

# MPS19 Series

19mm Short Metal Pushbutton Switches



## SPECIFICATIONS

**RATING** : 2A/36VDC  
**ELECTRICAL LIFE**: 200,000 make-and-break cycles at full load.  
**MECHANICAL LIFE**: 1,000,000. Cycles  
**DIELECTRIC STRENGTH**: 2,000V RMS@sea level  
**CONTACT RESISTANCE**: 50mΩ MAX.@1A 12VDC(initial value)  
**OPERATING TEMPERATURE**: -20°C to 70°C  
**TRAVEL**: ABOUT 1.8mm  
**OPERATION PRESSURE**: 4.5±1.5N  
**INGRESS PROTECTION**: IP67,IK10(Stainless)  
**TORQUE**: 1~3Nm  
Current limiting resistor is required to limit led forward current to 20mA

## MATERIALS

**BUSHING** : Stainless Steel  
**BASE** : PA66,White UL-94V0  
**ACTUATOR** : PC,Translucent UL-94V2  
Stainless Steel  
**INNER ASSEMBLY** : PC,Transparent UL-94V2  
**SPRING** : Spring steel  
**SEALING** : Silicone,Translucent  
**O-Ring** : Silicone  
**TERMINAL** : Brass ,Gold flash plated  
**CONTACT** : Brass,Sliver alloy  
**HEX NUT** : Brass,Nickel plated

## HOW TO ORDER

IP 67  
ACCORDING TO  
EN 60529:1991+A1:2001  
IEC 60529:2001



**MPS19**  
Pushbutton Switches

MODEL NO. BODY MATERIAL BODY TYPE BUTTON TYPE LIGHT TYPE LED COLOR TERMINAL SHAPE TERMINAL PLATING LED VOLTAGE WIRE

**MPS19** — [ ] — [ ] — [ ] — [ ] — [ ] — [ ] — [ ] — [ ] — [ ]

Body Material  
**A0** Stainless (Natural)

Body type  
**1** Double flat  
**2** Non-flat  
**3** D Shape

Button type  
**F** Flat

Light type  
**N** Without LED  
**E** Ring  
**P** Power+Ring

LED Color

| ITEM NO               | COLOR       |
|-----------------------|-------------|
| 0                     | Without LED |
| 1                     | White       |
| 3                     | Red         |
| 5                     | Yellow      |
| 6                     | Green       |
| 7                     | Blue        |
| <b>DUAL COLOR LED</b> |             |
| A                     | Red&Green   |
| B                     | Red&Blue    |

Terminal shape  
**J** Solder terminal

Terminal plating  
**R** Gold flash

Accessories

| Resistance (About LED Voltage) |                                                   |
|--------------------------------|---------------------------------------------------|
| 0V                             | Without Resistance                                |
| 3V                             | LED input 3 VDC,47Ω<br>* Red/Yellow LED type only |
| 6V                             | LED input 6 VDC,180Ω                              |
| 12V                            | LED input 12 VDC,470Ω                             |
| 24V                            | LED input 24 VDC,1000Ω                            |

※ ohms value of resistance tolerance: ±5%

Wire

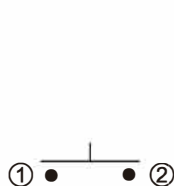
[ ] Without wire  
**L0001** Wire length 500mm

EXAMPLE:  
MPS19-A01FN-0-JR-0V (Without LED)  
MPS19-A01FE-[ ]-JR-[ ]V  
LED color LED voltage  
MPS19-A01FE-3-JR-12V-L0001(Wire)

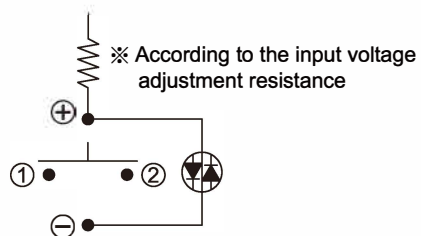
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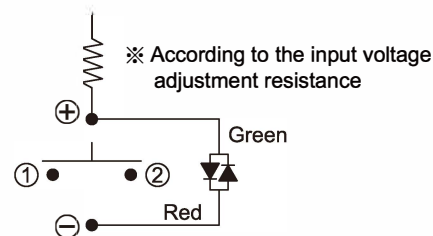
## CIRCUIT



Without Led



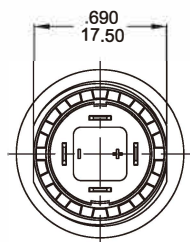
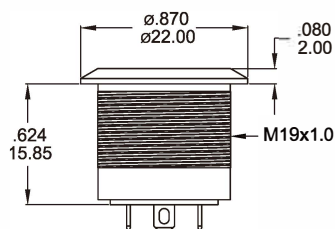
Single Color Led



