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.

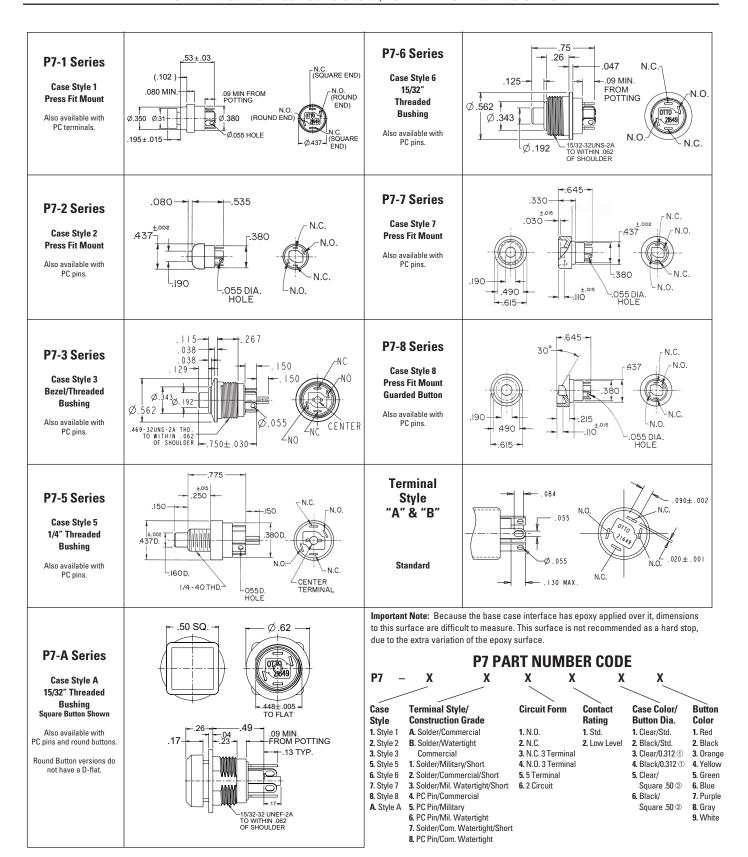
Features:

- 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



ELECTRICAL RATINGS:		Sea Level @ 28VDC or 115VAC, 60Hz			,	50,000 feet @ 28VDC or 115VAC, 60Hz		
Load Ci	rcuits:	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:	50,	50,000 cycles full load (25,000 low level)						
Mechanical Life:	1,0	1,000,000 cycles						
Seal:		Moistureproof and dusttight to IP64 and MIL-PRF-8805 Design 2 or Watertight to IP68S and MIL-PRF-8805 Design 3						
Operating Temp Rang	je : -55							
Operating Force:	1.7	+/- 0.5 lb						
Total Travel:	0.0	0.080 inches max						
Overtravel:	0.0	0.010 inches min						
MATERIALS:								
Case:	An	Anodized aluminum alloy						
Button:	The	Thermoplastic						
Terminals:	Bra	Brass with gold over silver						
Terminal Hardware:	No	None provided						
Mounting Hardware:	Ца	r nut loo	lavoobor	and nanal	gasket when	annliaa	hlo	

SEALED AGAINST DUST & MOISTURE, LOW LEVEL SWITCHING OPTION



① Not available with Case Styles 2 & 5

② Available with Case Style A only

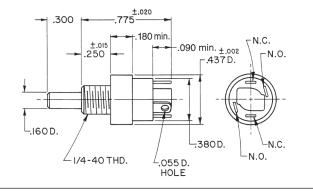
EXAMPLES OF CUSTOMIZED P7 SEALED PUSHBUTTONS



Special Longer Length Button

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

Actuation Momentary **OTTO Part Number** P7-500001



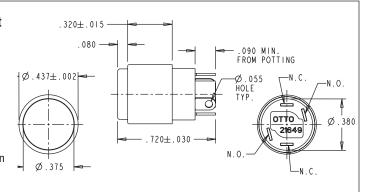


Special Large Button, Press Fit

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.





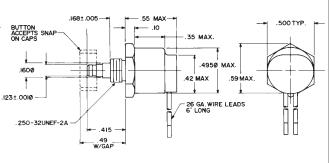
Special Snap-On Button, Wire Leads

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

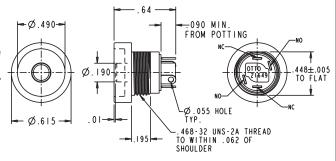




Mini Pushbutton, Shrouded

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:

<u>P7-A16159</u> <u>P7-A36169</u> <u>P7-A76261</u> <u>P7-AA1126</u> <u>P7-AA1129</u> <u>P7-AA1145</u> <u>P7-AA1151</u> <u>P7-AA1154</u> <u>P7-AA1161</u> <u>P7-AA1161</u> <u>P7-A31168</u> <u>P7-A31169</u> <u>P7-A31262</u>