

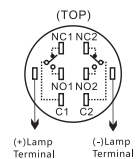
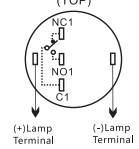
Illustration	Lens Colour	Lamp Voltage	Possible Contact Configuration			Part Number	Contact Diagram
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Round Pushbutton

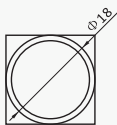
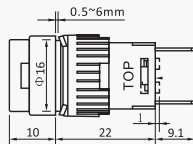
Momentary/Spring Return



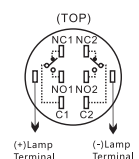
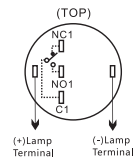
Red		1CO	1NO	1NC		90P1-LAS1-AY-11/R/P/GT
Green		1CO	1NO	1NC		90P1-LAS1-AY-11/G/P/GT
Yellow		1CO	1NO	1NC		90P1-LAS1-AY-11/Y/P/GT
Blue		1CO	1NO	1NC		90P1-LAS1-AY-11/B/P/GT
White		1CO	1NO	1NC		90P1-LAS1-AY-11/W/P/GT
Black		1CO	1NO	1NC		90P1-LAS1-AY-11/N/P/GT
Red		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AY-22/R/P/GT
Green		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AY-22/G/P/GT
Yellow		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AY-22/Y/P/GT
Blue		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AY-22/B/P/GT
White		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AY-22/W/P/GT
Black		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AY-22/N/P/GT



Maintained/Latching



Red		1CO	1NO	1NC		90P1-LAS1-AY-11Z/R/P/GT
Green		1CO	1NO	1NC		90P1-LAS1-AY-11Z/G/P/GT
Yellow		1CO	1NO	1NC		90P1-LAS1-AY-11Z/Y/P/GT
Blue		1CO	1NO	1NC		90P1-LAS1-AY-11Z/B/P/GT
White		1CO	1NO	1NC		90P1-LAS1-AY-11Z/W/P/GT
Black		1CO	1NO	1NC		90P1-LAS1-AY-11Z/N/P/GT
Red		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AY-22Z/R/P/GT
Green		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AY-22Z/G/P/GT
Yellow		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AY-22Z/Y/P/GT
Blue		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AY-22Z/B/P/GT
White		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AY-22Z/W/P/GT
Black		2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AY-22Z/N/P/GT

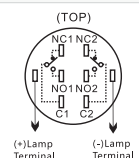
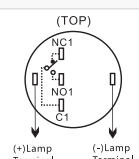


Round Illuminated Pushbutton

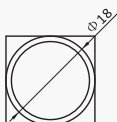
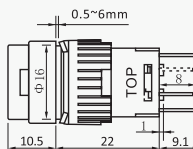
Momentary/Spring Return



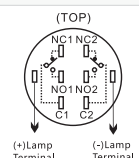
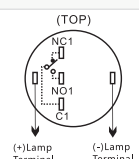
Red	24V	1CO	1NO	1NC		90P1-LAS1-AY-11/R/024/P/GT
Green	24V	1CO	1NO	1NC		90P1-LAS1-AY-11/G/024/P/GT
Yellow	24V	1CO	1NO	1NC		90P1-LAS1-AY-11/Y/024/P/GT
Blue	24V	1CO	1NO	1NC		90P1-LAS1-AY-11/B/024/P/GT
White	24V	1CO	1NO	1NC		90P1-LAS1-AY-11/W/024/P/GT
Red	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AY-22/R/024/P/GT
Green	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AY-22/G/024/P/GT
Yellow	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AY-22/Y/024/P/GT
Blue	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AY-22/B/024/P/GT
White	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AY-22/W/024/P/GT



Maintained/Latching



Red	24V	1CO	1NO	1NC		90P1-LAS1-AY-11Z/R/024/P/GT
Green	24V	1CO	1NO	1NC		90P1-LAS1-AY-11Z/G/024/P/GT
Yellow	24V	1CO	1NO	1NC		90P1-LAS1-AY-11Z/Y/024/P/GT
Blue	24V	1CO	1NO	1NC		90P1-LAS1-AY-11Z/B/024/P/GT
White	24V	1CO	1NO	1NC		90P1-LAS1-AY-11Z/W/024/P/GT
Red	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AY-22Z/R/024/P/GT
Green	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AY-22Z/G/024/P/GT
Yellow	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AY-22Z/Y/024/P/GT
Blue	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AY-22Z/B/024/P/GT
White	24V	2CO	2NO	2NC	1NO 1NC	90P1-LAS1-AY-22Z/W/024/P/GT



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

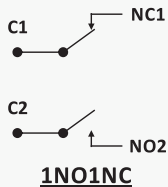
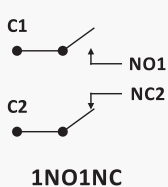
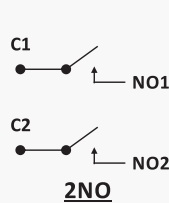
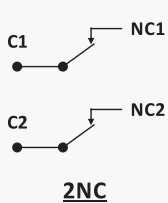
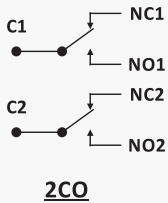
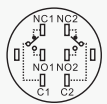
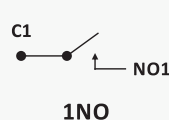
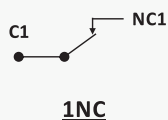
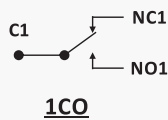
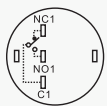
Products have **IP65**. By adding **S09 Sealing Cover**, the protection can be extended to **IP67**.

* except Buzzer which is **IP40**.

Rated Insulation Voltage			250V			
Thermal Current Ith			5A temperature do not exceed the highest rated allowed current			
Rated Operating Voltage			12V	24V	110V	220V
Rated Operating Current	Frequency 50/60 Hz	Resistive Load	-	-	1A	0.5A
		Inductive Load	-	-	0.7A	0.5A
	DC	Resistive Load	1A	1A	0.2A	-
		Inductive Load	0.7A	0.7A	0.1A	-
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	Red Green Yellow Orange Blue White		
Lifespan	approx. 40,000 hours		

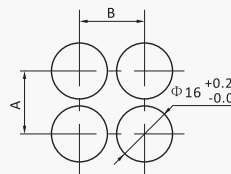
+ Possible Contact Configuration:



+ Specification Features:

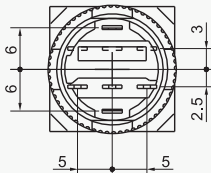
Operation Environment		(-)25°C ~ (+) 55°C [no freezing] Contact Body surroundings must have airflow
Environment		45-85% RH (no condensation)
Contact Resistance		≤ 50mΩ
Insulation Resistance		≥ 100MΩ
Overvoltage	Between the Contact Terminals & Lamp	2000 V, 50 Hz AC, 1 Minute
	Between the Same Terminal	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 ² 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 (On Lens Cap) According to no. of contacts
Operating Force		1 ~4 Newton (100gf ~400gf)

+ Cut-out Dimensions:

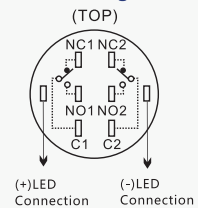


Type	A	B
Circle	≥ 18mm	≥ 18mm
Sqaure	≥ 18mm	≥ 18mm
Rectangle	≥ 18mm	≥ 24mm
Mushroom	≥ 24mm	≥ 24mm

+ Bottom View:



+ Terminal configuration:





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.

