

LAS1 Series A Type Pushbutton Switches

Characteristic

Specs

Having three head shape: round ($\Phi 18\text{mm}$), square ($18 \times 18\text{mm}$) and rectangular ($18 \times 24\text{mm}$), containing pilot lamps, pushbuttons, illuminated push buttons, selector switches, key-lock switches, buzzer and emergency switches. The normal diameter of the installation hole is $\Phi 16\text{mm}$, and some type can be installed in $\Phi 22\text{mm}$ hole easily with the diameter changing circle.

Functions

The product has stable property, small contact resistance, strong insulation resistance, anti-vibration and so on. It meets to standards of IEC60947-5-1, GB14048.5 etc.

Structure

The switch have the advantage of fast-break and self-cleaning, and each of them contains 1 NO and 1 NC terminal. Every pushbutton also can possess from one to two switch units.

Protective Degree

Its protective degree is IP40, IP65, some of type can reach IP67 with the seal cover.

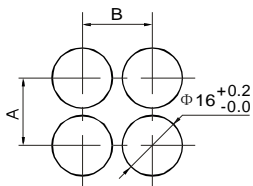
Lamp Ratings

| Lamp Type | AC LED Lamp (Standard) | | | Neon Lamp | | |
|---------------|------------------------|----------|-----------|--------------------|--------|---|
| | AC/DC6V | AC/DC12V | AC/DC24V | AC110V | AC220V | |
| Rated Voltage | AC/DC110V | | AC/DC220V | | | |
| Cover Color: | R | G | Y | O | B | W |
| Life | About 40,000 hours | | | About 20,000 hours | | |

Note: the lamp contains a current-limiting resistor inside and doesn't need external connection.

DC LED lamp, dual-color LED lamp and other voltages can be customized.

Installation Dimensions



| Category | A | B |
|-----------------|--------------------|--------------------|
| Round | $\geq 18\text{mm}$ | $\geq 18\text{mm}$ |
| Square | $\geq 18\text{mm}$ | $\geq 18\text{mm}$ |
| Rectangular | $\geq 18\text{mm}$ | $\geq 24\text{mm}$ |
| Mushroom | $\geq 24\text{mm}$ | $\geq 24\text{mm}$ |
| Big square | $\geq 24\text{mm}$ | $\geq 24\text{mm}$ |
| Big rectangular | $\geq 18\text{mm}$ | $\geq 24\text{mm}$ |

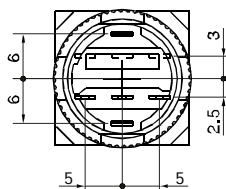
Switch Ratings

| Thermal Current I _{th} | 5A | | |
|---------------------------------|---------|-------------|-------------|
| Rated Voltage | 24V | 125V (110V) | 250V (220V) |
| Direct Current | 1A | 0.2A | 0.1A |
| Alternating Current | P.F=1 | 5A | 3A |
| | P.F=0.7 | 3A | 2A |

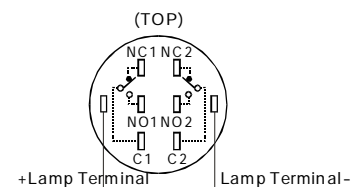
Specifications

| | | |
|-----------------------|--|--|
| Operating Temperature | -25°C ~ +55°C (no freezing) | |
| Operating Humidity | 45 ~ 85%RH (no condensation) | |
| Contact Material | - silver - silver alloy - gold-clad silver, cladding thickness is 3 μm | |
| Contact Resistance | $\leq 50\text{M}\Omega$ | |
| Insulation Resistance | $\geq 100\text{M}\Omega$ | |
| Dielectric strength | Between contact and lamp terminals: 2000V, AC 50Hz, 1 min | |
| | Between terminal of the same pole: 1000V, AC 50Hz, 1 min | |
| | Between terminal of different pole: 2000V, AC 50Hz, 1 min | |
| Vibration Resistance | 50Hz, Amplitude 1.2mm p-p | |
| Shock Resistance | $\geq 10\text{g}$ | |
| Life | Mechanical | Momentary Type: 1,000,000 times Alternate and Selector Type: 500,000 times Key-lock and Emergency Type: 200,000 times |
| | Electrical | $\geq 50,000$ times |
| | Terminal | Diameter of welded wire: $2 \times 0.8\text{mm}$ Area of copper wire: 0.75mm^2 max Connecting link: $2.8 \times 0.5\text{mm}$ |
| | Solder Heat Resistance | 230°C (no more than 3 second) |
| Operating Travel | (Pushbuttons) about 3mm | |

