

产品概述 Overview

LAS1-A系列P(W)型产品种类齐全，市场应用广泛，部分产品头部拥有圆形、方形、矩形三种形状（详见内容页），其中按钮及信号灯产品为贴面安装，前框仅高出面板2mm，时尚且美观。

The LAS1-A series P(W) products have a complete range of types and are widely used in the market. Some products come in three shapes: circular, square, and rectangular (see content page for details). The button and signal light products are installed with a veneer, and the front frame is only 2mm higher than the panel, which is fashionable and beautiful.

规格 Specifications

产品包含按钮、信号指示灯、急停钮、钥匙钮、旋钮、蘑菇钮；拥有安装孔 $\Phi 16\text{mm}$ ， $\Phi 22\text{mm}$ ， $21\times 21\text{mm}$ （方形）， $21\times 27\text{mm}$ （矩形）。

The product includes buttons, signal indicator lights, emergency stop buttons, key buttons, knobs, and mushroom buttons; Equipped with installation holes of 16mm, 22mm, $21\times 21\text{mm}$ (square), and $21\times 27\text{mm}$ (rectangular).

性能 Performance

产品具有性能稳定、接触电阻小、绝缘性强、耐振动等特点；符合IEC60947-5-1、GB/T14048.5等标准。

The product has the characteristics of stable performance, low contact resistance, strong insulation, and vibration resistance; Compliant with standards such as IEC60947-5-1 and GB/T14048.5.

结构 Structure

开关元件采用“快动”结构，每个开关元件包含一常开一常闭，每只按钮最多可配置2个开关元件。

The switch elements adopt a "quick action" structure, with each switch element containing one normally open and one normally closed, and each button can be configured with up to 2 switch elements.

防护等级 Protection grade

常规配置为IP40，部分产品可定制IP65

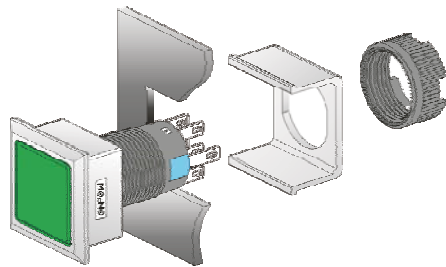
The standard configuration is IP40, and some products can be customized to IP65

产品认证 Certification



底部预览及端子排列 Bottom preview and terminal arrangement

底部预览 Bottom preview	端子排列 Terminal arrangement



安装示意图
Installation diagram

超薄可定制图案带灯按钮，面板以上仅2mm厚

Ultra thin customizable pattern with light button, only 2mm thick above the panel

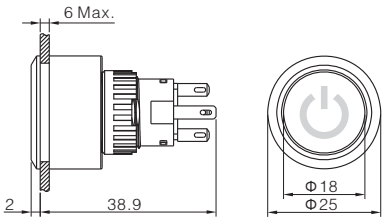
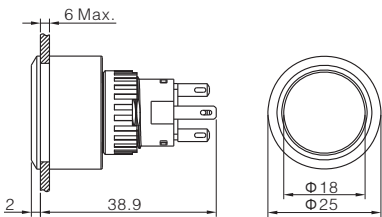
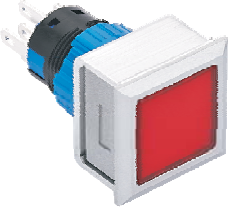
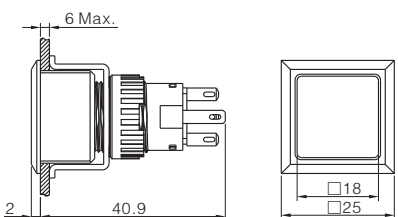
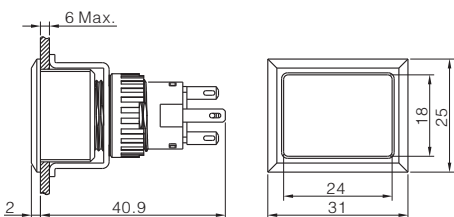
安装孔尺寸 Installation hole size

