## LA39-E Push Button 16mm Siemens APT

#### **LA39-E Pushbutton**

LA39-E series Ø16 Pushbutton are featured as clever design, good visual appearance, and exquisite body, simple and easy installation as well as reliable contact. They are the best choice for the users requiring miniaturized and intensive control of the panel.

#### **Visual Appearance**

The actuators of the indicators and illuminated pushbuttons have bright color with soft and distinguished light, including a variety of colors such as red, green, yellow, blue and white for option. This series of Pushbuttons have the complete forms and types. Their actuator shapes include round, square and rectangular types, which can greatly satisfy the demands of the users.

#### **Structural Features**

This series of Pushbuttons consist of two systems – the threaded sleeve part that constitutes the actuator operation mechanism and the base part that constitutes the contact actuation mechanism. The connection of all structures is the internationally advanced no-fastener and buckle Maintained connection structural form with convenient installation and dismantling, safe and reliable. The anti-rotation structure is used to ensure correct pushbutton installation positioning and prevent looseness.

#### **Contacts**

The base part has one NOand one NCor two NOand two NCcontacts. It is designed with contact self-cleaning mechanism and is a single-break Momentary switch. The contacts together with the contact chip are completely gold plated, which is a practical guarantee for the reliable contact and stable electric performance.

#### **Types and Specifications**

LA39-E series Pushbuttons have the complete types and specifications, normally including the normal pushbuttons, illuminated pushbuttons, pushbuttons with function symbol, two-position and three-position knobs (selection knobs), two-position and three-position key pushbuttons, mushroom pushbuttons, emergency stop pushbuttons, Maintained pushbuttons, buzzers, and indicators etc. Moreover, the normal pushbuttons, illuminated pushbuttons and pushbuttons with function symbol equipped with the accessory F-I or F-II can prevent the misoperation of the pushbuttons.

#### **Symbols**

The various types of marks or signs (symbols, letters and characters etc.) can be provided according to the requirements of the users' operation instructions.

#### Standards IEC 60947 /GB 14048.5



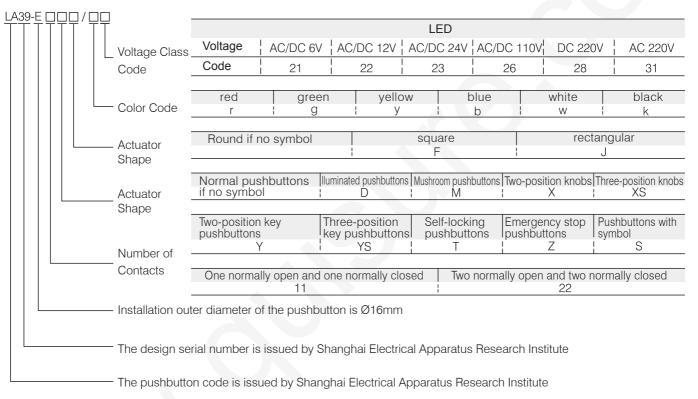




## Application

LA39-E series Pushbuttons have complete functions and can fully meet the control requirements of the domestic and foreign digital and program controlled devices as well as electronic and electric apparatus. They are widely used as auxiliary parts of control circuits, signal and interlock etc. in the various fields such as AC50Hz (60Hz) Voltage AC/DC 220V machine tools, textile, marine, aviation, automobile, tobacco, power, telecommunications and medical devices etc.

## **Model and Meanings**



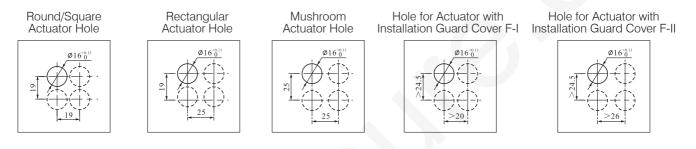
#### **Technical Parameters**

Work Temperature	-25°C~+55°C				
Work Humidity	45~85%RH				
Contact Resistance	≤50mΩ				
Insulation Resistance	≥100MΩ				
Rated Impulse Withstand Voltage (Uimp)	2000V AC				
Mechanical endurance	$10 \times 10^5$ times for normal pushbuttons $10 \times 10^4$ times for selector switches $5 \times 10^4$ times for emergency stop pushbuttons				
Electrical endurance	AC-15 100,000 times (1,200 times/hour)				
Electrical endurance	DC-13 50,000 times (1,200 times/hour)				
Protection Class of Actuator	IP40 Those with "TH" mark can work normally under the humid tropic environment.				
Action Travel	1.5~2.0mm				