Bottom View



Terminal Arrangement



Implication of Type

| LAS1-A | ★ | - | □ | ■ | / | ◇ | ◆ | / | △ | / | ▲ | / | ◎ |
|----------------|---|--|---|--|--|---|---|---|---|---|---|---|---|
| Code of series | The front shape: Y round F square J rectangular M mushroom DF big square DJ big rectangular | Contact Structure: 11 1NO1NC 22 2NO2NC | Code name of derivative products: D pilot lamp Z alternate type X selector type Y key-lock type TS emergency B buzzer type No letter means momentary | ◇: expresses selector and key-lock series: 2 two position 3 three position ◆: expresses key-lock retention position | color: R red G green Y yellow O orange B blue W white N black | Lamp Voltage (Please check the lamp rating) | Protective Degree: P IP65 FP IP67 No letter means IP40 | | | | | | |

LAS1-A Pilot Lamp

Product Outline

| Model Number | LAS1-AY-D/△/▲/○ | LAS1-AF-D/△/▲/○ | LAS1-AJ-D/△/▲/○ |
|--------------|--|-----------------|-----------------|
| Shape | | | |
| Remarks | R G Y O B W | | |




LAS1-A Pushbuttons, Illuminated Pushbuttons

Product Outline

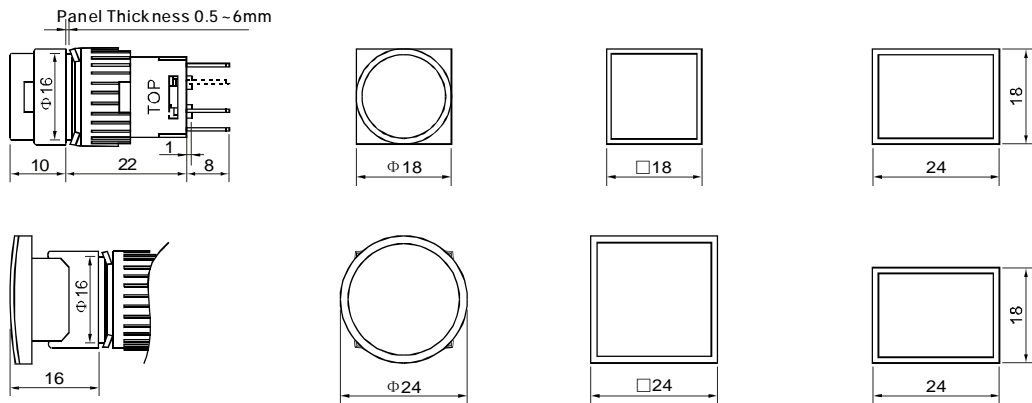
Note: SPDT single - pole double - throw, DPDT double - pole double Throw.

| Shape | Contact | Operating Type | Type Number | Remarks |
|--------------------------------------|---------|----------------|-------------------|--|
| Round (can be illuminated) | SPDT | Momentary | LAS1-AY-11/△/▲/○ | <div style="display: flex; justify-content: space-around; align-items: center;"> R G Y O B W N </div> <ul style="list-style-type: none"> ○ The black cover can't be used with the illuminated push buttons ○ Protective Degree: IP40, IP65, IP67; IP67 should be installed with seal covers. |
| | | Alternate | LAS1-AY-11Z/△/▲/○ | |
| | DPDT | Momentary | LAS1-AY-22/△/▲/○ | |
| | | Alternate | LAS1-AY-22Z/△/▲/○ | |
| Square (can be illuminated) | SPDT | Momentary | LAS1-AF-11/△/▲/○ | |
| | | Alternate | LAS1-AF-11Z/△/▲/○ | |
| | DPDT | Momentary | LAS1-AF-22/△/▲/○ | |
| | | Alternate | LAS1-AF-22Z/△/▲/○ | |
| Rectangular (can be illuminated) | SPDT | Momentary | LAS1-AJ-11/△/▲/○ | |
| | | Alternate | LAS1-AJ-11Z/△/▲/○ | |
| | DPDT | Momentary | LAS1-AJ-22/△/▲/○ | |
| | | Alternate | LAS1-AJ-22Z/△/▲/○ | |
| Mushroom (can be illuminated) | SPDT | Momentary | LAS1-AM-11/△/▲/○ | <div style="display: flex; justify-content: space-around; align-items: center;"> R G Y </div> <ul style="list-style-type: none"> ○ Protective Degree: IP40, IP65. |
| | | Alternate | LAS1-AM-11Z/△/▲/○ | |
| | DPDT | Momentary | LAS1-AM-22/△/▲/○ | |
| | | Alternate | LAS1-AM-22Z/△/▲/○ | |