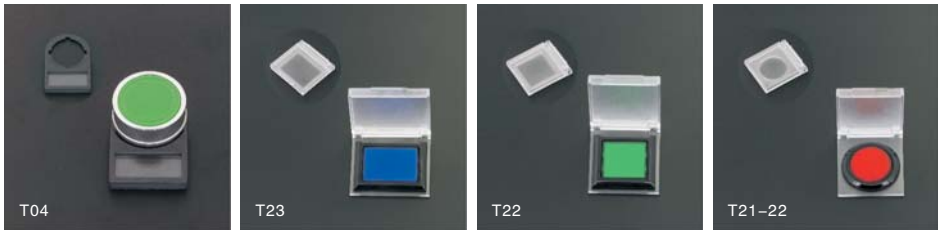
圆形按钮 Round Button	方形按钮 Square Button	矩形按钮 Rectangular button

产品图样 Product drawings

规格参数 Specification parameters

外形尺寸 Dimensions

 LAS1-AWY-□■T/△/▲/※	开关组合□ Contact structure 操作类型■ Operation mode 颜色△ Color 带灯电压▲ Lamp voltage 防护等级 Protection degree 适用附件 Appendix 11: 1NO1NC / 22: 2NO2NC 无字母表示自复 / Z: 自锁 No letter means Momentary / Z: Latching R G Y B W N 6V / 12V / 24V / 110V / 220V 无字母代表IP40 / P: IP65 No letters represent IP40 / P: IP65 T04 / T21-22 / S04 / S05	
 LAS1-AWY-□■/△/▲/※	开关组合□ Contact structure 操作类型■ Operation mode 颜色△ Color 带灯电压▲ Lamp voltage 防护等级 Protection degree 适用附件 Appendix 11: 1NO1NC / 22: 2NO2NC 无字母表示自复 / Z: 自锁 No letter means Momentary / Z: Latching R G Y B W N 6V / 12V / 24V / 110V / 220V 无字母代表IP40 / P: IP65 No letters represent IP40 / P: IP65 T04 / T21-22 / S04 / S05	
 LAS1-AWF-□■/△/▲/※	开关组合□ Contact structure 操作类型■ Operation mode 颜色△ Color 带灯电压▲ Lamp voltage 防护等级 Protection degree 适用附件 Appendix 11: 1NO1NC / 22: 2NO2NC 无字母表示自复 / Z: 自锁 No letter means Momentary / Z: Latching R G Y B W N 6V / 12V / 24V / 110V / 220V 无字母代表IP40 / P: IP65 No letters represent IP40 / P: IP65 T22 / S04 / S05	
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产品图样 Product drawings

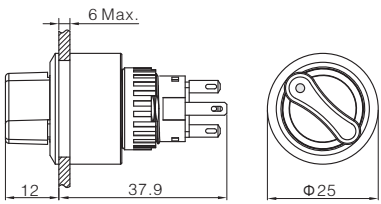
规格参数 Specification parameters

外形尺寸 Dimensions



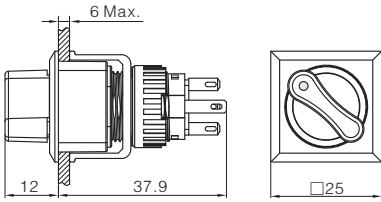
开关组合□
Contact structure
操作位置◇◆
operation position
颜色△
Color
带灯电压▲
Lamp voltage
防护等级※
Protection degree
适用附件
Appendix

1NO1NC / 22: 2NO2NC
L R L R L C R L C R
21 23 31 33
R G Y B W N
6V / 12V / 24V / 110V / 220V
无字母代表IP40 / P: IP65 (仅保持式)
No letters represent IP40/P: IP65 (hold only)
T04 / S04 / S05



