

CCC, CE Emergency Switch

LA39-A series



Model definition

La39 - 1 2 3 / 4 5 6

Separated into A₁A₂A₃ B₁B₂B₃ C₁C₂C₃ according to the different actuators and holders
The code and serial number of the pushpushbutton code are issued by Shanghai Electrical Apparatus Research Institute.

1 Num of NO; **2** Num of NC; **3** Auxiliary model

Letter	Meaning	Letter	Meaning	Letter	Meaning
	Normal Pushbutton	Z	Emergency stop Pushbutton	XS	Short-handle three-position selector switch
D	Illuminated Pushbutton	ZY	Key-reset emergency stop pushbutton	CX	Long-handle two-position selector switch
T	Maintained Pushbutton	Y	Two-position key switch	CXS	Long-handle three-position selector switch
M	Mushroom Pushbutton	YS	Three-position key switch		
MT	Maintained mushroom Pushbutton	X	Short-handle two-position selector switch		

4 Color code of the Pushbutton, action function and pull-out position of the selector switch and key switch

Red	Green	Yellow	Blue	White	Black
r	g	y	b	w	k
Action function			Key pull-out position		
f	fu	ffu	a	ao	au
Left reset	Right reset	Left Right reset	Pull out from the left	Pull out from the middle	Pull out from the right

5 Voltage code of the indicator

Code	21	22	23	24	25	26	27	28	31	32
Power Supply	AC · DC							DC	50-60Hz AC	
Voltage	6V	12V	24V	36V	48V	110V	127V	220V	220V	380V

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QUISURE

Keep quick, Make sure

ISO9001:2015

QUALITY GUARANTEED

⑥ Humid thermal type is added with "TH"

Technical Data

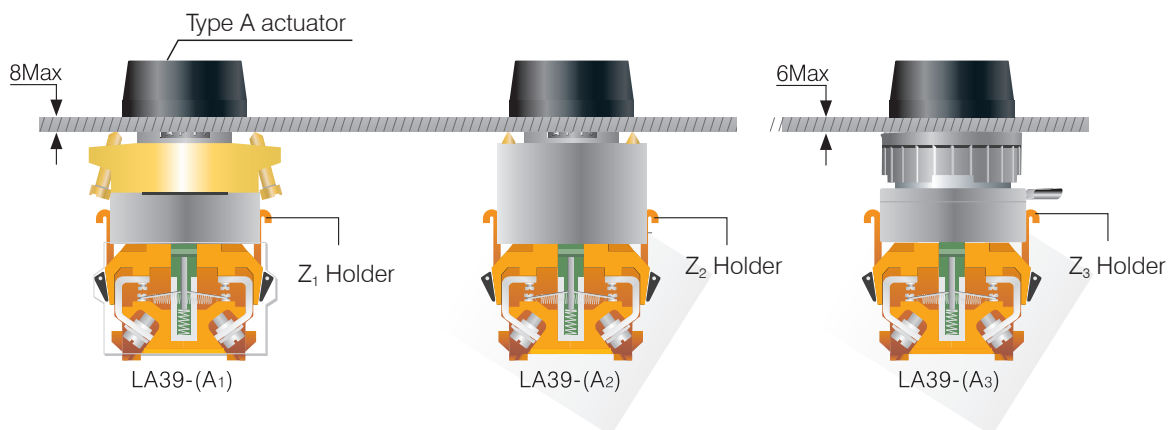
Rated Capacity	Snap-action type AC-15 220V/2.5A 380V/1.5A 660V/0.8A	DC-13 24V/3.6A 48V/3A 110V/1A 220V/0.4A 440V/0.25A
	Slow-action type AC-15 220V/6A 380V/4A 660V/2A	DC-13 24V/6A 48V/3A 110V/1A 220V/0.5A 440V/0.25A
Contact resistance	silver alloy contact $\leq 50\text{m}\Omega$	
Rated impulse withstand voltage U_{imp}	AC 2500V 50Hz·1min	
Mechanical endurance	Momentary Pushbutton $\geq 3 \times 10^6$ times, selector switch $\geq 30 \times 10^4$ times, key switch $\geq 5 \times 10^4$ times, emergency stop Pushbutton $\geq 5 \times 10^4$ times	
Electric life	$\geq 60 \times 10^4$ times	
Conventional thermal current	I_{th} 10A	
Rated insulation voltage	U_i AC660V	
Ambient temperature	$-25\text{ }^\circ\text{C} \sim +55\text{ }^\circ\text{C}$	
Protection class of the front part	Defaulted as IP54. Please mark "-IP65" after the model when ordering the products if IP65 is required; the key button is IP40. The flat head circular button of LA39-A/B type can be equipped with F1 to become IP67	

