#### MOMENTARY ACTION, SEALED SUB-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.

The long life snap-action design is protected from the environment by a silicon rubber boot, operating on a patented "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 case style has 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.

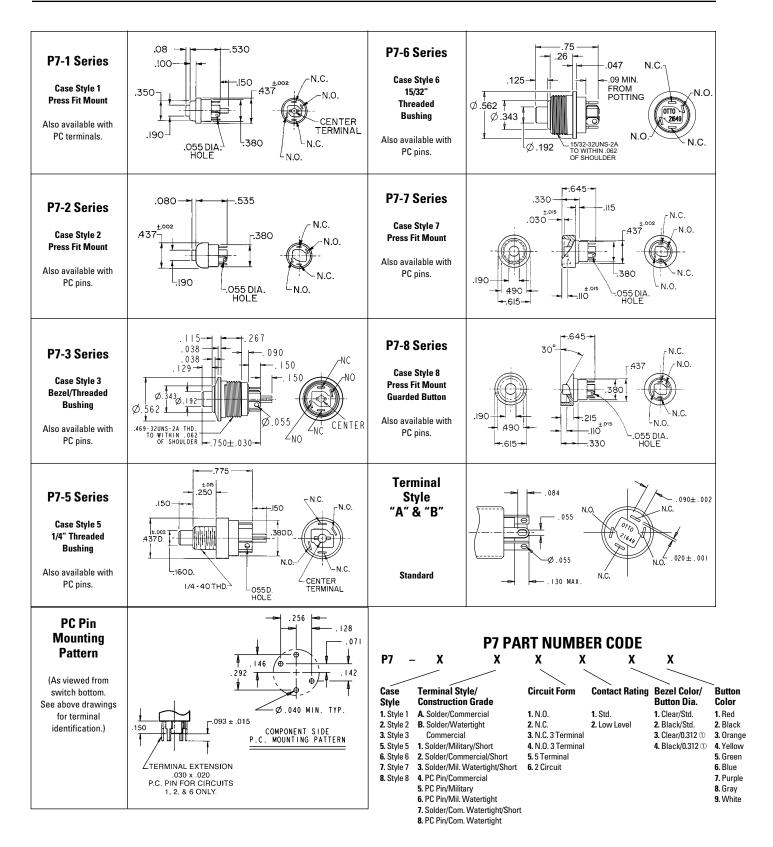
## **Features:**

- Low level switching capability
- Less than 25mΩ contact resistance
- High contact pressure
- 6 circuit variations
- Positive tactile feedback
- Variety of mounting styles
- Qualified to MIL-PRF-8805/110
- Moistureproof & dusttight to IP64 & MIL-PRF-8805 Design 2 or watertight to IP68S & MIL-PRF-8805 Design 3
- RoHS/WEEE/Reach compliant



Standard Charac	teristic	cs/Ratir	igs:					
ELECTRICAL RATINGS:		Sea Level @ 28VDC			50,000	50,000 feet @ 28VDC		
Load C	ircuits:	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 40			400Vrm	ıs		
Center Contact		3A max						
Low Level		10mA @ 30mV						
Electrical Life:	25,	25,000 cycles						
Mechanical Life:	1,0	1,000,000 cycles						
Seal:		IP64 and MIL-PRF-8805 Design 2 or IP68S and MIL-PRF-8805 Design 3						
Operating Temp Ran	i <b>ge</b> : -55	°C to +85	i°C					
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	: He	Hex nut, lockwasher and panel gasket when applicable						

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



 $<sup>\</sup>textcircled{1}$  Not available with Case Styles 1, 2 & 5.

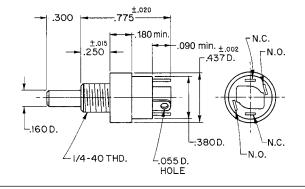
#### **EXAMPLES OF CUSTOMIZED P7 SEALED PUSHBUTTONS**



## **Special Longer Length Button**

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

Actuation OTTO Part Number
Momentary P7-500001





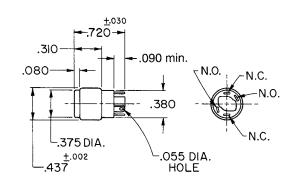
## **Special Large Button, Press Fit**

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.





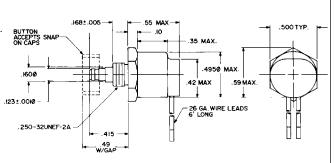
## **Special Snap-On Button, Wire Leads**

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.

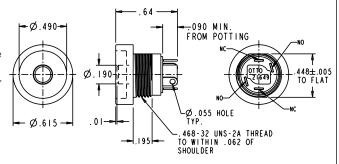




## Mini Pushbutton, Shrouded

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

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



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67021K512 67081K512X 701PB580 7199K101 810K12910 810KSV30B MML21EA2ADK MML21KA3ABK MML23KA3AC05K-001
MML23KW3AA01W 8418K2 8442K3 8450K1 860K11911T01A 861901 861K11911T01A07 861K13810T00A14 861K13911
8646AB6X718UL 8646ABUL 9001KXRK 907AYY100 PMHD155A1 9533CD4+U574+U4922 95-414.000 99-450.837 99-453.837
PV3H2B0NN-341 1203MRA A22NZBGANGA A22NZBNANGA A22NZMPATRA A2PMA1X03EC56 A3A-5123-02 A3A-7140 A3A-7310 A3A-7340 A3U-TMW-A2C-5M A595 12037A2ULCSA ABD122N-B 1211390004