



**SPECIFICATIONS**

**RATING** : 2A/36VDC  
**ELECTRICAL LIFE** : 200,000 make-and-break cycles at full load  
**MECHANICAL LIFE** : 1,000,000 cycles  
**INSULATION RESISTANCE** : 1,000 MΩ min. at 500VDC  
**DIELECTRIC STRENGTH** : 2,000V RMS @ sea level  
**CONTACT RESISTANCE** : 50 mΩ max.  
**OPERATION TEMPERATURE** : -20°C~+70°C  
**TRAVEL**: About 2.0±0.20mm  
**OPERATION PRESSURE** : 4.5N±1.5N  
**INGRESS PROTECTION** : IP67  
**TORQUE** : 11.5 kgf · cm  
**THICKNESS** : 8.0mm (Max.)  
**Current limiting resistor is required to limit LED forward current to 20mA.**

**MATERIALS**

**BUSHING** : Aluminum alloy / Stainless Steel  
**BASE** : PBT (UL 94-V0)  
**ACTUATOR** : PC (Translucent UL 94-V2)  
**CAP** :Aluminum alloy / Stainless Steel  
**SPRING** : Steel.  
**SEALING** : Silicone (Translucent).  
**O-Ring** : Silicone (Translucent).  
**TERMINAL** : Brass ,Gold flash plated.  
**CONTACT** : Silver alloy.  
**HEX NUT** : Brass (Nickel plated).



MPB16  
Pushbutton Switches

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



**HOW TO ORDER**

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

**MPB16** — [ ] — [ ] — [ ] — [ ] — [ ] — [R] — [ ]

Body type: CA AL alloy (Natural Anodized), CB AL alloy (Black Anodized)  
Button type: R Round  
Light type: E Ring, P Power logo  
Terminal shape: J Solder terminal, T1 Wire length 500mm  
Terminal plating: R Gold flash

MODEL NO. BODY TYPE BUTTON AND LIGHT TYPE LED color

**MPB16** — [ ] — [ ] — [ ]

Body type: A1 Stainless (Natural), Double flat, A2 Stainless (Natural), A3 Stainless (Natural), D Shape  
Button and light type: HE Ring, High, FP Power logo, Flat, FE Ring, Flat, HN High, Flat (Without LED)

| ITEM NO        | COLOR          |
|----------------|----------------|
| 0              | Without LED    |
| 1              | White          |
| 3              | Red            |
| 4              | Orange         |
| 5              | Yellow         |
| 6              | Green          |
| 7              | Blue           |
| DUAL COLOR LED |                |
| A              | Red&Green      |
| RGB COLOR LED  |                |
| RGB            | Red/Green/Blue |

Accessories

| Resistance (About LED Voltage) |                                                           |
|--------------------------------|-----------------------------------------------------------|
| 0V                             | Without Resistance                                        |
| 3V                             | LED input 3 VDC, 47Ω<br>* Red/Yellow/Orange 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%

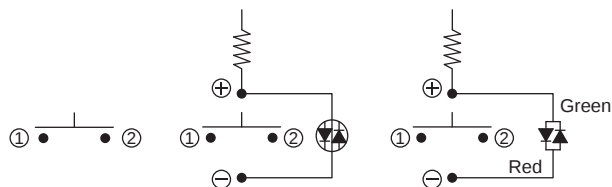
EXAMPLE:  
MPB16-CARE-0-JR-0 (Without LED)  
MPB16-CARE- [ ] -JR- [ ] V  
LED color LED voltage

# MPB16 Series

16mm Metal Pushbutton Switches

## CIRCUIT

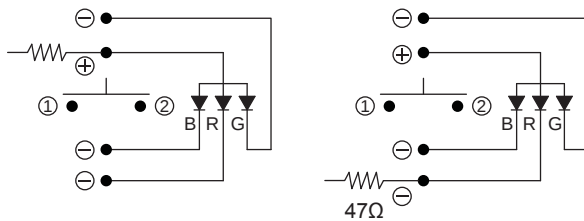
※ According to the input voltage adjustment resistance