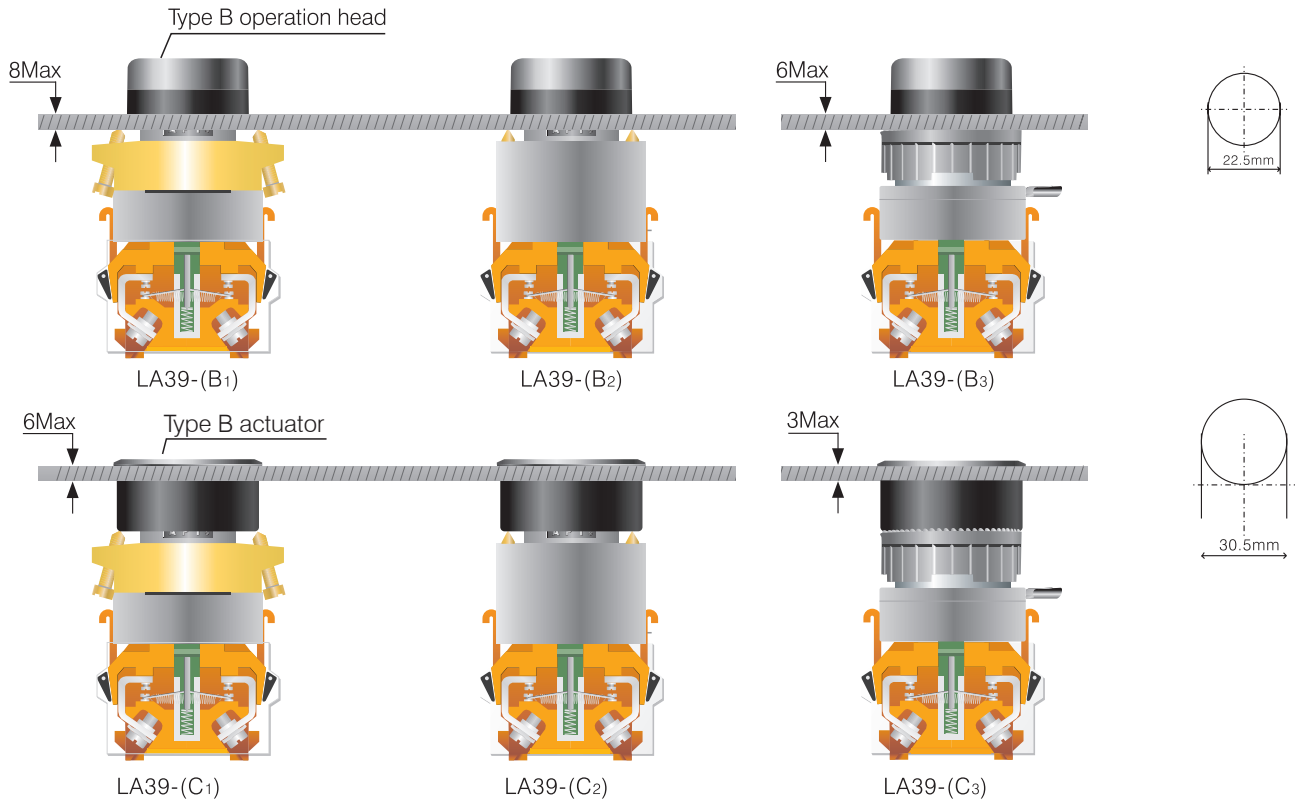
Component Materials

Outer Ring of Actuator	Holder	Actuator	Contact	Switch Shell	Contact Chip
AL Black	Zn or PBT.PA	PC	AgNi	PC	Cu

Standards

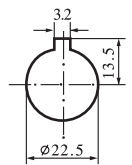
IEC 60947/GB 14048.5





Features:

1. LA39-(A₁B₁C₁): have distinctive visual profile with elegant lines. The inclined screws are used for installation and fixation, which meets European and American strict, solid and reliable project design philosophy.
2. LA39-(A₂B₂C₂): have clear visual arrangement. The high-strength PBT plastic parts are combined with the straight screws for fixation, which not only continues the stable and solid feature of A₁B₁C₁, but also considers the manufacturing cost. It is the simplified type of A₁B₁C₁ to provide the multiple economic options to the users.
3. LA39-(A₃B₃C₃): The nuts are used for fixation, simple and easy, which can reduce the installation difficulty and the work load of the users. The installation reliability may be reduced due to the influence of ambient temperature. It is suggested that such installation mode shall not be used when the selector switches and key switches which have switching work status are used. The selector switches cannot be used when C₃ is selected. The retainer ring shall be installed when A₃ and B₃ choose the selector switches. The hole opening size is shown on the right figure.


