

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 Characteristics/Ratings:

ELECTRICAL RATINGS:		Sea Level @ 28VDC			50,000 feet @ 28VDC		
Load	Circuits:	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
DVV		1050Vrms			400Vrms		
Center Contact					3A max		
Low Level					10mA @ 30mV		
Electrical Life:		25,000 cycles					
Mechanical Life:		1,000,000 cycles					
Seal:		IP64 and MIL-PRF-8805 Design 2 or IP68S and MIL-PRF-8805 Design 3					
Operating Temp Range:		-55°C to +85°C					
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, lockwasher and panel gasket when applicable					

MINI-SIZED PER MIL-PRF-8805/110

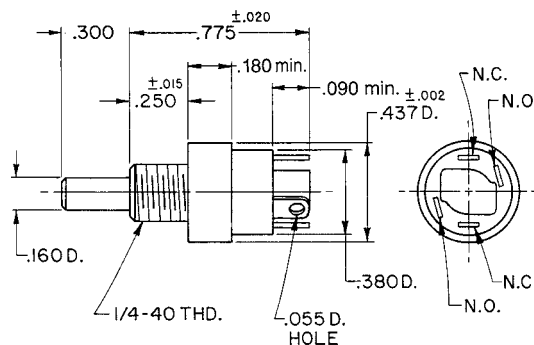
SEALED AGAINST DUST & MOISTURE, LOW LEVEL SWITCHING OPTION

P7-1 Series Case Style 1 Press Fit Mount Also available with PC terminals.		P7-6 Series Case Style 6 15/32" Threaded Bushing Also available with PC pins.																																																																																
P7-2 Series Case Style 2 Press Fit Mount Also available with PC pins.		P7-7 Series Case Style 7 Press Fit Mount Also available with PC pins.																																																																																
P7-3 Series Case Style 3 Bezel/Threaded Bushing Also available with PC pins.		P7-8 Series Case Style 8 Press Fit Mount Guarded Button Also available with PC pins.																																																																																
P7-5 Series Case Style 5 1/4" Threaded Bushing Also available with PC pins.		Terminal Style "A" & "B" Standard																																																																																
PC Pin Mounting Pattern (As viewed from switch bottom. See above drawings for terminal identification.)	P7 PART NUMBER CODE <table><tr><th>P7</th><th>-</th><th>X</th><th>X</th><th>X</th><th>X</th><th>X</th></tr><tr><th>Case Style</th><th>Terminal Style/Construction Grade</th><th>Circuit Form</th><th>Contact Rating</th><th>Bezel Color/Button Dia.</th><th>Button Color</th></tr><tr><td>1. Style 1</td><td>A. Solder/Commercial</td><td>1. N.O.</td><td>1. Std.</td><td>1. Clear/Std.</td><td>1. Red</td></tr><tr><td>2. Style 2</td><td>B. Solder/Watertight</td><td>2. N.C.</td><td>2. Low Level</td><td>2. Black/Std.</td><td>2. Black</td></tr><tr><td>3. Style 3</td><td>Commercial</td><td>3. N.C. 3 Terminal</td><td></td><td>3. Clear/0.312 ①</td><td>3. Orange</td></tr><tr><td>5. Style 5</td><td>1. Solder/Military/Short</td><td>4. N.O. 3 Terminal</td><td></td><td>4. Black/0.312 ①</td><td>4. Yellow</td></tr><tr><td>6. Style 6</td><td>2. Solder/Commercial/Short</td><td>5. 5 Terminal</td><td></td><td></td><td>5. Green</td></tr><tr><td>7. Style 7</td><td>3. Solder/Mil. Watertight/Short</td><td>6. 2 Circuit</td><td></td><td></td><td>6. Blue</td></tr><tr><td>8. Style 8</td><td>4. PC Pin/Commercial</td><td></td><td></td><td></td><td>7. Purple</td></tr><tr><td></td><td>5. PC Pin/Military</td><td></td><td></td><td></td><td>8. Gray</td></tr><tr><td></td><td>6. PC Pin/Mil. Watertight</td><td></td><td></td><td></td><td>9. White</td></tr><tr><td></td><td>7. Solder/Com. Watertight/Short</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>8. PC Pin/Com. Watertight</td><td></td><td></td><td></td><td></td></tr></table>			P7	-	X	X	X	X	X	Case Style	Terminal Style/Construction Grade	Circuit Form	Contact Rating	Bezel Color/Button Dia.	Button Color	1. Style 1	A. Solder/Commercial	1. N.O.	1. Std.	1. Clear/Std.	1. Red	2. Style 2	B. Solder/Watertight	2. N.C.	2. Low Level	2. Black/Std.	2. Black	3. Style 3	Commercial	3. N.C. 3 Terminal		3. Clear/0.312 ①	3. Orange	5. Style 5	1. Solder/Military/Short	4. N.O. 3 Terminal		4. Black/0.312 ①	4. Yellow	6. Style 6	2. Solder/Commercial/Short	5. 5 Terminal			5. Green	7. Style 7	3. Solder/Mil. Watertight/Short	6. 2 Circuit			6. Blue	8. Style 8	4. PC Pin/Commercial				7. Purple		5. PC Pin/Military				8. Gray		6. PC Pin/Mil. Watertight				9. White		7. Solder/Com. Watertight/Short						8. PC Pin/Com. Watertight				
P7	-	X	X	X	X	X																																																																												
Case Style	Terminal Style/Construction Grade	Circuit Form	Contact Rating	Bezel Color/Button Dia.	Button Color																																																																													
1. Style 1	A. Solder/Commercial	1. N.O.	1. Std.	1. Clear/Std.	1. Red																																																																													
2. Style 2	B. Solder/Watertight	2. N.C.	2. Low Level	2. Black/Std.	2. Black																																																																													
3. Style 3	Commercial	3. N.C. 3 Terminal		3. Clear/0.312 ①	3. Orange																																																																													
5. Style 5	1. Solder/Military/Short	4. N.O. 3 Terminal		4. Black/0.312 ①	4. Yellow																																																																													
6. Style 6	2. Solder/Commercial/Short	5. 5 Terminal			5. Green																																																																													
7. Style 7	3. Solder/Mil. Watertight/Short	6. 2 Circuit			6. Blue																																																																													
8. Style 8	4. PC Pin/Commercial				7. Purple																																																																													
	5. PC Pin/Military				8. Gray																																																																													
	6. PC Pin/Mil. Watertight				9. White																																																																													
	7. Solder/Com. Watertight/Short																																																																																	
	8. PC Pin/Com. Watertight																																																																																	

