normally closed contacts, and a button can hold up to three contact modules (3 pairs of normally open contacts +3 pairs of normally closed contacts).

# LA39-G





## Order code description

No.	LA 39 — G — □ □ □ □ □ / □ □ □ □											
	1	2	3	4	5	6	7	8	9	10	11	
1	Pushbutton order code											
2	Design S/N											
3	Specification code	The installation hole is $\Phi 16$ , and the contact type is Za type										
4	Number of contacts	11: 1NO, 1NC		22: 2NO, 2NC		33: 3NO, 3NC						
5	Auxiliary order code	No marking: normal button			D: illuminated button		M: mushroom button		X: two-position selector			
		XS: three-position selector		Y: two-position key switch		YS: three-position key switch		T: latching button				
		Z: emergency stop button			Q: piano-key switch							
6	Head shape	No marking: round		F: square		J: rectangular						
7	Marking code	No marking: no symbol mark			Sxyz: standard symbol mark							
		S99: with symbol mark (the content is as required by the customer)										
8	Color code	● Red-r	● Green-g	● Yellow-y	○ White-w	● Blue-b	● Black-k					
	Key switch	Indicates pulling-out position of the key			L: left	C: center	R: right					
9	Action function	f (left spring return)		fu (right spring return)		ffu (left and right spring return)						
10	Voltage code	20: AC/DC 5V		21: AC/DC 6V		22: AC/DC 12V		23: AC/DC 24V		16: AC/DC 30V	Type of light bead: LED	
11	Auxiliary code	No marking: supply based on normal order code With marking: marked as required, the marked code is composed of 1-10 characters, for marking supply information										

## Technical feature

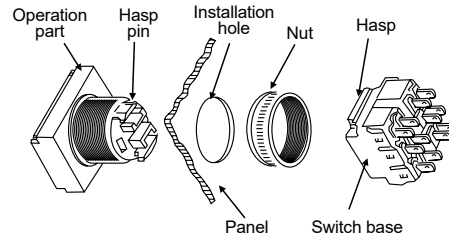
Working temperature	-25°C ~+55°C	Average temperature in 24h not over +35°C	
Working humidity	≤90% RH, the relative humidity is not over 50% when the temperature exceeds 40°C		
Contact resistance	≤100mΩ		
Power frequency withstand voltage	AC 1500V	50Hz · 1min	
Mechanical endurance	1 million times for normal button and illuminated button, 100,000 times for latching button and selector, 50,000 times for key switch and emergency stop button		
Electrical endurance	600,000 times for normal button and illuminated button, 100,000 times for latching button and selector, 50,000 times for key switch and emergency stop button		
Head protection class	IP 65	Those marked with "TH" can work normally in a humid and tropical environment	

## Rated contact capacity

Rated insulation voltage $U_i$		250V		
Conventional thermal current $I_{th}$		5A		
Usage category	Rated working voltage $U_e$	24V	110V	220V
AC-15	Rated working current $I_e$	2A	1A	0.5A
DC-13		0.7A	0.2A	0.1A

## Installation method

Installation sequence: pass the operating part through the panel hole, tighten the nut and fix it, and then press the hasp of the switch base into a whole with the hasp pin position of the operating part. The switch base can be disassembled by pressing the hasp of switch base inward.



## Contact type and wiring diagram

1NO 1NC	Wiring diagram	2NO 2NC	Wiring diagram	3NO 3NC	Wiring diagram


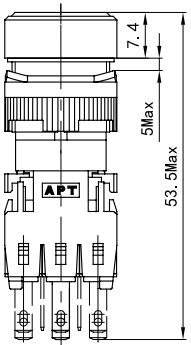

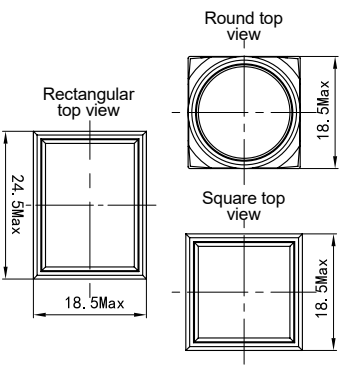

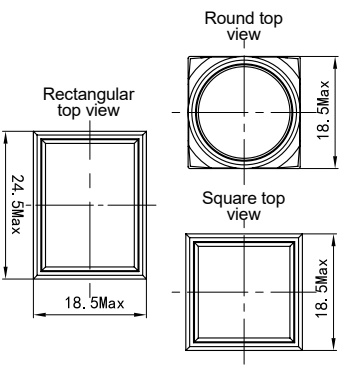

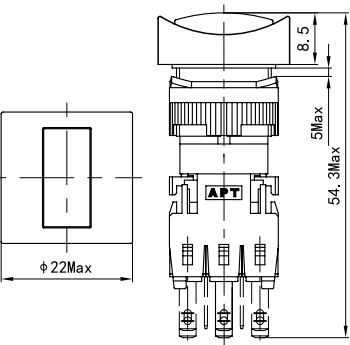
## Installation hole dimensions

Round & square head	Rectangular head	Head of emergency stop button and mushroom button	Installation protective cover F - I head	Installation protective cover F - II head

Note


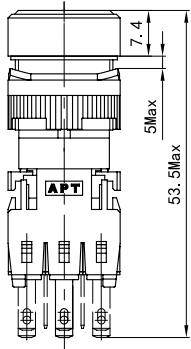

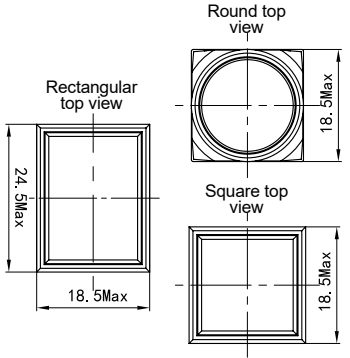


- There are two wiring modes: welding and plug-in connection. In the case of plug-in connection, it is recommended to use a general-purpose socket (2.8x0.5mm) for connection, with a protective sleeve.
- If welding is necessary for wiring: a. manual welding at 25W, within 3 seconds; B. automatic welding at 240°C, within 3 seconds.  
No external force shall be imposed within one minute after welding, and then cover the protective sleeve. Please do not use solvent as flux to prevent the flux from penetrating into the product which will damage the product.
- The buttons shall be operated by hand, rather than other devices which are strictly forbidden!

## Φ16 LA39-G series pushbutton selection

Name	Type	Working status	Contact	Order code	Color	Dimension
	Momentary		11	LA39-G11/ ▲	<ul style="list-style-type: none"> <li>● Red-r</li> <li>● Green-g</li> <li>● Yellow-y</li> <li>○ White-w</li> <li>● Blue-b</li> </ul>	
			22	LA39-G22/ ▲		
			33	LA39-G33/ ▲		
	Latching		11	LA39-G11T/ ▲		
			22	LA39-G22T/ ▲		
			33	LA39-G33T/ ▲		
	Momentary		11	LA39-G11F/ ▲	<ul style="list-style-type: none"> <li>● Red-r</li> <li>● Green-g</li> <li>● Yellow-y</li> <li>○ White-w</li> <li>● Blue-b</li> </ul>	
			22	LA39-G22F/ ▲		
			33	LA39-G33F/ ▲		
	Latching		11	LA39-G11TF/ ▲		
			22	LA39-G22TF/ ▲		
			33	LA39-G33TF/ ▲		
	Momentary		11	LA39-G11J/ ▲	<ul style="list-style-type: none"> <li>● Red-r</li> <li>● Green-g</li> <li>● Yellow-y</li> <li>○ White-w</li> <li>● Blue-b</li> </ul>	
			22	LA39-G22J/ ▲		
			33	LA39-G33J/ ▲		
	Latching		11	LA39-G11TJ/ ▲		
			22	LA39-G22TJ/ ▲		
			33	LA39-G33TJ/ ▲		
	Momentary		11	LA39-G11Q/ ▲	<ul style="list-style-type: none"> <li>● Red-r</li> <li>● Green-g</li> <li>● Yellow-y</li> <li>○ White-w</li> <li>● Blue-b</li> </ul>	
			22	LA39-G22Q/ ▲		
			33	LA39-G33Q/ ▲		
	Latching		11	LA39-G11TQ/ ▲		
			22	LA39-G22TQ/ ▲		
			33	LA39-G33TQ/ ▲		

Note • Indicate the color at ▲ behind the slash.