Without Led

Single Color Led

Dual Color Led



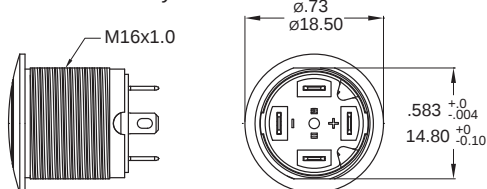
For 6V/12V/24V

For 3V

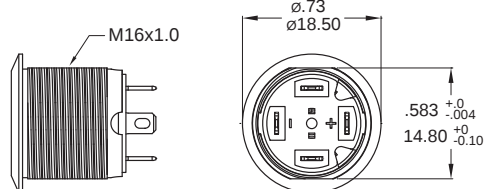
RGB Color Led

## BODY TYPE

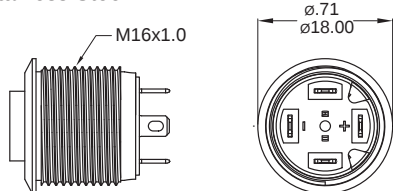
CA/CB Aluminum alloy



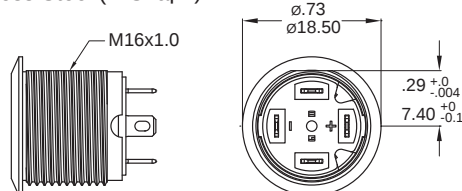
A1 Stainless Steel



A2 Stainless Steel

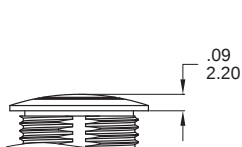


A3 Stainless Steel (D Shape)

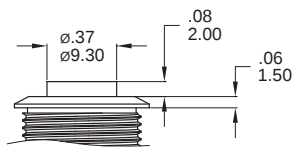


## BUTTON TYPE

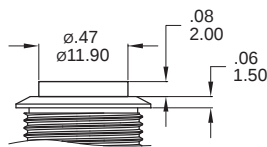
R Round



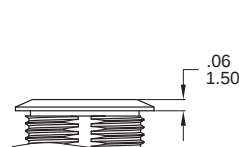
H High,Flat  
Ring illuminated



H High,Flat  
Without LED

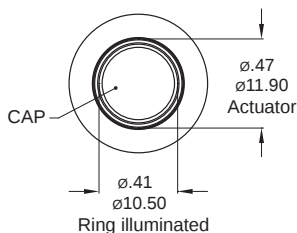


F Flat

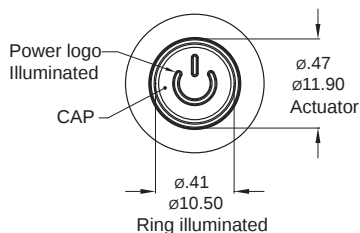


## LIGHT TYPE

E Ring,Round



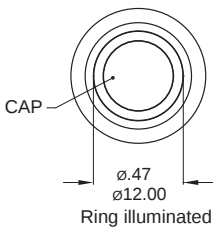
P Power logo,Round



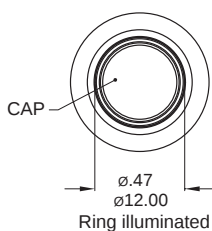
\* E,P light type only for CA,CB body.

\* HE,FE,FP light type only for A1,A2,A3 body.

