

Pushbutton/Indicator

LA39 Series Pushbutton (Φ30, Φ22, Φ16, Φ12)

LA39 Series Multi-position (with enclosure) Pushbutton

AD16 Series Indicator (Φ22, Φ16, Φ12)

AD16 Series Indicator for special situation





APT 🤚

LA39/AD16 Series Pushbutton and Indicator Introduction

APT, established in 1993, has been specialized in the manufacturing of low voltage products such as pushbuttons and indicator and is one of the leading low voltage control device manufacturers in China. Through years of promotion and application, APT Series products have been widely serving dozens of industrial fields in China, including power, machinery, steel, metallurgy, petrochemical, transportation, water treatment, food, packaging, textile, harbor and construction etc. They have been successively chosen and used by the national key projects such as Qinshan Nuclear Power Plant, the Three Gorges Project, the Qinghai-Tibet Railway locomotives, Shenzhou V Spacecraft, Shanghai Pudong International Airport, National Stadium ("Bird's Nest") ······

In August, 2008, according to the asset purchase agreement between Shanghai APT Co., Ltd. (hereinafter referred to as "APT") and Siemens Electrical Apparatus Ltd. Suzhou (hereinafter referred to as "Siemens"), both parties have completed the business transaction. APT brand and related products will be under the operation of "Siemens" Group. As a new member of Siemens Group, APT will succeed and promote the business operation philosophy of the former "APT", i.e. customer orientation. With the quality management and R&D resources of Siemens, APT will focus on the manufacture of pushbuttons, indicator components and other important low voltage products such as the signal lighting, cam switch, relay, current transformer and limit switch etc. Furthermore, Siemens will develop its international business operation experience to strengthen the management and business development of APT and better serve Chinese and global market demands through its advanced technology.

We will do better!

Indicator
Pushbutton LA39/AD16 Series

















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Description of LA39-(A, B, C) Series Pushbutton

Model

La39 - 1123/456

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
М	Mushroom Pushbutton	YS	Three-position key switch		
MT	Maintained mushroom Pushbutton	Х	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	у	b	w	k
	Action function			Key pull-out posit	ion
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	50-60	Hz AC
Voltage	6V	12V	24V	36V	48V	110V	127V	220V	220V	380V

6 Humid thermal type is added with "TH"

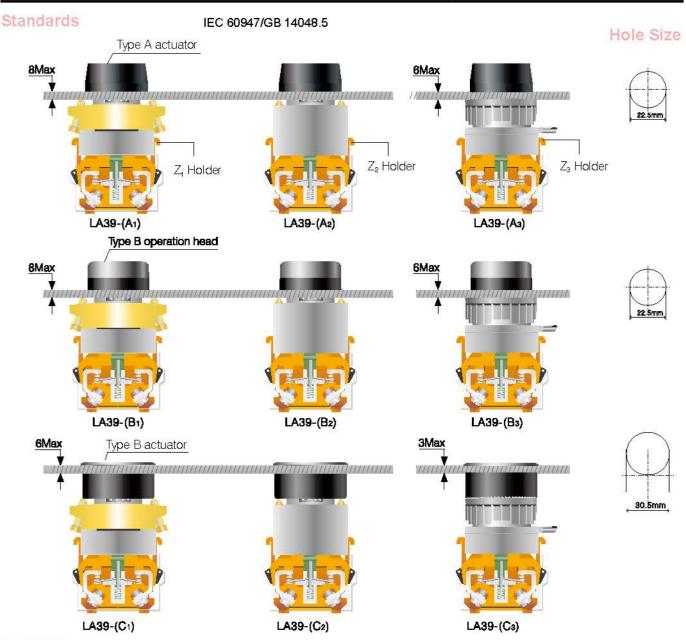
Technical Data

D-1-16it.	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						
Rated Capacity	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≤50mΩ								
Rated impulse withstand voltage Uimp	AC 2500V 50Hz·1min							
Mechanical endurance	Momentary Pushbutton≥3×10 ⁶ times, selector switch≥30×10 ⁴ times, key switch≥5×10 ⁴ times, emergency stop Pushbutton≥5×10 ⁴ times							
Electric life	≥60×10⁴ times							
Conventional thermal current	In 10A							
Rated insulation voltage	Ui AC660V							
Ambient temperature	-25°C ~ +55°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							

Description of LA39-(A, B, C) Series Pushbutton

Component Materials

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



Features:

- 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.



Name	Туре	Work Status	Model	Color	Lamp Voltage	Appearance dimension
Round pushbutton		Momentary	LA39-A₁-⊠/⊠	red-r green-g yellow-y white-w		15 13 13 13 15 15 15 15 15 15 15 15 15 15 15 15 15
	Sales Sa	Maintained	LA39-A₁-⊠T/⊠	blue-b black-k		32
Round Raised Pushbutton	ton	Momentary	LA39-A1-⊠/⊠-H	red-r green-g yellow-y white-w		\$29 \$50W \$15
		Maintained	LA39-A1-66T/86-H	blue-b black-k		32
Round Illuminated		Momentary	LA39-A₁-⊠D/⊠ ≣	red-r green-g yellow-y	LED LS 21-AC.DC 6V 22-AC.DC 12V 23-AC.DC 24V 24-AC.DC 36V 25-AC.DC 48V	99 X X X X X X X X X X X X X X X X X X
Pushbutton		Maintained	LA39-A₁-⊠TD/⊠ ■	white-w blue-b	26-AC.DC 110V 27-AC.DC 127V 28-DC 220V 31-AC 220V 32-AC 380V	32
Round Raised Illuminated	Raised uminated	Momentary	LA39-A₁-⊠D/⊠ ⊟ -H	red-r green-g yellow-y	LED LS 21-AC.DC 6V 22-AC.DC 12V 23-AC.DC 24V 24-AC.DC 36V 25-AC.DC 48V	\$ 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Pushbuttan		Maintained	LA39-A1-⊠TD/⊠ ≣-H	white-w blue-b	26-AC.DC 110V 27-AC.DC 127V 28-DC 220V 31-AC 220V 32-AC 380V	32

- 1. 🖾 before the oblique line shall be filled with the nun of NO and NC contacts.
- 2. after the oblique line shall be filled with the color code, a shall be filled with the voltage class of the lamp.
- 3. The light source of the illuminated pushbutton are all high-bright pure LED.
- 4. If Z_2 and Z_3 holders are required during ordering, A_1 in the model is changed to A_2 or A_3 . Please note that there is a big change for the requirement of the thickness of the mounting plate when Z_3 holder is selected.

Name	Туре	Work Status	Model	Color	Lamp Voltage	Appearance dimension
Mushroom Pushbutton		Momentary	LA39-A₁-⊠ <i>W</i> ⊠	opaque red-r		\$21 \$8 Water
	Note: Ø 40 Ø 60	Maintained	LA39-A₁-⊠MT/⊠	green-g yellow-y black-k		32
Mushroom Button	Note: Ø 40 Ø 60	Momentary	L A39-A 1-⊠MD/⊠ ■	transparent red-r	LED LS 21-AC.DC 6V 22-AC.DC 12V 23-AC.DC 24V 24-AC.DC 36V 25-AC.DC 48V	5440 527 99
with Light		Maintained	LA39-A₁-⊠MTD/⊠ 目	green-g yellow-y black-k	26-AC.DC 110V 27-AC.DC 127V 28-DC 220V 31-AC 220V 32-AC 380V	52 32 40
Twist to lock, Momentary, Mushroom Pushbutton		Press to Momentary Twist to Maintained	L A39-A 1-⊠MR/⊠	opaque red-r green-g yellow-y black-k		32 32

- 1. before the oblique line shall be filled with the number of NO and NC contacts.
- 2. 🖾 after the oblique line shall be filled with the color, 🗏 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, A1 in the model can be changed to A_2 or A_3 . Note: please add "-60" after the model if Ø60 mushroom actuator is required. No mark is required when it is Ø40.

Name	Туре	Work Status	Model	Color	Lamp Voltage	Appearance dimension
Emergency Stop Pushbutton	Note: Ø40Ø60	Press to lock, Twist clockwise to reset	LA39-A1-R⊠ <i>Z/</i> ⊠	Opaque Red-r		32
Key Reset Emergency Stop Pushbutton	Note: Ø40	Press to lock, Twist the key clockwise to reset	LA39-A₁-R⊠ZY/⊠	Opaque Red-r		\$2 \$2 \$2 \$32
Pull type Emergency Stop Pushbutton		Press to lock, Pull to reset	LA39-A₁-R⊠ZL/⊠	Opaque Red-r		240 FF
Trigger action Emergency Stop Pushbutton		Press to lock, Twist clockwise to reset	LA39-A1-R⊠ ZC/⊠	Opaque Red-r		15 EZ

- 1. 🖾 before the oblique line shall be filled with the number of NO and NC contacts.
- 2. after the oblique line shall be filled with the color, 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 \emptyset 60 mushroom actuator is required. No mark is required when it is \emptyset 40.
- The emergency stop pushbutton shall be used with slow-action type base.

Name	Туре	Handle Position & Model	Color	Lamp Voltage	Appearance dimension
Short- handle selector switch		L R L C C R LA39-A-EX/EI LA39-A-EX/EI LA39-A-EXS/EI II LC R L C R LA39-A-EX/EI LA39-A-EXS/EI II LA39-A-EX/EI LA39-A-EXS/EI II	red-r green-g yellow-y black-k		15 32 44
Long- selector switch		LA39-AECXS/E1 LA39-AECXS/E1tu LA39-AECXS/E1 LA39-AECXS/E1tu LA39-AECXS/E1 LA39-AECXS/E1tu LA39-AECXS/E1 LA39-AECXS/E1tu	red-r green-g yellow-y black-k		229 15 15 15 15 15 15 15 15 15 15
Illuminated selector switch		LAS9-AEXSD/E BI LAS9-AEXSD/E Bitu	red-r green-g yellow-y white-w blue-b	LED LS 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-DC 220V 31-AC 220V 32-AC 380V	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Key switch		LA39-AEY/1 LA39-AEY/1/tu LA39-AEY/1 LA39-AEY/1/tu LCR LCR LA39-AEY/1/tu LA39-AEY/1/tu LA39-AEY/1/tu LA39-AEY/1/tu LA39-AEY/1/tu	Key pull-out position right middle left	a ao au Every pull-out position can be custom-made for any special requirement. Note: for reset key switches, the key pull-out position shall not be reset action positio	32

- 1. \blacksquare before the oblique line shall be filled with the number of NO and NC contacts.
- 2. after the oblique line shall be filled with the color, 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 .

