

## ALTERNATE ACTION, SEALED AGAINST DUST &amp; MOISTURE

The P5-V switch gives you all the functionality of the P5 Alternate Action switch with the added benefit of an aluminum security level case and button or a stainless steel vandal resistant case and button.

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

To guard against front panel splash and dirt the P5-V is sealed at the button with OTTO's patented "rolling sleeve" design. 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 and IP69K is also available.

We are able to provide custom button engraving with epoxy ink backfill and other special characters, shrouded buttons, contact configurations and materials to suit your application requirements.

## Features:

- **Security (aluminum) or vandal resistant (stainless steel) case & button**
- **Button sealed with patented "rolling sleeve" design**
- **Contact area sealed at case & terminals**
- **Watertight to IP68S and IP69K or dusttight & moistureproof to IP64**
- **Less than 25mΩ contact resistance**
- **Handles low level up to 10 amps**
- **1 million mechanical cycle life**
- **RoHS, Reach & WEEE Compliant**



### Standard Characteristics/Ratings:

#### ELECTRICAL RATINGS:

| Load                         | Sea Level @<br>28VDC or 115VAC, 60/400Hz |
|------------------------------|------------------------------------------|
| Resistive                    | 5A                                       |
| Inductive                    | 3A                                       |
| Lamp                         | 1A                                       |
| Motor                        | 3A                                       |
| DWV                          | 1050Vrms                                 |
| Low Level                    | 10mA @ 30mV                              |
| <b>Electrical Life:</b>      | 25,000 cycles                            |
| <b>Mechanical Life:</b>      | 1,000,000 cycles                         |
| <b>Seal:</b>                 | IP64 or IP68S and IP69K                  |
| <b>Operating Temp Range:</b> | -55°C to +85°C                           |
| <b>Operating Force:</b>      | 3.0 lbs. +1/-0.5 lb.                     |
| <b>Total Travel:</b>         | 0.180 inches max                         |
| <b>Overtravel:</b>           | 0.012 inches min                         |

#### MATERIALS:

|                           |                                                    |
|---------------------------|----------------------------------------------------|
| <b>Case:</b>              | Anodized aluminum alloy or stainless steel         |
| <b>Button:</b>            | Anodized aluminum alloy or stainless steel         |
| <b>Terminals:</b>         | Brass with gold over silver                        |
| <b>Terminal Hardware:</b> | Screw, lockwasher and terminal lug when applicable |
| <b>Mounting Hardware:</b> | Hex nut, lockwasher and panel seal when applicable |

