

MOMENTARY ACTION, SHORTER BEHIND PANEL, SUBMINIATURE DOUBLE BREAK, SNAP-ACTION

The P8 Vandal Resistant series is a durable, robust switch, offering the same quality and precision tactile feedback found in the standard P8 series. With a variety of case, mounting and terminal styles and a mechanical life of 1,000,000 cycles, this stainless steel sealed switch is ideal for door access security systems, public transit systems, emergency phones, traffic signals, industrial and process control environments and anywhere that ruggedness, durability and security are crucial.

OTTO P8 series pushbutton switches feature a shortened back of panel depth while offering all the features of the regular size P1 and P3 series switches. P8 series switches offer vastly improved electrical and mechanical life under extreme conditions found in most military and industrial environments.

On sealed models, a silicone boot operating on our patented "rolling sleeve" principle protects the contact area against contamination at the button area. This boot provides long life and smooth operation over a wide temperature range. Sealed terminals protect the contact area from hostile environments and solder flux on both sealed and unsealed models.

High contact pressure (120g/4.2 oz), low contact resistance (25mΩ) and short contact bounce (5ms max) are all a result of our patented snap-action mechanism. These characteristics provide exceptional current carrying capabilities over the life of the switch. Optional low level (gold plate) configuration makes the P8-V switches well suited to interface directly to computers and other solid state devices.

## Features:

- **Stainless steel vandal resistant case**
- **Aluminum security level case**
- **Watertight to IP68S or moistureproof & dusttight to IP64**
- **Positive tactile feedback**
- **Less than 25mΩ contact resistance**
- **Variety of case and button styles available**
- **Mechanical life 1 million cycles**
- **UL recognized**
- **UL1500 ignition protected**



Flush Mount,  
5/8" Thread Shown



### Standard Characteristics/Ratings:

#### ELECTRICAL RATINGS:

Load	Sea Level @ 28VDC or 115VAC, 60/400Hz
Resistive	10A
Inductive	5A
Lamp	3A
Low Level	10mA @ 30mV

<b>Electrical Life:</b>	100,000 cycles
<b>Mechanical Life:</b>	1,000,000 cycles
<b>Seal:</b>	IP64 or IP68S
<b>Operating Temp Range:</b>	-55°C to +85°C
<b>Operating Force:</b>	2.5 lbs. +0.5 /-1.0 lb. to 4.0 lbs. +/- 1.0 lb.
<b>Total Travel:</b>	0.085 +/- 0.015 inches
<b>Overtravel:</b>	0.012 inches min
<b>Movement Differential:</b>	0.015 inches min

#### MATERIALS:

<b>Case:</b>	Anodized aluminum alloy or stainless steel
<b>Button:</b>	Anodized aluminum alloy or stainless steel
<b>Terminals:</b>	Standard silver plate with optional gold plate for low level applications
<b>Terminal Hardware:</b>	Terminal lugs, screws and lockwasher when applicable
<b>Mounting Hardware:</b>	Hex nut, lockwasher and panel seal gasket

# VANDAL RESISTANT PUSHBUTTON SWITCHES

**P8-V**  
COMPACT  
PUSHBUTTONS

MOMENTARY ACTION, SHORTER BEHIND PANEL, SUBMINIATURE DOUBLE BREAK, SNAP-ACTION

PUSHBUTTONS

### High Profile, with Flat Button

Style 1

### Low Profile, with Curved Button

Style 4

### High Profile, with Curved Button

Style 2

### Flush Mount

Style 5

### Low Profile, with Flat Button

Style 3

	Case Style	
Dimension	1 - 4	5 - 8
A (Button Dia.)	0.525	0.590
B (Thread)	0.625-24	0.750-20
D-Flat	0.594	0.718

## P8-V PART NUMBER CODE

	P8	-	X	X	X	X	X	X	X
Type	Case Style & Mounting			Terminal Style/ Case Color	Circuit Form	Current Rating/Seal	Operating Force	Button Profile	
<b>V.</b> Vandal Resistant (SS Case & Button)	1. 5/8-24 & Hex Nut			1. Solder Terminal/Silver	1. N.O.	2. Std./Splashproof	1. 2.5 lbs.	1. High Profile/Flat Button	
<b>A.</b> Security Level (AL Case & Button)	2. 5/8-24 & Knurl Nut			2. Screw Terminal/Silver	2. N.C.	3. Std./Watertight	2. 4.0 lbs.	2. High Profile/Curved Button	
	3. 5/8-24 W/D-Flat & Hex Nut			3. Faston Terminal/Silver ②③	6. 2 Circuit	4. Low Level/Splashproof		3. Low Profile/Flat Button	
	4. 5/8-24 W/D-Flat & Knurl Nut			4. Solder Terminal/Black ①		5. Low Level/Watertight		4. Low Profile/Curved Button	
	5. 3/4-20 & Hex Nut			5. Screw Terminal/Black ①				5. Flush Profile	
	6. 3/4-20 & Knurl Nut			6. Faston Terminal/Black ①②③					
	7. 3/4-20 W/D-Flat & Hex Nut								
	8. 3/4-20 W/D-Flat & Knurl Nut								

① Only available on P8-A Styles  
 ② Overall length +0.12" for faston terminals  
 ③ Faston receptacles: 0.187" on N.O.; 0.110" on N.C. terminals