Name	Туре	Work Status	Model	Color	Lamp Voltage	Appearance dimension
Round pushbutton		Momentary		red-r green-g yellow-y white-w blue-b		\$29 \$\$\text{\$\exittitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exittitt{\$\etitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\etitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exittitt{\$\text{\$\etitt{\$\text{\$\text{\$\text{\$\exittitt{\$\text{\$\text{\$\text{\$\tex{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$
		Maintained	LA39-B₂- ØT/⊠	black-k		32
Round Raised	Raised	Momentary	LA39-B₂-⊠/⊠-H	red-r green-g yellow-y white-w		21 x y y y z z z z z z z z z z z z z z z z
Pushbutton		Maintained	LA39-B₂-⊠T/⊠-H	blue-b black-k		32
Round Illuminated	minated ***	Momentary	LA39-B₂-⊠D/⊠ ■	red-r green-g yellow-y	LED LS 21-AC.DC 6V 22-AC.DC 12V 23-AC.DC 24V 24-AC.DC 36V 25-AC.DC 48V	©29 WWW 29 13 13 15 15 15 15 15 15 15 15 15 15
Pushbutton		Maintained	LA39-B₂-⊠TD/⊠ ■	white-w blue-b	26-AC.DC 110V 27-AC.DC 127V 28-DC 220V 31-AC 220V 32-AC 380V	32
Round Raised Illuminated	Raised luminated	Momentary	LA39-B₂-⊠D/⊠ ≣ -H	red-r green-g yellow-y	LED LS 21-AC.DC 6V 22-AC.DC 12V 23-AC.DC 24V 24-AC.DC 36V 25-AC.DC 48V	229 xyw 88
Pushbutton		Maintained	LA39-B₂-⊠TD/⊠≣-H	white-w blue-b	26-AC.DC 110V 27-AC.DC 127V 28-DC 220V 31-AC 220V 32-AC 380V	32

- 1. 🖾 before the oblique line shall be filled with the number of NO and NC contacts.
- 2. 🖾 after the oblique line shall be filled with the color, 🗎 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_1 and Z_3 holders are required during ordering, B_2 in the model can be changed to B_1 or B_3 .

Name	Туре	Work Status	Model	Color	Lamp Voltage	Appearance dimension
Square Pushbutton		Momentary	LA39-B₂- ⊠ F/⊠	red-r green-g yellow-y white-w blue-b black-k		15 22 32 32 32 32 32 32 32 32 32 32 32 32
Square Illuminated Pushbuttor		Maintained	LA39-B₂-⊠DF/ ⊠ ■	red-r green-g yellow-y white-w blue-b black-k	LED LS 21-AC.DC 6V 22-AC.DC 12V 23-AC.DC 24V 24-AC.DC 36V 25-AC.DC 110V 27-AC.DC 127V 28-AC.DC 220V 31-AC 220V 32-AC 380V	*

- 1. 🖾 before the oblique line shall be filled with the number of NO and NC contacts.
- 2. 🖾 after the oblique line shall be filled with the color, 🗏 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 Z₁ and Z₃ holders are required during ordering, B₂ in the model can be changed to B₁ or B₃.

Name	Туре	Work Status	Model	Color	Lamp Voltage	Appearance dimension
Mushroom Pushbutton		Momentary	L A39 -B2-⊠ M/⊠	opaque red-r green-g yellow-y		240 87 15
	Note: Ø 40Ø 60	Maintained	LA39-B₂-⊠MT/⊠	black-k		10
Illuminated Mushroom		Momentary	LA39-B₂-⊠MD/⊠≣	transparent red-r green-g	LED LS 21-AC.DC 6V 22-AC.DC 12V 23-AC.DC 24V 24-AC.DC 36V 25-AC.DC 48V	340
Pushbutton	Note: Ø40Ø60	Maintained	LA39-B₂-⊠ MTD/⊠≣	yellow-y black-k	26-AC.DC 110V 27-AC.DC 127V 28-DC 220V 31-AC 220V 32-AC 380V	32
Emergency Stop Pushbutton	Note: Ø 40Ø 60	Press to lock, Twist clockwise to reset	LA39-B₂-R⊠ Z /⊠	opaque red-r		32
Key to Reset Emergency Stop Pushbutton	Note: Ø40	Press to lock, Twist the key clockwise to reset	LA39-B₂-R <i>⊠Z</i> Y/⊠	opaque red-r		\$240 \$2 \$2 \$32 \$40

- 1. 🖾 before the oblique line shall be filled with the number of NO and NC contacts.
- 2. Safter the oblique line shall be filled with the color, 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_1 and Z_3 holders are required during ordering, B_2 in the model can be changed to B_1 or B_3 . Note: please add "-60" after the model if \emptyset 60 mushroom actuator is required. No mark is required when it is \emptyset 40.
- The emergency stop pushbutton shall be used with slow-action type base.

Name	Туре	Handle Position & Model	Color	Lamp Voltage	Appearance dimension
Short- handle selector switch		L R L C R LA39-B-EX/EI LA39-B-	red-r green-g yellow-y black-k		329 KW S 222 22 32 32 32
Long- handle selector switch		L R L C C R LA39-B-ECX/E LA39-B-ECX/E/ILA39-B-ECX/E/ILA39-B-ECX/E/ILA39-B-ECXS/E	red-r green-g yellow-y black-k		\$29 \$29 \$32 \$32
Illuminated selector switch		LA39-BEXSD/E = LA39-BEXSD/E = fu LA39-BEXSD/E = f LA39-BEXSD/E = fu LA39-BEXSD/E = fu LA39-BEXSD/E = fu	red-r green-g yellow-y white-w blue-b	LED LS 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-DC 220V 31-AC 220V 32-AC 380V	99 FE ST
Key Switch		L R LA39-B	Key pull-out position right middle left	ao Every pull-out position can be customized for any special requirement. Note: for auto resetting key buttons, the key pull-out position shall not be autoresetting action position.	929 15 32 44

- 1. \blacksquare before the oblique line shall be filled with the number of NO and NC contacts.
- 2. after the oblique line shall be filled with the color.
- 3. If Z_1 and Z_3 holders are required during ordering, B_2 in the model can be changed to B_1 or B_3 .

Name	Туре	Work Status	Model	Color	Lamp Voltage	Appearance dimension
Round		Momentary	LA39-C₁-Ø/⊠	red-r green-g yellow-y		034.5 W
pushbutton		Maintained	LA39-C₁-⊠T/⊠	white-w blue-b black-k		32
Round Raised		Momentary	LA39-C₁-⊠/⊠-H	red-r green-g yellow-y		234.5 224 276 276
Pushbuttan		Maintained	LA39-C₁-⊠T/⊠-H	white-w blue-b black-k		32
Round Illuminated		Momentary	LA39-C₁-⊠D/⊠ ■	red-r green-g yellow-y	LED LS 21-AC.DC 6V 22-AC.DC 12V 23-AC.DC 24V 24-AC.DC 36V 25-AC.DC 48V 26-AC.DC 110V	25 SE
Pushbuttan		Maintained	LA39-C₁-⊠TD/⊠ 目	white-w blue-b	27-AC.DC 127V 28-DC 220V 31-AC 220V 32-AC 380V	32
Round Raised Illuminated		Momentary	LA39-C₁-⊠D/⊠■-H	green-g yellow-y	LED LS 21-AC.DC 6V 22-AC.DC 12V 23-AC.DC 24V 24-AC.DC 36V 25-AC.DC 48V 26-AC.DC 110V	234.5 9
Pushbutton		Maintained	LA39-C₁-⊠TD/⊠≣-H	white-w blue-b	27-AC.DC 127V 28-DC 220V 31-AC 220V 32-AC 380V	32

- 1. 🖾 before the oblique line shall be filled with the number of NO and NC contacts.
- 2. 🖾 after the oblique line shall be filled with the color, 🗏 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, C_1 in the model can be changed to C_2 or C_3 .

Name	Туре	Work Status	Model	Color	Lamp Voltage	Appearance dimension
Mushroom Pushbutton		Momentary	LA39-C₁-⊠M/⊠	opaque red-r green-g		62.5 14.5 E.S. 1
	Note: Ø 40 Ø 60	Maintained	LA39-C1-⊠MT/⊠	yellow-y black-k		32
Illuminated Mushroom		Momentary	LA39-C1-⊠MD/⊠ ■	transparent red-r green-g	LED LS 21-AC.DC 6V 22-AC.DC 12V 23-AC.DC 24V 24-AC.DC 36V 25-AC.DC 48V	347
Pushbutton	Note: Ø 40 Ø 60	Maintained	LA39-C₁-⊠MTD/⊠■	yellow-y black-k	26-AC.DC 110V 27-AC.DC 127V 28-DC 220V 31-AC 220V 32-AC 380V	32
Emergency stop Pushbutton	Note: Ø 40 Ø 60	Press to lock, Twist clockwise to reset	LA39-C₁-R⊠Z/⊠	opaque red-r		32
Keyto Reset Emergency Stop Pushbutton	Note: Ø40	Press to lock, Twist the key clockwise to reset	LA39-C1-R⊠ZY/⊠	opaque red-r		240 mgg 22

- 1. 🖾 before the oblique line shall be filled with the number of NO and NC contacts.
- 2. 🖾 after the oblique line shall be filled with the color, 🗏 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_1 and Z_3 holders are required during ordering, C_1 in the model can be changed to C_2 or C_3 . Note: please add "-60" after the model if \emptyset 60 mushroom actuator is required. No mark is required when it is \emptyset 40.
- The emergency stop pushbutton shall be used with slow-action type base.