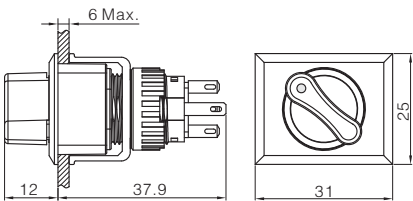
开关组合□
Contact structure
操作位置◇◆
operation position
颜色△
Color
带灯电压▲
Lamp voltage
防护等级※
Protection degree
适用附件
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1NO1NC / 22: 2NO2NC
L R L R L C R L C R
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R G Y B W N
6V / 12V / 24V / 110V / 220V
无字母代表IP40 / P: IP65 (仅保持式)
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S04 / S05



开关组合□
Contact structure
操作位置◇◆
operation position
颜色△
Color
带灯电压▲
Lamp voltage
防护等级※
Protection degree
适用附件
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1NO1NC / 22: 2NO2NC
L R L R L C R L C R
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R G Y B W N
6V / 12V / 24V / 110V / 220V
无字母代表IP40 / P: IP65 (仅保持式)
No letters represent IP40/P: IP65 (hold only)
S04 / S05



旋钮、钥匙工作位置触头状态 Knob and key working position contact status

开关类型 Switch type 动作位置 Action position	90 2 位置 90 2 positions				45 3 位置 45 3 positions			
	1NO1NC		2NO2NC		2NO2NC			
↻	NO NC	NC	NO NC	NC	NO NC	NC	NO NC	NC
↑			左触点 右触点		左触点 右触点		左触点 右触点	
↻	NO NC	NC	NO NC	NC	NO NC	NC	NO NC	NC



产品图样 Product drawings

规格参数 Specification parameters

外形尺寸 Dimensions



LAS1-AWY-□Y/◇◆●●/△/▲/※

开关组合□
Contact structure

操作位置◇◆
operation position

钥匙保留位置●
Key retention position

颜色△
Color

带灯电压▲
Lamp voltage

防护等级※
Protection degree

适用附件
Appendix

1NO1NC / 22: 2NO2NC

L R L R L C R L C R

21 23 31 33

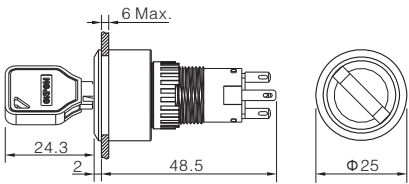
参考注意事项
Reference precautions

R G Y B W

6V / 12V / 24V / 110V / 220V

无字母代表IP40 / P:IP65(仅保持式)
No letters represent IP40/P: IP65 (hold only)

T04 / S04 / S05



LAS1-AWF-□Y/◇◆●●/△/▲/※

开关组合□
Contact structure

操作位置◇◆
operation position

钥匙保留位置●
Key retention position

颜色△
Color

带灯电压▲
Lamp voltage

防护等级※
Protection degree

适用附件
Appendix

1NO1NC / 22: 2NO2NC

L R L R L C R L C R

21 23 31 33

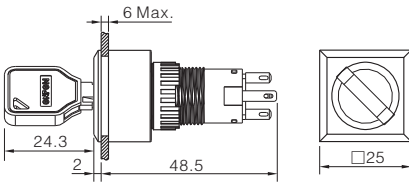
参考注意事项
Reference precautions

R G Y B W

6V / 12V / 24V / 110V / 220V

无字母代表IP40 / P:IP65(仅保持式)
No letters represent IP40/P: IP65 (hold only)

S04 / S05



LAS1-AWJ-□Y/◇◆●●/△/▲/※

开关组合□
Contact structure

操作位置◇◆
operation position

钥匙保留位置●
Key retention position

颜色△
Color

带灯电压▲
Lamp voltage

防护等级※
Protection degree

适用附件
Appendix

1NO1NC / 22: 2NO2NC

L R L R L C R L C R

21 23 31 33

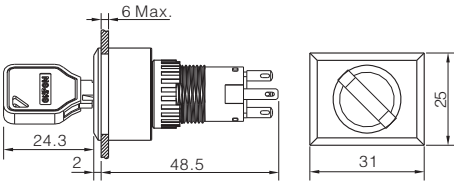
参考注意事项
Reference precautions

R G Y B W

6V / 12V / 24V / 110V / 220V

无字母代表IP40 / P:IP65(仅保持式)
No letters represent IP40/P: IP65 (hold only)