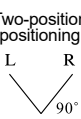
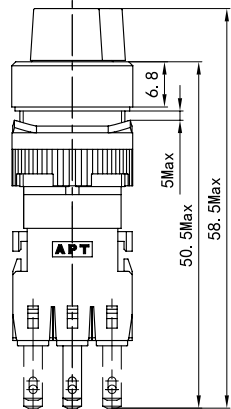
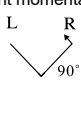

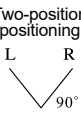
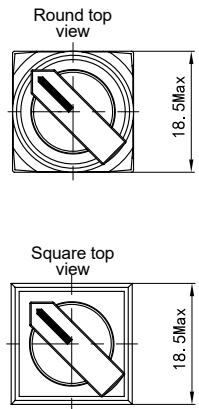
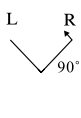

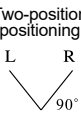
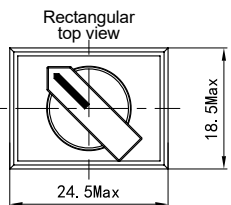
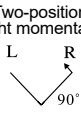
## Φ16 LA39-G series pushbutton selection

Name	Type	Working status	Contact	Order code	Color	Light voltage	Dimension
	Momentary	11	LA39-G11D/ ▲★				
		22	LA39-G22D/ ▲★				
		33	LA39-G33D/ ▲★				
	Latching	11	LA39-G11TD/ ▲★				
		22	LA39-G22TD/ ▲★				
		33	LA39-G33TD/ ▲★				
	Momentary	11	LA39-G11DF/ ▲★	<b>LED light :</b> <ul style="list-style-type: none"> <li>● Red-r</li> <li>● Green-g</li> <li>● Yellow-y</li> <li>○ White-w</li> <li>● Blue-b</li> </ul>	20-AC/DC 5V 21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 16-AC/DC 30V		
		22	LA39-G22DF/ ▲★				
		33	LA39-G33DF/ ▲★				
	Latching	11	LA39-G11TDF/ ▲★				
		22	LA39-G22TDF/ ▲★				
		33	LA39-G33TDF/ ▲★				
	Momentary	11	LA39-G11DJ/ ▲★				
		22	LA39-G22DJ/ ▲★				
		33	LA39-G33DJ/ ▲★				
	Latching	11	LA39-G11TDJ/ ▲★				
		22	LA39-G22TDJ/ ▲★				
		33	LA39-G33TDJ/ ▲★				
	Momentary	11	LA39-G11DQ/ ▲★				
		22	LA39-G22DQ/ ▲★				
		33	LA39-G33DQ/ ▲★				
	Latching	11	LA39-G11TDQ/ ▲★				
		22	LA39-G22TDQ/ ▲★				
		33	LA39-G33TDQ/ ▲★				

LA39-G


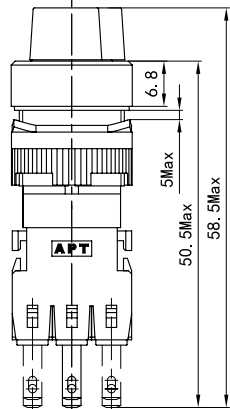

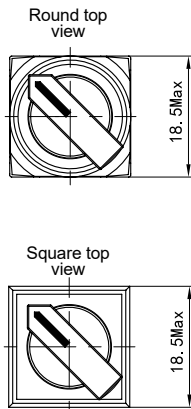

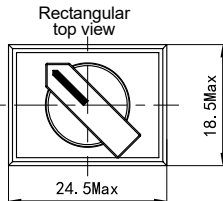
**Note** • Indicate the color at ▲ behind the slash and indicate the voltage grade of an illuminated button at ★.

## Φ16 LA39-G series pushbutton selection

Name	Type	Handle position	Contact	Order code	Color	Dimension
Round two-position selector 		Two-position positioning 	11	LA39-G11X/ ▲	● Red-r ● Green-g ● Yellow-y ● Blue-b ● Black-k	
			22	LA39-G22X/ ▲		
			33	LA39-G33X/ ▲		
		Two-position right momentary 	11	LA39-G11X/ ▲ fu		
			22	LA39-G22X/ ▲ fu		
			33	LA39-G33X/ ▲ fu		
Square two-position selector 		Two-position positioning 	11	LA39-G11XF/ ▲	● Red-r ● Green-g ● Yellow-y ● Blue-b ● Black-k	
			22	LA39-G22XF/ ▲		
			33	LA39-G33XF/ ▲		
		Two-position right momentary 	11	LA39-G11XF/ ▲ fu		
			22	LA39-G22XF/ ▲ fu		
			33	LA39-G33XF/ ▲ fu		
Rectangular two-position selector 		Two-position positioning 	11	LA39-G11XJ/ ▲	● Red-r ● Green-g ● Yellow-y ● Blue-b ● Black-k	
			22	LA39-G22XJ/ ▲		
			33	LA39-G33XJ/ ▲		
		Two-position right momentary 	11	LA39-G11XJ/ ▲ fu		
			22	LA39-G22XJ/ ▲ fu		
			33	LA39-G33XJ/ ▲ fu		

Note • Indicate the color at ▲ behind the slash.

## Φ16 LA39-G series pushbutton selection

Name	Type	Handle position	Contact	Order code	Color	Dimension				
Round three-position selector		Three-position positioning L C R 45° 45°	22	LA39-G22XS/ ▲						
			33	LA39-G33XS/ ▲						
		Three-position left momentary L C R 45° 45°	22	LA39-G22XS/ ▲ f						
			33	LA39-G33XS/ ▲ f						
		Three-position right momentary L C R 45° 45°	22	LA39-G22XS/ ▲ fu						
			33	LA39-G33XS/ ▲ fu						
		Three-position left & right momentary L C R 45° 45°	22	LA39-G22XS/ ▲ ffu						
			33	LA39-G33XS/ ▲ ffu						
		Square three-position selector		Three-position positioning L C R 45° 45°			22	LA39-G22XSF/ ▲	<ul style="list-style-type: none"> <li>● Red-r</li> <li>● Green-g</li> <li>● Yellow-y</li> <li>● Blue-b</li> <li>● Black-k</li> </ul>	
							33	LA39-G33XSF/ ▲		
				Three-position left momentary L C R 45° 45°			22	LA39-G22XSF/ ▲ f		
							33	LA39-G33XSF/ ▲ f		
Three-position right momentary L C R 45° 45°	22			LA39-G22XSF/ ▲ fu						
	33			LA39-G33XSF/ ▲ fu						
Three-position left & right momentary L C R 45° 45°	22			LA39-G22XSF/ ▲ ffu						
	33			LA39-G33XSF/ ▲ ffu						
Rectangular three-position selector		Three-position positioning L C R 45° 45°	22	LA39-G22XSJ/ ▲						
			33	LA39-G33XSJ/ ▲						
		Three-position left momentary L C R 45° 45°	22	LA39-G22XSJ/ ▲ f						
			33	LA39-G33XSJ/ ▲ f						
		Three-position right momentary L C R 45° 45°	22	LA39-G22XSJ/ ▲ fu						
			33	LA39-G33XSJ/ ▲ fu						
		Three-position left & right momentary L C R 45° 45°	22	LA39-G22XSJ/ ▲ ffu						
			33	LA39-G33XSJ/ ▲ ffu						