Name	Туре	Handle Position & Model	Color	Description	Appearance dimension
Short- handle selector switch		L R L C R LA39-C-EX/EI LA39-C-EX/EI LA39-C-EX/EItu LA39-C-EXS/EI LA39-C-EXS/EItu LA39-C-EXS/EIT LA39-C-EXS/EItu	red-r green-g yellow-y black-k		\$34.5 mg
Long- handle selector switch		LASS-CI-ECX/EI LASS-CI-ECX/EITU LASS-CI-ECX/EI LASS-CI-ECX/EITU LC R L C R LASS-CI-ECX/EITU LASS-CI-ECX/EITU LASS-CI-ECX/EITU LASS-CI-ECX/EITU LASS-CI-ECX/EITU LASS-CI-ECX/EITU	red-r green-g yellow-y black-k		\$7 \$7 \$7 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2
Key Switch		LASS-C-EY/I LASS-C-EY/I/U LASS-C-EY/II LASS-C-EY/I/U LASS-C-EY/II LASS-C-EY/I/U LASS-C-EY/II LASS-C-EY/I/U LASS-C-EY/II LASS-C-EY/I/U LASS-C-EY/II LASS-C-EY/I/U LASS-C-EY/III LASS-C-EY/I/U	Key pull-out position right middle left	au Every pull-out position can be custom-made for any special requirement. Note: for reset key switches, the key pull-out position shall not be reset action position.	934.5 90 44 122

Description:

- 1. \blacksquare before the oblique line shall be filled with the number of NO and NC contacts.
- 2. after the oblique line shall be filled with the color.
- 3. If Z_2 and Z_3 holders are required during ordering, C_1 in the model can be changed to C_2 or C_3 .

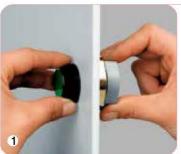
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LA39 Series Multi-position Pushbutton Model Selection

Name	Туре	Model	Color	Lamp Voltage	Appearance dimension	Description
Twin pushbuttons		LA39-B₂-⊠R/rg	The Pushbuttons are red- green		12 1 22 1 22 1 22 1 22 1 22 1 22 1 22	1. The contact action shall be Momentary type. 2. The contact can be added or changed if necessary. The lighting is located in the middle of the twin pushbuttons. 3. It is used for the startup and stop control of the motor or load.
Illuminated Twin pushbuttons		LA39-B₂-I⊠RD/rg≣	The Pushbuttons are red- green and the light is yellow	LED LS 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-DC 220V 31-AC 220V 32-AC 380V	\$5 \$5 \$54	1. The contact action shall be Momentary type. 2. The contact can be added or changed if necessary. The lighting is located in the middle of the twin pushbuttons. 3. It is used for the startup and stop control of the motor or load.
Twin pushbuttons with enclosure		LA39-A-11RH/r.g	The Pushbuttons are red- reen		25.05 20 20 20 20 20 20 20 20 20 20	It is used for the startup and stop control of the motor 1. Each-position Pushbutton is with one independent open and closed contact. 2. The action of all contacts is peristaltic.
Three- position Pushbutton ith enclosure		LA39-A-11SH/r.g.w	The Pushbutton are red- green- white	S	80 I	It is used for the backward and forward rotation as well as the stop control of the motor 1. Each-position Pushbutton is with one independent open and closed contact. 2. The action of all contacts is peristaltic.

- 1. 🖾 before the oblique line shall be filled with the number of NO and NC contacts.
- 2. after the oblique line is filled with the voltage class of the light.

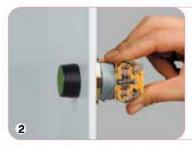
Installation & Operation Instructions of LA39 Series Pushbuttons



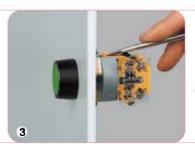
Insert the actuator into the installation hole in the front of the panel and rotate it into the holder. Then tighten the fixing screws on both ends evenly (no excessive force is allowed. The maximum torque is 25N-cm). If the panel is made of other non-metal materials such as plastic, a mounting plate can be backed on the panel (refer to accessory F5) before installation. When the diameter of the installation hole is 25mm, a piece of Ø25 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.



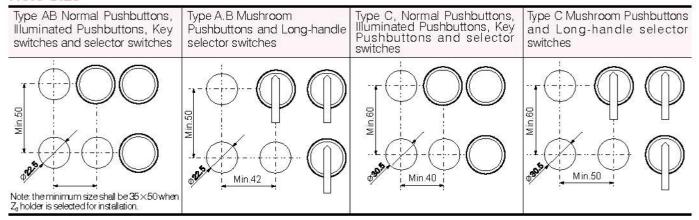
Buckle the switching elements directly. The actuator symbol can be installed directly in the front (normally, it has been installed before out of the factory). When the illuminated pushbutton is installed, buckle the lampholder first and switching elements successively. Note: after installation, check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

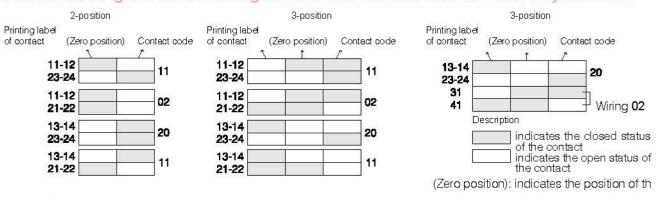
Hole Size



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



Name	Туре	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	0	F2	Stainless steel	It is installed on the Pushbutton actuator to prevent bumping and misoperation.
	The second second	F3-1	Plastic	It is installed on the actuator of the flat round pushbutton to prevent bumping and misoperation. It can be sealed off.
Protective Cover		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	0	F5	Iron	The mounting plate shall be provided to improve the strength when the box panel is made of plastic.
Ø 25 Mounting Plate	0	F6	Iron	This mounting plate shall be provided when the hole size on the panel is Ø25.

Name	Туре	Model	Material	Applications
Ø30 Diameter –altering Ring	0	F 7	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	STOP	F9	Plastic	It is installed in the transparent pushbutton chip of the round Pushbutton as the symbol indication.
Square inscription label	START	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	A A BS	F12 (Round) F12a (Square)	Plastic	It is hung on the Pushbutton or indicator as the symbol indication or literal description.

Name	Туре	Мо	del	Material	Applications
Warning Ring	Brop	F13-60 F13-90	Ø 60 Ø 90	ABS	It is used for emergency stop pushbuttons
Yellow Guard Ring		F14a-40 F14a-60 F14b-60 F14b-90	Ø40 Ø60 Ø60	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)
Diameter –altering Nut of Indicator	0	F15-25	Ø 25 Ø 30	ABS	Ø22mm indicator can be installed on the panel with the hole size of Ø25 or Ø30mm when it is used.
Tightening Wrench of Indicator		F16	Ø 22	PC	It can improve the installation quality and reduce the work load of the labors.
Symbol Cap of Indicator	RI	F	18	РОМ	It is used for the symbol printing or literal description of the indicator.

Name	Туре	Model	Material	Applications
Blanking plug		F19 ⊘22	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	3	D/⊠≣	PA	It is installed between the middle seat and base and used for the buttons with light. Model SS indicates the color and Indicates the voltage level code.
Holder		Z,	Zn+PBT	It is used to fix the button.
Holder		Z _z	PBT	It is used to fix the button.
Holder		Z _s	PA	It is used to fix the button.

Name		Туре		N	1odel	Description
Pushbutton Actuator		*	T.	Normal pushbuttons	LA39-A-/SS LA39-B-/SS LA39-C-/SS	The color is filled in the
Push Act	(A)	(B)	(C)	Maintained pushbuttons	LA39-A-T/S LA39-B-T/S LA39-C-T/S	after the oblique line.
Pushbutton Actuator		A		High-position pushbuttons	LA39-A-/SS-H LA39-B-/SS-H LA39-C-/SS-H	The color is filled in the
Pushk Act.	(A)	(B)	(C)	High-position Maintained pushbuttons	LA39-A-T/⊠-H LA39-B-T/⊠-H LA39-C-T/⊠-H	after the oblique line.
Short-handle selector switch	B	*		Two-position	LA39-A-X/⊠□ LA39-B-X/⊠□ LA39-C-X/⊠□	The color is filled in the oblique line ፟ , □ is filled
Short-I selecto	(A)	(B)	(C)	Three-position	LA39-A-XS/ □□ LA39-B-XS/ □□ LA39-C-XS/ □□	with reset form.
Long-handle selector switch	6	*		Two-position	LA39-A-CX/⊠□ LA39-B-CX/⊠□ LA39-C-CX/⊠□	The color is filled in the oblique line ₪, □ is filled
Long-l selecto	(A)	(B)	(C)	Three-position	LA39-A-CXS/ LA39-B-CXS/ LA39-C-CXS/	with reset form.
Illuminated selector switch				Two-position	LA39-A-XD/⊠□ LA39-B-XD/⊠□ LA39-C-XD/⊠□	The color is filled in the oblique line ₪, □ is filled
Illum selecto	•	(A)		Three-position	LA39-A-XSD/SIC LA39-B-XSD/SIC LA39-C-XSD/SIC	with reset form.
Twin Pushbutton		0		Normal pushbuttons	LA39-B-R/r.g	1. The action of all contacts is Momentary. 2. The contact shall be increased or changed if necessary and the lighting is located in the middle of the two Pushbuttons. 2. It is upperfect, the start in the middle of the start in the start in the middle of the start in the middle of the start in
Twin Pu:				Illuminated pushbuttons	LA39-B-RD/r.g	Ilighting is located in the middle of the two Pushbuttons. 3. It is used for the startup and stop control of the motor or load.