S04 / S05



注意
事项

- : 钥匙保留位置
Key retention position
无字默认为A型
Default for wordless type A
- 提供2把钥匙，使用时须旋转到位。
Provide 2 keys, which must be rotated into place when in use.
- A: B: C: D: E: G: H:

旋钮、钥匙工作位置触头状态 Knob and key working position contact status

开关类型 Switch type	90 2 位置 90 2 positions				45 3 位置 45 3 positions	
	1NO1NC		2NO2NC		2NO2NC	
动作位置 Action position	NO NC		NO NC NO NC		NO NC NO NC	
左触点	C1		左触点 C1 右触点 C1		左触点 C1 右触点 C1	
右触点	C1		左触点 C1 右触点 C1		左触点 C1 右触点 C1	
NO NC	NO NC		NO NC NO NC		NO NC NO NC	
左触点	C1		左触点 C1 右触点 C1		左触点 C1 右触点 C1	
右触点	C1		左触点 C1 右触点 C1		左触点 C1 右触点 C1	



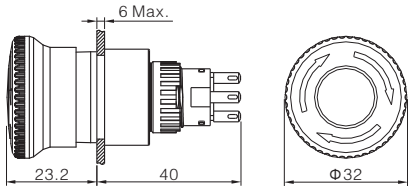
产品图样 Product drawings

规格参数 Specification parameters

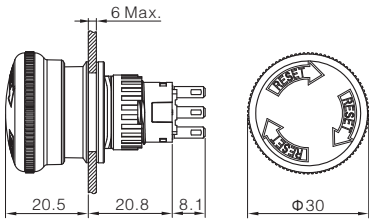
外形尺寸 Dimensions



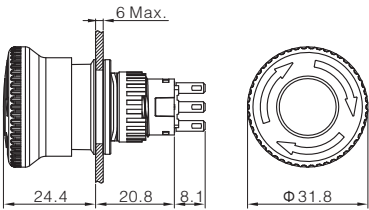
开关组合□ 11: 1NO1NC / 22: 2NO2NC
Contact structure
防护等级 无字母代表IP40 / P: IP65
Protection degree
适用附件 T26
Appendix



开关组合□ 11: 1NO1NC / 22: 2NO2NC
Contact structure
防护等级 无字母代表IP40 / P: IP65
Protection degree
适用附件 T26
Appendix



开关组合□ 11: 1NO1NC / 22: 2NO2NC
Contact structure
防护等级 无字母代表IP40 / P: IP65
Protection degree
适用附件 T26
Appendix



黑色外壳产品展示 (可参照LAS1-AW银色外壳产品选型) Black shell product display(Refer to LAS1-AW Silver Shell Product Selection)

型号 Model	LAS1-APY-□■/△/▲/※	LAS1-APF-□■/△/▲/※	LAS1-APJ-□■/△/▲/※
外形 Shape			
型号 Model	LAS1-APY-□XB/◇◆/△/▲/※	LAS1-APF-□XB/◇◆/△/▲/※	LAS1-APJ-□XB/◇◆/△/▲/※
外形 Shape			
型号 Model	LAS1-APY-□Y/◇◆●/△/▲/※	LAS1-APF-□Y/◇◆●/△/▲/※	LAS1-APJ-□Y/◇◆●/△/▲/※
外形 Shape			

Note

注意
事项

●

●

●: 钥匙保留位置
Key retention position
无字默认为A型
Default for wordless type A

A:

B:

C:

D:

E:

G:

H:

●

●

提供2把钥匙，使用时须旋转到位。
Provide 2 keys, which must be rotated into place when in use.