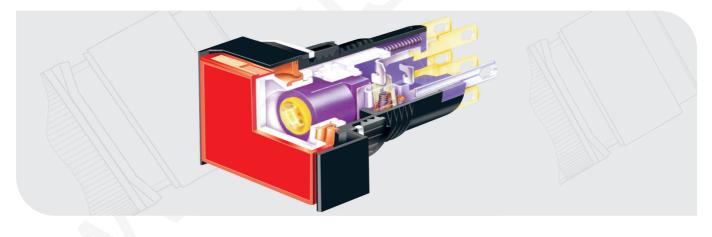
## **Rated Work condition**

Rated Insulation Voltag	e Ui	250V			
Conventional Thermal	Current Ith				
Application Category	Rated Work Voltage Ue	24V	110V	220V	
AC-15	Rated Work Current le	2A	1A	0.5A	
DC-13	Raleu work current le	0.7A	0.2A	0.1A	

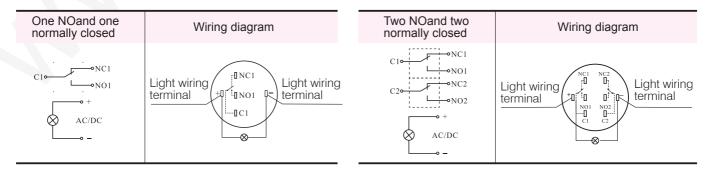
## **Installation Hole Sizes**



## **Sectional View of Control Components**



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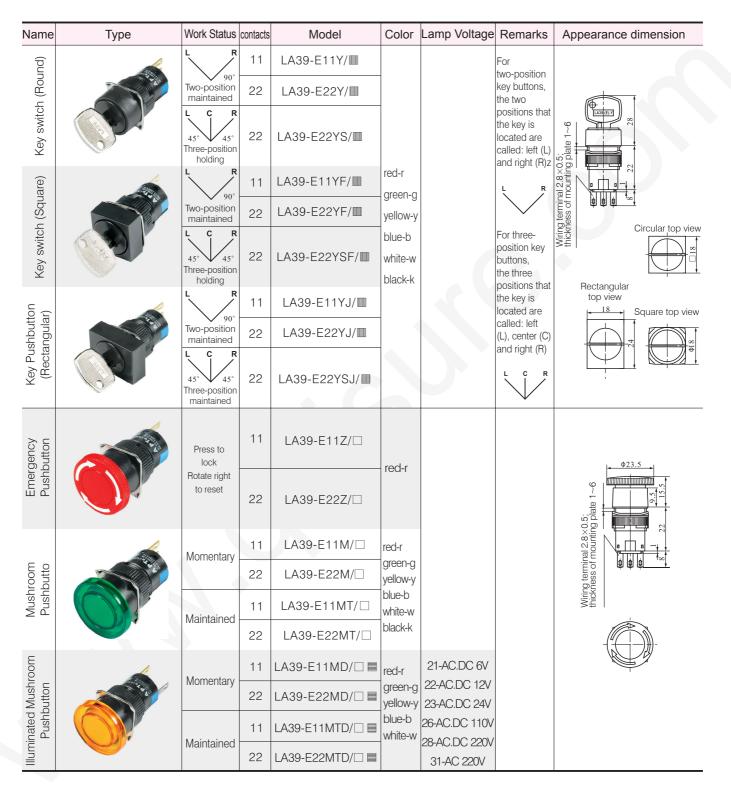