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

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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







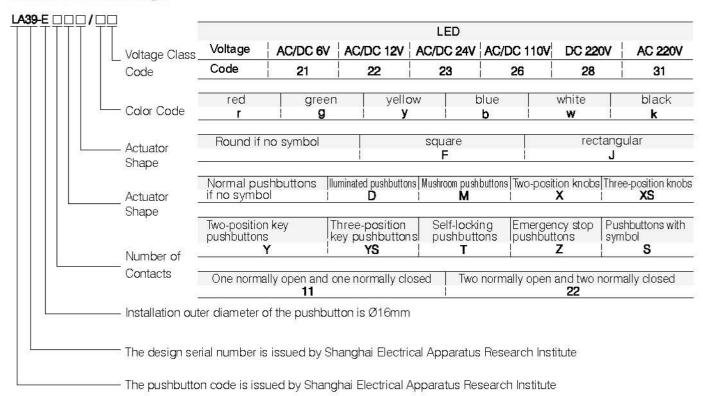


Description of Φ16 LA39-E Series Pushbutton

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℃~+55℃				
Work Humidity	45~85%RH				
Contact Resistance	≤50mΩ				
Insulation Resistance	≥100MΩ				
Rated Impulse Withstand Voltage (Uimp)	2000V AC				
Mechanical endurance	10×10 ⁵ times for normal pushbuttons 10×10 ⁴ times for selector switches 5×10 ⁴ times for emergency stop pushbuttons				
	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				

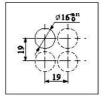
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Rated Work condition

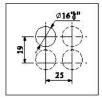
Rated Insulation Voltage	Ui	250V 5A				
Conventional Thermal C	urrent Ith					
Application Category	Rated Work Voltage Ue	24V	110V	220V		
AC-15	Date d Medic Comment In	2A	1A	0.5A		
DC-13	Rated Work Current le	0.7A	0.2A	0.1A		

Installation Hole Sizes

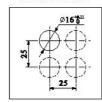
Round/Square Actuator Hole



Rectangular Actuator Hole



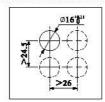
Mushroom Actuator Hole



Hole for Actuator with Installation Guard Cover F-I



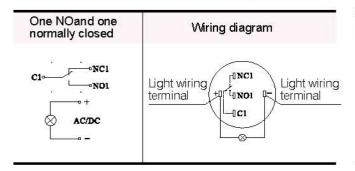
Hole for Actuator with Installation Guard Cover F-II

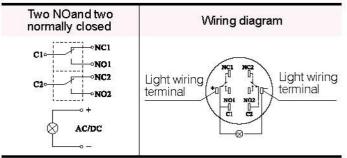


Sectional View of Control Components



Sectional View of Control Components





Name	Туре	Work Status	contacts	Model	Color	Lamp Voltage	Appearance dimension		
(pur	2	Momentary	11	LA39-E11/□					
n (Ra			22	LA39-E22/a			ဖွာ ရ		
butto	Pushbutton (Round)	Maintained	11	LA39-E11T/a			circular head		
Pust		Maintained	22	LA39-E22T/a	red-r		228×0.4		
lare)		Momentary	11	LA39-E11F/a	green-g yellow-y		Wiring terminal 2 8x 0.5. Withing terminal 2 8x 0.5. Withing terminal 2 8x 0.5. Circular tob view		
Pushbutton (Square)		Wornentary	22	LA39-E22F/a	blue-b		Circular top view		
butto			11	LA39-E11TF/a	white-w black-k		Rectangular		
Push		Maintained	22	LA39-E22TF/a	DIACK-K		top view		
- 2		Momentary	11	LA39-E11J/a			***************************************		
Pushbutton Rectangular		all resolution and the second and th	22	LA39-E22J/a					
Pushbutton (Rectangular)		Maintained	11	LA39-E11TJ/a					
200000			22	LA39-E22TJ/a					
(pur	2	Momentary	11	LA39-E11D/□ 🗏					
Illuminated Ibutton (Ro			22	LA39-E22D/□■			<u>}</u>		
Illuminated Pushbutton (Round)		Maintained	11	LA39-E11TD/□■			Gircular head		
Pusl			22	LA39-E22TD/□ 🗏	S		mai 28.00		
lare)		Momentary	11	LA39-E11DF/□ ■	red-r green-g	21-AC.DC 6V 22-AC.DC 12V	Wining terminal 28×0.5. Wining terminal 28×0.5. Wining terminal 28×0.5. Circular head Circular top view		
nated m(Squ		Wornentary	22	LA39-E22DF/□■	yellow-y	23-AC.DC 24V	*		
Illuminated Pushbutton(Square)		Maintained	11	LA39-E11TDF/□■	white-w	26-AC.DC 110V 28-AC.DC 220V	Rectangular top view		
Pus			22	LA39-E22TDF/□■		31-AC 220V	Square top view		
outton)	2	Momentary	11	LA39-E11DJ/□ 🗏					
Pusht			22	LA39-E22DJ/□ 🗏					
Illuminated Pushbutton (Rectangular)		Maintained	11	LA39-E11TDJ/□■					
imumi)		Maintained	22	LA39-E22TDJ/□ ■					

[&]quot; \square " in the column is indicated with color, and " \blacksquare " is indicated with the voltage class code.

Name	Туре	Work Status	Contacts	Model	Color	Lamp Voltage	Appearance dimension
_	1	L R	11	LA39-E11X/a			
switcl Ind)		Two-position holding	22	LA39-E22X/a			Circular head
Selector switch (Round)	D)	L C R 45' 45' Three-position holding	22	LA39-E22XS/a	red-r		8×0.5 9 0×0.5 15.5 15.5 15.5
5		L R	11	LA39-E11XF/a	green-g		of plats
ector swite (Square)		Two-position holding	22	LA39-E22XF/□	yellow-y		Wining terminal 28x05 Thickness of plate 1~6 Circular tob view
Selector switch (Square)		L C R 45° 45° Three-position holding	22	LA39-E22XSF/a	blue-b white-w black-k		Rectangular top view
원(교		L R	11	LA39-E11XJ/□			Square top view
or swit angula		Two-position holding	22	LA39-E22XJ/a			
Selector switch (Rectangular)	3	45° 45° Three-position holding	22	LA39-E22XSJ/□			
ctor e)	2	L R	11	LA39-E11XD/□ 🖾	8		
d sele Squar		Two-position holding	22	LA39-E22XD/□ 🖾			Circular head
Illuminated selector switch (Square)		L C R 45' Three-position holding	22	LA39-E22XSD/□ 🖾			Wiring terminal 28x05 Thickness of plate 0.5~6
ctor .e)	2	P0.	11	LA39-E11XDF/□□	red-r green-g	21-AC.DC 6V 22-AC.DC 12V	ess of the second secon
d sele Squar		Two-position holding	22	LA39-E22XDF/□ 🖾	yellow-y	23-AC.DC 24V	Wiring
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	18
ctor tular)		L A	11	LA39-E11XDJ/□ 🖾			
d sele ctang		Two-position holding	22	LA39-E22XDJ/□ 🖾			
Illuminated selector switch (Rectangular)		L C R 45° 45° Three-position holding		L A39-E22XSDJ/ □ 🔊			

[&]quot; \square " in the column is indicated with color, and " \blacksquare " is indicates with the voltage class code.

Name	Туре	Work Status	contacts	Model	Color	Lamp Voltage	Remarks	Appearance dimension
(pund)		L R	11	LA39-E11Y/III			For two-position	*
h (Re		Two-position maintained	22	LA39-E22Y/III	3		key buttons, the two	
Key switch (Round)		L C R 45' 45' Three-position holding	22	LA39-E22YS/III		12 C C C C C C C C C C C C C C C C C C C	positions that the key is located are called: left (L) and right (R)z	0.55 0.05 pare 1 ~ 6
are)		L R	11	LA39-E11YF/III	red-r green-g		Ļ Ŗ	mounting and 2.8×
nbs)		Two-position maintained	22	LA39-E22YF/III	yellow-y			Ses of remining the ses of
Key switch (Square)		L C R 45' 45' Three-position holding	22	LA39-E22YSF/IIII	blue-b white-w black-k		For three- position key buttons, the three positions that	Circular top view
E (4	L R	11	LA39-E11YJ/III			the key is located are	top view <u>18 →</u> Square top view
shbutt		Two-position maintained	22	LA39-E22YJ/Ⅲ	2	1	called: left (L), center (C)	
Key Pushbutton (Rectangular)		L C R 45' 45' Three-position maintained	22	LA39-E22YSJ/III			and right (R)	
Emergency Pushbutton		Press to lock	11	LA39-E11Z/□	red-r			լ _ե
Emer		Rotate right to reset	22	LA39-E22Z/□	lea i			Wiring terminal 28x.05.
	4	Momentary	11	LA39-E11M/□	red-r			and and a second a
oom		Ivioinentary	22	LA39-E22M/□	green-g yellow-y			gremin gremin less of the less
Mushroom Pushbutto		KM2:22222	11	LA39-E11MT/□	blue-b white-w			Wiring thicking
		Maintained	22	LA39-E22MT/□	black-k			
Ш00.		Manager	11	LA39-E11MD/□ ■	red-r	21-AC.DC 6V		
Mushr		Momentary	22	LA39-E22MD/□ ■	green-g yellow-y			
Illuminated Mushroom Pushbutton			11	LA39-E11MTD/□ ■	blue-b white-w	26-AC.DC 110V		
Illumi	9	Maintained	22	LA39-E22MTD/□ ■		28-AC.DC 220V 31-AC 220V		

[&]quot; Is indicated with the position that the key can be pulled out: left (L), center (C), right (R)

[&]quot; 🗆 " in the column of model is indicated with color, and " 🔳 "is indicated with the voltage class code.

Name	Туре	Model	Description	Function	Size
Guard Cover		F-I	It is used for round and square actuators	Prevent misoperaiton	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Guard Cover		F-II	It is used for rectangular actuators	Prevent misoperaiton	26
Banking plug		F-Ⅲ	Plug the blank holes on the panel (round actuators)	For decoration	M16×1 018
Blanking plug		F-IV	Plug the blank holes on the panel (square actuators)	For decoration	M16×1 □18
Banking plug		F-V	Plug the blank holes on the panel (rectangular actuators)	For decoration	M16×1 24

Name	Туре	Model	Description	Function	size
Fastening Wrench		F-VI	Assembling and disassembling tool	Assemble and disassemble the pushbuttons and light beads	70
Wiring socket	900	F-VI	It is closely plugged in the rear of LA39-EØ16 series products	Avoid being directly welded to the wiring terminal of the pushbutton	16.5 7.5 中中 中中 中中 中中 中中 中 中 中 中 中 中 中 中 中 中 中 中
Fastening Nut		F-VIII F-IX	Plastic material metal material	For fastening Ø16 pushbuttons and indicators	Ф18 Ф18
LED Light Bead		F-D2/□■	☐ is indicated with color,	The light source in the illuminated pushbuttons	13.5

- 1. 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.

 - 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!

