MOMENTARY ACTION, SEALED, SNAP-ACTION, DOUBLE BREAK

Makes and breaks every time! The OTTO design features inherent rocking action that breaks welds and wipes contacts clean.

The P3 is the commercial version of the P1 Pushbutton switch, offering vastly improved life under extreme conditions found in some industrial environments. The pushbutton is sealed by a silicone boot operating on our patented "rolling sleeve," providing longer life and smoother operation over a wide temperature range. Epoxy protects the contacts and terminals from hostile environments and solder flux.

High contact force (120g/4.2 oz) and short contact bounce are the result of our snap-action mechanism. These characteristics provide exceptional current carrying capabilities over the life of the switch. With the optional logic level (gold plate) configuration, the P3 is well suited to interface directly to computers and other solid state devices.

Watertight sealing is available by simply adding "W" to your part number. Because the P3 is a double break switch, wide connection possibilities, longer life and greater capacity are offered. The P3 design provides a unique terminal connection to the moving element for added flexibility. Special versions can be provided with five terminals to control up to four circuits.

Features:

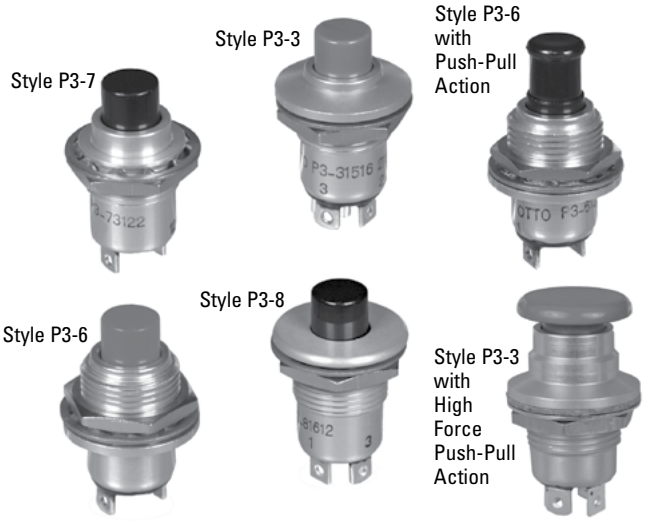
- **Button sealed with patented "rolling sleeve" principle**
- **Contact area sealed at button & terminals**
- **Positive tactile feedback**
- **Engraved buttons & bezels available**
- **UL recognized**
- **1 million mechanical cycle life**
- **Watertight to IP68S available in all versions**
- **Watertight to IP69K available in non push-pull versions**
- **RoHS compliant**

P3 PART NUMBER CODE

P3 – X X X X X *

Case Style	Terminal Style/Rating	Circuit Form	Operating Force/Action	Button Color
1. Style 1	**1.** Solder/Std.	**1.** N.O.	**1.** 2.5 lbs./Momentary	**1.** Red
3. Style 3	**2.** Screw/Std.	**2.** N.C.	**2.** 4.0 lbs./Momentary	**2.** Black
6. Style 6	**3.** Solder/Logic Level	**3.** N.C. 3 Terminal	**3.** Push-Pull	**3.** Orange
7. Style 7	**4.** Screw/Logic Level	**4.** N.O. 3 Terminal	**4.** Push-Pull High Force**	**4.** Yellow
8. Style 8		**5.** 5 Terminal		**5.** Green
		6. 2 Circuit		**6.** Blue
				7. Purple
				8. Gray
				9. White

* Add "W" suffix for watertight to IP68S and IP69K for Operating Force/Action selections 1 and 2.
Add "W" suffix for watertight to IP68S for Operating Force/Action selections 3 and 4.
**Available in Case Style 3 only.



