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:

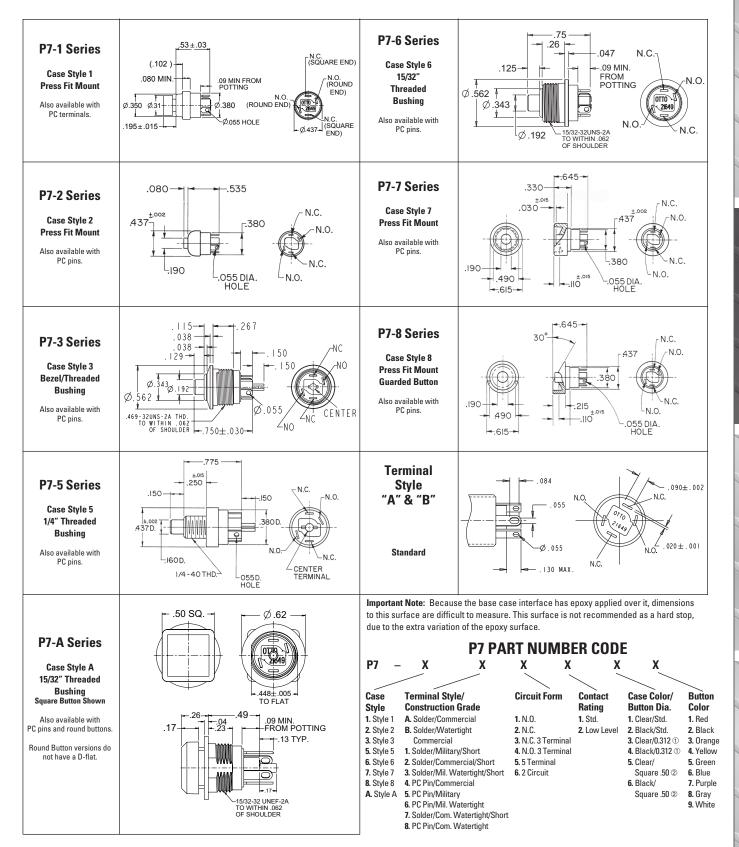
- Low level switching capability
- Less than 25mΩ initial contact resistance
- High contact pressure
- 6 circuit variations
- Positive tactile feedback
- Variety of mounting styles
- Square button option with case style A
- Qualified to MIL-PRF-8805/110
- Moistureproof and dusttight to IP64 and MIL-PRF-8805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



Standard Characteristics/Ratings:							
ELECTRICAL RATINGS:		Sea 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		1050Vrm	ıs		400Vrm	ıs	
Center Contact	3A max						
Low Level	10mA @ 30mV						
Electrical Life:	25,000 cycle	es					
Mechanical Life:	1,000,000 cycles						
Seal:	Moistureproof and dusttight to IP64 and MIL-PRF-8805						
	•		ht to IP68S	and MIL-PRI	F-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, loc	kwasher	and panel	gasket when	applica	ble	

COMMERCIAL & MILITARY GRADES

SEALED AGAINST DUST & MOISTURE, LOW LEVEL SWITCHING OPTION



 $[\]textcircled{1}$ Not available with Case Styles 2 & 5

② Available with Case Style A only

NOTEWORTHY DESIGNS

EXAMPLES OF CUSTOMIZED P7 SEALED PUSHBUTTONS

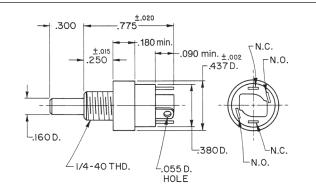


Special Longer Length Button

Panel seal gasket and watertight enclosure. Button is black nylon. Bezel is black anodized aluminum alloy.

Actuation 0 Momentary

OTTO Part Number P7-500001





Special Large Button, Press Fit

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

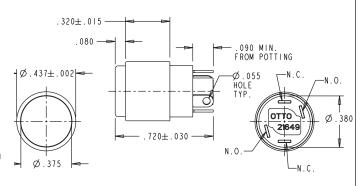
 Color
 OTTO Part Number

 Red
 P7-900001

 Black
 P7-900002

 White
 P7-900009

Contact factory for additional button color options.





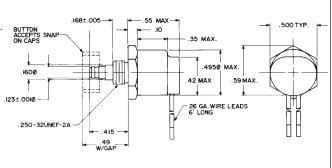
Special Snap-On Button, Wire Leads

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

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.

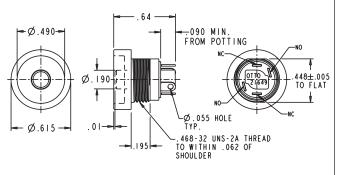




Mini Pushbutton, Shrouded

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



Mouser Electronics

Authorized Distributor

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

OTTO: P7-171142