Performance Features

LA39-G series Pushbuttons are the latest products independently developed by us and have independent intellectual properties. This series of products have integrated the advantages of the like products and also made up the disadvantages of other products. Its delicate design, complete specifications, convenient installation, good visual appearance and reliable operation are the biggest advantages of this series of products.



Structural Features

LA39-G series Pushbuttons have applied the internationally popular modularized combination structure and mainly consist of two parts – operation actuators and contact modules. The actuator is designed with the smooth lines, ultrathin sizes, and various visual types. The protection class of IP 65 also has greatly enhanced the delicacy of the control panel.



Contact Performance

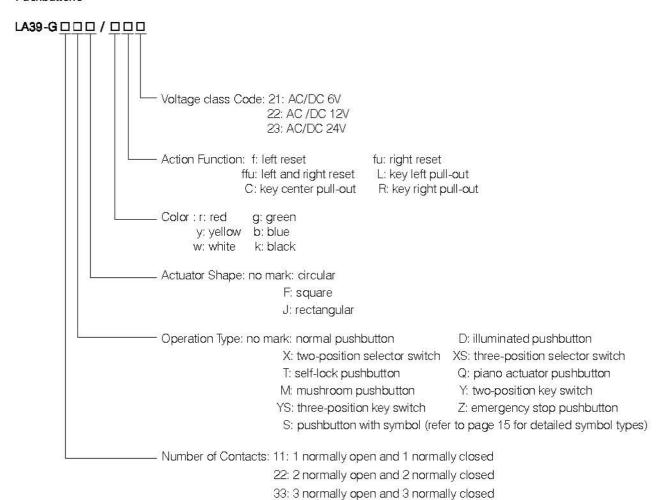
With our unique technical expertise, the contact module of LA39G series Pushbuttons has been designed into two-breakpoint quick-action structure, which has greatly improved the contact reliability and electrical breaking capacity. The contact is gold plated so that it can work reliably under the low-voltage and micro-current conditions. One module can provide a pair of independent NO and NC contacts. One Pushbutton can be installed with a maximum of three contact modules (3 pairs of NOcontacts + 3 pairs of NCcontacts).

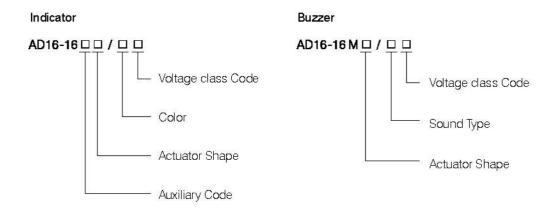


Description of Φ16 LA39-G Series Pushbutton

Model Description

Pushbuttons





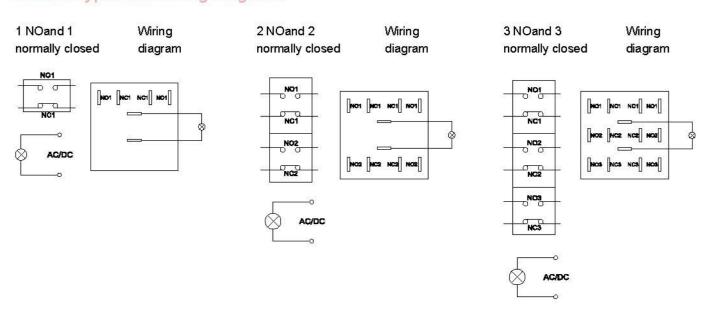
Basic Technical Parameters

Work Temperature	-25℃~+	55℃						
Work Humidity	45~85%	RH						
Contact Resistance	≤100m ^Ω	5100m □						
Rated impulse Withstand Voltage Uimp	2000V A	С						
Mechanical endurance	For normal	I pushbuttons 10×10^5 times. For selector switch 10×10^4 times. For emergency pushbutton 5×10^4 times.						
<u> </u>	AC-15	100,000 times (1,200 times/hour)						
Electrical endurance	DC-13	50,000 times (1,200 times/hour)						
Protection Class	IP65	Those with "TH" mark can work normally under the humid tropic environment.						
Action Travel	1.5~2.5n	mm						

Maximum Contact Capacity

Rated Insulation Voltage U		250V 5A				
Conventional Thermal Curr	ent Ith					
Application Category	Rated Work Voltage Ue	24V	110V	220V		
AC-15		2A	1A	0.5A		
DC-13	Rated Work Current le	0.7A	0.2A	0.1A		

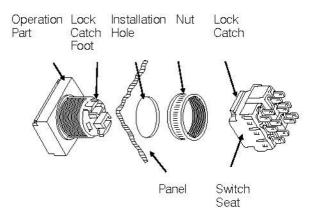
Contact Types and Wiring Diagrams



Description of Φ16 LA39-G Series Pushbutton

Installation Method

The installation sequence is as follows: first pass the operation part through the panel hole and fix it after fastening the nuts. Then press the lock catch of the switch seat with the lock catch foot of the operation part together. Disassemble the switch seat only by pressing the lock catch of the switch seat towards the inner side.



Installation Hole Size

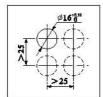
Round/Square Actuator Hole

Ø163°° N ≥19

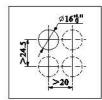
Rectangular Actuator Hole



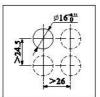
Mushroom Pushbutton and Emergency Stop Pushbutton Actuator Hole



Hole for Actuator with Installation Guard Cover F-I



Hole for Actuator with Installation Guard Cover F-II



Precautions

- 1. There are two wiring methods, i.e. welding and plug-pull type. If plug-pull type wiring is adopted, 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 $^{\circ}\text{C}$, 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.

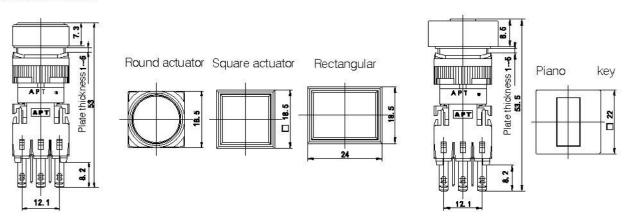
3. The Pushbuttons shall be hand operated. It is prohibited to use any other tool for operation!

Pushbuttons

Name	Actuator Shape	Work Status	Contact	Model	Color
			11	LA39-G11/□	5
		Momentary	22	LA39-G22/□	
Pushbutton (Round)			33	LA39-G33/□	·
(riodila)			11	LA39-G11T/□	s
		Maintained	22	LA39-G22T/□	ē
			33	LA39-G33T/□	
			11	LA39-G11F/□	red-r
	A * 123.	Momentary	22	LA39-G22F/□	green-g
Pushbutton			33	LA39-G33F/□	yellow-y
(Square)		Maintained	11	LA39-G11TF/□	blue-b
			22	LA39-G22TF/□	
			33	LA39-G33TF/□	white-w
	A Theory	Momentary	11	LA39-G11J/□	
			22	LA39-G22J/□	ē
Pushbutton (Rectangular)			33	LA39-G33J/□	3
((() stail igainail j	Control of the Contro		11	LA39-G11TJ/□	
		Maintained	22	LA39-G22TJ/□	
			33	LA39-G33TJ/□	
			11	LA39-G11Q/□	e.
	200	Momentary	22	LA39-G22Q/□	
Pushbutton			33	LA39-G33Q/□	E
(Piano Key)	1000		11	LA39-G11TQ/□	
		Maintained	22	LA39-G22TQ/□	£
			33	LA39-G33TQ/□	

Description: "□" in the column of model is indicated with color

Appearance dimension

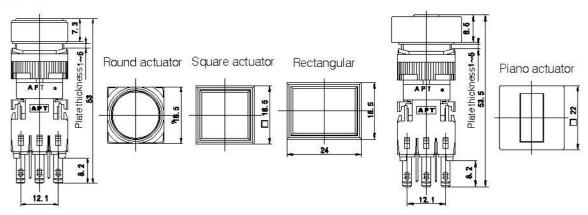


Illuminated Pushbuttons

Name	Actuator Shape	Work Status	Contact	Model	Lamp Voltage	Color
			11	LA39-G11D/□■		
800 80 NO NO	4 - 13 -	Momentary	22	LA39-G22D/□■		
Illuminated Pushbutton	-		33	LA39-G33D/□≣		
(Round)			11	LA39-G11TD/□■		
		Maintained	22	LA39-G22TD/□■		
			33	LA39-G33TD/□■		
			11	LA39-G11DF/□■		
	2017	Momentary	22	LA39-G22DF/□■		
Illuminated			33	LA39-G33DF/□■		
Pushbutton (Square)		Maintained	11	LA39-G11TDF/□■	LED	red-r
(Square)			22	LA39-G22TDF/□■		green-g
			33	LA39-G33TDF/□■	21-AC/DC 6V	
			11	LA39-G11DJ/□■	22-AC/DC 12V	yellow-y
	A STATE OF THE PARTY OF THE PAR	Momentary	22	LA39-G22DJ/□≣	23-AC/DC 24V	blue-b
Illuminated			33	LA39-G33DJ/□■		white-w
Pushbutton (Rectangular)			11	LA39-G11TDJ/□■		
,		Maintained	22	LA39-G22TDJ/□■		
			33	LA39-G33TDJ/□■		
			11	LA39-G11DQ/□≣		
	1	Momentary	22	LA39-G22DQ/□■		
Illuminated Pushbutton			33	LA39-G33DQ/□≣		
(Piano Actuator)			11	LA39-G11TDQ/□■		
		Maintained	22	LA39-G22TDQ/□■		
			33	LA39-G33TDQ/□■		

Description: "□" in the column of model is indicated with color, "■" is indicated with the voltage class code.