Standard Characteristics/Ratings:			
ELECTRICAL RATINGS:			
Load	**Sea Level @ 28VDC or 115VAC, 60/400Hz**	**50,000 feet @ 28VDC or 115VAC, 60/400Hz**	**Cycles**
Resistive	10A	N/A	100,000
Inductive	5A	5A	100,000
Lamp	3A	N/A	100,000
Center Contact	3A max	N/A	100,000
DWV	1000Vrms	400Vrms	
Logic Level	10mA @ 5VDC		
Electrical Life:	25,000 or 100,000 cycles (depending on configuration) High Force Push Pull 5,000 cycles		
Mechanical Life:	1 million cycles, circuit forms 1, 2 & 6 100,000 cycles, circuit forms 3, 4 & 5 High Force Push Pull 5,000 cycles		
Seal:	IP64 or IP68S and IP69K IP64 or IP68S on push-pull versions		
Shock:	MIL-STD-202, method 207		
Operating Temp Range:	-55°C to +85°C, High Force Push Pull -40°C to +85°C		
Operating Force:	2.5 lbs. or 4.0 lbs. Push-Pull: .5 to 2.0 lbs. Push-Pull High Force: 3.0 lbs. min.		
Reset Force:	0.75 lb. min or 1.0 lb.		
Total Travel:	0.085 +/- 0.015 inches		
Overtravel:	0.012 inches min		
Movement Differential:	0.015 inches min		
MATERIALS:			
Case:	Anodized aluminum alloy		
Button:	Thermoplastic		
Terminals:	Brass with silver, gold for logic level		
Terminal Hardware:	Screws, lockwasher and terminal lug for screw terminal option		
Mounting Hardware:	Hex nut, lockwasher and panel seal when applicable		

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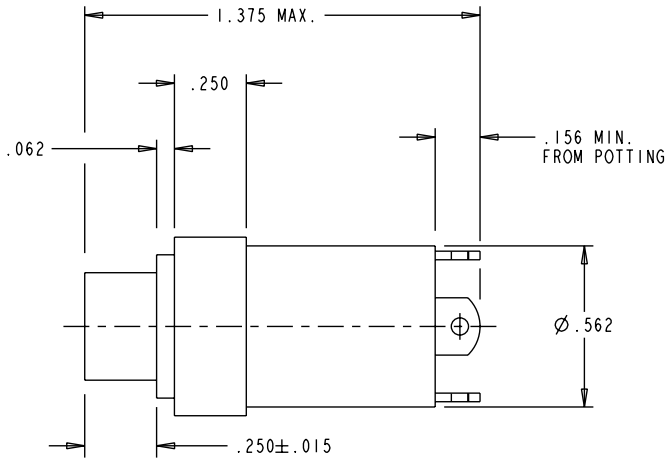
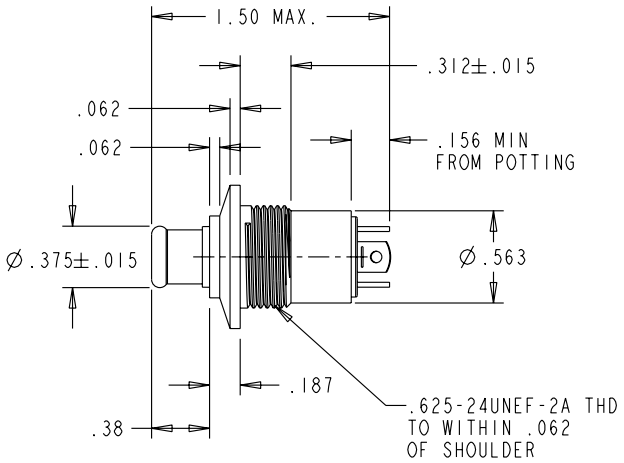
SEALED COMMERCIAL GRADE PUSHBUTTONS