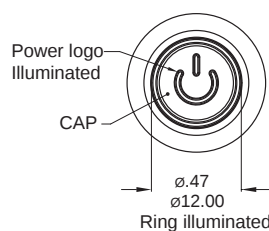
HE Ring,High



FE Ring,Flat

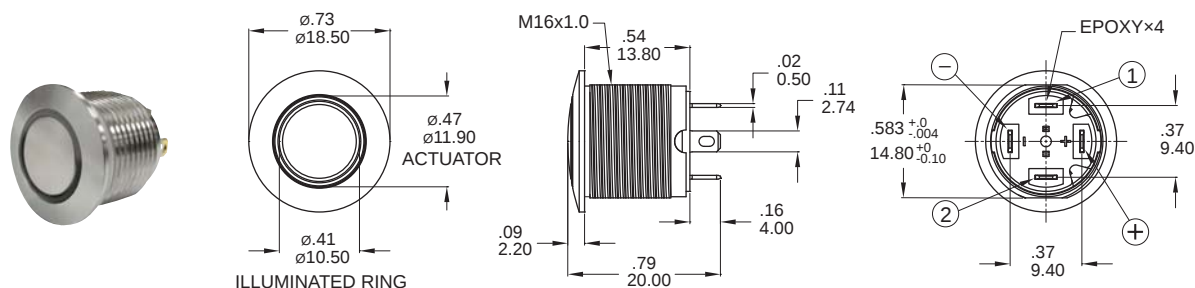


FP Power logo,Flat



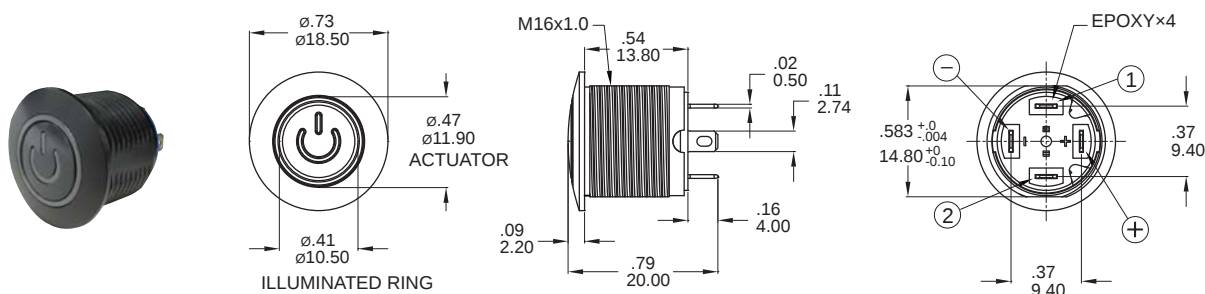
## DIMENSION

### E Ring



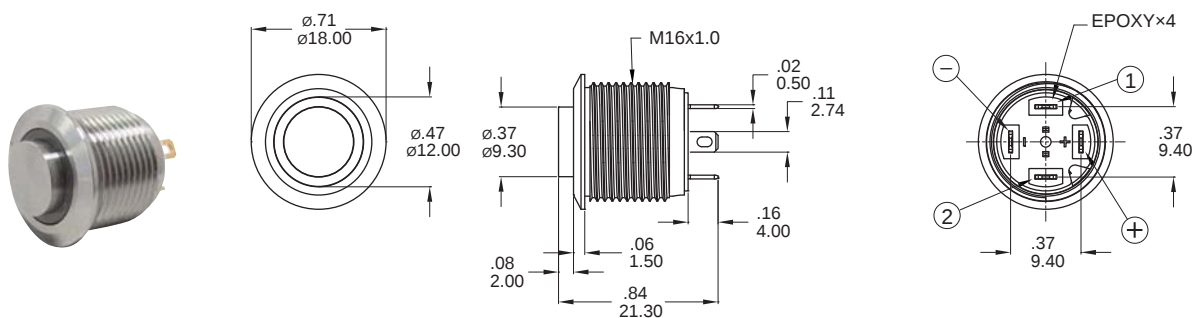
Part No. Shown : MPB16-CARE-□-JR-0V

### P Power logo



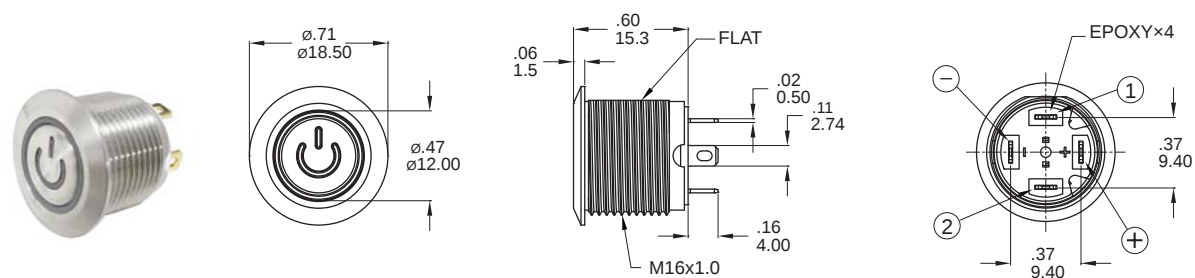
Part No. Shown : MPB16-CBRP-□-JR-0V

### HE Ring



Part No. Shown : MPB16-A2HE-□-JR-0V

### FP Power logo



Part No. Shown : MPB16-A3FP-□-JR-0V



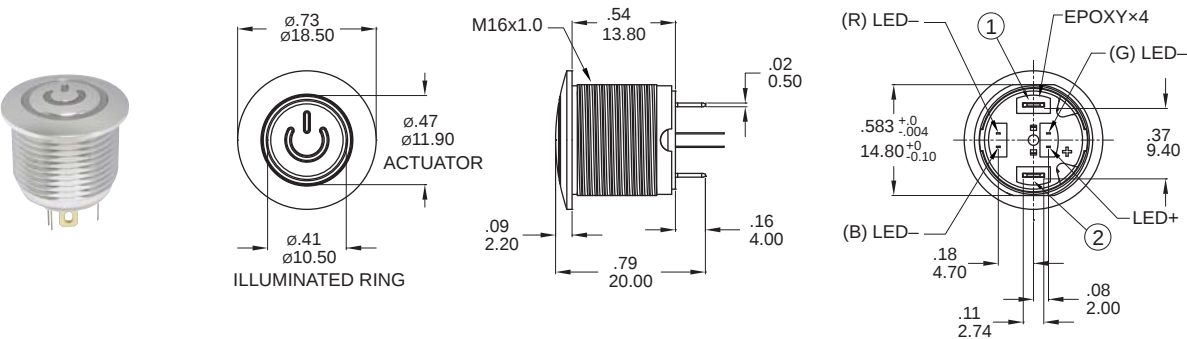
MPB16  
Pushbutton Switches

# MPB16 Series

16mm Metal Pushbutton Switches