LA39-G

**Note** • Indicate the color at ▲ behind the slash.

## Φ16 LA39-G series pushbutton selection


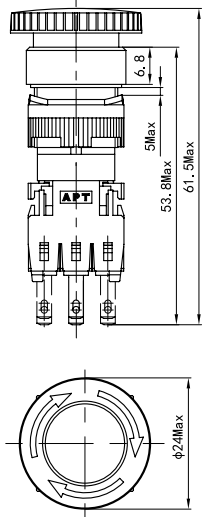

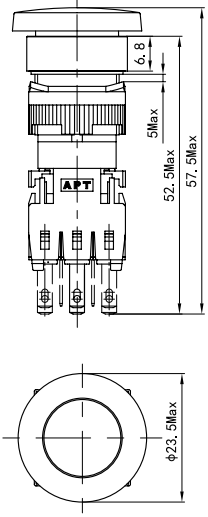

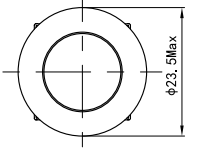
Name	Type	Handle position	Contact	Order code	Dimension
Round two-position key switch		<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Two-position positioning</p> <p>L R</p> <p>90°</p> </div> <div style="text-align: center;"> <p>Two-position right momentary</p> <p>L R</p> <p>90°</p> </div> </div>	11	LA39-G11Y/ □	
			22	LA39-G22Y/ □	
			33	LA39-G33Y/ □	
			11	LA39-G11Y/ □ fu	
			22	LA39-G22Y/ □ fu	
			33	LA39-G33Y/ □ fu	
Round three-position key switch		<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Three-position positioning</p> <p>L C R</p> <p>45° 45°</p> </div> <div style="text-align: center;"> <p>Three-position left momentary</p> <p>L C R</p> <p>45° 45°</p> </div> </div>	22	LA39-G22YS/ □	
			33	LA39-G33YS/ □	
			22	LA39-G22YS/ □ f	
			33	LA39-G33YS/ □ f	
			22	LA39-G22YS/ □ fu	
			33	LA39-G33YS/ □ fu	
Square two-position key switch		<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Two-position positioning</p> <p>L R</p> <p>90°</p> </div> <div style="text-align: center;"> <p>Two-position right momentary</p> <p>L R</p> <p>90°</p> </div> </div>	11	LA39-G11YF/ □	
			22	LA39-G22YF/ □	
			33	LA39-G33YF/ □	
			11	LA39-G11YF/ □ fu	
			22	LA39-G22YF/ □ fu	
			33	LA39-G33YF/ □ fu	
Square three-position key switch		<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Three-position positioning</p> <p>L C R</p> <p>45° 45°</p> </div> <div style="text-align: center;"> <p>Three-position left momentary</p> <p>L C R</p> <p>45° 45°</p> </div> </div>	22	LA39-G22YSF/ □	
			33	LA39-G33YSF/ □	
			22	LA39-G22YSF/ □ f	
			33	LA39-G33YSF/ □ f	
			22	LA39-G22YSF/ □ fu	
			33	LA39-G33YSF/ □ fu	
Rectangular two-position key switch		<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Two-position positioning</p> <p>L R</p> <p>90°</p> </div> <div style="text-align: center;"> <p>Two-position right momentary</p> <p>L R</p> <p>90°</p> </div> </div>	11	LA39-G11YJ/ □	
			22	LA39-G22YJ/ □	
			33	LA39-G33YJ/ □	
			11	LA39-G11YJ/ □ fu	
			22	LA39-G22YJ/ □ fu	
			33	LA39-G33YJ/ □ fu	
Rectangular three-position key switch		<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Three-position positioning</p> <p>L C R</p> <p>45° 45°</p> </div> <div style="text-align: center;"> <p>Three-position left momentary</p> <p>L C R</p> <p>45° 45°</p> </div> </div>	22	LA39-G22YSJ/ □	
			33	LA39-G33YSJ/ □	
			22	LA39-G22YSJ/ □ f	
			33	LA39-G33YSJ/ □ f	
			22	LA39-G22YSJ/ □ fu	
			33	LA39-G33YSJ/ □ fu	

**Note**

• Indicate the position where the key can be pulled out at □ behind the slash: Left (L), Center (C) and Right (R).



## Φ16 LA39-G series pushbutton selection


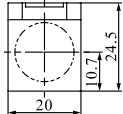

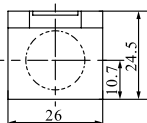

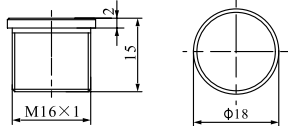

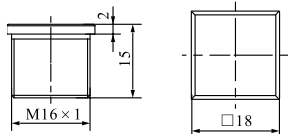

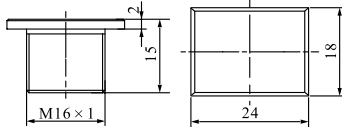
Name	Type	Working status	Contact	Order code	Color	Light voltage	Dimension
Emergency stop button 		Latching by pressing, resetting by rotating right 45°C	11	LA39-G11Z/ ▲	● Red-r		
			22	LA39-G22Z/ ▲			
			33	LA39-G33Z/ ▲			
Mushroom button 	Momentary		11	LA39-G11M/ ▲	● Red-r ● Green-g ● Yellow-y ○ White-w ● Blue-b		
			22	LA39-G22M/ ▲			
			33	LA39-G33M/ ▲			
	Latching		11	LA39-G11MT/ ▲			
			22	LA39-G22MT/ ▲			
			33	LA39-G33MT/ ▲			
Illuminated mushroom button 	Momentary		11	LA39-G11MD/ ▲★	● Red-r ● Green-g ● Yellow-y ○ White-w ● Blue-b	<b>LED light :</b> 20-AC/DC 5V 21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 24-AC/DC 36V 16-AC/DC 30V	
			22	LA39-G22MD/ ▲★			
			33	LA39-G33MD/ ▲★			
	Latching		11	LA39-G11MTD/ ▲★			
			22	LA39-G22MTD/ ▲★			
			33	LA39-G33MTD/ ▲★			

LA39-G

**Note**


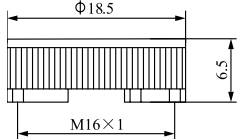


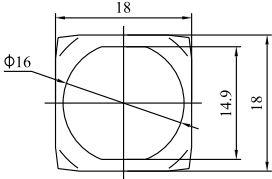
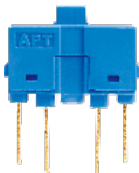
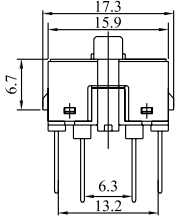

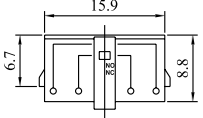
- Indicate the color at ▲ behind the slash and indicate the voltage grade of an illuminated button at ★.

## Φ16 LA39-G series pushbutton accessories

Name	Type	Order code	Note	Function	Dimension
Protective cover		F- I	Used for round and square heads	To prevent misoperation	
		F- II	Used for rectangular head		
Panel plug		F- III	Plugging the empty hole of the panel (round head)	Decoration	
		F- IV	Plugging the empty hole of the panel (square head)		
		F- V	Plugging the empty hole of the panel (rectangular head)		

LA39-G

## Φ16 LA39-G series pushbutton accessories

Name	Type	Order code	Note	Function	Dimension
Fastening nut		F- VIII	The material is plastic	For tightening Φ16 pushbutton and indicator	
		F- IX	The material is metal		
Clamping ring		F- X		To prevent button rom rotating	
Contact module		F- XI		For free combination of contacts	
Simulator		F- XII		To fill the position of module with contact not installed	

# APT



## LA39<sub>F</sub> Series Pushbutton

### Product Features

- LA39-F series pushbuttons are equipped with complete specifications and varieties. According to the head shape, it can be divided into round, square and rectangular, and according to the variety, there are normal buttons, illuminated buttons, etc.
- LA 39-F series pushbuttons feature beautiful appearance, clear and transparent LED lighting and unique and reliable internal structure, which can better meet the requirements of users on miniaturization and intensive control of the panel.