## **Model Selection**

Name	Туре	Work Status	Contacts	Model	Color	Lamp Voltage	Appearance dimension
switch nd)	L R	11	LA39-E11X/0				
	Two-position holding	22	LA39-E22X/			Circular head	
Selector (Rou	Selector switch (Bound)	L C R 45° 45° Three-position holding	22	LA39-E22XS/a	red-r		8 × 0.5
f		L R	11	LA39-E11XF/🛛	green-g yellow-y blue-b white-w black-k		of plate 1
ector swite (Square)		Two-position holding	22	LA39-E22XF/a			Wiring terminal 2.8 × 0.5 Thickness of plate 1~6 Circinal to home
Selecto (Squ	Selector switch (Square)	L C R 45° 45° Three-position holding	22	LA39-E22XSF/			Rectangular top view
ha cr		L R	11	LA39-E11XJ/a			Square top view
ır swit ngula		Two-position holding	22	LA39-E22XJ/a			
Selectc (Recta	Selector switch (Rectangular)	L C R 45° 45° Three-position holding	22	LA39-E22XSJ/			
ector e)	4	L R	11	LA39-E11XD/ 🗆 🖾		21-AC.DC 6V 22-AC.DC 12V	
d sele Squar		√ 90° Two-position holding	22	LA39-E22XD/ 🗆 🖾			
Illuminate switch (	Illuminated selector switch (Square)	L C R 45° 45° Three-position holding	22	LA39-E22XSD/ 🗆 🔊			Wind terminal 2.8×0.5 Thickness of plate 0.5~6
ctor e)		L R	11	LA39-E11XDF/ 🗆 🖾	red-r green-g		
l selec Squar		→ 90° Two-position holding	22	LA39-E22XDF/ 🗌 🖾	yellow-y	23-AC.DC 24V	Wiring Thickn
luminateo switch (;	luminated selector switch (Square)	L C R 45° 45° Three-position holding	22	LA39-E22XSDF/ 🗆 🕅	blue-b white-w	26-AC.DC 110V 28-AC.DC 220V 31-AC 220V	
ctor ular)	ctor ular)	L R	11	LA39-E11XDJ/ 🗆 🖾	-		
t sele		Two-position holding	22	LA39-E22XDJ/ 🗆 🔊			
Illuminated switch (Red	Illuminated selector switch (Rectangular)	L C R 45° 45° Three-position holding	22	LA39-E22XSDJ/ 🗆 🕅			

## **Description:**

"  $\square$  " in the column is indicated with color, and "  $\blacksquare$  " is indicates with the voltage class code.



#### **Description:**

"  $\blacksquare$  " is indicated with the position that the key can be pulled out: left (L), center (C), right (R)

"  $\square$  " in the column of model is indicated with color, and "  $\blacksquare$  "is indicated with the voltage class code.

# LA39-E Series Pushbutton Accessories

Name	Туре	Model	Description	Function	Size
Guard Cover		F- I	It is used for round and square actuators	Prevent misoperaiton	5+7 -20
Guard Cover		F-II	It is used for rectangular actuators	Prevent misoperaiton	
Blanking plug		F-III	Plug the blank holes on the panel (round actuators)	For decoration	
Blanking plug		F-IV	Plug the blank holes on the panel (square actuators)	For decoration	
Blanking plug		F-V	Plug the blank holes on the panel (rectangular actuators)	For decoration	→ M16×1, 24

# **LA39-E Series Pushbutton Accessories**

Name	Туре	Model	Description	Function	size
Fastening Wrench		F-VI	Assembling and disassembling tool	Assemble and disassemble the pushbuttons and light beads	
Wiring socket		F-VII	It is closely plugged in the rear of LA39-EØ16 series products	Avoid being directly welded to the wiring terminal of the pushbutton	
Fastening Nut		F-VⅢ F-IX	Plastic material metal material	For fastening Ø16 pushbuttons and indicators	Ф18 М16×1
LED Light Bead	Contraction of the second	F-D2/🗌 🗐	<ul> <li>☐ is indicated with color,</li></ul>	The light source in the illuminated pushbuttons	

#### **Description:**

- The switch wiring shall avoid being welded as much as possible. It is suggested that the internationally common used plug bush (2.8×0.5mm) shall be used and the jacket shall be installed.
- 2. If the welding is required for the wiring:
  - A. Hand welding 25W, within 3 seconds.
  - B. Auto welding 240  $^\circ\!\mathrm{C}\,$  , within 3 seconds.

No external force shall be applied within 1 minute after being welded and then the jacket shall be installed. Do not use any solvent for welding in order to prevent it from entering the inside of the switch and damaging the products.

3. The Pushbuttons shall be hand operated. It is prohibited to use any other tool for operation!