## DIMENSION

P Power logo

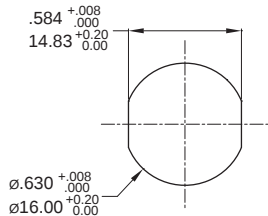


Part No. Shown : MPB16-CARP-RGB-JR-0V

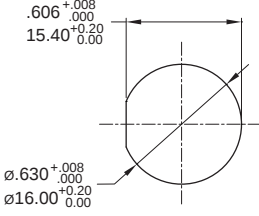
## PANEL CUTOUT / HARDWARE

### PANEL CUTOUT

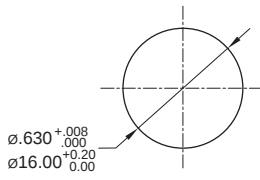
CA/CB/A1 Type



A3 Type

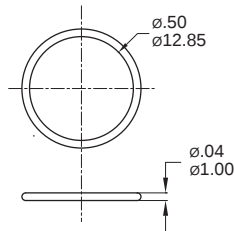


A2 Type

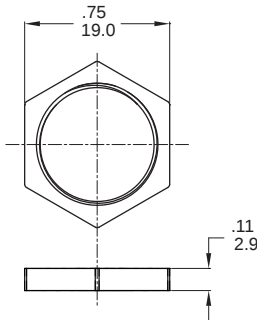


### HARDWARE

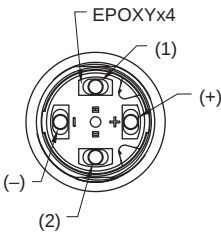
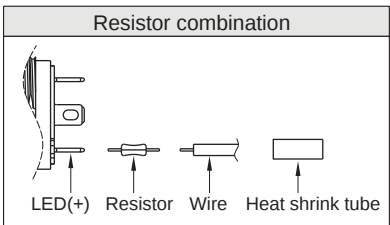
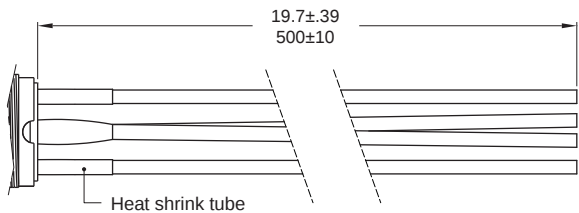
O-RING



M16 NUT



T1 ※Wire=Multi-wire lead AWG20,section 0.6mm<sup>2</sup>,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      |