Compliance with standards: IEC 60947-5-1 GB/T 14048.5

# LA39-F



## Scope of application

LA39-F series pushbuttons can be used as supporting components for control signals, interlocks, etc. in various fields such as program-controlled devices, electronic and electrical control circuits, machinery, telecommunications, medical devices and instruments with AC 50Hz(60Hz) and AC/DC220V.

## Order code description

No.	LA 39 — F — □ □ □ □ / □ □ □										
	1	2	3	4	5	6	7	8	9		
1	Pushbutton order code										
2	Design S/N										
3	Specification code	The installation hole is $\Phi 12$ , and the contact type is C type									
4	Number of contacts	11: 1NO, 1NC		22: 2NO, 2NC							
5	Auxiliary order code	No marking: normal button		D: illuminated button		T: latching button		TD: illuminated latching button			
6	Head shape	No marking: round		F: square		J: rectangular					
7	Color code	● Red-r		● Green-g		● Yellow-y		○ White-w		● Blue-b	● Black-k
8	Voltage code	21: DC 6V external resistance 240 $\Omega$ 1/2W			22: DC 12V external resistance 680 $\Omega$ 1W			23: DC 24V external resistance 1.3k $\Omega$ 1W			Type of light bead: LED
9	Auxiliary code	No marking: supply based on normal order code With marking: marked as required, the marked code is composed of 1-10 characters, for marking supply information									

## Technical feature

Working temperature	-25 $^{\circ}$ C ~+55 $^{\circ}$ C	Average temperature in 24h not over +35 $^{\circ}$ C
Working humidity	$\leq 90\%$ RH, the relative humidity is not over 50% when the temperature exceeds 40 $^{\circ}$ C	
Contact resistance	$\leq 100\text{m}\Omega$	
Insulation resistance	$\geq 100\text{M}\Omega$	
Power frequency withstand voltage	AC 1500V	50Hz · 1min
Mechanical endurance	200,000 times (1,200 times/hour) for normal button and illuminated button 100,000 times (1,200 times/hour) for latching button	
Electrical endurance	200,000 times (1,200 times/hour) for normal button and illuminated button 100,000 times (1,200 times/hour) for latching button	
Head protection class	IP 40	

### Note

- LA39-F series pushbuttons are small in size. In order to ensure the brightness and service life of this series of illuminated buttons, users need to connect the choked flow resistor in series (provided by our company) outside the products. Choked flow resistor parameters can be found in the voltage code column in the order code description table on this page.

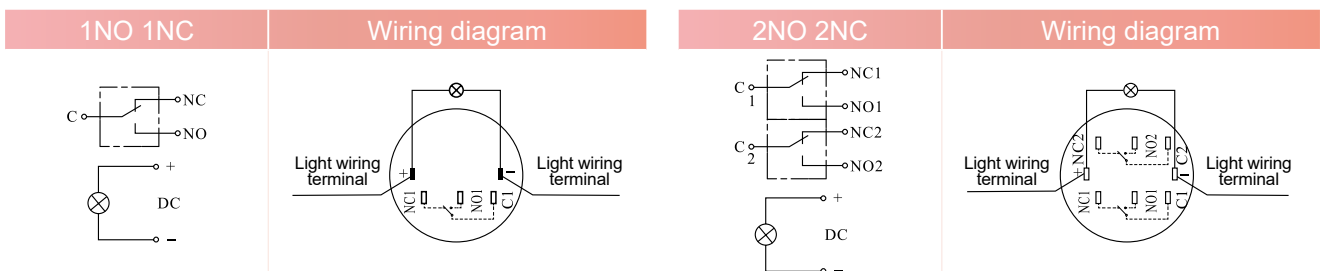
## ◎ Structural feature

- The structural members are connected by advanced momentary-in and latching, which are safe, reliable and convenient for assembly and disassembly.
- The contacts are converted by instantaneous mechanism, with easy and fast operation and reliable contact.
- High-quality metal and plastic materials at home and abroad are selected, and advanced precision manufacturing and processing technologies are adopted to ensure that the product accuracy and quality meet the design requirements.
- The contacts are made of high-quality silver alloy, with reliable on-off and long service life.
- The button head of illuminated pushbutton is bright in color, with soft and eye-catching lighting, and there are red, green, yellow, blue and white colors for users to choose.
- According to the requirements of user's operation instructions, various forms of marks or signs (symbols, letters, characters, etc.) can be configured.

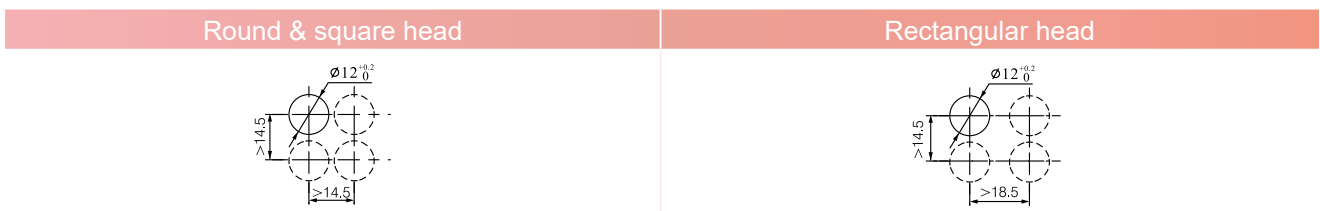
## ◎ Rated contact capacity

Rated insulation voltage $U_i$		250V		
Conventional thermal current $I_{th}$		5A		
Usage category	Rated working voltage $U_e$	24V	110V	220V
AC-15	Rated working current $I_e$	2A	1A	0.5A
DC-13		0.7A	0.2A	0.1A

## ◎ Contact type and wiring diagram



## ◎ Installation hole dimensions

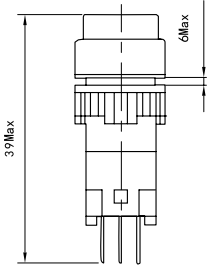

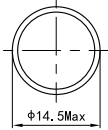

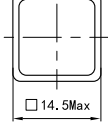


Note

- Wiring: weld the terminal within 20W/5s or 260°C /3s, and do not apply external force to the terminal. When welding, the soldering iron shall not touch the shell. When wiring, stress shall be prevented from acting on the terminal, neither bending or lifting the terminal nor applying external force to the terminal.
- For latching buttons, make sure that the button is in the release position before replacing the components. If the button in the locked position is replaced, the internal mechanism may be damaged.
- The buttons shall be operated by hand, rather than other devices which are strictly forbidden.




