

# PLP16 Series

## Panel Mount LED Sealed Pushbutton Switches



### Agency Approvals

Agency	Agency File Number
US	E511181

### Specifications

<b>Function</b>	SPDT or DPDT
<b>Contact Arrangement</b>	N.O. And N.C.
<b>Mounting Type</b>	Threaded front panel mount

### Mechanical Characteristics

<b>Operating Life</b>	Momentary 1,000,000 cycles Lock 100,000 cycles
<b>Total Travel</b>	1.2 ± 0.3 mm
<b>Operating Force</b>	3.0 max.

### Electrical Characteristics

<b>Contact Rating</b>	1th 5A / 250 VAC 3A / 250 VAC 1A / 30 VDC
<b>Operating Life</b>	Momentary 100,000 cycles Lock 50,000 cycles
<b>Dielectric Strength</b>	2,000 V RMS @ sea level
<b>Insulation Resistance</b>	100 MΩ min. @ 500 VDC
<b>Initial Contact Resistance</b>	50 mΩ max. Initial value

### Environmental Characteristics

<b>Operating Temperature</b>	-25°C to 55°C
<b>Sealing / Protection</b>	IP65 or IP40

#### Notes:

Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, please contact Customer Service.

## Description

PLP16 series is compact switch for panel mounted pushbutton with or without illumination, the product has reduced size of Ø16mm can handle SPDT or DPDT circuit which provide space saving to the applications need. This series offers flexibility on CAP sizes, styles and colors as complete products or separate components with easy installation. The smaller switches are suitable for wide range of control and signalling products on small machines and control panels.

## Features & Benefits

- Illuminated & non-illuminated type
- Momentary or lock version
- IP65 or IP40 sealed
- 1,000,000 life cycle
- Choices of colors on LED illumination
- Various actuator sizes and styles
- Withstand high shock and vibration application

## Applications

- Industrial control panel
- Off-road transportation
- Machine and equipment
- Production control indicator

## Materials

<b>Bushing</b>	PEI
<b>Base / LED Holder</b>	PBT
<b>Actuator</b>	PC
<b>Internal Assembly</b>	POM/PC
<b>Spring</b>	Steel (SUS304)
<b>Sealing / O-ring</b>	Silicone
<b>Terminals</b>	Brass, Gold over Nickel plated
<b>Contact</b>	Phosphorus Bronze, Silver plated

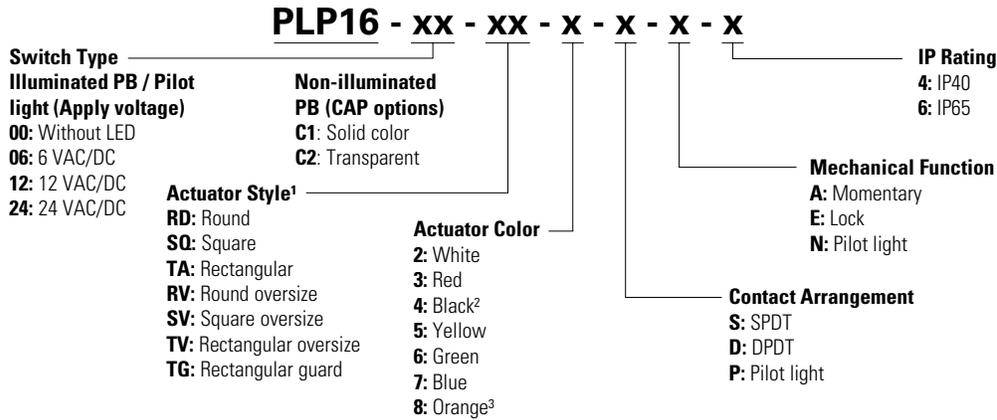
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### Ordering Number

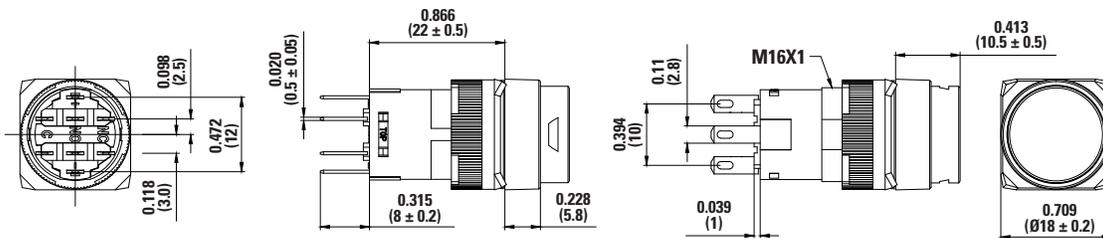
To order, simply select desired option from each category and place in the appropriate box.