Appearance dimension



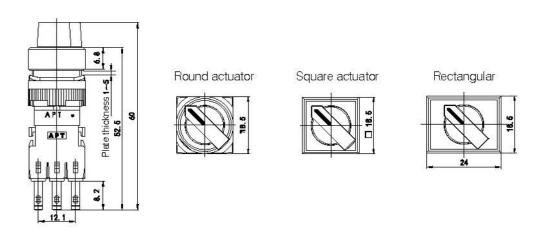
35

Two-position Knobs

Name	Operation Actuator	Contact	Mo	odel	Color
			Two-position positioning	Two-position right resetting	
Two-position	C4. 14	11	LA39-G11X/□	LA39-G11X/□fu	
Selector Switch (Round)		22	LA39-G22X/□	LA39-G22X/□fu	red-r
	100	33	LA39-G33X/□	LA39-G33X/□fu	green-g
Two-position	Carlos Carlos	11	LA39-G11XF/□	LA39-G11XF/⊟fu	yellow-y blue-b
Selector Switch (Square)		22	LA39-G22XF/□	LA39-G22XF/□fu	white-w
2 9 2		33	LA39-G33XF/□	LA39-G33XF/⊟fu	
Two-position	10	11	L A39 -G11XJ/□	LA39-G11XJ/□fu	
Selector Switch		22	LA39-G22XJ/□	LA39-G22XJ/□fu	
(Rectangular)		33	LA39-G33XJ/□	LA39-G33XJ/□fu	

 $\begin{tabular}{lll} \textbf{Description:} & \begin{tabular}{lll} \square in the column of model is indicated with color. \\ \end{tabular}$

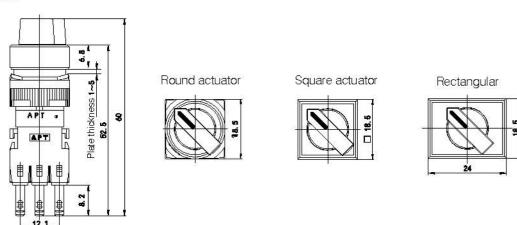
Appearance dimension



Three-position Selector switch

Name	Operation Actuator	Contact			Model		Color
			Three-position positioning	Three-position left resetting	Three-position right resetting	Three-position left and right resetting	
Three-position	· La	22	45° √ 45° LA39-G22XS/□	45' √ 45' LA39-G22XS/□f	45' √ 45' LA39-G22XS/□fu	45° √ 45° LA39-G22XS/□ffu	
Selector Switch (Round)		33	LA39-G33XS/□	LA39-G33XS/□f	LA39-G33XS/□fu	LA39-G33XS/□ffu	red-r
Three-position Selector		22	LA39-G22XSF/□	LA39-G22XSF/□f	LA39-G22XSF/□fu	ı LA39-G22XSF/□ffu	yello
Switch (Round)		33	LA39-G33XSF/□	LA39-G33XSF/□f	LA39-G33XSF/⊡fu	LA39-G33XSF/□ffL	blue- white
Three-position Selector		22	LA39-G22XSJ/□	LA39-G22XSJ/□f	LA39-G22XSJ/□fu	LA39-G22XSJ/□ffu	-
Switch (Rectangular)		33	LA39-G33XSJ/□	LA39-G33XSJ/□f	LA39-G33XSJ/□fu	LA39-G33XSJ/□ffu	

Appearance dimension

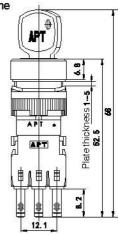


Key Pushbutton

Name	Operation Actuator	Contact		Model					
			Positioning	Left resetting	Right resetting	Left and right resetting			
			90° 45° 45° Two-position Three-position	45° 45° Three-position	790° 45° 45° Two-position Three-position	45° 45° Three-position			
		11	LA39-G11Y/□		LA39-G11Y/⊡fu				
Two-position Key Switch	C. Carlot	22	LA39-G22Y/□		LA39-G22Y/⊡fu				
		33	LA39-G33Y/□		LA39-G33Y/⊡fu				
Three-position Key Switch	91	22	LA39-G22YS/□	LA39-G22YS/□f	LA39-G22YS/□fu	LA39-G22YS/□ffu			
(Round)		33	LA39-G33YS/□	LA39-G33YS/□f	LA39-G33YS/⊟fu	LA39-G33YS/□ffu			
Two-position		11	LA39-G11YF/□		LA39-G11YF/⊡fu				
Key Switch	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22	LA39-G22YF/□		LA39-G22YF/⊡fu				
(Square)		33	LA39-G33YF/□		LA39-G33YF/⊡fu				
Three-position Key Switch	(a	22	LA39-G22YSF/□	LA39-G22YSF/□f	LA39-G22YSF/⊡fu	LA39-G22YSF/□ffu			
(Square)		33	LA39-G33YSF/□	LA39-G33YSF/□f	LA39-G33YSF/□fu	LA39-G33YSF/□ffu			
Two-position		11	LA39-G11YJ/□		LA39-G11YJ/⊡fu				
Key Switch (Rectangular)	Chap.	22	LA39-G22YJ/□		LA39-G22YJ/⊡fu				
(i teetai igalai)		33	LA39-G33YJ/□		LA39-G33YJ/⊡fu				
Three-position Key Switch	6	22	LA39-G22YSJ/□	LA39-G22YSJ/□f	LA39-G22YSJ/□fu	LA39-G22YSJ/□ffu			
(Rectangular)		33	LA39-G33YSJ/□	LA39-G33YSJ/□f	LA39-G33YSJ/⊟f⊔	LA39-G33YSJ/□ffu			

Description: " \square " in the column of model is marked with the position that the key can be pulled out: left (L), center (C), right (R).

Appearance dime



Round actuator



Square actuator



Rectangular

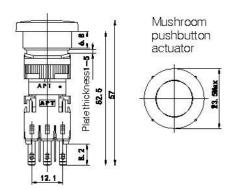


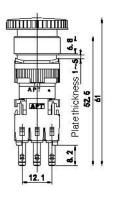
Emergency Stop Pushbuttons, Mushroom Pushbuttons, and Illuminated Mushroom Pushbuttons

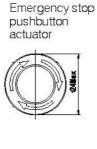
Name	Actuator Shape	Work Status	Contact	Model	Voltage Class	Color
	and the second	Locking by	11	LA39-G11Z/□		
Emergency Stop Pushbutton		pressing down and resetting by turning	22	LA39-G22Z/□		red-r
		45°right	33	LA39-G33Z/□		
			11	LA39-G11M/□		red-r
		Momentary Maintained	22	LA39-G22M/□		green-g
Mushroom			33	LA39-G33M/□		yellow-y
Pushbutton			11	LA39-G11MT/□		blue-b
			22	LA39-G22MT/□		white-w
			33	LA39-G33MT/□		
			11	LA39-G11MD/□≣		a
	Maria	Momentary	22	LA39-G22MD/□■	LED	red-r green-g
Illuminated			33	LA39-G33MD/□≣	21-AC/DC 6V	
Mushroom Pushbutton		Maintained	11	LA39-G11MTD/□≣	22-AC/DC 12V	yellow-y
912.5 m (2006) 600.0 600 F 400 F 200 F			22	LA39-G22MTD/□≣	23-AC/DC 24V	blue-b
			33	LA39-G33MTD/□≣		white-w

Description: "□ "in the column of model is indicated with color and "■" is indicated with voltage class code.

Appearance dimension







Accessories

Name	Туре	Model	Description	Function	Size
Guard Cover		F- I	It is used for round and square actuators	Prevent misoperaiton	20
Guard Cover		F-II	It is used for rectangular actuators	Prevent misoperaiton	26
Blanking plug		F-III	Plug the blank holes on the panel (round actuators)	For decoration	M16×1
Blanking plug		F-IV	Plug the blank holes on the panel (square actuators)	For decoration	M16×1, □18
Blanking plug		F-V	Plug the blank holes on the panel (rectangular actuators)	For decoration	M16×1 24
LED Light Bead		F-D3/□■	" " is indicated with color, " " is indicated with voltage code	The light source in the illuminated pushbuttons	15
Fastening Nut		F-VI	It is made of plastic	For fastening Ø16 pushbuttons and indicators	₩16×1

Accessories

Name	Туре	Model	Description	Function	Size
Clamping Ring		F-X		Prevent the pushbutton rotation	φ16 18
Contact Module		F-XI		For free combination of the contacts	17.3 15.9
Simulation Device		F-XII		It is used to fill the positions where the contact modules are not installed	15.9

Product Introduction

LA39-F series Pushbutton have the complete specifications and types. They have the round, square and rectangular actuator shapes if categorized according to the actuator shape, and have the normal pushbuttons and illuminated pushbuttons etc. if categorized according to the type.

LA39-F series Pushbuttons have good visual appearance, clear and transparent LED light beams as well as unique and reliable internal structure, which can better satisfy the users' requirements for miniaturized and intensive control of the panel.

The products comply with IEC 60947-5-1 and GB Code 14048.5.



LA39-F series Pushbuttons are applicable to auxiliary applications for control signal and interlock etc. in various fields such as AC50Hz (60Hz) Voltage AC/DC 220V program controlled devices, electronic and electric appliance control circuits, machinery, telecommunications, medical devices and instruments etc.







Technical Parameters

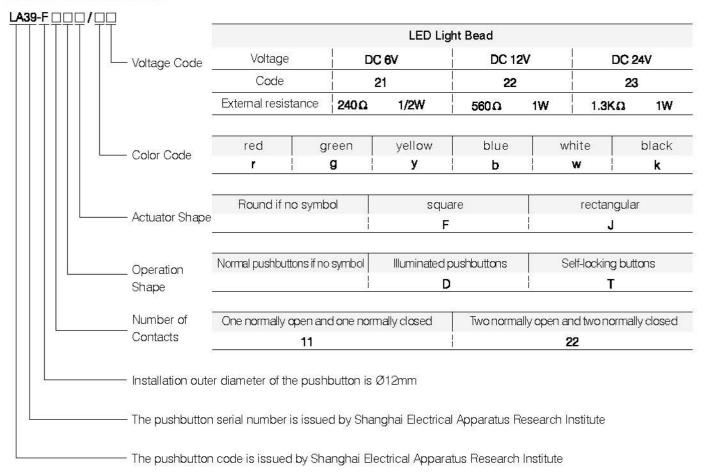
Work Temperature	-25°C~+55°C	
Work Humidity	45~85%RH	
Contact Resistance	<50mΩ	
Insulation Resistance	>100MΩ	
Rated Impulse Withstand Voltage Uimp	2000V AC	
Mechanical Endurance	Normal pushbutton, illuminated pushbutton	200,000 times (1,200 times/hour)
	Maintained pushbuttons	100,000 times (1,200 times/hour)
Electrical Life	AC-15	100,000 times (300 times/hour)
Liectrical Life	DC-13	50,000 times (300 times/hour)
Head Protection Class	IP40	
Action Travel	1.4~2.4mm	

Description of Φ12 LA39-F Series Pushbutton

Contact Capacity

Rated Insulation V	/oltage Ui		250 V			
Conventional The	rmal Current Ith		5A			
Application Category	Rated Work Voltage Ue	24V	110 V	220V		
AC-15	Data d Walan Command In	2A	1A	0.5A		
DC-13	Rated Work Current le	0.7A	0.2A	0.1A		

Model and Meanings



Description:

LA39-F series Pushbuttons are quite small. To ensure the light brightness and service life of this series of illuminated pushbuttons, the user shall connect in series choke resistance externally to the product (provided by us). Refer to the voltage class code table in the model and its meanings of this page for the parameters of choke resistance.