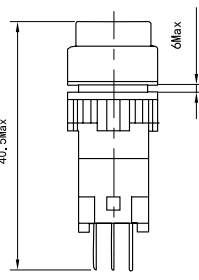

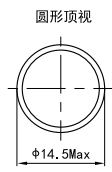

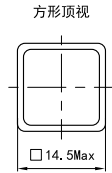
## Φ 12 LA39-F series pushbutton selection

Name	Type	Working status	Contact	Order code	Color	Dimension
Round button 	Momentary	11	LA39-F11/ ▲	<ul style="list-style-type: none"> <li>● Red-r</li> <li>● Green-g</li> <li>● Yellow-y</li> <li>○ White-w</li> <li>● Blue-b</li> <li>● Black-k</li> </ul>		
		22	LA39-F22/ ▲			
	Latching	11	LA39-F11T/ ▲			
		22	LA39-F22T/ ▲			
Square button 	Momentary	11	LA39-F11F/ ▲	<ul style="list-style-type: none"> <li>● Red-r</li> <li>● Green-g</li> <li>● Yellow-y</li> <li>○ White-w</li> <li>● Blue-b</li> <li>● Black-k</li> </ul>		
		22	LA39-F22F/ ▲			
	Latching	11	LA39-F11TF/ ▲			
		22	LA39-F22TF/ ▲			
Rectangular button 	Momentary	11	LA39-F11J/ ▲	<ul style="list-style-type: none"> <li>● Red-r</li> <li>● Green-g</li> <li>● Yellow-y</li> <li>○ White-w</li> <li>● Blue-b</li> <li>● Black-k</li> </ul>		
		22	LA39-F22J/ ▲			
	Latching	11	LA39-F11TJ/ ▲			
		22	LA39-F22TJ/ ▲			

Note

- Indicate the color at ▲ behind the slash.
- LA39-F series pushbuttons are small in size. In order to ensure the brightness and service life of this series of illuminated buttons, users need to connect the choked flow resistor in series (provided by our company) outside the products.

## Φ 12 LA39-F series pushbutton selection

Name	Type	Working status	Contact	Order code	Color	Light voltage	Dimension
Illuminated round button 	Momentary	11	LA39-F11D/ ▲★	● Red-r ● Green-g ● Yellow-y ○ White-w ● Blue-b	21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V		
		22	LA39-F22D/ ▲★				
	Latching	11	LA39-F11TD/ ▲★				
		22	LA39-F22TD/ ▲★				
Illuminated square button 	Momentary	11	LA39-F11DF/ ▲★	● Red-r ● Green-g ● Yellow-y ○ White-w ● Blue-b	21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V		
		22	LA39-F22DF/ ▲★				
	Latching	11	LA39-F11TDF/ ▲★				
		22	LA39-F22TDF/ ▲★				
Illuminated rectangular button 	Momentary	11	LA39-F11DJ/ ▲★	● Red-r ● Green-g ● Yellow-y ○ White-w ● Blue-b	21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V		
		22	LA39-F22DJ/ ▲★				
	Latching	11	LA39-F11TDJ/ ▲★				
		22	LA39-F22TDJ/ ▲★				

Note

- Indicate the color at ▲ behind the slash and indicate the voltage grade of illuminated button at ★ .
- LA39-F series pushbuttons are small in size. In order to ensure the brightness and service life of this series of illuminated buttons, users need to connect the choked flow resistor in series (provided by our company) outside the products.



# AD16

## Series Indicator and Buzzer

### Product Features

- AD16 series indicators use high-bright pure LED luminous chip as light source, characterized by long service life, low energy consumption, small size and lightweight, which are updating products of XD-type incandescent lamps and neon lamp indicators. AD16-22, AD16-16A, B and AD16-12A indicators launched by our factory are characterized by high brightness, good reliability, beautiful appearance and exquisite manufacturing, which are generally praised by users. In order to meet the increasing quality and aesthetic requirements of users, we have also developed 22-series products including AD16-22B, C, D, E, H, P (planar) and I-type (outdoor) bi-color lights, position indicators, flashing buzzers and ultrashort indicators, and 16-series products including AD16-16C, CF, CJ and G-type (outdoor) indicators, as well as AD-16M, MF and MJ-type buzzers. The appearance design consistent with the style of LA39 series pushbuttons is adopted. Various international standard symbols or customized symbols can be engraved in the lampshade. The lampshade is made of high-strength polycarbonate, which has good impact resistance and built-in screw wiring, making it safer and more convenient. All improvements will make your selection and use more convenient and the design more perfect.
- AD16 series indicators can be used as indicating signals, warning signals, accident signals and other indicating signals in the lines of power, telecommunications, machine tools, ships, textiles, printing, mining machinery and other equipment.

# ADD16



## Order code description

No.	AD16 — □ □ / □ □ □ □ □ □ □ □ □ □									
	1	2	3	4	5	6	7	8	9	
1	Indicator order code	Indicator order code + design S/N								
2	Basic specification code	Indicates hole dimensions								
3	Auxiliary specification code	Different order codes of the same neck size are represented by A, B, C and D								
4	Color code	● Red-r ● Green-g ● Yellow-y ○ White-w ● Blue-b								
5	Voltage code	Represented by two digits (refer to the voltage grade code table for details)								
6	Product specification	The standard type is without any letter, ultra-short type (not applicable for DC220V and above) is marked with "S" B – continuous (B is only limited to buzzer or flashing buzzer, none – flashing intermittently)								
7	Performance code	None – normal H – high brightness k + voltage: anti-interference D – unidirectional conduction V – sound and light separated								
8	Application environment	None – normal TH – damp-heat type Head protection class: IP65, IP40, IP54 Marking if customized: IP54, IP65								
9	Auxiliary code	No marking: supply based on normal order code With marking: marked as required, the marked code is composed of 1-10 characters, for marking supply information								


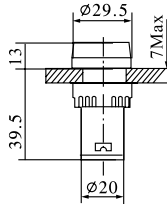

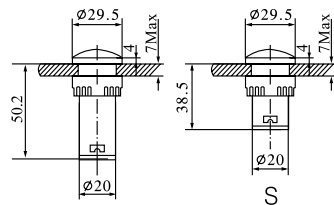

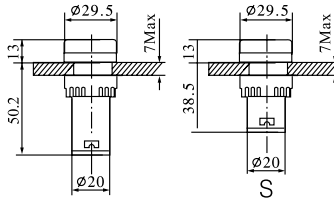

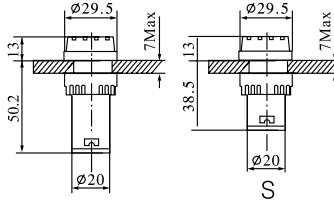
## Technical feature

Power frequency withstand voltage	AC 1890V 50Hz · 1min	Use frequency	AC50~60Hz
Insulation resistance	≥100MΩ	Working temperature	-25°C ~+55°C Average temperature in 24h not over +35°C
Allowable voltage fluctuation of AC indicator	±20%	Working humidity	≤90% RH, the relative humidity is not over 50% when the temperature exceeds 40°C
Continuous working endurance	≥30000 hours	Vibration frequency	Work normally under the vibration frequency of 2-80Hz and acceleration of 0.7g
Light brightness	≥100cd/m <sup>2</sup>	Pollution grade	Grade 3, installation class III
Relative discharge tracking index	CTI≥175	Application environment	Those marked with "TH" can work normally in a humid and tropical environment

## Voltage grade code table

Voltage code	Power supply	Voltage (V)	Current (mA)	Optional anti-interference voltage (V)				
21	AC.DC	6V	15(g.w), 25(b), 35(r.y)	K3				
22		12V		K3	K6			
23		24V		K5	K10			
24		36V	15	K5	K10			
25		48V		K5	K10	K20		
26		110V		K20	K40	K60		
27		127V	10	K20	K40	K60		
28		220V		K30	K60	K90	K120	
33		270V		K30	K60	K90	K120	
29		380V		K30	K60	K90	K120	
34		400V		K30	K60	K90	K120	
35		440V		K30	K60	K90	K120	
30		AC	500V	8	K30	K60	K90	K120
31			220V	15	K30	K60	K90	K120
40			230V		K30	K60	K90	K120
41	240V		K30		K60	K90	K120	
32	380V		18	K30	K60	K90	K120	
				K30	K60	K90	K120	