# VANDAL RESISTANT PUSHBUTTONS

P5-V

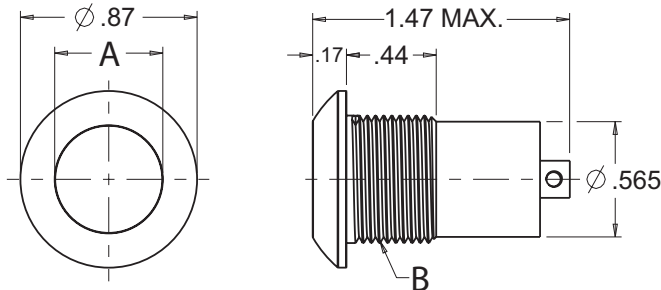
VANDAL RESISTANT  
PUSHBUTTONS

SEALED AGAINST DUST & MOISTURE

PUSHBUTTONS

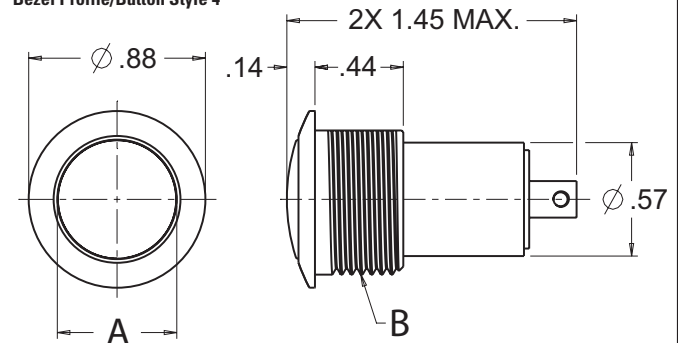
## High Profile, Flat Button

Bezel Profile/Button Style 1



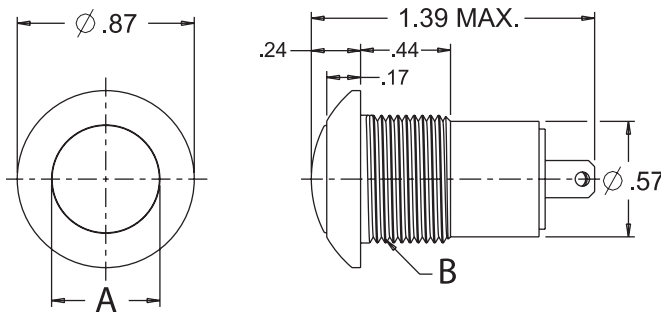
## Low Profile, Curved Button

Bezel Profile/Button Style 4



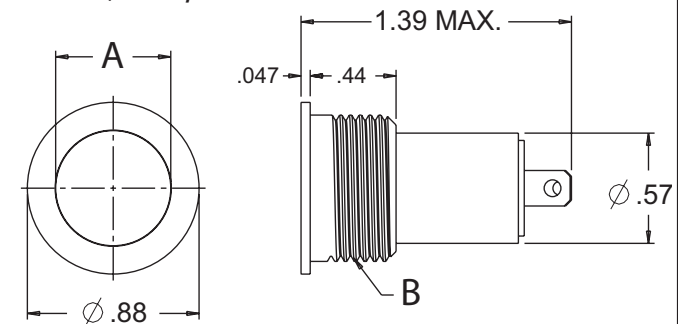
## High Profile, Curved Button

Bezel Profile/Button Style 2



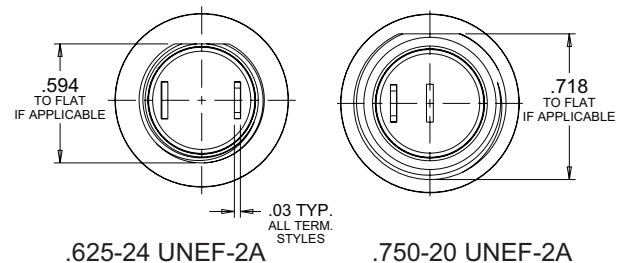
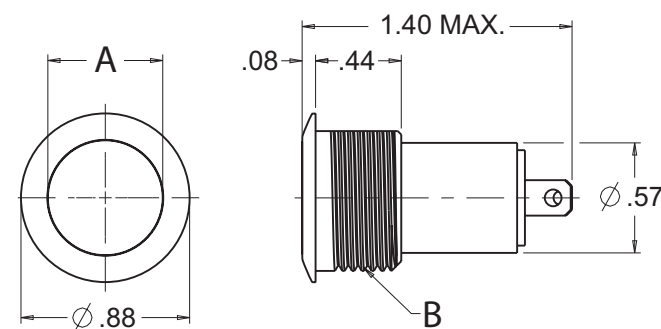
## Flush Mount, Flat Button

Bezel Profile/Button Style 5



## Low Profile, Flat Button

Bezel Profile/Button Style 3



| Case Style      |                  |                  |
|-----------------|------------------|------------------|
| Dimension       | 1 - 4            | 5 - 8            |
| A (Button Dia.) | Ø .525           | Ø .590           |
| B (Thread)      | 0.625-24 UNEF-2A | 0.750-20 UNEF-2A |
| D-Flat          | .594             | .718             |

## P5-V PART NUMBER CODE

| Type         | Thread*                      | Terminal Style/<br>Bezel Color | Circuit Form/<br>Contact Material | Seal          | Bezel Profile/<br>Button      |
|--------------|------------------------------|--------------------------------|-----------------------------------|---------------|-------------------------------|
| V. Stainless | 1. 5/8-24 & Hex Nut          | 1. Solder Terminal/Silver      | 1. SPST/Silver                    | 1. Dusttight  | 1. High Profile/Flat Button   |
| A. Aluminum  | 3. 5/8-24 W/D-Flat & Hex Nut | 2. Screw Terminal/Silver ②     | 2. SPST/Gold                      | 2. Watertight | 2. High Profile/Curved Button |
|              | 5. 3/4-20 & Hex Nut          | 3. Solder Terminal/Black ①     | 3. SPDT/Silver                    |               | 3. Low Profile/Flat Button    |
|              | 7. 3/4-20 W/D-Flat & Hex Nut | 4. Screw Terminal/Black ① ②    | 4. SPDT/Gold                      |               | 4. Low Profile/Curved Button  |
|              |                              |                                |                                   |               | 5. Flush Profile              |

\* For Knurl Nut Thread options, contact factory.  
① Only Available on P5-A Styles.  
② Screw terminals available on SPST circuits only.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## OTTO:

|                           |                           |                           |                           |                           |                           |                           |                           |                           |                     |
|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------|
| <a href="#">P5-V12122</a> | <a href="#">P5-V12323</a> | <a href="#">P5-V52122</a> | <a href="#">P5-V52133</a> | <a href="#">P5-V52123</a> | <a href="#">P5-V11323</a> | <a href="#">P5-V51123</a> | <a href="#">P5-V11324</a> | <a href="#">P5-V51225</a> | <a href="#">P5-</a> |
| <a href="#">V52124</a>    | <a href="#">P5-V71213</a> | <a href="#">P5-V51222</a> | <a href="#">P5-V71121</a> | <a href="#">P5-V51122</a> | <a href="#">P5-V31225</a> | <a href="#">P5-V31113</a> | <a href="#">P5-V11123</a> | <a href="#">P5-V51124</a> | <a href="#">P5-</a> |
| <a href="#">V12123</a>    | <a href="#">P5-V32122</a> | <a href="#">P5-V41322</a> | <a href="#">P5-V71211</a> | <a href="#">P5-V42124</a> | <a href="#">P5-V22121</a> | <a href="#">P5-V22122</a> | <a href="#">P5-V31321</a> | <a href="#">P5-V11313</a> | <a href="#">P5-</a> |
| <a href="#">V11224</a>    | <a href="#">P5-V12113</a> | <a href="#">P5-V32125</a> | <a href="#">P5-V11124</a> | <a href="#">P5-V12313</a> | <a href="#">P5-V31122</a> | <a href="#">P5-V32121</a> | <a href="#">P5-V41221</a> | <a href="#">P5-V31223</a> | <a href="#">P5-</a> |
| <a href="#">V31315</a>    | <a href="#">P5-V22124</a> | <a href="#">P5-V32112</a> | <a href="#">P5-V51125</a> | <a href="#">P5-V71115</a> | <a href="#">P5-V72121</a> | <a href="#">P5-V31124</a> | <a href="#">P5-V11122</a> | <a href="#">P5-V31422</a> | <a href="#">P5-</a> |
| <a href="#">V41121</a>    | <a href="#">P5-V41321</a> | <a href="#">P5-V72225</a> | <a href="#">P5-V52114</a> | <a href="#">P5-V11425</a> | <a href="#">P5-V31322</a> |                           |                           |                           |                     |