Note: SPDT signal-pole double-throw, DPDT double-pole double-throw.




| Shape | Contact | Operating Type | Type Number | Remarks |
|--|---------|----------------|--------------------|---|
| Big Square(can be illuminated)  | SPDT | Momentary | LAS1-ADF-11/△/▲/◎ |  ◎ Protective Degree: IP40, IP65. |
| | | Alternate | LAS1-ADF-11Z/△/▲/◎ | |
| | DPDT | Momentary | LAS1-ADF-22/△/▲/◎ | |
| | | Alternate | LAS1-ADF-22Z/△/▲/◎ | |
| Big Rectangular(can be illuminated)  | SPDT | Momentary | LAS1-ADJ-11/△/▲/◎ | |
| | | Alternate | LAS1-ADJ-11Z/△/▲/◎ | |
| | DPDT | Momentary | LAS1-ADJ-22/△/▲/◎ | |
| | | Alternate | LAS1-ADJ-22Z/△/▲/◎ | |

Shape and Dimensions

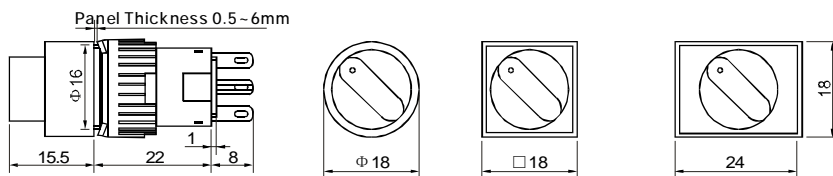


LAS1-A Selector Switches

Product Cutline

| Shape | Position | Contact | Type Number | Remarks |
|--|--|---------|---------------------|--|
| Round(can be illuminated)  | $\begin{matrix} L & & R \\ & \diagdown & / \\ & \text{C} & \end{matrix}$ 90° 2 Position | SPDT | LAS1-AY-11X/2/△/▲/◎ | <div style="display: flex; align-items: center; gap: 10px;"> R G Y N </div> <ul style="list-style-type: none"> ◎ The black cover can't be used with the illuminated push buttons ◎ Protective Degree: IP40, IP65. |
| | | DPDT | LAS1-AY-22X/2/△/▲/◎ | |
| | $\begin{matrix} L & C & R \\ & \diagdown & / \\ & \text{C} & \end{matrix}$ 45° 3 Position | DPDT | LAS1-AY-22X/3/△/▲/◎ | |
| Square(can be illuminated)  | $\begin{matrix} L & & R \\ & \diagdown & / \\ & \text{C} & \end{matrix}$ 90° 2 Position | SPDT | LAS1-AF-11X/2/△/▲/◎ | |
| | | DPDT | LAS1-AF-22X/2/△/▲/◎ | |
| | $\begin{matrix} L & C & R \\ & \diagdown & / \\ & \text{C} & \end{matrix}$ 45° 3 Position | DPDT | LAS1-AF-22X/3/△/▲/◎ | |
| Rectangular(can be illuminated)  | $\begin{matrix} L & & R \\ & \diagdown & / \\ & \text{C} & \end{matrix}$ 90° 2 Position | SPDT | LAS1-AJ-11X/2/△/▲/◎ | |
| | | DPDT | LAS1-AJ-22X/2/△/▲/◎ | |
| | $\begin{matrix} L & C & R \\ & \diagdown & / \\ & \text{C} & \end{matrix}$ 45° 3 Position | DPDT | LAS1-AJ-22X/3/△/▲/◎ | |