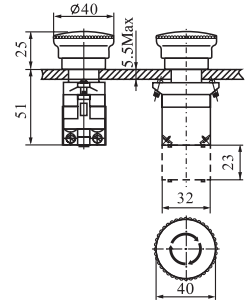
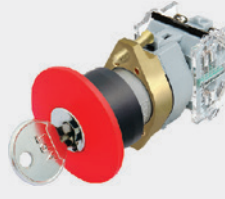
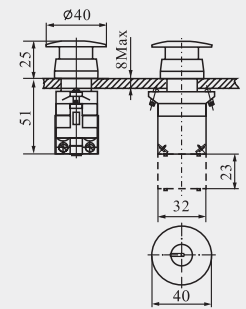

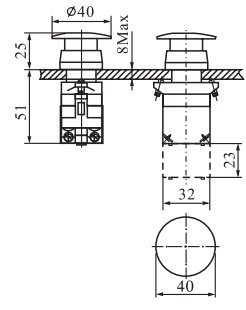
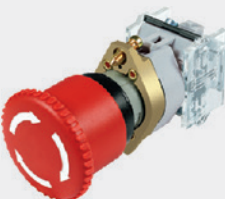
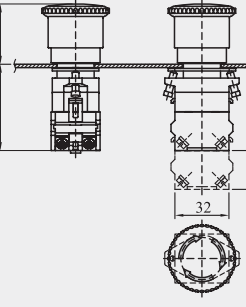


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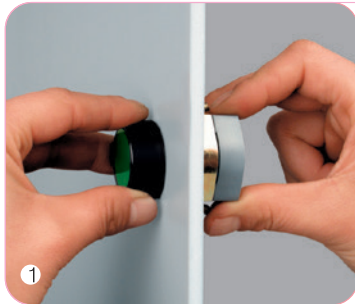
Product model selection

Name	Type	Work Status	Model	Color	Lamp Voltage	Appearance dimension
● Emergency Stop Pushbutton	 Note: $\varnothing 40\varnothing 60$	Press to lock, Twist clockwise to reset	LA39-A1-R $\begin{matrix} \text{Z} \\ \text{Z} \end{matrix}$	Opaque Red-r		
Key Reset Emergency Stop Pushbutton	 Note: $\varnothing 40$	Press to lock, Twist the key clockwise to reset	LA39-A1-R $\begin{matrix} \text{Z} \\ \text{ZY} \end{matrix}$	Opaque Red-r		
Pull type Emergency Stop Pushbutton		Press to lock, Pull to reset	LA39-A1-R $\begin{matrix} \text{Z} \\ \text{ZL} \end{matrix}$	Opaque Red-r		
Trigger action Emergency Stop Pushbutton		Press to lock, Twist clockwise to reset	LA39-A1-R $\begin{matrix} \text{Z} \\ \text{ZC} \end{matrix}$	Opaque Red-r		

Description:

1. $\begin{matrix} \text{Z} \\ \text{Z} \end{matrix}$ before the oblique line shall be filled with the number of NO and NC contacts.
 2. $\begin{matrix} \text{Z} \\ \text{ZY} \end{matrix}$ after the oblique line shall be filled with the color, $\begin{matrix} \text{Z} \\ \text{ZL} \end{matrix}$ shall be filled with the voltage class of the light.
 3. The light source of the illuminated pushbutton shall all be high-bright pure LED.
 4. If Z_2 and Z_3 holders are required during ordering, A_1 in the model can be changed to A_2 or A_3 .
Note: please add "-60" after the model if $\varnothing 60$ mushroom actuator is required. No mark is required when it is $\varnothing 40$.
- The emergency stop pushbutton shall be used with slow-action type base.

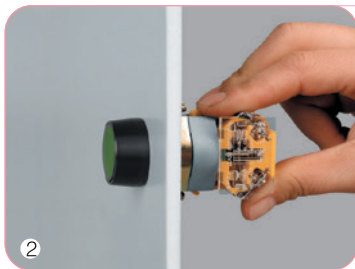
How to install?