旋钮、钥匙工作位置触头状态 Knob and key working position contact status

开关类型 Switch type 动作位置 Action position	90 2 位置 90 2 positions		45 3 位置 45 3 positions	
	1NO1NC	2NO2NC	2NO2NC	

短体开关

Short body switch

LAS1-A22 系列

Series

● 安装孔径：Φ22mm。

Installation aperture

● 开关特性：

Switch characteristics

按钮开关为“快动|单/双刀双掷”；

The button switch is “quick action | single/double pole double throw”；

急停开关为“慢动|单/双刀单掷”。

The emergency stop switch is “slow motion | single/double pole single throw”.

● 产品特点：超短尾部设计，应对多种安装场景；

Product features: Ultra short tail design, suitable for various installation scenarios;

升级大按键，提升操作手感。

Upgrade the large buttons to enhance the user experience.

● 产品认证：

Certification

按钮

button

急停开关

emergency stop switch

CE

CE

CCC

CRAUS

开关CCC认证参数 CCC certification parameters for switches

额定绝缘电压 U_i	250V
约定自由空气发热电流 I_{th}	5A
额定冲击耐受电压 U_{imp}	2.5kV
额定电流/电压 I_e/U_e	AC-15: 1.5A/220V DC-13: 1.5A/220V
触点材料 Contact material	银合金 Silver alloy

灯珠规格 Lamp specifications

LED寿命 LED Life	电流 Current	允许电压波动范围 Voltage fluctuation range	电路图 Circuit diagram
$\geq 40000h$	$< 20mA$	DC: 1 0% AC: 2 0%	

注：产品内置保护电阻且灯珠接线无正负极区分。
Note: The product has a built-in protective resistor, and the LED is a non-polar LED.

开关结构说明 Switch structure description

	型式 Type	示意图 Diagrammatic	符号 Symbol
按钮 Push button	C		
急停开关 Emergency stop button	X		
	Y		

性能特征 Performance characteristics

工作环境温度 Ambient Temperature	-25℃~+55℃(无冰冻)，开关本体周围必须空气流通 -25℃~+55℃(No freezing), air circulation must be maintained around the switch body	
工作环境湿度 Environment Humidity	45~85% RH(无结露) 45~85% RH(No condensation)	
初始接触电阻 Initial contact resistance	$\leq 50m\Omega$	
绝缘电阻 Insulation resistance	$\geq 100M\Omega(500VDC)$	
耐振动性 Vibration resistance	5~50赫兹，振幅约1.2mm 5~50Hz, amplitude about 1.2mm	
耐压 Withstanding Voltage	1500VAC, 50Hz, 1 min	
机械寿命 Mechanical Life	自复钮 Momentary	100万次 1,000,000 times
	自锁钮 Latching	50万次 500,000 times
	急停钮 Emergency stop button	20万次 200,000 times
电气寿命 Electrical life	5万次以上 Over 50,000 times	
耐焊锡热 Resistance to soldering heat	320℃ 3s	
操作力 Operating power	约1.5N(1NO1NC) / 约3N(2NO2NC) About 1.5N(1NO1NC) / About 3N(2NO2NC)	
	急停开关：约16N Emergency stop button: About 16N	
操作行程 Operation itinerary	按钮：约3mm Push button: About 3mm	急停开关：约6mm Emergency stop button: About 6mm
基座材料 Base material	按钮：PBT Push button: PBT	急停开关：PA Emergency stop button: PA
螺母扭矩 Nut torque	约0.6N m About 0.6N m	

C05-07

LAS1-A22系列型号说明LAS1-A22 series model description

对应符号 Symbol	符号名称 Symbol Name	具体说明 Specific Explanation
□	开关组合 Switch combination	11:1NO1NC / 22:2NO2NC / 无数字代表指示灯 11: 1NO1NC/22:2NO2NC/No number represents indicator light
■	操作类型 Operation type	Z:自锁按钮 / 无字母代表自复按钮 / TSB:急停开关 Z: Latching / no letter represents Momentary / TSB: B-type emergency stop button
◇	尾部配置 Tail configuration	L:排线 / 无字母代表接线插片 L: Wire harness/no letter represents terminal plug
△	颜色 Color	R:红 / G:绿 / Y:黄 / B:蓝 / W:白 / N 黑 R: Red / G: Green / Y: Yellow / B: Blue / W: White / N:Black
▲	电压 Voltage	6V / 12V / 24V / 110V / 220V / 其他电压等级可定做 (默认交直流通用LED, 内置电阻) 6V / 12V / 24V / 110V / 220V / Other voltage levels can be customized (default AC/DC universal LED, built-in resistor)