Structural Features

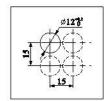
- The structural parts are connected by the advanced maintained form, safe, reliable and easy for assembling and disassembling.
- 2. The contact has applied the changeover form of Momentary mechanism, easy for operation and quick with reliable contact.
- 3. They are made of the globally quality metal and plastic with the advanced precision manufacturing and fabricating processes to ensure that the product precision and quality reach the design requirements.
- 4. The contact is made of quality silver alloy with reliable connection and break and quite long service life.
- 5. The actuators of the indicators and illuminated pushbuttons are colorful with gentle and bright light beams. There are a variety of colors such as red, green, yellow, blue and white for users' options.
- 6. The various types of marks or signs (symbols, letters and characters etc.) can be provided according to the requirements of the users' operation instructions.

Contact Forms

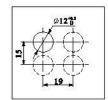
1 NO and 1NC	Arrangement of Wiring Terminals
C NC NO DC	Light wiring terminal
2 NO and 2NC	Arrangement of Wiring Terminals
	1

Installation Hole Sizes

Round and Square Actuator Hole



Rectangular Actuator Hole



Precautions:

- 1. Wiring: the terminals are welded within 20W/5 seconds or 260°C /3 seconds without external force on the terminals. During the welding, the soldering iron shall not contact the enclosure. During the wiring, the stress shall not be applied on the terminals, neither bending or lifting the terminals, nor applying external force on the terminals.
- 2. For the Maintained pushbuttons, ensure that the pushbutton is in the release position before the replacement of the components. The internal mechanism may be damaged when the pushbutton that is in the lock position is replaced!
- 3. The Pushbuttons must be hand operated. It is prohibited to use any other tool for operation!

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Name	Туре	Work Status	Contacts	Model	Color	Lamp Voltage	Appearance dimension
(pur		Managatan	11	LA39-F11/□			
n (Ro		Momentary	22	LA39-F22/□			
Pushbutton (Round)		Maintained	11	LA39-F11T/□			
Pusk		Mairitairieu	22	LA39-F22T/□			
lare)			11	LA39-F11F/□			Plate thickness 0.5.6
Pushbutton (Square)		Momentary	22	LA39-F22F/□	red-r		Plate thic
buttor		Maintained	11	LA39-F11TF/□	green-g		Round top view
Push		Maintained	22	LA39-F22TF/□	yellow-y blue-b		Rectangular top view
(pur		Memoritani	11	LA39-F11J/□	white-w		Square top view
n (Rou		Momentary	22	LA39-F22J/□	- WINEC-W		
Illuminated pushbutton (Round)		Maintained	11	LA39-F11TJ/□			
pust		Wantanied	22	LA39-F22TJ/□			
lare)		Managatan	11	LA39-F11D/□ 🗏			8
nated 7 (Sq.		Momentary	22	LA39-F22D/□ ■			
Illuminated Pushbutton (Square)		Maintained	11	LA39-F11TD/□■	5		9 9 9
Push		Wantanea	22	LA39-F22TD/□■	red-r		
Tt.		Momentary	11	LA39-F11DF/□■	green-g		Bound top view
Buttons with light (Square)		TWO THE TIER Y	22	LA39-F22DF/□ ■	yell o w-y	21-DC 6V	Round top view
tons v (Squ		Maintained	11	LA39-F11TDF/□ ■	blue-b	22-DC 12V 23-DC 24V	Rectangular top view
Burt			22	LA39-F22TDF/□■	white-w		14 Square top view
utton		Momentary	11	LA39-F11DJ/□■			
Illuminated Pushbutton (Rectangular)		, india	22	LA39-F22DJ/□ ■			
inated. (Rectar		Maintained	11	LA39-F11TDJ/□ ■			
⊞um.			22	LA39-F22TDJ/□ ■			

[&]quot; \square " in the column of model is indicated with color, " " is indicated with the voltage class code. LA39-F series Pushbuttons are quite small. To ensure the light brightness and service life of this series of illuminated pushbuttons, the user shall connect in series the choke resistance externally to the products (provided by us).

Introduction

AD16 series indicators have all applied the high-bright pure LED lighting chips as the light source with long service life, low energy consumption, small volume and light weight. They are the upgraded products of various XD type incandescent lights and neon light indicator. We have successively launched AD16-22 type, AD16-16A&B type, AD16-12A type, AD16-35 type indicators, which have been well accepted by the users for their features such as high brightness, excellent reliability, good visual appearance and delicate manufacturing. To satisfy the continuously increasing requirements of the users for the quality and beauty, we also have developed 22 series products such as AD16-22B, C, D, E, H, P (plane type), and I (outdoor type) type double-color lights, position indicators, flash buzzers and ultrashort indicators etc. as well as 16 series products such as AD16-16C, CF, CJ, G (outdoor type) type indicators lights as well as AD-16M, MF and MJ type buzzers. Moreover, the visual design with the style same as that of LA39 series Pushbutton is applied. The various international standard symbols or custom-made symbols can be printed in the lampshades. The lampshades are made of high-strength polycarbonate with good impact resistance performance. The built-in screw type wiring is safer and more convenient. All improvements enable your option more convenient and design more complete.



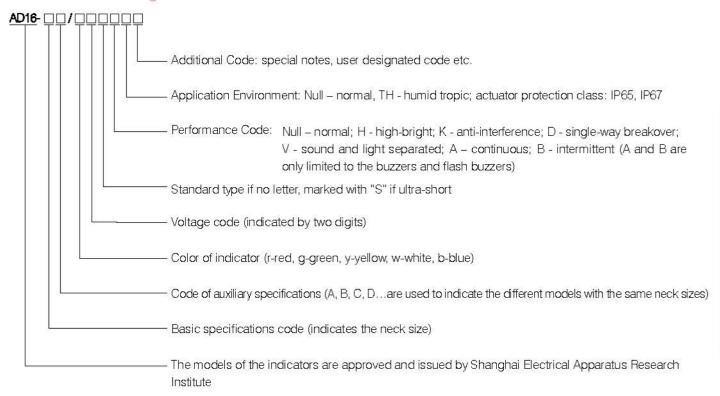




Application

AD16 series indicators are applicable to the circuits of the equipment for the power, telecommunications, machine tools, marine, textile, printing and mining machinery as the instruction, warning, and accident signals as well as other indication signals.

Model and Meaning



Description of Φ22 AD16-22 Series Indicator

Applicable Environment

1. Ambient temperature: -25℃ ~+55℃

2. Relative air humidity: ≤98%

- 3. Work normally at the vibration frequency of 2-80Hz and accelerated speed of 0.7g;
- 4. The pollution class is III and installation category is III;
- 5. Those with "TH" sign can work under the humid tropic environment.

Main Technical Indexes

- 1. Rated impulse withstand voltage Uimp: 2.5KV (AC valid value), 1min.
- 2. Insulation resistance $\geq 100M\Omega$.
- 3. The allowable voltage fluctuation of AC indicator is $\pm 20\%$
- 4. Continuous work life ≥ 30,000H
- 5. Brightness ≥ 100cd/m²
- 6. Comparative tracking index (CTI) ≥175
- 7. Actuator protection class: IP54 for indicators. IP65 and IP67 can be customized; IP31 for buzzers
- 8. Application frequency AC50~60Hz

Voltages, Currents and Codes

Unit: mA

Voltage Code	Power Supply	Voltage	Current	
21		6V	15 (g, w) 25 (b) 35 (r, y)	
22		12V	15 (g, w) 25 (b) 35 (r, y)	
23		24V	15	
24	AC.DC	36V	15	
25		48V	15	
26		110V	15	
27		127V	15	
28	AC.DC	220V	10	
29	-	380V	10	
30	FD	500V	8	
31		220V	15	
32	AC	380V	18	

Description:

"FD" in the column of power supply indicates the discharge lights that can be installed in the capacitor cabinet.

Name	Туре	Model	Color	Lamp Voltage	Appearance dimension		
Ø 22B	O JIE	AD16-22B/ ⊠ ■S			\$29.5 88.		
Ø 22C		AD16-22C/ ⊠ ■S	red-r green-g	en-g 26-AC.DC 110V	©29.5 11.2 220		
Ø 22D	To de	AD16-22D/⊠≣S	yellow-y blue-b white-w	27-AC.DC 127V 28-AC.DC 220V 31-AC 220V 32-AC 380V 29-FD 380V 30-FD 500V	\$29.5 \$7.8 \$20.		
Ø 22E		AD16-22E/⊠≣S					\$29.5 \$1 \$20

- 1. The ultra-short indicators are applicable to the places with narrow and small installation spaces;
- 2. All ultra-short indicators are applicable to Ø22 and Ø25 holes, without additional accessories;
- 3. The indicators of DC power supply can be applicable to AC power supply;
- 4. The ultra-short indicators have no DC220V voltage class due to the heat radiation conditions; (if DC220V and discharge lights are required, we will provide the slightly longer lamp enclosures. S in the model will be removed);
- 5. in the column of model will be filled with color, will be filled with voltage class code.

