COMMERCIAL AND MILITARY GRADES

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 allow the switch density today's technologies require in control grips and panels.

The long life snap-action design is protected from the environment by a silicon 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-S-8805 including low level switching (10 mA @ 30 mV) with power switching up to 5 amps at 28 VDC 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 series 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 had 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. Watertight to IP68. Watertight to MIL-PRF-8805 Design 3. Consult the ordering code to specify.

Quality Features:

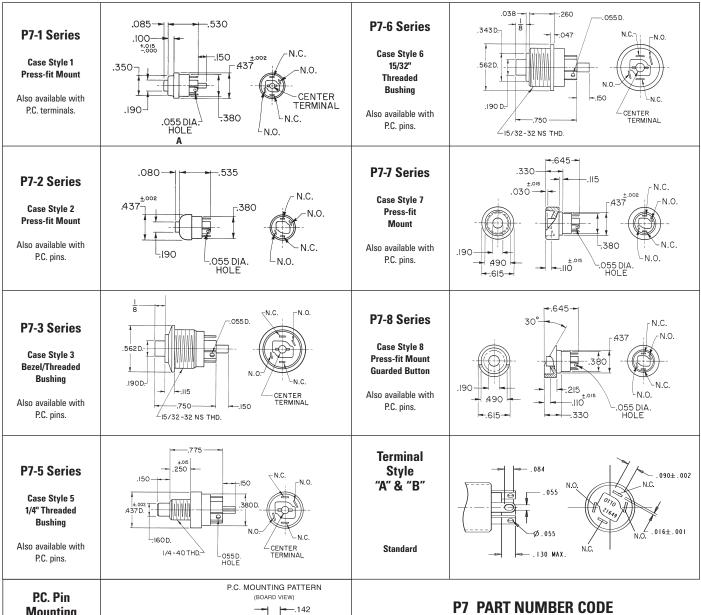
- Low level switching capability
- Low contact resistance: .025 ohms max
- High contact pressure
- Six circuit variations
- Positive tactile feedback
- Variety of mounting styles
- Sealed against dust and moisture
- Qualified to MIL-PRF-8805/110
- Watertight IP68 available



Standard Characteristics/Ratings:							
ELECTRICAL : (at 28 VDC or 115 VAC, 60/400 Hz.)							
LOAD	SINGLE CIRCUIT	2-CIRCUIT					
Resistive	5 Amps	4 Amps					
Inductive	3 Amps	2 Amps					
Lamp	2 Amps						
Low Level Option:	30 mV @ 10 ma. for 25,000 cycles						
MATERIALS:							
Case:	Aluminum alloy, anodized						
Button:	Thermoplastic						
Seal:	Internal silicone rubber						
Terminals:	nals: The terminals are suitable for soldering						
OPERATIONAL:							
Operating Force:	perating Force: 1.7 lbs. ±.5 lbs.						
	Also available 12oz. ±4oz on spec	cial order					
Mechanical Life:	1,000,000 cycles						
Electrical Life:	25,000 cycles						
Dielectric Withstanding:	1050 Vrms.						
Temperature Range:	-55°C to +85°C						

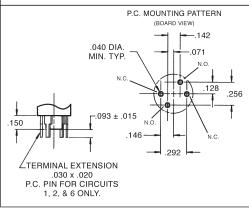
MINI SIZED PER MIL-PRF-8805/110

SEALED AGAINST DUST AND MOISTURE, LOW LEVEL SWITCHING OPTION



Mounting Pattern

(As viewed from switch bottom See above drawings for terminal identification.)



① Specials are serialized. Subsequent numerals do not specify standard features.

P/ PAKI NUMBER CUDE								
			P 7 X	(X X	X_ X_		
	Case Style		Terminal Style/ Construction Grade		Circuit Form	Contact Rating	Bezel Color Button Dia.	Button Color
	1. Style 1	0.	Special ①	1.	N.O.	1. Standard	1. Clear-Standard	1. Red
	2. Style 2	A.	. Standard Commercial Solder	2.	N.C.	2. Low Level	2. Black-Standard	2. Black
	3. Style 3	B.	Standard Watertight Commercial Solder	3.	N.C. 3-Terminal		3. Clear312@	3. Orange
	5. Style 5	1.	Solder/Military/Short	4.	N.O. 3-Terminal		4. Black312@	4. Yellow
	6. Style 6	2.	Solder/Commercial/Short	5.	5-Terminal			5. Green
	7. Style 7	3.	Solder/Mil. Watertight/Short	6.	Two Circuit			6. Blue
	8. Style 8	4.	P.C. Pin/Commercial					7. Purple
		5.	P.C. Pin/Military					8. Gray
		6.	P.C. Pin/MIL Watertight					9. White
		7.	Solder/Com. Watertight/Short					

8. P.C. Pin/Com. Watertight

② Not available with Case Style 1, 2 and 5.

SPECIAL PURPOSE DESIGNS

EXAMPLES OF CUSTOMIZED P7 SEALED PUSHBUTTONS

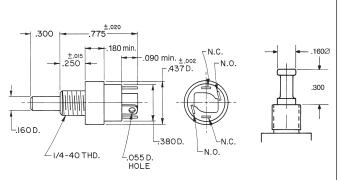
Special Longer Length Button

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

Available in two versions:

OTTO Part Number P7-500001 Momentary

Push-Pull Maintained P7-500017



P7-500001. Momentary

P7-500017. Push-Pull



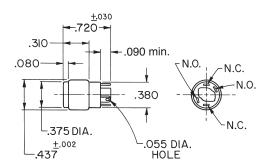
Special Large Button, Press Fit

Available with a .375" dia. button with three color options.

OTTO Part Number Color Red P7-900001

P7-900002 Black White P7-900009

Contact Factory for additional button color options





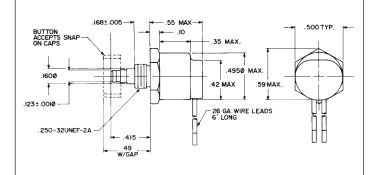
Special Snap-On Button, Wire leads

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

Part Number: P7-500018

i di t i talliboi. I / 3000 io							
Button Color	.440" Dia.	.375" Dia.					
Red	400725-1	400723-1					
Black	400725-2	400723-2					
Orange	400725-3	400723-3					
White	400725-9	400723-9					

Contact factory for additional button color options



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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
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