

SEALED AGAINST DUST &amp; MOISTURE

The P5 Alternate Action switches match the P1, P3 and P8 Momentary Action Pushbutton models for mixed function with common panel appearance. Now you can design panels with both alternate and momentary action switches and have uniform panel appearance. The P5 features alternate action in the same pushbutton and housing configuration as the momentary P1 and P3 and as a bonus, the P5 requires less behind the panel space than the P1 and P3 momentary versions.

Push and the P5 switch turns "on." Push again and the P5 switch turns "off." Positive tactile feedback is featured so the operator is clearly aware the switch mode has been executed. The button returns to the original position after each actuation.

To guard against front panel splash and dirt, the P5 series is sealed at the button with OTTO's patented "rolling sleeve" principle. The terminals are sealed with epoxy, providing a seal against flux during wiring and behind panel dirt and moisture. The combination of sealing provides smooth operation over a wide temperature range. Watertight sealing to IP68S is available.

A vandal resistant style is available in the P5-V series. Custom housings, shrouded buttons, contact configurations and materials are available to suit your application requirements. We also provide custom button engraving with epoxy ink backfill, watertight versions and other special characteristics.

## Features:

- Button sealed with patented "rolling sleeve" principle
- Contact area sealed at case & terminals
- Moistureproof & dusttight to IP64 & MIL-PRF-8805 Design 2 or watertight to IP68S
- Less than 25mΩ contact resistance
- Handles low level up to 10 amps
- Variety of mounting styles
- Engraved buttons available
- Choice of 9 button & 3 bezel colors
- Panel appearance matches most other OTTO momentary pushbutton switches
- Unsealed construction also available
- RoHS/WEEE/Reach compliant

"Push On, Push Off" action



### Standard Characteristics/Ratings:

#### ELECTRICAL RATINGS:

| Load      | Sea Level @ 28VDC<br>or 115VAC, 60/400Hz |
|-----------|------------------------------------------|
| Resistive | 10A                                      |
| Inductive | 5A                                       |
| Lamp      | 1A                                       |
| Motor     | 3A                                       |
| DWV       | 1050Vrms                                 |
| Low Level | 10mA @ 30mV                              |

**Electrical Life:** 25,000 cycles

**Mechanical Life:** 1,000,000 cycles

**Seal:** IP64 & MIL-PRF-8805 Design 2 or IP68S

**Operating Temp Range:** -55°C to +85°C

**Operating Force:** 3.0 lbs. +1/-0.5 lb.

**Total Travel:** 0.180 inches max

**Overtravel:** 0.012 inches min

#### MATERIALS:

**Case:** Anodized aluminum alloy

**Button:** Thermoplastic

**Terminals:** Brass, silver plate or gold plate for low level

**Terminal Hardware:** Terminal lugs, lockwasher and screw for screw terminal option

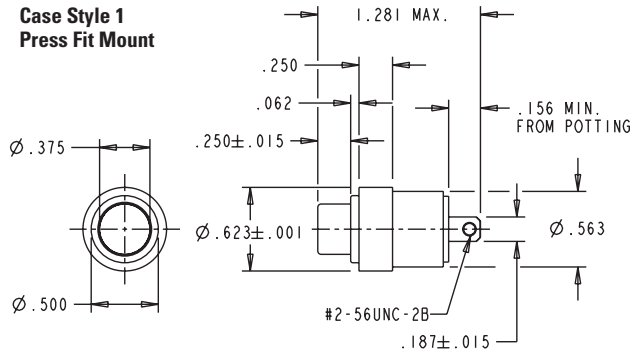
**Mounting Hardware:** Hex nut, lockwasher and panel seal on watertight switches

# ALTERNATE ACTION PUSHBUTTONS

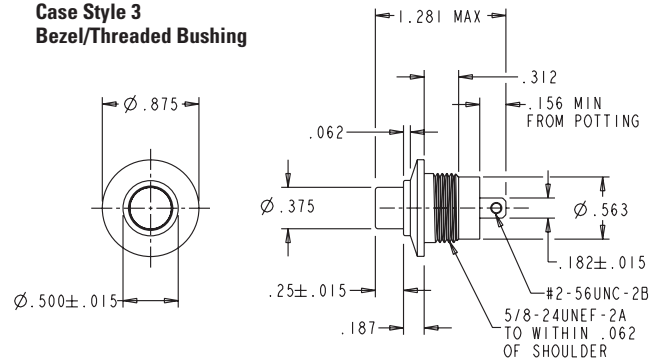
**P5**  
ALTERNATE  
ACTION

SEALED AGAINST DUST & MOISTURE

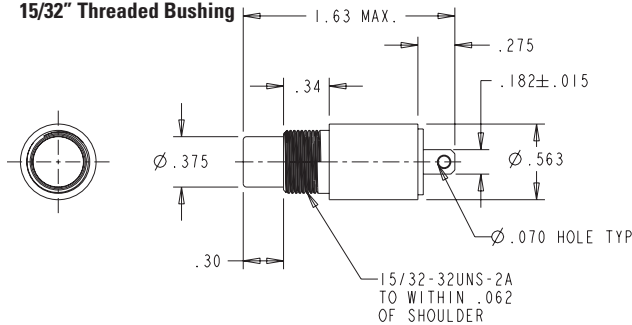
## P5-1 Series Case Style 1 Press Fit Mount



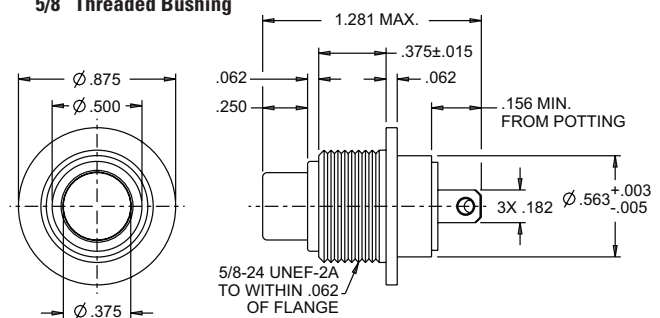
## P5-3 Series Case Style 3 Bezel/Threaded Bushing



## P5-4 Series Case Style 4 15/32" Threaded Bushing



## P5-6 Series Case Style 6 5/8" Threaded Bushing



## P5 PART NUMBER CODE

| Case Style | Terminal Style          | Circuit Form/Contact Material/Grade | Seal Level    | Bezel Color | Button Color |
|------------|-------------------------|-------------------------------------|---------------|-------------|--------------|
| 1. Style 1 | 1. Solder               | 1. SPST/Silver/Commercial           | 1. Unsealed   | 1. Silver   | 1. Red       |
| 3. Style 3 | 2. Screw ①              | 2. SPST/Gold/Commercial             | 2. Dusttight  | 2. Black    | 2. Black     |
| 4. Style 4 | 3. 0.250" Quick Connect | 3. SPDT/Silver/Commercial           | 3. Watertight | 3. Red      | 3. Orange    |
| 6. Style 6 |                         | 4. SPDT/Gold/Commercial             |               |             | 4. Yellow    |
|            |                         | 5. SPST/Silver/Military Grade       |               |             | 5. Green     |
|            |                         | 6. SPST/Gold/Military Grade         |               |             | 6. Blue      |
|            |                         | 7. SPDT/Silver/Military Grade       |               |             | 7. Purple    |
|            |                         | 8. SPDT/Gold/Military Grade         |               |             | 8. Gray      |
|            |                         |                                     |               |             | 9. White     |

① Screw terminals available on SPST circuit forms only.

# Mouser Electronics

Authorized Distributor

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