# MINI-SIZED PER MIL-PRF-8805/110

#### MOMENTARY ACTION, SEALED SUBMINIATURE PUSHBUTTON SNAP-ACTION SWITCHES

The P7 series incorporates OTTO's patented double break design in a significantly smaller package than the P1 series. These subminiature switches embrace today's technology requirements by allowing for a large number of switches to fit within a faceplate or a small panel space.

The long life snap-action design offers low contact resistance ( $25m\Omega$  max initial) and is protected from the environment by a silicone rubber boot, operating on a "rolling sleeve" principle that gives long sealed life and smooth operation.

The P7 series is designed to meet the requirements of MIL-PRF-8805 including low level switching (10mA @ 30mV) with power switching up to 5 amps at 28VDC as well.

A variety of mounting styles are offered to best match the application. The P7-1, P7-2, P7-7 and P7-8 case styles feature a swaged bushing shape to allow press fit installation in aircraft flight control and hand grips and similar applications. The other styles feature threaded bushing mounting. The P7-3 and P7-A case styles have a front panel bezel, while the P7-5 and P7-6 have conventional bushings for rear panel mounted installations. Silver or black bezels are standard. Other colors available on special order.

Pushbuttons are available in a choice of nine colors. Excellent tactile feedback assures the operator that contact transfer has been made.

A choice of MIL-SPEC and commercial versions of these switches are offered: Moistureproof and dusttight to IP64 and MIL-PRF-8805 Design 2 or watertight to IP68S and to MIL-PRF-8805 Design 3.

### Features:

- Low level switching capability
- Less than 25mΩ initial contact resistance
- High contact pressure
- 6 circuit variations
- Positive tactile feedback
- Variety of mounting styles
- Square button option with case style A
- Qualified to MIL-PRF-8805/110
- Moistureproof and dusttight to IP64 and MIL-PRF-8805 Design 2 or Watertight to IP68S and MIL-PRF-8805 Design 3
- RoHS compliant

