## P7 SUBMINIATURE PUSHBUTTONS

# 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

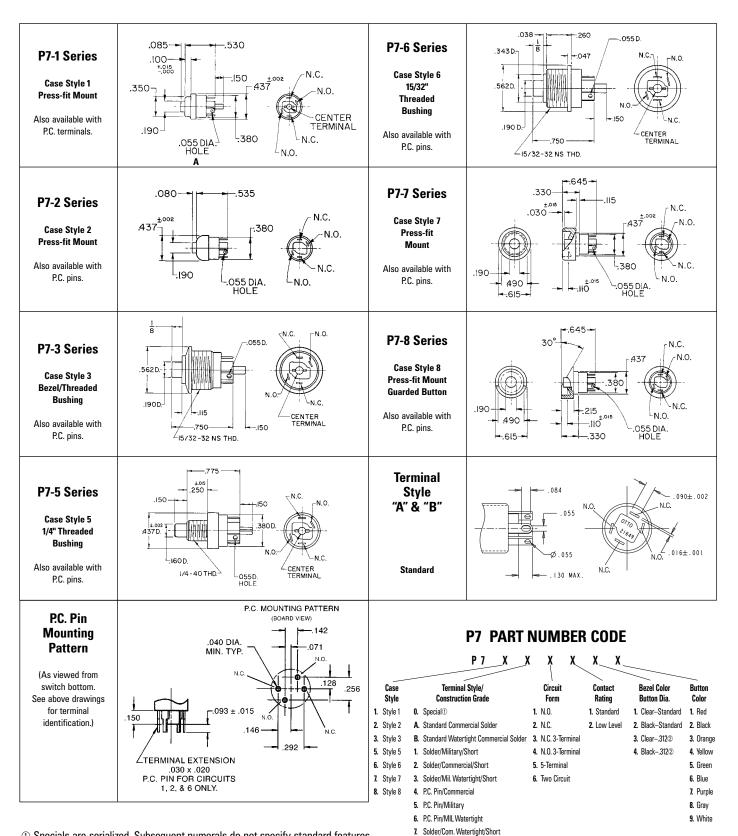


Standard Characteristics/Ratings:			
ELECTRICAL: (at 28 VDC or 115 VAC, 60/400 Hz.)			
LOAD	SINGLE CIRCUIT	2-CIRCUIT	
Resistive	5 Amps	4 Amps	
Inductive	3 Amps	2 Amps	
Lamp	2 Amps	_	
Low Level Option:	30 mV @ 10 ma. for 25,000 cycles		
MATERIALS:			
Case:	Aluminum alloy, anodized		
Button:	Thermoplastic		
Seal:	Internal silicone rubber		
Terminals:	The terminals are suitable for soldering		
<b>OPERATIONAL:</b>			
Operating Force:	1.7 lbs. ±.5 lbs. Also available 12oz. ±4oz on special orde	r	
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

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



8. P.C. Pin/Com. Watertight

 $\odot$  Specials are serialized. Subsequent numerals do not specify standard features.  $\circledcirc$  Not available with Case Style 1, 2 and 5.

Specifications Subject To Change Without Notice

# SPECIAL PURPOSE DESIGNS

### EXAMPLES OF CUSTOMIZED P7 SEALED PUSHBUTTONS

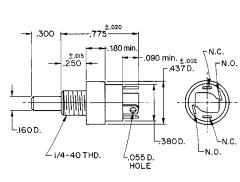


# black nylon. Bezel is black anodized aluminum alloy.

**Special Longer Length Button** 

Panel seal gasket and watertight enclosure. Button is

Available in two versions:ActuationOTTO Part NumberMomentaryP7-500001Push-Pull MaintainedP7-500017



P7-500001, Momentary P7-500017, Push-Pull 160Ø

.300



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

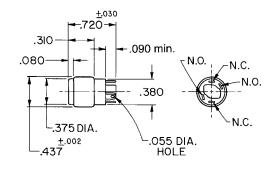
Available with a .375" dia. button with three color options. Color OTTO Part Number

OTTO Part P7-900001 P7-900002 P7-900009

Red

Black White

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			
.440" Dia.	.375" Dia.		
400725-1	400723-1		
400725-2	400723-2		
400725-3	400723-3		
400725-9	400723-9		
	. <b>440" Dia.</b> 400725-1 400725-2 400725-3		

Contact factory for additional button color options

