# 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. Mechanical life is 2 million operations.

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:**

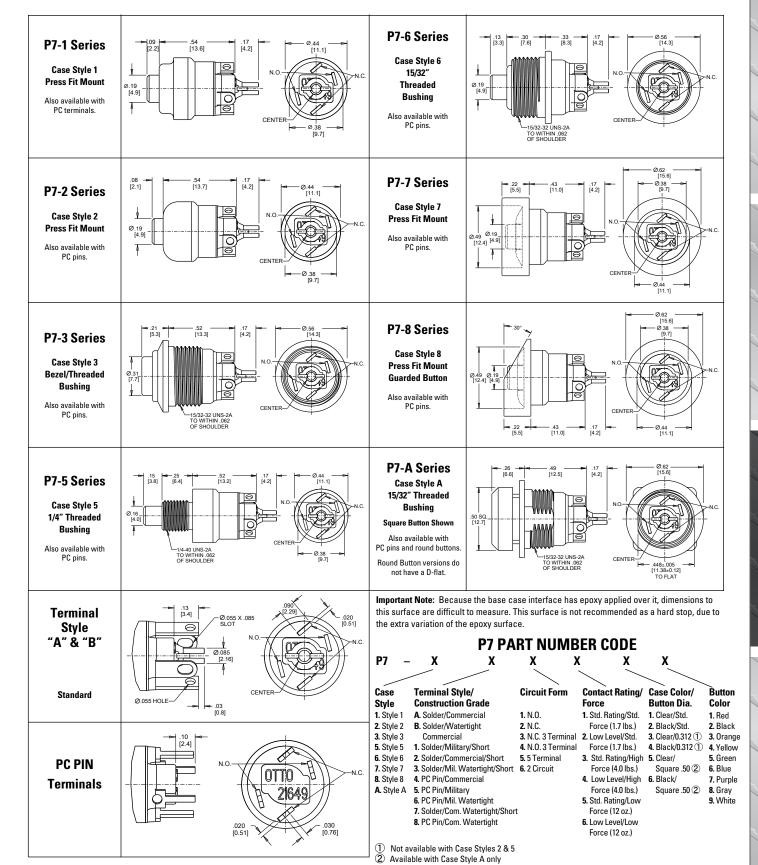
- Low level switching capability
- Less than 25mΩ initial contact resistance
- High contact pressure
- 6 circuit variations
- Positive tactile feedback
- Variety of mounting styles
- Square button option with case style A
- Qualified to MIL-PRF-8805/110
- Mechanical life is 2 million cycles
- Moistureproof 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 Level @ 28VDC or 115VAC, 60Hz			50,000 feet @ 28VDC 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:	50,000 cycles full load (25,000 low level)						
Mechanical Life:	2,000,000 cycles						
Seal:	Moistureproof and dusttight to IP64 and MIL-PRF-8805						
			ht to IP68S	and MIL-PRI	8805 D	esign 3	
Operating Temp Range:							
Operating Force:	1.7 +/- 0.5 lb.						
Total Travel:	0.080 inches max						
Overtravel:	0.010 inches 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						

# PUSHBUTTON SWITCHES

### SEALED AGAINST DUST & MOISTURE, LOW LEVEL SWITCHING OPTION



# NOTEWORTHY DESIGNS

### **EXAMPLES OF CUSTOMIZED P7 SEALED PUSHBUTTONS**



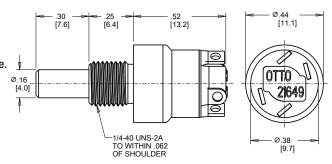
### **Special Longer Length Button**

Panel seal gasket and watertight enclosure.

Button is black nylon. Bezel is black
anodized aluminum alloy.

[4]

Actuation OTTO Part Number Momentary P7-500001





### **Special Large Button, Press Fit**

Available with a 0.375" dia. button with three color options.

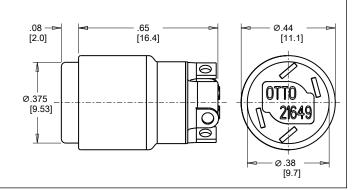
 Color
 OTTO Part Number

 Red
 P7-900001

 Black
 P7-900002

 White
 P7-900009

Contact factory for additional button color options.





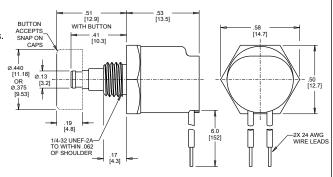
### Special Snap-On Button, Wire Leads

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

<b>Button Color</b>	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.

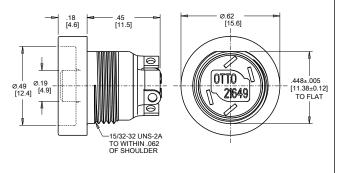




### Mini Pushbutton, Shrouded

This shrouded pushbutton is designed to reduce the chance of inadvertant actuation. Button size is .19". Enclosure design is watertight per IP68S.

**Actuation** Momentary OTTO Part Number P7-900196



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84212012 8AS239 8HM73-3 8SX26-H33 914CE1-6G 11SM1077-H4 11SM1077-H58 11SM1-TN107 11SM405 11SM703-T 11SM8423H2 11SX37-T 11SX48-H58 11SM2442-T 11SM76-T 11SM77-H58 11SM77-T 11SM863-T 11SM866 121EN188-R 1245.0120 125EN56RB D433V3RD 1267.0101 1267.7101 D4BFC1 12SM4-T2 12SX2-T2 1298.0101