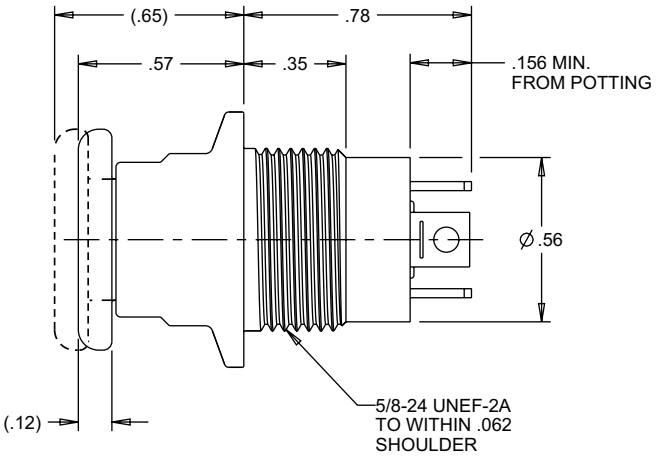
IDEAL FOR USE IN HEAVY MACHINERY & COMMERCIAL APPLICATIONS



Style P3-11_2



Style P3-33_3 Push-Pull



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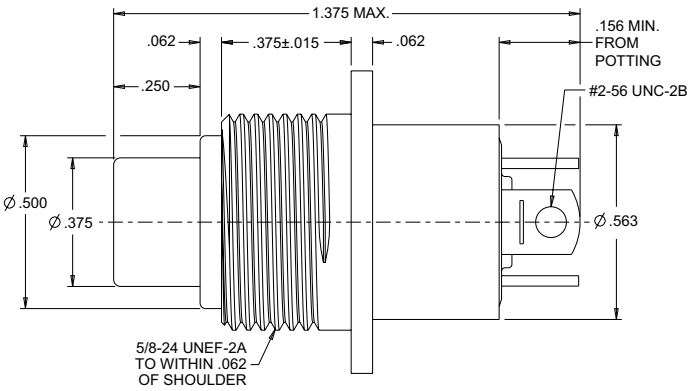

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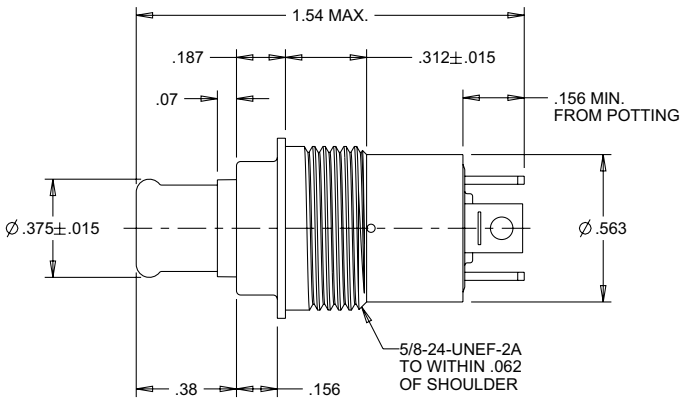

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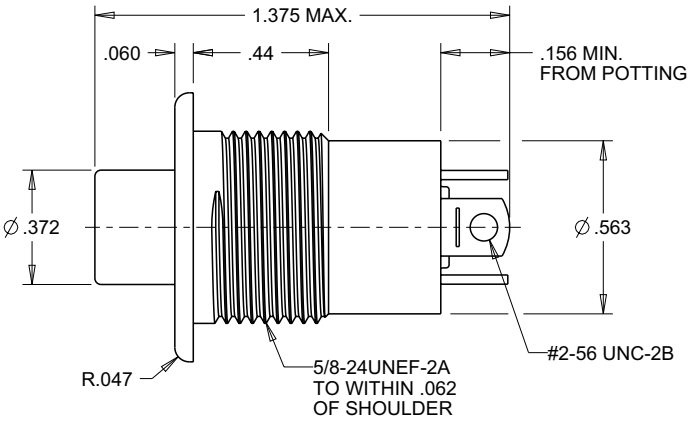

Style P3-83_1

Specifications Subject To Change Without Notice