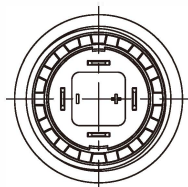
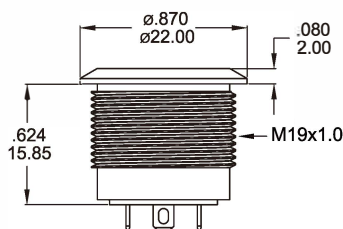
Dual Color Led

## BODY TYPE

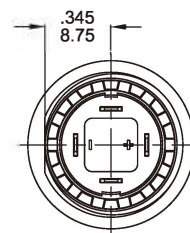
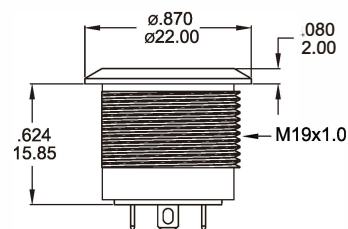
Double flat



Non-flat

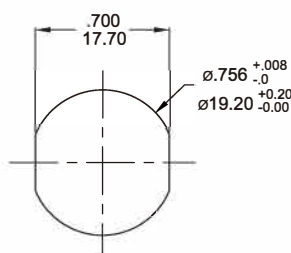


D Shape

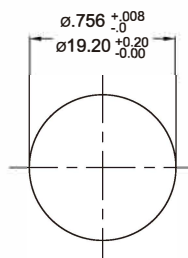


### PANEL CUTOUT

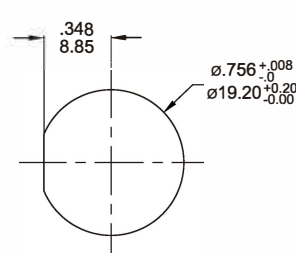
Thickness: 6.0mm(Max.)