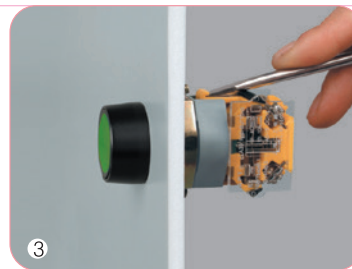
Insert the actuator into the installation hole in the front of the panel and rotate it into the holder. Then tighten the fixing screws on both ends evenly (no excessive force is allowed. The maximum torque is 25N-cm). If the panel is made of other non-metal materials such as plastic, a mounting plate can be backed on the panel (refer to accessory F5) before installation. When the diameter of the installation hole is 25mm, a piece of $\varnothing 25$ mounting plate can be backed on the panel (refer to accessory F6) before installation.

For the Pushbutton with Z_2 holder, disassemble the switching elements with the holder together.
For the Pushbutton with Z_2 holder, disassemble the switching elements before installing the holder.
For the Pushbutton with Z_3 holder, disassemble the switching elements first. Insert the holder into the actuator and then fasten the nuts on the holder after turning the holder clockwise.

Note: if the Pushbutton is blocked after installation, adjust the two fixing screws on the holder to keep the same tightness.



Buckle the switching elements directly. The actuator symbol can be installed directly in the front (normally, it has been installed before out of the factory). When the illuminated pushbutton is installed, buckle the lampholder first and switching elements successively.
Note: after installation, check if the buckle of the switching elements is completely locked.



Remove the switching elements or lampholder: remove the locked assemblies freely and easily by lifting the buckle of the locking system with a screwdriver.

Hint: the white point of the short handle and the tip of the long handle shall be upward during the selector switch installation.

Hole Size

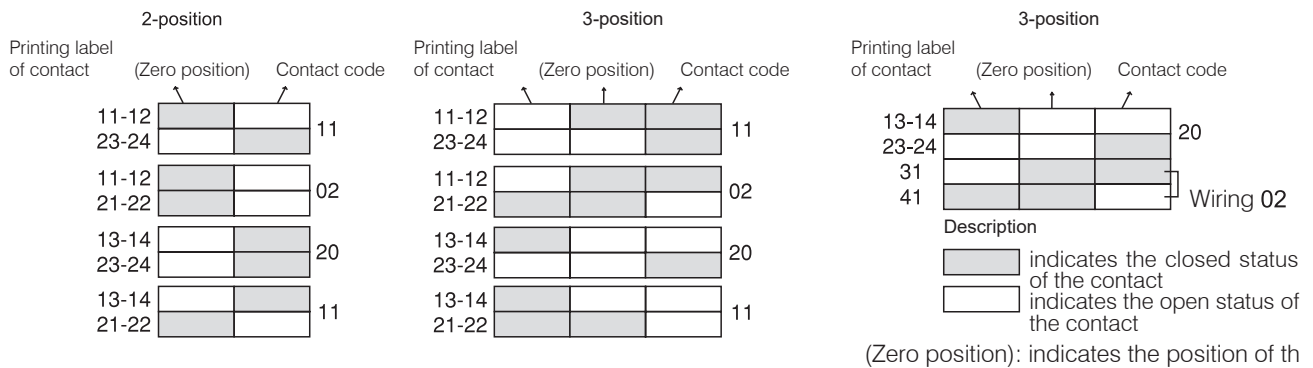
Type AB Normal Pushbuttons, Illuminated Pushbuttons, Key switches and selector switches	Type A.B Mushroom Pushbuttons and Long-handle selector switches	Type C, Normal Pushbuttons, Illuminated Pushbuttons, Key Pushbuttons and selector switches	Type C Mushroom Pushbuttons and Long-handle selector switches
<p>Note: the minimum size shall be 35×50 when Z_2 holder is selected for installation.</p>			



Printing Label of Contact

The figures of the contact wiring terminal are expressed by two digits, "1" at tens indicates the 1st pair of contacts on the first pitch of switching element, and "2" at tens indicates the 2nd pair of contacts on the first pitch of switching element. "1 and 2" at units indicates the two wiring terminals of the NCcontact, and "3 and 4" at units indicates the two wiring terminals of NOcontact.