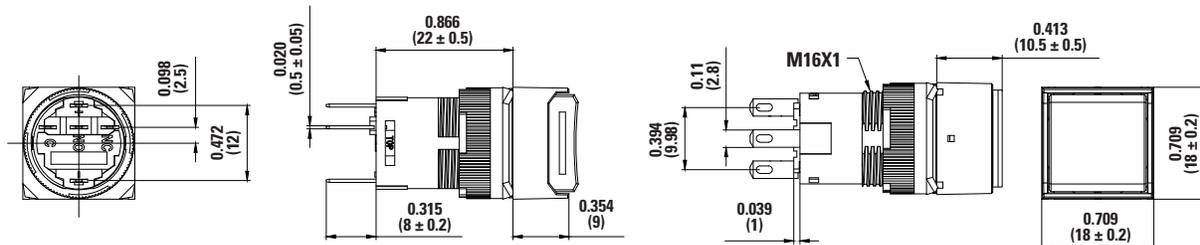
- Notes:**
1. Pilot light & C2 CAP available on RD, SQ, or TA actuator style only
  2. For C1 CAP only
  3. Not available on C1 CAP

### Standard View / Switch Type

#### Illuminated Ø 5/8" (16 mm)



### Pushbutton Ø 5/8" (16 mm)

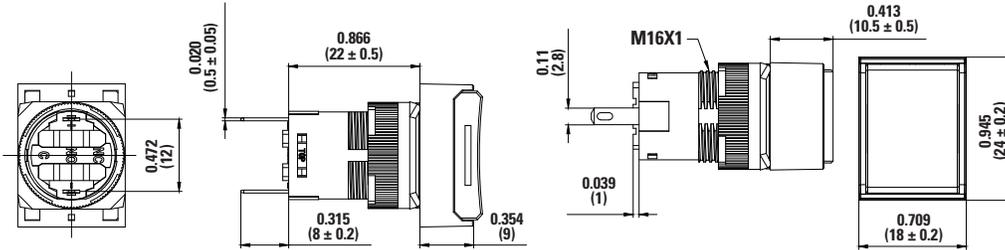


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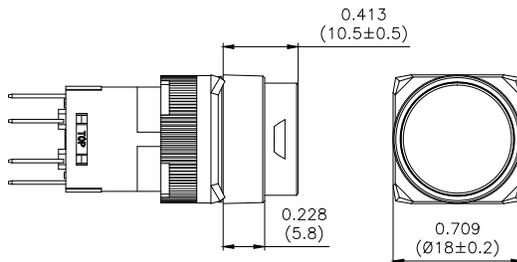


