

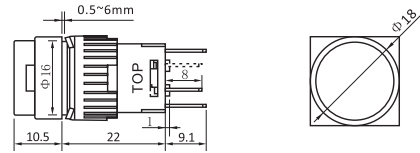
IP65 RoHS CE

Illustration	Lens Colour	Lamp Voltage	Part Number	Outer Dimensions
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**Round Pilot Light**



● Red	24V	90P1-LAS1-AY-D/R/024/P/GT
● Green	24V	90P1-LAS1-AY-D/G/024/P/GT
● Yellow	24V	90P1-LAS1-AY-D/Y/024/P/GT
● Blue	24V	90P1-LAS1-AY-D/B/024/P/GT
○ White	24V	90P1-LAS1-AY-D/W/024/P/GT



**Round Buzzer**



● Black	24V	90P1-LAS1-AY-B/024/GT
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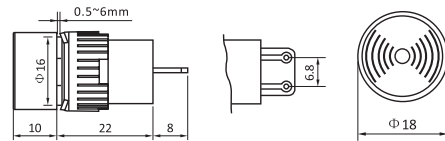


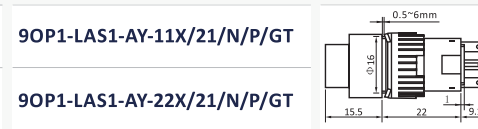
Illustration	Lamp Voltage	Switching Position	Contact Configuration			Part Number	Outer Dimension
			Left	Center	Right		

**Round Selector Switch**

**2 Position: Stay Put 90°**



-	I - II	NO NC	-	NO NC	90P1-LAS1-AY-11X/21/N/P/GT
-	I - II	NO NC NO NC [L] C [R] C	-	NO NC NO NC [L] C [R] C	90P1-LAS1-AY-22X/21/N/P/GT



**3 Position: Stay Put 45°**

-	I - 0 - II	NO NC NO NC [L] C [R] C	NO NC NO NC [L] C [R] C	NO NC NO NC [L] C [R] C	90P1-LAS1-AY-22X/31D/N/P/GT
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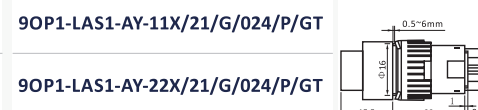


**Round Illuminated Selector Switch**

**2 Position: Stay Put 90°**



● 24V	I - II	NO NC	-	NO NC	90P1-LAS1-AY-11X/21/G/024/P/GT
● 24V	I - II	NO NC NO NC [L] C [R] C	-	NO NC NO NC [L] C [R] C	90P1-LAS1-AY-22X/21/G/024/P/GT



**3 Position: Stay Put 45°**



● 24V	I - 0 - II	NO NC NO NC [L] C [R] C	NO NC NO NC [L] C [R] C	NO NC NO NC [L] C [R] C	90P1-LAS1-AY-22X/31D/G/024/P/GT
● 24V	I - 0 - II	NO NC NO NC [L] C [R] C	NO NC NO NC [L] C [R] C	NO NC NO NC [L] C [R] C	90P1-LAS1-AY-22X/31D/R/024/P/GT

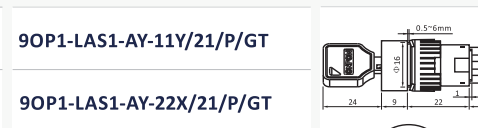


**Round Key Switch**

**2 Position: Stay Put 90°**



-	I - II	NO NC	-	NO NC	90P1-LAS1-AY-11Y/21/P/GT
-	I - II	NO NC NO NC [L] C [R] C	-	NO NC NO NC [L] C [R] C	90P1-LAS1-AY-22X/21/P/GT



**3 Position: Stay Put 45°**

-	I - 0 - II	NO NC NO NC [L] C [R] C	NO NC NO NC [L] C [R] C	NO NC NO NC [L] C [R] C	90P1-LAS1-AY-22Y/31D/P/GT
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## TECHNICAL INFORMATION:

### Product Description:

#### + Specification:

The bezel of the products is available in 3 shapes: **Round** (Ø18mm), **Square** (18 x 18mm), **Rectangle** (18 x 24mm).

Including the Pilot Lights, Pushbuttons, Illuminated Pushbuttons, Selector Switches, Key Switches, Emergency Stops and Buzzers.

The **mounting cut-out is Ø16mm**, some products can be equipped with an adaptor ring to install the product in the **Ø22mm mounting cut-out**.

#### + Data:

The product has the characteristics of stable performance, low contact resistance, strong insulation, resistance to vibration and shock, etc.; meets IEC60947-5-1, GB14048.5 and other standards.

#### + Construction:

Snap-Action switching element. Each switching element contains a normally Open and a normally Close.

Each button can be configured with a maximum of 2 switching elements. Gold plated terminal gives protection against corrosion in harsh environment.