引脚说明Pinouts

图例 Legend	说明 Description	图例 Legend	说明 Description
按钮开关 Push button	最多可配置两组开关。 C1、NO1、NC1和C2、NO2、NC2分别为为一组开关；C脚为公用脚，NO脚为常开脚，NC脚为常闭脚；+、-脚为灯珠引脚，常规灯珠配置无正负极区分。灯珠与开关相对独立，可通过开关或外围电路控制灯珠状态。 Up to two sets of switches can be configured. C1, NO1, NC1 and C2, NO2, NC2 are each a set of switches; The C foot is a common foot, the NO foot is a normally open foot, and the NC foot is a normally closed foot- The foot is the pin of the lamp bead, and conventional lamp bead configurations do not distinguish between positive and negative poles. The lamp bead is relatively independent of the switch and can be controlled by the switch or peripheral circuit to control the state of the lamp bead.	急停开关 Emergency stop button	最多可配置两组开关。 1、2和3、4分别为为一组开关；可根据需要选择02(2NC),20(2NO)或11(1NO1NC)；中间两脚为灯珠引脚，常规灯珠配置无正负极区分。灯珠与开关相对独立，可通过开关或外围电路控制灯珠状态。 Up to two sets of switches can be configured. 1, 2, 3, and 4 are each a set of switches; You can choose 02(2NC), 20(2NO), or 11(1NO1NC) as needed; The middle two legs are lamp bead pins, and conventional lamp bead configurations do not distinguish between positive and negative poles. The lamp bead is relatively independent of the switch and can be controlled by the switch or peripheral circuit to control the state of the lamp bead.

产品图样 Product drawings	规格参数 Specification parameters	外形尺寸 Dimensions
LAS1-A22Y-□■/△/▲	开关额定值 Switch rating 0.5A / 220V 开关组合□ Contact structure 11: 1NO1NC / 22: 2NO2NC 操作类型■ Operation mode 无字母表示自复 / Z: 自锁 No letter means Momentary / Z: Latching 颜色△ Color R G Y B W 带灯电压▲ Lamp voltage 6V / 12V / 24V 防护等级 Protection degree IP65	
LAS1-A22Y-□TSB	开关额定值 Switch rating 1.5A / 220V 开关组合□ Contact structure 01: 1NC / 02: 2NC / 11: 1NO1NC 防护等级 Protection degree IP65	
LAS1-A22Y-□TSB/R/▲	开关额定值 Switch rating 1.5A / 220V 开关组合□ Contact structure 01: 1NC / 02: 2NC / 11: 1NO1NC 颜色 Color R 带灯电压▲ Lamp voltage 6V / 12V / 24V / 110V / 220V 防护等级 Protection degree IP65	

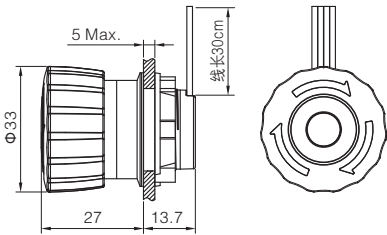
产品图样 Product drawings

规格参数 Specification parameters

外形尺寸 Dimensions



开关额定值
Switch rating 1.5A / 220V
开关组合□
Contact structure 01: 1NC / 02: 2NC / 11: 1NO1NC
防护等级
Protection degree IP65



开关额定值
Switch rating 1.5A / 220V
开关组合□
Contact structure 01: 1NC / 02: 2NC / 11: 1NO1NC
颜色
Color **R**
带灯电压▲
Lamp voltage 6V / 12V / 24V / 110V / 220V
防护等级
Protection degree IP65