Double flat



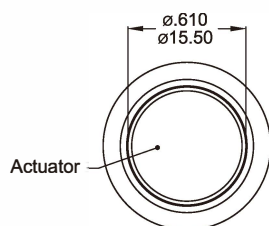
Non-flat



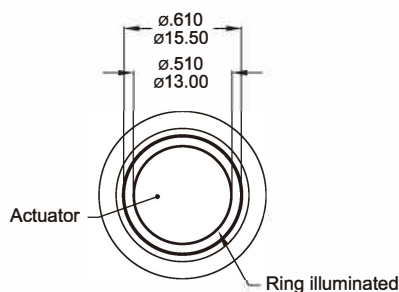
D Shape

## LIGHT TYPE

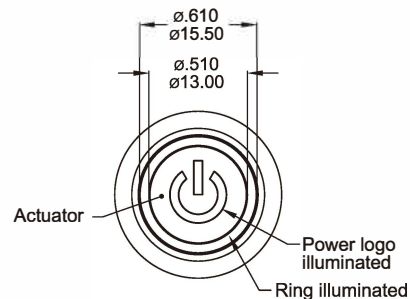
N Without LED



E Ring



P Power+Ring

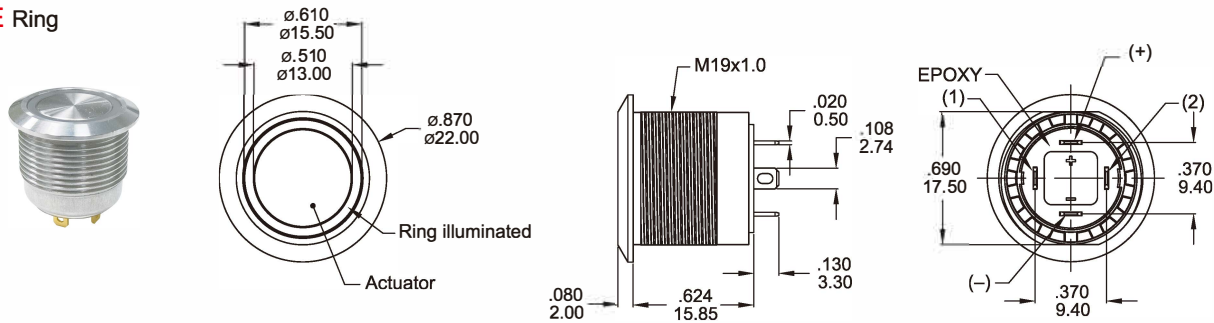


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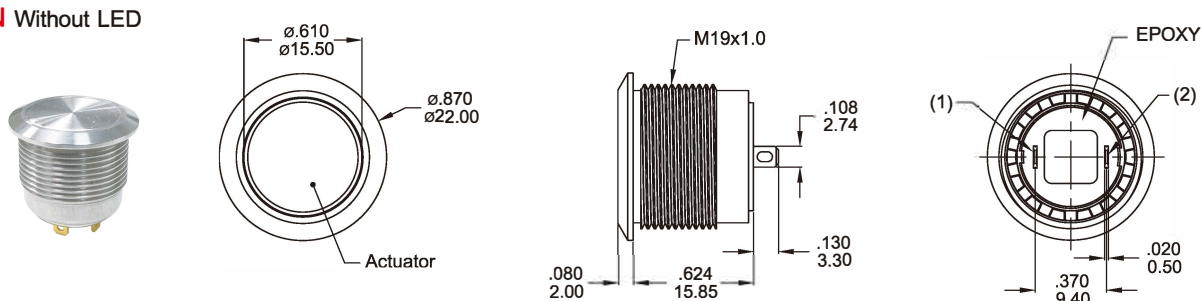
### LIGHT TYPE

**E** Ring



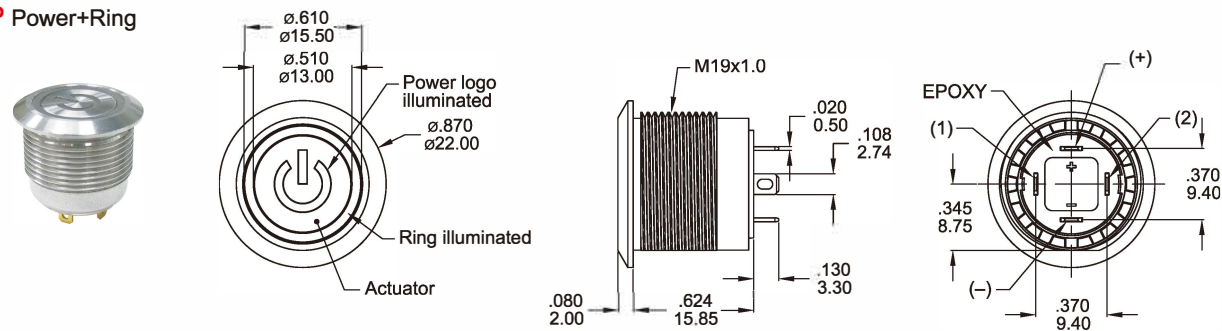
Part No. Shown : MPS19-A01FE-□-JR-□V

**N** Without LED



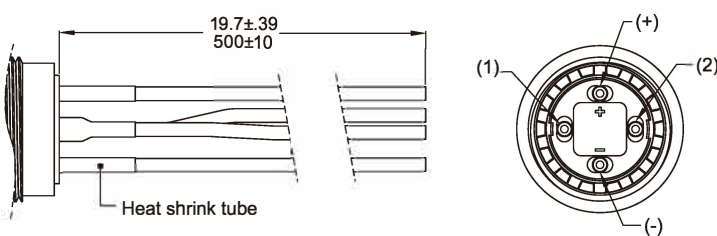
Part No. Shown : MPS19-A02FN-0-JR-0V

**P** Power+Ring



Part No. Shown : MPS19-A03FP-□-JR-□V

**L0001** ※Wire=Multi-wire lead AWG20,section 0.6mm²,UL approved

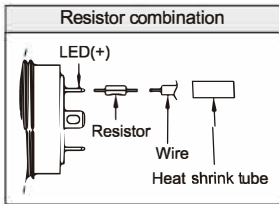


**Non-LED**

| Description | Wire color |
|-------------|------------|
| Terminal 1  | Black      |
| Terminal 2  | Black      |

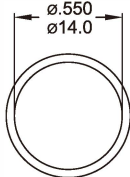
**With LED**

| Description | Wire color |
|-------------|------------|
| Terminal 1  | Black      |
| Terminal 2  | Black      |
| LED+        | Red        |
| LED-        | Green      |

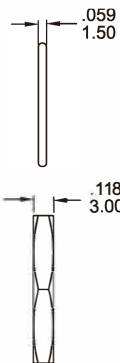
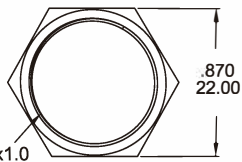


### ADDITIONAL

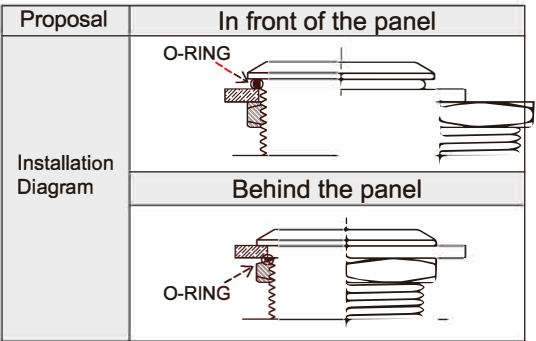
O-RING  
No.:CP-PY02



M19 NUT  
No.:NU-MPB01



### O-RING INSTALLATION



**MPS19**  
Pushbutton Switches