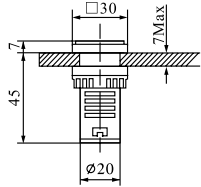


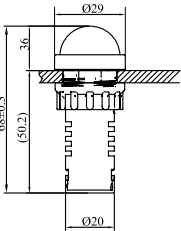

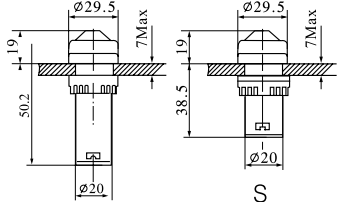

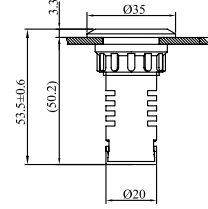
## Φ 22 AD16-22 series indicator selection

Name	Type	Order code	Color	Voltage code	Dimension
Φ22 Type B		AD16-22B/ ▲★			 Installation hole Φ22.5、Φ25
Φ22 Type C		AD16-22C/ ▲★ AD16-22C/ ▲★ S s: short shell		21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 24-AC/DC 36V 25-AC/DC 48V 26-AC/DC 110V 27-AC/DC 127V 28-AC/DC 220V 33-AC/DC 270V 29-AC/DC 380V 34-AC/DC 400V 35-AC/DC 440V 30-AC/DC 500V 31-AC 220V 40-AC 230V 41-AC 240V 32-AC 380V	 Installation hole Φ22.5、Φ25
Φ22 Type D		AD16-22D/ ▲★ AD16-22D/ ▲★ S s: short shell	● Red-r ● Green-g ● Yellow-y ○ White-w ● Blue-b		 Installation hole Φ22.5、Φ25
Φ22 Type E		AD16-22E/ ▲★ AD16-22E/ ▲★ S s: short shell			 Installation hole Φ22.5、Φ25

Note

- Short-shell indicator is applicable to places with narrow installation space. All short-shell indicators are applicable to Φ22.5 and Φ25 openings, and in the case of Φ25 opening, it needs to be matched with a reducing ring.
- The indicator of DC power supply can be applicable to AC power supply.
- Due to heat dissipation conditions, there is no AC/DC voltage of 220V or above for short-shell indicators. (If DC220V and discharge lamp are needed, we will provide a slightly longer lamp shell, by removing the S in the order code)
- Indicate the color at ▲ behind the slash following order code and indicate the voltage grade of illuminated button at ★.

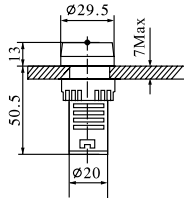
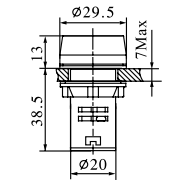
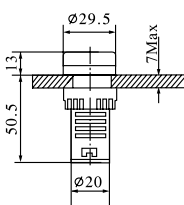
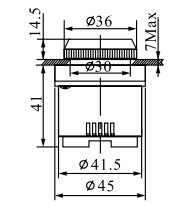
## Φ 22 AD16-22 series indicator selection

Name	Type	Order code	Color	Working voltage	Dimension
Φ22 Type F		AD16-22F/ ▲★			 Installation hole Φ22.5、Φ25
Φ22 Type I	 	AD16-22I/ ▲★ AD16-22I/ ▲★ -JW	● Red-r ● Green-g ● Yellow-y ○ White-w ● Blue-b	21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 24-AC/DC 36V 25-AC/DC 48V 26-AC/DC 110V 27-AC/DC 127V 28-AC/DC 220V 33-AC/DC 270V 29-AC/DC 380V 34-AC/DC 400V 35-AC/DC 440V 30-AC/DC 500V 31-AC 220V 40-AC 230V 41-AC 240V 32-AC 380V	 Installation hole Φ22.5、Φ25
Φ22 Type H		AD16-22H/ ▲★ AD16-22H/ ▲★ S s: short shell			 Installation hole Φ22.5、Φ25
Φ22 Type P		AD16-22P/ ▲★		DC 220V AC 380V	 Installation hole Φ22.5、Φ25

Note

- Short-shell indicator is applicable to places with narrow installation space. All short-shell indicators are applicable to Φ22.5 and Φ25 openings, and in the case of Φ25 opening, it needs to be matched with a reducing ring.
- The indicator of DC power supply can be applicable to AC power supply.
- Due to heat dissipation conditions, there is no AC/DC voltage of 220V or above for short-shell indicators. (If DC220V and discharge lamp are needed, we will provide a slightly longer lamp shell, by removing the S in the order code)
- Indicate the color at ▲ behind the slash following order code and indicate the voltage grade of illuminated button at ★.

## Φ 22 Φ 30 AD16 series buzzer/flashlight selection

Name	Type	Order code	Color	Working voltage	Dimension	Note
Buzzer		AD16-22M/K ★	● Black-k			Buzzer sounds intermittently or continuously, with a volume of 10cm/80db
Flashing buzzer		AD16-22SM/ ▲★ AD16-22SM/ ▲★ S s: short shell	● Red-r ● Green-g ● Yellow-y	21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 24-AC/DC 36V 25-AC/DC 48V 26-AC/DC 110V	 Flashing buzzer type S	Buzzer sounds intermittently or flashes, with a volume of 10cm/80db. Continuous sounding/constant lighting can be customized. S short-shell flashing buzzer can realize the following voltages: 21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 24-AC/DC 36V
Flashlight		AD16-22S/ ▲★	● Red-r ● Green-g ● Yellow-y ○ White-w ● Blue-b	27-AC/DC 127V 28-AC/DC 220V 31-AC 220V 40-AC 230V 41-AC 240V 32-AC 380V	 Installation hole Φ22.5, Φ25	
Φ 30 buzzer		AD16-30MW/w AD16-30M/w ★	Alarm whistle-W/ ○ White-w		 Installation hole Φ30.5	1. Sound volume is 10cm/100db. 2. The buzzer can sound continuously or intermittently (by default). If continuous sounding is needed, add C behind the voltage code. 3. The alarm whistle is only applicable to voltages of 110V and below.

Note

- Short-shell flashing buzzer is applicable to places with narrow installation space.
- Short-shell flashing buzzers are applicable to Φ22.5 and Φ25 openings, and in the case of Φ25 opening, it needs to be matched with a reducing ring.
- Indicate the color at ▲ behind the slash following order code and indicate the voltage grade at .