Shape and Dimensions






Contact Operation

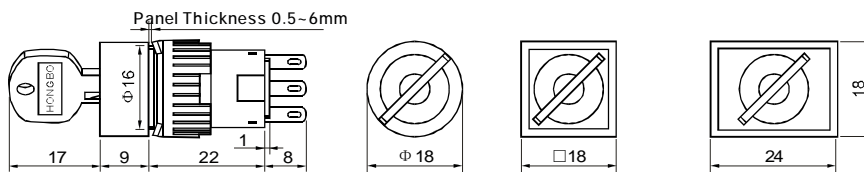
| Position | Contact | Operating Position & Contact Operation | | |
|----------------|---------|--|--|--|
| | | Left | Center | Right |
| 90° 2 Position | 1C | $\begin{matrix} \text{NO} & \text{NC} \\ & \diagdown & / \\ & \text{C} & \end{matrix}$ | / | $\begin{matrix} \text{NO} & \text{NC} \\ & \diagdown & / \\ & \text{C} & \end{matrix}$ |
| | 2C | $\begin{matrix} \text{NO} & \text{NC} & & \text{NO} & \text{NC} \\ & \diagdown & / & & \diagdown & / \\ & \text{C} & & \text{C} & & \text{C} \end{matrix}$ Left Contact C Right Contact C | / | $\begin{matrix} \text{NO} & \text{NC} & & \text{NO} & \text{NC} \\ & \diagdown & / & & \diagdown & / \\ & \text{C} & & \text{C} & & \text{C} \end{matrix}$ Left Contact C Right Contact C |
| 45° 3 Position | 2C | $\begin{matrix} \text{NO} & \text{NC} & & \text{NO} & \text{NC} \\ & \diagdown & / & & \diagdown & / \\ & \text{C} & & \text{C} & & \text{C} \end{matrix}$ Left Contact C Right Contact C | $\begin{matrix} \text{NO} & \text{NC} & & \text{NO} & \text{NC} \\ & \diagdown & / & & \diagdown & / \\ & \text{C} & & \text{C} & & \text{C} \end{matrix}$ Left Contact C Right Contact C | $\begin{matrix} \text{NO} & \text{NC} & & \text{NO} & \text{NC} \\ & \diagdown & / & & \diagdown & / \\ & \text{C} & & \text{C} & & \text{C} \end{matrix}$ Left Contact C Right Contact C |