#### + Protection Rating

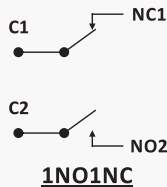
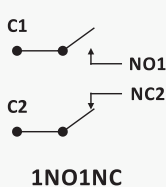
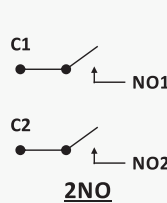
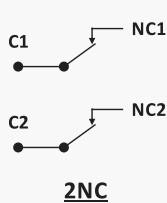
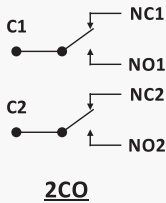
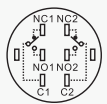
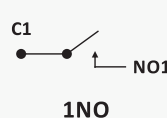
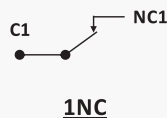
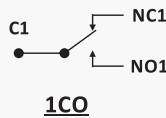
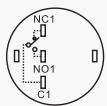
Products have **IP65**. By adding **S09 Sealing Cover**, the protection can be extended to **IP67**.

*\* except Buzzer which is IP40.*

Rated Insulation Voltage	<b>250V</b>				
Thermal Current Ith	5A temperature do not exceed the highest rated allowed current				
Rated Operating Voltage	<b>12V</b>	<b>24V</b>	<b>110V</b>	<b>220V</b>	
Rated Operating Frequency	Resistive Load	-	-	<b>1A</b>	<b>0.5A</b>
	Inductive Load	-	-	<b>0.7A</b>	<b>0.5A</b>
Rated Operating Current	Resistive Load	<b>1A</b>	<b>1A</b>	<b>0.2A</b>	-
	Inductive Load	<b>0.7A</b>	<b>0.7A</b>	<b>0.1A</b>	-
Contact Material	Silver Alloy				

Bulb Type	Dual Direction LED		
Rated Voltage	AC/DC 6V	AC/DC 12V	AC/DC 24V
	AC/DC 110V	AC/DC 220V	
Illumination Colors	<b>R</b>	<b>G</b>	<b>Y</b> <b>O</b> <b>B</b> <b>W</b>
Lifespan	approx. 40,000 hours		

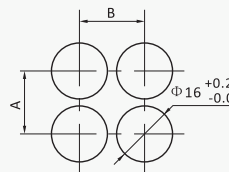
#### + Possible Contact Configuration:



#### + Specification Features:

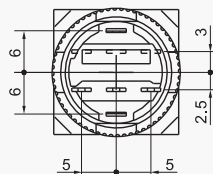
Operation Environment	{-}25°C ~ (+) 55°C [no freezing] Contact Body surroundings must have airflow	
Environment	45-85% RH (no condensation)	
Contact Resistance	≤ 50mΩ	
Insulation Resistance	≥ 100MΩ	
Overvoltage	Between the Contact Terminals & Lamp	2000 V, 50 Hz AC, 1 Minute
	Between the Same Terminal	1500 V, 50 Hz, 1 Minute
	Between the Different Terminal	2000 V, 50 Hz, 1 Minute
Vibration Assistance	50 Hz, Amplitude Approx 1.2mm	
Shock Assistance	Until 10g	
Lifespan	Mechanics	
	Momentary	1,000,000
	Latching, Selector	500,000
	Key, Emergency	200,000
Electrical	50,000 and above	
Wire Connection	Soldering Diameter: 2 x 0.08mm Largest copper wire area: 0.75mm <sup>2</sup> Faston Terminals: 2.8 x 0.5	
Solder Heat Resistance	320°C (or 30 watt soldering iron) not more than 2 sec	
Travel	Pushbutton Approx. 3mm travel	
Operating Force	(On Lens Cap) According to no. of contacts 1 ~ 4 Newton (100gf ~ 400gf)	

#### + Cut-out Dimensions:

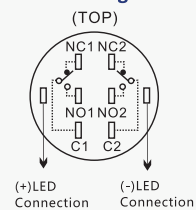


Type	A	B
Circle	≥ 18mm	≥ 18mm
Sqaure	≥ 18mm	≥ 18mm
Rectangle	≥ 18mm	≥ 24mm
Mushroom	≥ 24mm	≥ 24mm

#### + Bottom View:



#### + Terminal configuration:



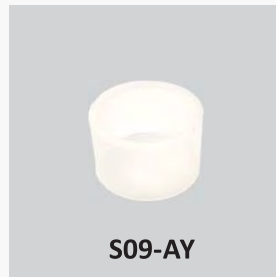
IP65 RoHS CE



**S01**  
Switch Guard  
for Round & Square Pushbutton



**S02**  
Switch Guard  
for Rectangle Pushbutton



**S09-AY**  
Seal Cover  
for Round Pushbutton  
& Pilot Light



**S09-AJ**  
Seal Cover  
for Rectangle Pushbutton  
& Pilot Light



**S10**  
Emergency Stop Label



**S11**  
Lamp Holder Tool



**S13**  
Corner Removal Tool



**S15**  
Diameter Changing Circle  
from Ø16mm to Ø22mm



**S16**  
Pushbutton & Pilot Light Label



**S19**  
Label Frame for Control Units

### ★ UV Printing Service on Nameplates/Labels

- Symbol and Text can be customized according to your requirements.
- The symbol and text are also applicable to Square and Rectangle nameplates/labels.



### ★ Customized Engraving/UV Printing Service

- Plastic Materials: Ply, Acrylic, Traffolyte & etc.
- Metal Materials: Aluminium, Stainless Steel, Copper, Brass & etc.
- Text, Dimension and Cut-out hole can be customized according to your requirements.