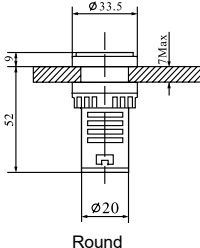

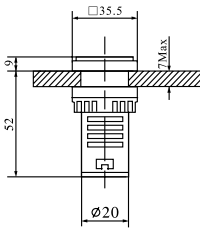


## Selection of $\Phi 22$ AD16-22 series indicator for special purpose

Name	Type	Order code	Color	Working voltage	Internal wiring diagram	Dimension	Note
Round bi-color light		AD16-22D/ ▲★	● Red-r ● Green-g	22-AC/DC 12V 23-AC/DC 24V 24-AC/DC 36V 25-AC/DC 48V 26-AC/DC 110V 27-AC/DC 127V 28-AC/DC 220V 33-AC/DC 270V 34-AC/DC 400V 29-AC/DC 380V 31-AC 220V 40-AC 230V 41-AC 240V 32-AC 380V	<p>AC &amp; DC type</p> <p>AC type</p>	<p>Installation hole <math>\Phi 22.5</math>、<math>\Phi 25</math></p>	<p>Warning:</p> <ol style="list-style-type: none"> <li>When using AC indicator, the wiring must not be wrong, otherwise the indicator will be damaged.</li> <li>The lamp is red and green. If other colors are needed, please specify separately.</li> </ol>
Square bi-color light		AD16-22BF/ ▲★	● Red-r ● Green-g	21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 24-AC/DC 36V 25-AC/DC 48V 26-AC/DC 110V 27-AC/DC 127V 28-AC/DC 220V 29-AC/DC 380V 33-AC/DC 270V 34-AC/DC 400V 29-AC/DC 380V 31-AC 220V 40-AC 230V 41-AC 240V 32-AC 380V	<p>AC &amp; DC type</p> <p>AC type</p>	<p>Installation hole <math>\Phi 22.5</math>、<math>\Phi 25</math></p>	<ol style="list-style-type: none"> <li>There is no AC/DC voltage of 220V and above for short-shell indicators of type B and other types.</li> <li>It is suggested that the threshold value shall not be too high. If the interference voltage is too high, please check the wiring.</li> </ol>
Anti-interference indicator		AD16-22 ■ / ▲★ -K	● Red-r ● Green-g ● Yellow-y ○ White-w ● Blue-b	21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 24-AC/DC 36V 25-AC/DC 48V 26-AC/DC 110V 27-AC/DC 127V 28-AC/DC 220V 29-AC/DC 380V 33-AC/DC 270V 34-AC/DC 400V 35-AC/DC 440V 29-AC/DC 380V 31-AC 220V 40-AC 230V 41-AC 240V 32-AC 380V	<p>Threshold circuit</p> <p>Threshold circuit</p>	<p>Installation hole <math>\Phi 22.5</math>、<math>\Phi 25</math></p>	<ol style="list-style-type: none"> <li>There is no AC/DC voltage of 220V and above for short-shell indicators of type B and other types.</li> <li>It is suggested that the threshold value shall not be too high. If the interference voltage is too high, please check the wiring.</li> </ol>
Test type indicator		AD16-22DY/ ▲★	● Red-r ● Green-g ● Yellow-y ○ White-w ● Blue-b	23-AC/DC 24V 24-AC/DC 36V 25-AC/DC 48V 26-AC/DC 110V 27-AC/DC 127V 28-AC/DC 220V 31-AC 220V 40-AC 230V 41-AC 240V 32-AC 380V		<p>Installation hole <math>\Phi 22.5</math>、<math>\Phi 25</math></p>	Do not be in the test state for a long time.

Note

- Indicate Type B, C, D etc. at ■ before the slash following order code, indicate the color at ▲ behind the slash and indicate the voltage grade of illuminated button at ★. Wiring error is not allowed for AC bi-color light (such as X1, X2 connection).

## Φ 22 AD16-22 series position indicator selection


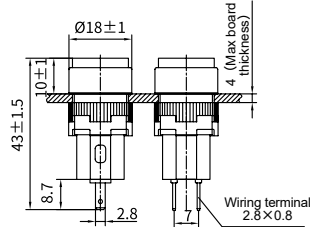

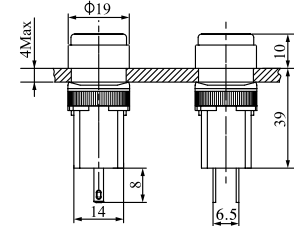

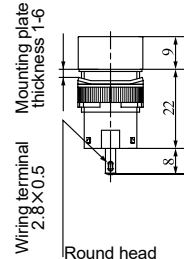

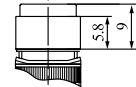


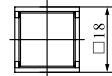
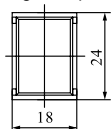
Name	Type	Order code	Color	Working voltage	Dimension	Note				
Isolation disconnector position indicator		AD16-22W/ G ★ Round	X0X1 powered on glow green							
		AD16-22WF/ G ★ Square	X0X2 powered on glow red							
Circuit breaker position indicator		AD16-22W/ D ★ Round	X0X1 powered on glow red	23-AC/DC 24V 24-AC/DC 36V 25-AC/DC 48V 26-AC/DC 110V 27-AC/DC 127V 28-AC/DC 220V 31-AC 220V 40-AC 230V 41-AC 240V 32-AC 380V	 Round	Illuminating form	Order code			
								X0-X1	X0-X2	X1-X2
									AD16-22W/ D	
									AD16-22W/ D-S1	
									AD16-22W/ D-S2	
						AD16-22W/ D-S3				
		AD16-22WF/ D ★ Square	X0X2 powered on glow red			 Square	Illuminating form	Order code		
									X0-X1	X0-X2
										AD16-22W/ D-S4
										AD16-22W/ D-S5
							AD16-22W/ D-S6			
			AD16-22W/ D-S7							
Earthing position indicator		AD16-22W/ N ★ Round	X1X2 powered on glow red							
		AD16-22WF/ N ★ Square								

Installation hole  
Φ22.5、Φ25

Note

- Wiring error is not allowed for isolation disconnector and circuit breaker position indicators (such as X1, X2 connection). Indicate the voltage grade at ★ behind the slash.


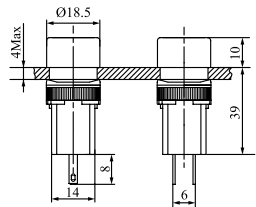

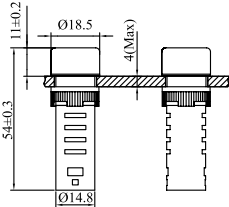

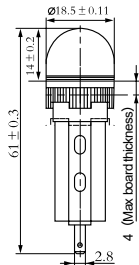
## Φ 16 AD16-16 series indicator selection

Name	Type	Order code	Color	Working voltage	Dimension
		AD16-16A/ ▲★		20-AC/DC 5V 21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 24-AC/DC 36V 25-AC/DC 48V	
Plug-in wiring indicator		AD16-16B/ ▲★		18-AC/DC 75V 26-AC/DC 110V 28-AC/DC 220V 31-AC 220V 32-AC 380V	 Installation hole Φ16.3
Round indicator		AD16-16C/ ▲★	<ul style="list-style-type: none"> <li>● Red-r</li> <li>● Green-g</li> <li>● Yellow-y</li> <li>○ White-w</li> <li>● Blue-b</li> </ul>		
Square indicator		AD16-16CF/ ▲★		21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 16-AC/DC 30V 24-AC/DC 36V 25-AC/DC 48V 17-AC/DC 63V 18-AC/DC 75V 26-AC/DC 110V 28-AC/DC 220V 33-AC/DC 270V	 Round top view 
Rectangular indicator		AD16-16CJ/ ▲★			Square top view  Rectangular top view  Installation hole Φ16.3

**Note**

• Indicate the color at ▲ behind the slash and indicate the voltage grade of an illuminated button at ★ .


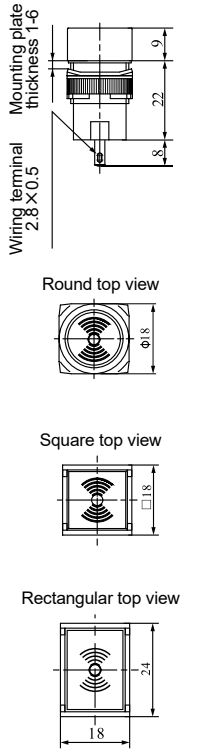


## Φ 16 AD16-16 series indicator selection

Name	Type	Order code	Color	Working voltage	Dimension
Plug-in wiring indicator		AD16-16D/ ▲★		21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 16-AC/DC 30V 24-AC/DC 36V 25-AC/DC 48V 26-AC/DC 110V 27-AC/DC 127V 28-AC/DC 220V 31-AC 220V 32-AC 380V 41-AC 240V	 Installation hole Φ16.3
Screw-type wiring indicator		AD16-16DL/ ▲★	<ul style="list-style-type: none"> <li>● Red-r</li> <li>● Green-g</li> <li>● Yellow-y</li> <li>○ White-w</li> <li>● Blue-b</li> </ul>		 Installation hole Φ16.3
Plug-in wiring indicator (spherical head)		AD16-16G/ ▲★		21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 24-AC/DC 36V 25-AC/DC 48V 26-AC/DC 110V 27-AC/DC 127V 28-AC/DC 220V 31-AC 220V 32-AC 380V	 Installation hole Φ16.3

**Note**

- Indicate the color at ▲ behind the slash and indicate the voltage grade of an illuminated button at ★.