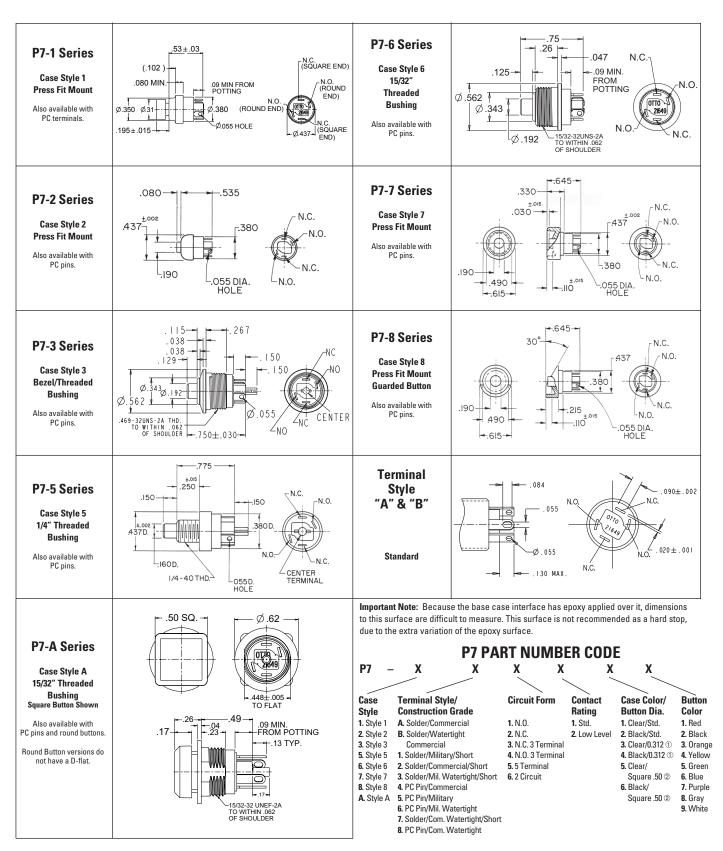


Standard Characteristics/Ratings:							
ELECTRICAL RATINGS	Sea L	Sea Level @ 28VDC			50,000 feet @ 28VDC		
	or 115VAC, 60Hz		or 115\	or 115VAC, 60Hz			
Load Circu	its: 1 & 2	3–5	6	1&2	3–5	6	
Resistive	5A	2.5A	4A	5A	2.5A	4A	
Inductive	3A	1.5A	2A	3A	1.5A	2A	
Lamp	1A	0.5A	N/A	N/A	N/A	N/A	
Motor	3A	1.5A	N/A	N/A	N/A	N/A	
DWV	1050Vrms 400Vrms						
Center Contact	3A max						
Low Level	10mA @ 30mV						
Electrical Life:	25,000 cycles						
Mechanical Life:	1,000,000 cycles						
Seal:	Moistureproof and dusttight to IP64 and MIL-PRF-8805						
0	Design 2 or Watertight to IP68S and MIL-PRF-8805 Design 3 -55°C to +85°C						
Operating Temp Range:							
Operating Force:	1.7 +/- 0.5 lb.						
Total Travel:	0.080 inches max						
Overtravel:	0.010 inche	s min					
MATERIALS:							
Case:	Anodized aluminum alloy						
Button:	Thermoplastic						
Terminals:	Brass with gold over silver						
Terminal Hardware:	None provided						
Mounting Hardware:	Hex nut, lockwasher and panel gasket when applicable						

# COMMERCIAL & MILITARY GRADES

### P7 SUBMINIATURE PUSHBUTTONS

SEALED AGAINST DUST & MOISTURE, LOW LEVEL SWITCHING OPTION



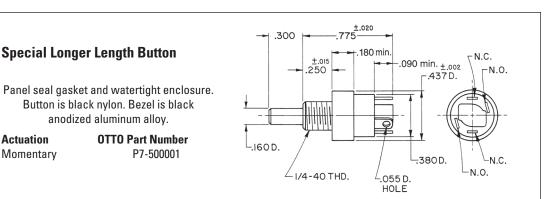
Not available with Case Styles 2 & 5
Available with Case Style A only

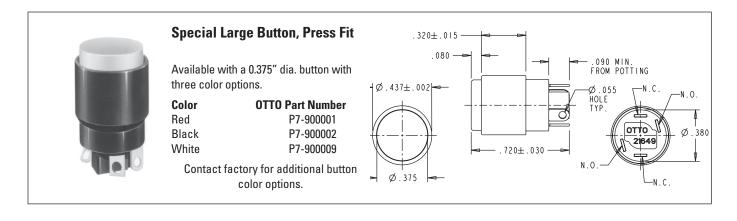
### P7 NOTEWORTHY PUSHBUTTONS

# NOTEWORTHY DESIGNS

#### EXAMPLES OF CUSTOMIZED P7 SEALED PUSHBUTTONS







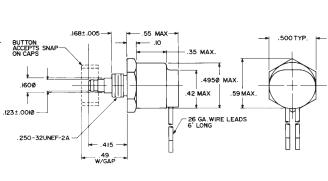
#### **Special Snap-On Button, Wire Leads**

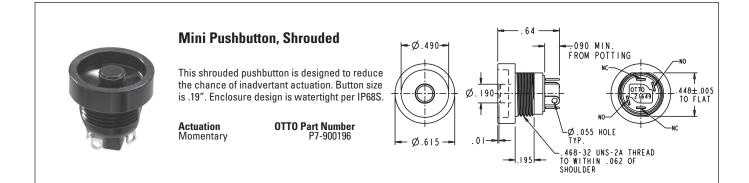
Features changeable snap-on button caps available in two diameters and in a range of colors. Switch is splashproof sealed per MIL-PRF-8805 and is supplied with a silicone panel gasket.

### Part Number: P7-500018

Button Color	0.440" Dia.	0.375" Dia.
Red	C400725-1	C400723-1
Black	C400725-2	C400723-2
Orange	C400725-3	C400723-3
White	C400725-9	C400723-9

Contact factory for additional button color options.





## **Mouser Electronics**

Authorized Distributor

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

OTTO:

P7-133122P7-215222P7-335122P7-335222P7-616221P7-161122P7-1A1138P7-1A1141P7-1A1148P7-1A1148P7-1A1141P7-1A1148P7-1A1141P7-1A1148P7-1A1141P7-1A1148P7-1A1141P7-1A1148P7-1A1141P7-1A1142P7-3A1126P7-3A1126P7-3A1126P7-3A1126P7-3A1126P7-3A1126P7-3A1161P7-AA1161P7-AA1161P7-AA1164P7-AA1164P7-AA1127P7-3A34249P7-AA1129P7-AA1145P7-AA1151P7-AA1154P7-1B6142P7-1B6242P7-21126P7-311127P7-334249P7-AB6161P7-A31121P7-133142P7-6A6138P7-6B1141P7-776121P7-7B6221P7-811146P7-900426P7-A31168P7-A31169P7-A31262P7-100012P7-100023P7-100028P7-100053P7-100054P7-200001P7-300031P7-300095P7-300120P7-300121P7-300125P7-300154P7500031-2P7500041-2P7500050-1P7500052</t