EXAMPLES OF CUSTOMIZED P7 SEALED PUSHBUTTONS



Actuation	OTTO Part Number
Momentary	P7-500001



Color	OTTO Part Number
Red	P7-900001
Black	P7-900002
White	P7-900009

Technical drawing of a 1/2 inch diameter, 10-32 UNF-2A female threaded plug. The drawing includes a side view and a cross-section view. Dimensions are as follows:

- Overall length: $\pm .030$
- Distance from end face to start of thread: $.720$
- Distance from end face to start of chamfer: $.310$
- Chamfer width: $.080$
- Thread length: $.090 \text{ min.}$
- Thread pitch diameter: $.380$
- Major diameter: $.375 \text{ DIA.}$
- Minor diameter: $\pm .002$
- End face diameter: $.437$
- Thread specification: $10-32 \text{ UNF-2A}$
- End face hole: $.055 \text{ DIA. HOLE}$
- End face features: N.O. (Notched), N.C. (Notched), N.O. (Notched), N.C. (Notched)



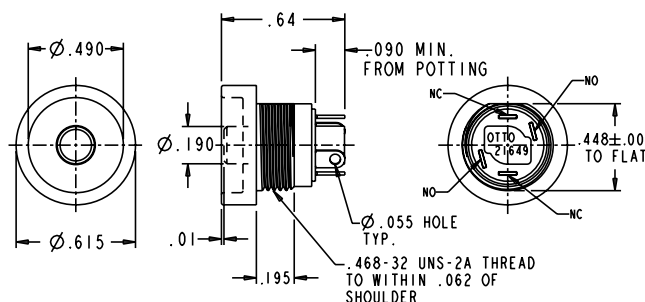
Part Number: P7-500018

Technical drawing of a probe tip assembly. The drawing includes a side view and an end view. Key dimensions and features are labeled:

- Side View Dimensions:**
 - Overall length: $.55 \text{ MAX.}$
 - Distance from tip to first step: $.10$
 - Distance from tip to second step: $.35 \text{ MAX.}$
 - Distance from tip to third step: $.4950 \text{ MAX.}$
 - Distance from tip to fourth step: $.42 \text{ MAX.}$
 - Distance from tip to fifth step: $.59 \text{ MAX.}$
 - Tip diameter: $.168 \pm .005$
 - First step diameter: $.160 \pm .001$
 - Second step diameter: $.123 \pm .001$
 - Third step diameter: $.250 - 32 \text{ UNEF} - 2 \text{ A}$
 - Fourth step diameter: $.415$
 - Fifth step diameter: $.49 \text{ W/45 P}$
- End View Dimensions:**
 - Overall diameter: $.500 \text{ TYP.}$
- Other Labels:**
 - "BUTTON ACCEPTS SNAP ON CAPS" (pointing to the top of the probe body)
 - "26 GA. WIRE LEADS 6' LONG" (pointing to the bottom of the probe body)

Mini Pushbutton, Shrouded

Actuation	OTTO Part Number
Momentary	P7-900196



Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9