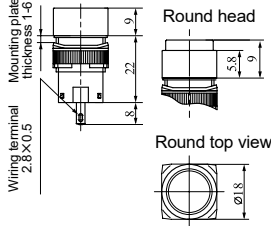


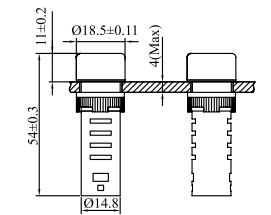
## Φ 16 AD16-16 series buzzer selection

Name	Type	Order code	Sounding way & color	Working voltage	Rated sound pressure & frequency	Dimension
Round buzzer		AD16-16M/  ★				 <p>Wiring terminal 2.8x0.5</p> <p>Mounting plate thickness 1-6</p> <p>Round top view</p> <p>Square top view</p> <p>Rectangular top view</p> <p>Installation hole Φ16.3</p>
Square buzzer		AD16-16MF/  ★	Default (intermittent) B constant buzzing	21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 24-AC/DC 36V 25-AC/DC 48V	75dB (at 10cm) Under rated pressure 2300Hz±400Hz	
Rectangular buzzer		AD16-16MJ/  ★				


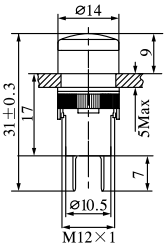
**Note**

- Indicate the sounding way at  behind the slash following order code and indicate the voltage grade at ★ .

## Φ 16 AD16-16 series indicator buzzer selection


Name	Type	Order code	Sounding way & color	Working voltage	Rated sound pressure & frequency	Dimension
 Plug-in wiring flashing buzzer		AD16-16SM/  ▲★	Default (intermittent, flashing); B (continuous, constant lighting) ● Red-r ● Yellow-y	22-AC/DC 12V 23-AC/DC 24V 24-AC/DC 36V 25-AC/DC 48V	80dB (at 10cm)	
 Screw-type wiring flashing buzzer		AD16-16SML/  ▲★				

## Φ 12 AD16-12 series indicator selection

Name	Type	Order code	Color	Working voltage	Dimension
 Round indicator		AD16-12A/ ▲★	● Red-r ● Green-g ● Yellow-y ○ White-w ● Blue-b	21-AC/DC 6V 22-AC/DC 12V 23-AC/DC 24V 24-AC/DC 36V 25-AC/DC 48V 26-AC/DC110 28-AC/DC220	

Note

Wiring modes: welding and plug-in connection

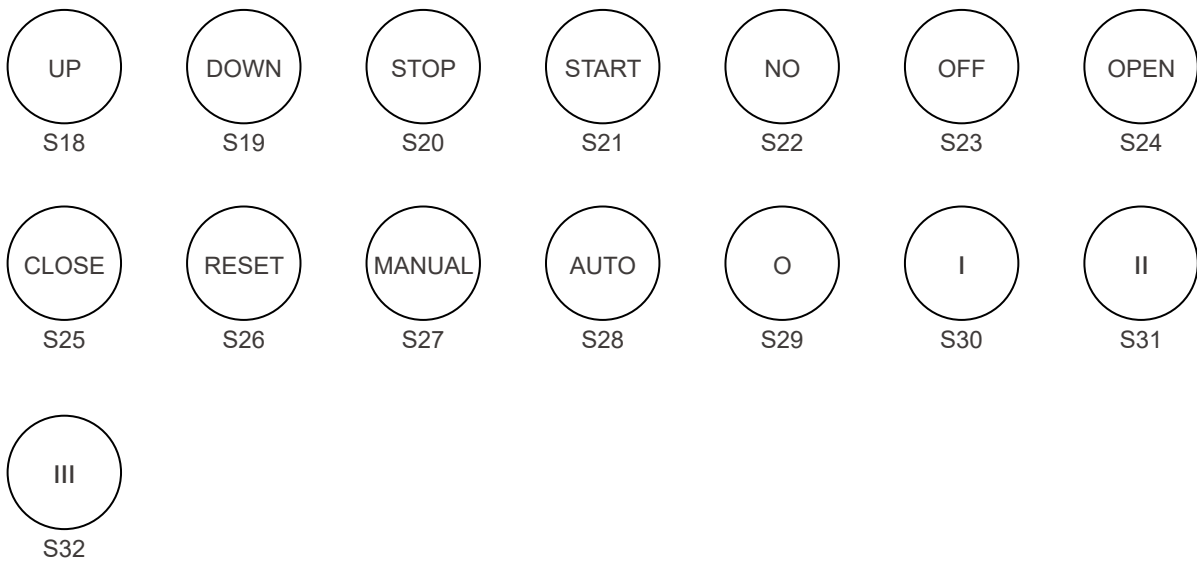
- The wiring shall avoid being welded as far as possible, and shall be connected by international general-purpose socket (2.8x0.5mm) and covered with the protective sleeve.
- When welding is used: weld the wiring terminal within 20W/5s or 260°C /3s, and do not apply external force to the terminal. When welding, the soldering iron shall not touch the shell. When connecting, stress shall be prevented from acting on the terminal, neither bending or lifting the terminal nor applying external force to the terminal. (Welding method is not recommended)
- Indicate the sounding way at  behind the slash following order code, indicate the color at ▲ and indicate the voltage grade at .

### ◎ Pushbutton and indicator lettering symbols

#### Chinese symbol

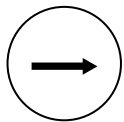


#### Standard symbol

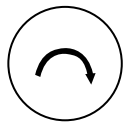


## ◎ Pushbutton and indicator lettering symbols

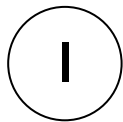
ISO symbol



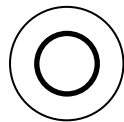
S33 straight line



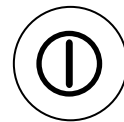
S34 rotate



S35 start



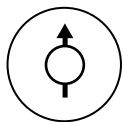
S36 stop



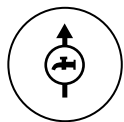
S37 start · stop



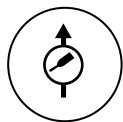
S38 inching



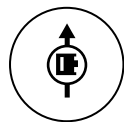
S39 pump



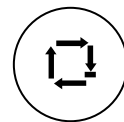
S40 cooling pump



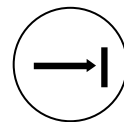
S41 lubricant pump



S42 hydraulic pump



S43 Auto or auto circulation

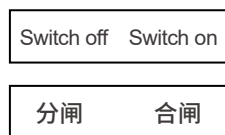


S44 limited linear movement

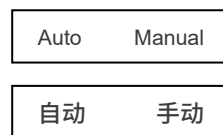
## ◎ Knob signage or signage frame lettering



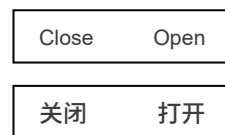
SX1



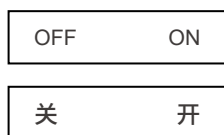
SX2



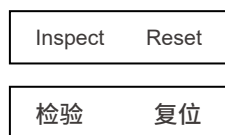
SX3



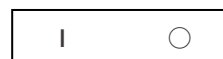
SX4



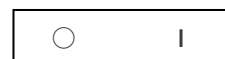
SX5



SX6



SX7



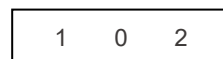
SX8



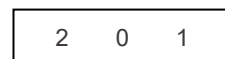
SX9



SX10



SX11



SX12



SX13



SX14



SX15



SX16