Description of Φ22 AD16-22 Series Indicator

Name	Туре	Model	Color	Lamp Voltage	Appearance dimension
Ø22F	AM P	AD16-22F/ ⊠ ■	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 31-AC 220V 32-AC 380V 29-FD 380V 30-FD 500V	220 - 130 - 130 -
Ø221	For the outdoor type indicators, their brightness is 3 times of that of the normal indicators; the actuator protection class is defaulted as IP65	AD16-22I/⊠ 目	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 31-AC 220V 32-AC 380V	Wiring terminal Maximum connected wire diameter 1.5mm
Ø22H	THE RESERVE TO SERVE	AD16-22H/⊠目S	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 31-AC 220V 32-AC 380V 29-FD 380V 30-FD 500V	29.5 88 220
Ø22P		AD16-22P/⊠目	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 31-AC 220V 32-AC 380V 29-FD 380V 30-FD 500V	Wiring terminal Maximum connected wire diameter 1.5mm

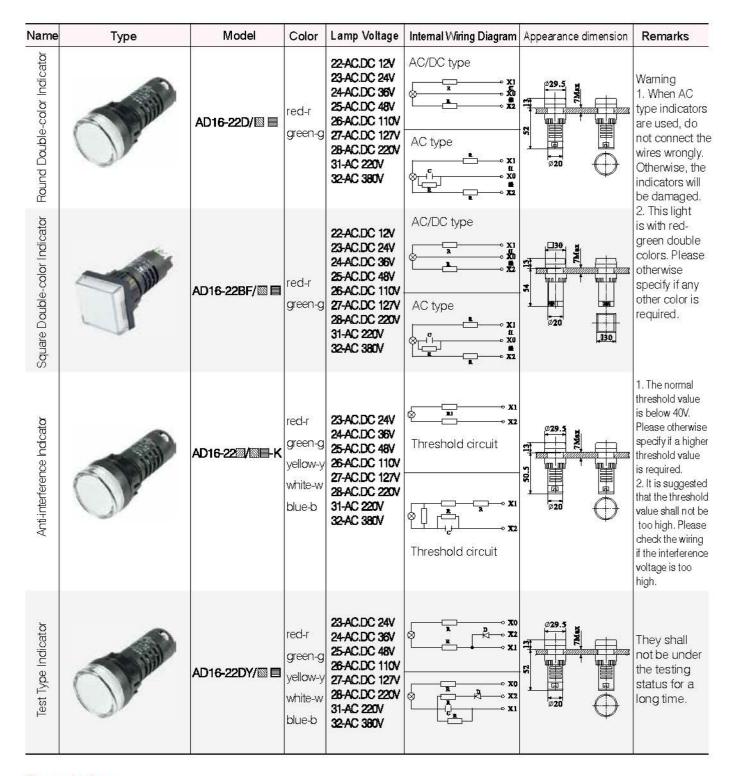
Description:

- 1. The ultra-short indicators are applicable to the places with narrow and small installation spaces;
- 2. All ultra-short indicators are applicable to Ø22 and Ø25 holes, without additional accessories;
- 3. The indicators of DC power supply can be applicable to AC power supply;
- 4. The ultra-short indicators have no DC220V voltage class due to the heat radiation conditions; (if DC220V and discharge lights are required, we will provide the slightly longer lamp enclosures. S in the model will be removed);
- 5. in the column of model will be filled with color, will be filled with voltage class code.

Name	Туре	Model	Color	Lamp Voltage	Appearance dimension	Remarks		
Buzzer		AD16-22M/k目	black-k				\$29.5 \$20. \$20.	The buzzers intermittently ring or flash with the sound volume of 10cm/80dB and current of 15-20mA.
Flash Buzzer		AD16-22SM/r≣	red-r		\$ 29.5 \$ 29.5 \$ 20.5 \$ 20.5	The buzzers intermittently ring or flash with the sound volume of 10cm/80dB and current of 15-20mA.		
Rash Indicator	The little	AD16-22S/r⊠≣	red-r green-g yellow-y white-w blue-b	27-AC.DC 127V 28-AC.DC 220V 31-AC 220V 32-AC 380V	229.5 ET 320			
Ø30 Buzzer		AD16-30M/w目	white-w		236 236 241.5	The sound volume is 10cm/100dB and the current is 15~20mA. It rings intermittently.		

in the column of model will be filled with color, ■ will be filled with voltage class code.

Φ22 AD16-22 Series Special-purpose Indicator Model Selection



Description:

Before the oblique line of the model is filled with A, B, C, D etc. Before the oblique line is filled with color and list filled with voltage class code. AC double-color lights must not be wired wrong (e.g. X1 and X2 are connected)

Name	Туре	Model	Color	Lamp Voltage	Appearance dimension	Remarks
Position Indicator of Isolation Switch	B	AD16-22W/G (round) AD16-22WF/G (square)	is green when X0X1 are power on, is red when X0X2 are power on		L D35.5 J	
Position Indicators of Circuit Breaker	9	AD16-22W/D (round) AD16-22WF/D (square)	□is red when X0X1 are power on, \$\psi\$ is red when X0X2 are power on	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	220 ₂	If it is used as handcart type position indicators, when XOX1 are power on, \$\display\$ is red When XOX2 are power on, \$\display\$ is red. Please add C after the model "D". That is: AD16-22WF/DC, AD16-22WF/DC
Earthing Position Indicators		AD16-22W/N (round) AD16-22WF/N (square)	슬 is red when X1X2 are power on			

The position indicators of isolation switches/circuit breakers must not be wired wrongly (e.g.: X1 and X2 are connected)

Name	Туре	Model	Color	Lamp Voltage	Appearance dimension
Indicators (plug- in type wiring)		AD16-16A/□目	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	\$\frac{\phi}{2}\$
Indicators (plug- in type wiring)	To be a second	AD16-16B/□目	red-r green-g yellow-y white-w blue-b	26-AC.DC 110V 27-AC.DC 127V 28-AC.DC 220V 31-AC 220V 32-AC 380V	φ19 α α α α α α α α α α α α α
Indicators (Round)		AD16-16C/□目	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 28-AC.DC 220V	8x0.05 Round actuator
Indicators (Square)		AD16-16CF/□ ■	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 28-AC.DC 220V	Rectangular top view
Indicators (Rectangular)		AD16-16CJ/□目	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 28-AC.DC 220V	Square top view

Name	Туре	Model	Color	Lamp Voltage	Appearance dimension
Indicators (plug- in type wiring)	and the same	AD16-16D/□■	red-r green-g	21-AC.DC 6V 22-AC.DC 12V 23-AC.DC 24V 24-AC.DC 36V 25-AC.DC 48V	
Indicators (screw type wiring)	and a	AD16-16DL/□■	yellow-y white-w blue-b	26-AC.DC 110V 27-AC.DC 127V 28-AC.DC 220V 31-AC 220V 32-AC 380V	\$185±0.11

☐ in the column of model is indicated with color, ☐ is indicated with voltage class code.

Name	Туре	Model	Lamp Voltage	Calling Method	Rated Sound Pressure and Frequency	Appearance dimension
Buzzers (Round)		AD16-16M/□ ■				Wiring terminal 2 8x0.5 Thickness of mounting plate 1-6
Buzzers (Square)		AD16-16MF/□目	21-AC.DC 6V 22-AC.DC 12V 23-AC.DC 24V 24-AC.DC 36V 25-AC.DC 48V	A (intermittent) B (whistling)	75dB (10cm) (under rated voltage) 2300Hz±400Hz	Square top view Round top view
Buzzers (Rectangular)		AD16-16MJ/□■				Rectangular top view

Description:

[&]quot; 🗆 " in the column of model is indicated with the letter of calling method," 🗏 " is indicated with voltage class code.

Φ12 AD16-12 Series Indicator Model Selection

Name	Туре	Model	Color	Lamp Voltage	Appearance dimension
Indicators (Round)		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	15 12+0.2 214 15 210.5 114 15 210.5 114 16 214 17 214 18

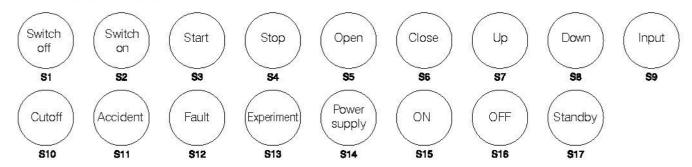
Description:

- 1. " □ " in the column of model is indicated with color, " " is indicated with voltage class code.
- 2. Provide the indicators with two types of voltages according to the customer's requirements.

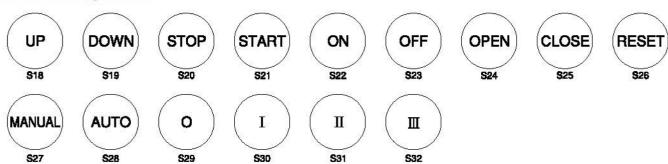
Wiring Method: welded and plug-in type

- 1. The wiring shall avoid being welded. The internationally common used plug bush (2.8x0.5mm) shall be used for connection and the jacket shall be installed.
- 2. The terminals are welded within 20W/5 seconds or 260°C /3 seconds when welding is applied. No force is applied to the terminals and the soldering iron shall not contact the enclosure. The stress shall not be applied on the terminals, neither lifting or bending the terminals, nor applying external force on the terminals.

Chinese Symbols

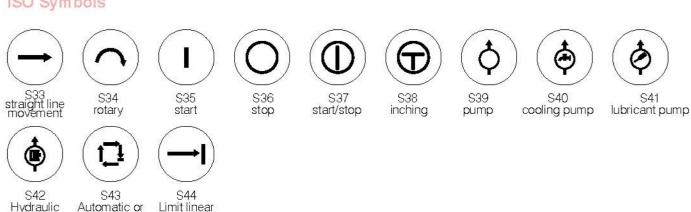


Standard Symbols



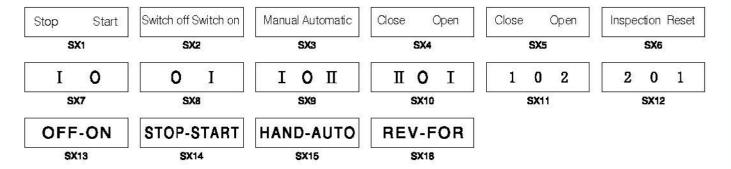
ISO Symbols

pump



Selector switch Label or Inscription on Label Frame

automatic cycle movement





www.siemens-apt.com

Siemens Electrical Apparatus Ltd., Suzhou, APT Sales and Marketing Rm 301, Tsidi Building No.55, Lane 777, West Guangzhong Road Shanghai

Zip Code: 200072 TEL: (021)56553757

URL: https://siemens-apt.com

FAX: (021)56551750

Email: rfq@siemens-apt.com