### Pilot Lamp Ø 5/8" (16 mm)

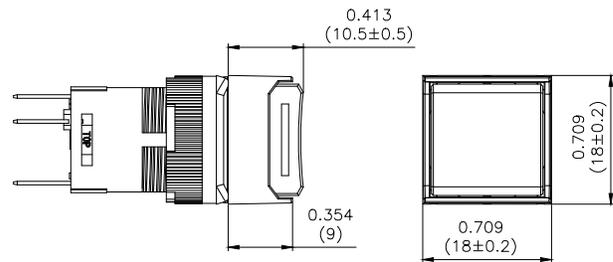


### Actuator Style/ Cap Size

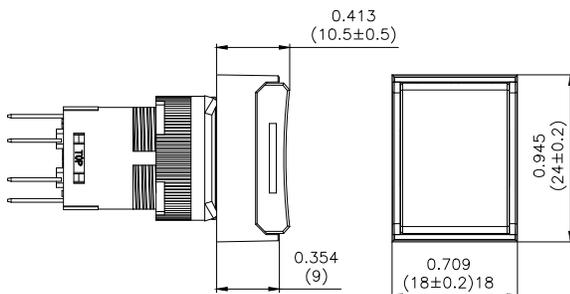
#### RD - Round



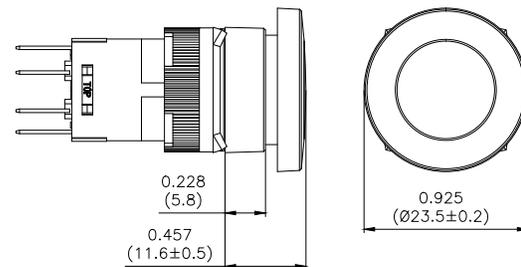
#### SQ - Square



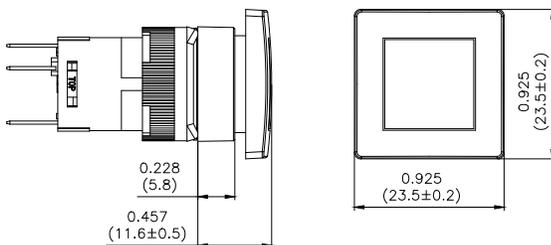
#### TA - Rectangular



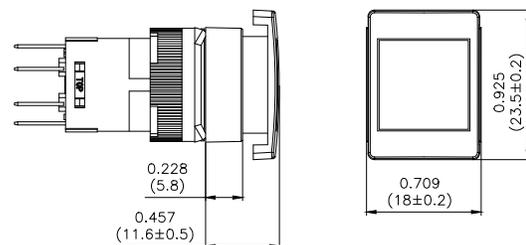
#### RV - Round Oversize



#### SV - Square Oversize



#### TV - Rectangular Oversize

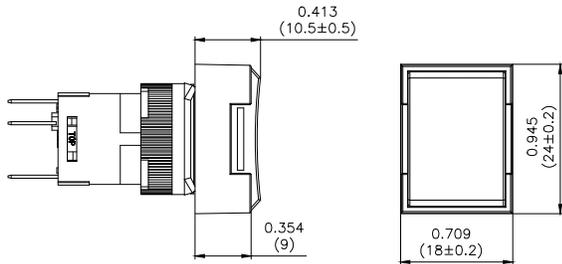


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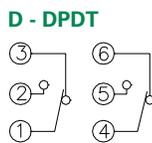
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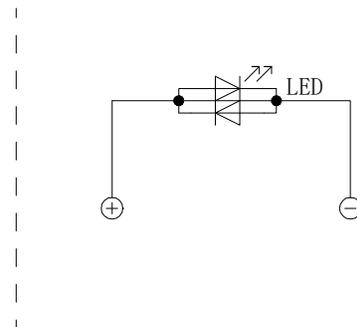
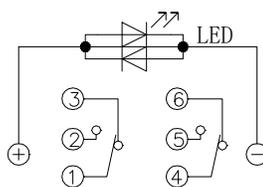
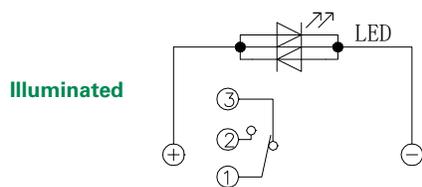
### TG - Rectangular with Guard



### Contact Arrangement

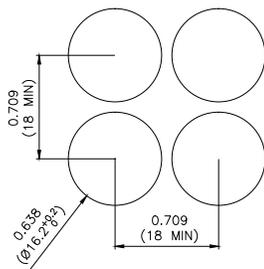


### P - Pilot Light

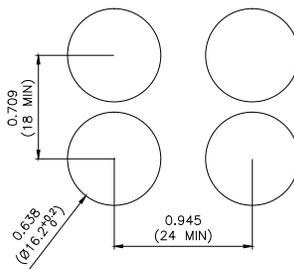


### Mounting Holes Layout

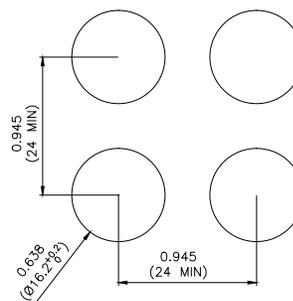
#### Round / Square



#### Rectangular (Plus Full Guard & Oversize)



#### Oversize Round & Square



**Note:**  
Mounting panel thickness reference dia: 0.5 - 0.6 mm

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### LED - Lamp Rating

<b>Voltage Range</b>	6V AC/DC ± 5%	12V AC/DC ± 10%	24V AC/DC ± 10%
<b>Rated Voltage</b>	6V AC/DC	12V AC/DC	24 V AC/DC
<b>Current Draw</b>	<b>DC</b>	8 MA	
	<b>AC</b>	9 MA	
<b>Lamp Base Color / Lamp Body Resin Color</b>	Illumination color / Porcelain white		
<b>Life (reference value)</b>	50,000 hours (brightness of LED lmap will half of the initial value when using DC only)		

### Accessory Ordering Information

#### LED Lamp

Rated Voltage	Ordering Code	X	Color
6V AC/DC	PL06X <sup>1</sup>	2	White
12V AC/DC	PL12X <sup>1</sup>	3	Red
24V AC/DC	PL24X <sup>1</sup>	5	Yellow
		6	Green
		7	Blue
		8	Orange

**Note:**  
1. X = choice of LED color

### Switch Protective Guard for IP65 (180° Spring Return Cover)

#### Round PCS651



#### Square PCS652



#### Rectangular PCS653



### Switch Protective Guard for IP40 & IP65

Rated	Cover Opening	For Actuator Type	Ordering Code	Rated	Cover Opening	For Actuator Type	Ordering Code
IP40	90°	Round / Square	PC401	IP65	90°	Round / Square	PC654
		Rectangular	PC402			Rectangular	PC655
	180°	Round / Square	PC403		180°	Round / Square	PC656
		Rectangular	PC404			Rectangular	PC657

**Note:**  
Refer to spec for panel cutout dimensions and mounting instruction

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