Functional Diagram for Switching Elements of selector switches and Key switches









Accessories

Name	Type	Model	Material	Applications
Protective cap		F1	Silicone	It is installed on the Pushbutton actuator to resist the water and dust. The protection class reaches IP67.
Guard Cover		F2	Stainless steel	It is installed on the Pushbutton actuator to prevent bumping and misoperation.
Protective Cover		F3-1	Plastic	It is installed on the actuator of the flat round pushbutton to prevent bumping and misoperation. It can be sealed off.
		F3-2	Plastic	Plastic It is installed on the actuator of the short-handle selector switch, illuminated selector switch and key switch to prevent bumping and misoperation. It can be sealed off.
		F3-3	Plastic	It is installed on the actuator of Ø40 mushroom pushbutton, Ø40 emergency stop pushbutton, and key-reset emergency stop pushbutton to prevent bumping and misoperation. It can be sealed off.
Joint Guard Cover		F4	Plastic	It is installed behind the wiring screws of the switching element to prevent electric shock.
Ø 22 Mounting Plate		F5	Iron	The mounting plate shall be provided to improve the strength when the box panel is made of plastic.
Ø 25 Mounting Plate		F6	Iron	This mounting plate shall be provided when the hole size on the panel is Ø25.

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Name	Type	Model	Material	Applications
Ø30 Diameter –altering Ring		F7	Plastic	This Diameter –altering Ring shall be provided when the hole size on the panel is Ø30.
Ø30 Diameter – altering Nu		F8	Aluminum alloy	It is used for the panel with hole size of Ø30 and also can achieve the effect of an ultrathin pushbutton.
Round inscription label		F9	Plastic	It is installed in the transparent pushbutton chip of the round Pushbutton as the symbol indication.
Square inscription label		F10	Plastic	It is installed in the transparent pushbutton chip of the square Pushbutton as the symbol indication.
Label holder		F11-10 Written Area: 25×10mm F11-18 Written Area: 25×18mm	Plastic	It is hung on the Pushbutton or indicator as the symbol indication or literal description.
Label Plate		F12 (Round) F12a (Square)	Plastic	It is hung on the Pushbutton or indicator as the symbol indication or literal description.

Name	Type	Model		Material	Applications
Warning Ring		F13-60	Ø60	ABS	It is used for emergency stop pushbuttons
		F13-90	Ø90		
Yellow Guard Ring		F14a-40	Ø40	ABS	It is used to highlight the visible caution and protect the mushroom pushbutton to prevent bumping and misoperation. (Note: F14a-40 cannot be used for those emergency stop pushbutton models which require resetting by rotating)
		F14a-60	Ø60		
		F14b-60	Ø60		
		F14b-90	Ø90		
Diameter –altering Nut of Indicator		F15-25	Ø25	ABS	Ø22mm indicator can be installed on the panel with the hole size of Ø25 or Ø30mm when it is used.
		F15-30	Ø30		
Tightening Wrench of Indicator		F16	Ø22	PC	It can improve the installation quality and reduce the work load of the labors.
Symbol Cap of Indicator		F18		POM	It is used for the symbol printing or literal description of the indicator.

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












Name	Type	Model	Material	Applications
Blanking plug		F19 Ø22	ABS	It is used to block the reserved holes or redundant holes.
Switch Seat	 (quick-action type)	C01 C20 C10 C11 C02	PC	It is installed on the end of the button to increase or reduce the contacts. The two digits in the model indicate the number of the normally open and normally closed contacts.
	 (slow-action type)	S01 S20 S10 S11 S02	PC	It is installed on the end of the button to increase or reduce the contacts. The two digits in the model indicate the number of the normally open and normally closed contacts.
Lamp holder		D/▨▨	PA	It is installed between the middle seat and base and used for the buttons with light. Model ▨▨ indicates the color and ▨ indicates the voltage level code.
Holder		Z ₁	Zn+PBT	It is used to fix the button.
Holder		Z ₂	PBT	It is used to fix the button.
Holder		Z ₃	PA	It is used to fix the button.

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Name	Type	Model	Description
Key Pushbuttons	 (A)	Two-position LA39-A-Y LA39-C-Y	Type (C) key pushbuttons are special for the trains.
	 (C)	Three-position LA39-A-YS LA39-C-YS	
Mushroom Pushbuttons	 (A)	Normal pushbuttons LA39-A-M/□ LA39-B-M/□ LA39-C-M/□	The color is filled in the  after the oblique line.
	 (B)		
Illuminated Mushroom Pushbuttons	 (A)	Normal pushbuttons LA39-A-MD/  LA39-B-MD/  LA39-C-MD/ 	The color is filled in the  after the oblique line.
	 (B)		
Emergency Stop Pushbuttons	 (A)	Maintained pushbuttons LA39-A-MTD/  LA39-B-MTD/  LA39-C-MTD/ 	The color is filled in the  after the oblique line.
	 (B)		
Key Emergency Stop Pushbuttons	 (A)	LA39-A-Z/  LA39-B-Z/  LA39-C-Z/ 	
	 (B)		
	 (C)	LA39-A-ZY/R LA39-B-ZY/R LA39-C-ZY/R	