LAS1-A Key-lock Switches

Product Outline



| Shape | Position | Key Retained at Position ● | Contact | Type | Remarks |
|---|---|----------------------------|------------------|------------------|--|
| Round  | $\begin{matrix} L & & R \\ & \diagdown & / \\ & \text{V} & \end{matrix}$ 90° 2 Position | | SPDT | LAS1-AY-11Y/2A/○ | ○ Two keys are supplied. ○ All the keys are same. ○ Protective Degree: IP40, IP65 |
| | | DPDT | LAS1-AY-22Y/2A/○ | | |
| | | | SPDT | LAS1-AY-11Y/2B/○ | |
| | | DPDT | LAS1-AY-22Y/2B/○ | | |
| | | | SPDT | LAS1-AY-11Y/2C/○ | |
| | | DPDT | LAS1-AY-22Y/2C/○ | | |
| | $\begin{matrix} L & & C & & R \\ & \diagdown & & / & \\ & & \text{V} & & \end{matrix}$ 45° 3 Position | | DPDT | LAS1-AY-22Y/3A/○ | |
| | | | DPDT | LAS1-AY-22Y/3B/○ | |
| | | | DPDT | LAS1-AY-22Y/3C/○ | |
| | | | DPDT | LAS1-AY-22Y/3D/○ | |
| | | | DPDT | LAS1-AY-22Y/3E/○ | |
| | | | DPDT | LAS1-AY-22Y/3G/○ | |
| | | | DPDT | LAS1-AY-22Y/3H/○ | |
| | | | DPDT | LAS1-AY-22Y/3H/○ | |
| Square  | $\begin{matrix} L & & R \\ & \diagdown & / \\ & \text{V} & \end{matrix}$ 90° 2 Position | | SPDT | LAS1-AF-11Y/2A/○ | |
| | | DPDT | LAS1-AF-22Y/2A/○ | | |
| | | | SPDT | LAS1-AF-11Y/2B/○ | |
| | | DPDT | LAS1-AF-22Y/2B/○ | | |
| | | | SPDT | LAS1-AF-11Y/2C/○ | |
| | | DPDT | LAS1-AF-22Y/2C/○ | | |
| | $\begin{matrix} L & & C & & R \\ & \diagdown & & / & \\ & & \text{V} & & \end{matrix}$ 45° 3 Position | | DPDT | LAS1-AF-22Y/3A/○ | |
| | | | DPDT | LAS1-AF-22Y/3B/○ | |
| | | | DPDT | LAS1-AF-22Y/3C/○ | |
| | | | DPDT | LAS1-AF-22Y/3D/○ | |
| | | | DPDT | LAS1-AF-22Y/3E/○ | |
| | | | DPDT | LAS1-AF-22Y/3G/○ | |
| | | | DPDT | LAS1-AF-22Y/3H/○ | |
| | | | DPDT | LAS1-AF-22Y/3H/○ | |
| rectangular  | $\begin{matrix} L & & R \\ & \diagdown & / \\ & \text{V} & \end{matrix}$ 90° 2 Position | | SPDT | LAS1-AJ-11Y/2A/○ | |
| | | DPDT | LAS1-AJ-22Y/2A/○ | | |
| | | | SPDT | LAS1-AJ-11Y/2B/○ | |
| | | DPDT | LAS1-AJ-22Y/2B/○ | | |
| | | | SPDT | LAS1-AJ-11Y/2C/○ | |
| | | DPDT | LAS1-AJ-22Y/2C/○ | | |
| | $\begin{matrix} L & & C & & R \\ & \diagdown & & / & \\ & & \text{V} & & \end{matrix}$ 45° 3 Position | | DPDT | LAS1-AJ-22Y/3A/○ | |
| | | | DPDT | LAS1-AJ-22Y/3B/○ | |
| | | | DPDT | LAS1-AJ-22Y/3C/○ | |
| | | | DPDT | LAS1-AJ-22Y/3D/○ | |
| | | | DPDT | LAS1-AJ-22Y/3E/○ | |
| | | | DPDT | LAS1-AJ-22Y/3G/○ | |
| | | | DPDT | LAS1-AJ-22Y/3H/○ | |
| | | | DPDT | LAS1-AJ-22Y/3H/○ | |

Shape and Dimensions

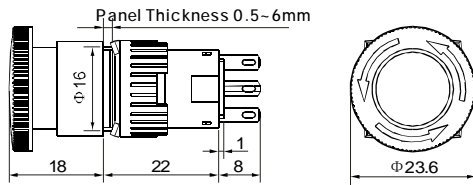


LAS1-A Emergency Pushbutton

Product Cutline

| Shape | Contact | Type Number | Remrks |
|---|---------|------------------|---|
|  | SPDT | LAS1-AY-11TS/Δ/○ |  ◎ Protective Degree: IP40, IP65 |
| | DPDT | LAS1-AY-22TS/Δ/○ | |

Shape and Dimensions

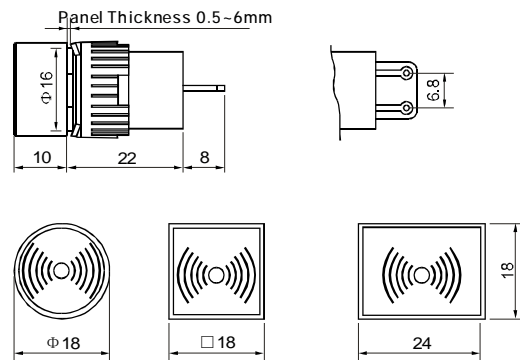


LAS1-A Buzzer Units

Specifications

| | |
|----------------------------------|---|
| Operating Temperature | -25°C ~ 55°C |
| Operating Humidity | 45 - 85%RH |
| Dielectric Strength | 1000V |
| Sound Duration | Continuous, Discontinuous |
| Rated Sound Pressure & Frequency | 75dB(1m)(Rated Voltage) 2300 ± 300Hz |
| Operating Voltage | 6VDC; 12VDC; 24VDC; 110VAC; 220VAC |

Shape and Dimensions



Product Cutline

| Type Number | LAS1-AY-B/▲ | LAS1-AF-B/▲ | LAS1-AJ-B/▲ |
|-------------|---|---|---|
| Shape |  |  |  |

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