P3 Sealed Commercial

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. 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:

- Momentary action, snap-action, double break switch
- Button sealed with patented "rolling sleeve" principle
- Contact area sealed at button and terminals
- Positive tactile feedback
- Engraved buttons and bezels available
- UL1500 ignition protected
- Up to 1 million mechanical cycle life
- Watertight to IP6K8S available in all versions
- Watertight to IP6K9K available in non push-pull versions
- RoHS compliant


Style P3-3


Style P3-6


Style P3-7


Style P3-8


Style P3-6 with Push-Pull Action


Style P3-3 with High Force Push-Pull Action

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:	Up to 25,000 or 100,000 cycles *(depending on configuration)* High Force Push-Pull up to 5,000 cycles		
Mechanical Life:	Up to 1 million cycles, circuit forms 1, 2 & 6 Up to 100,000 cycles, circuit forms 3, 4 & 5 High Force Push Pull 5,000 cycles		
Seal:	IP6K4 or IP6K8S and IP6K9K IP6K4 or IP6K8S 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

Your official representative

ALDERS®
Indicate. Control. Connect.

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P3 Pushbutton
Part Number Code

P3 -	X	X	X	X	X	*

Case Style
1. Style 1
3. Style 3
6. Style 6
7. Style 7
8. Style 8

Terminal Style/Rating
1. Solder/Std.
2. Screw/Std.
3. Solder/Logic Level
4. Screw/Logic Level

Circuit Form
1. N.O.
2. N.C.
3. N.C. 3 Terminal
4. N.O. 3 Terminal
5. 5 Terminal
6. 2 Circuit

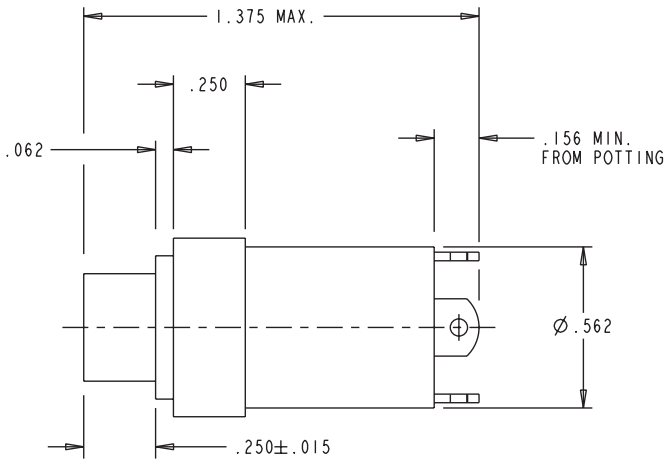
Operating Force/Action
1. 2.5 lbs./Momentary
2. 4.0 lbs./Momentary
3. Push-Pull
4. Push-Pull High Force**

Button Color
1. Red
2. Black
3. Orange
4. Yellow
5. Green
6. Blue
7. Purple
8. Gray
9. White

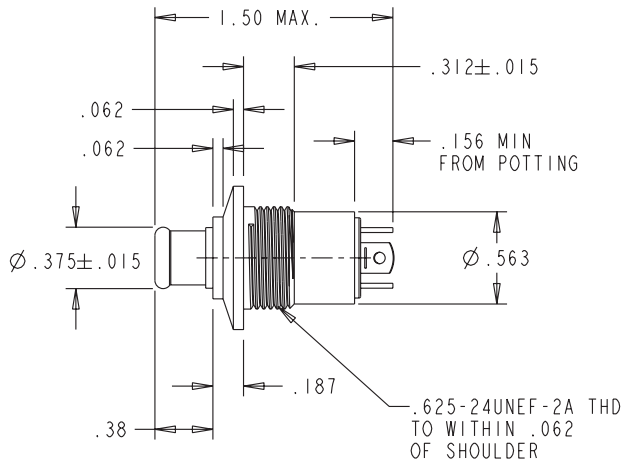
*** Add "W" suffix for watertight to IP6K8S and IP6K9K for Operating Force/Action selections 1 and 2.**
Add "W" suffix for watertight to IP6K8S for Operating Force/Action selections 3 and 4.

**Available in Case Style 3 only.

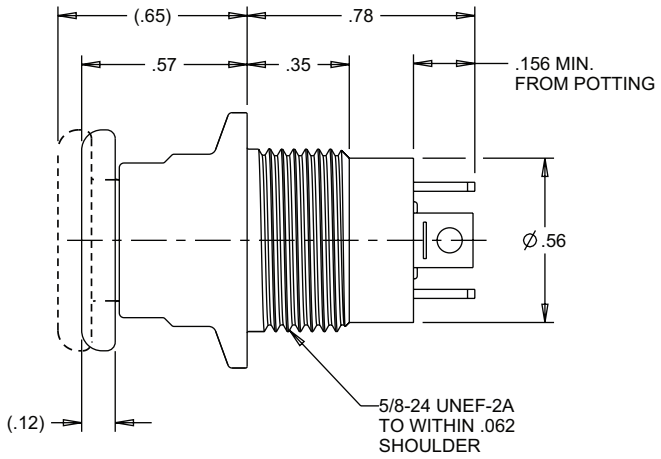
STYLE P3-11_2



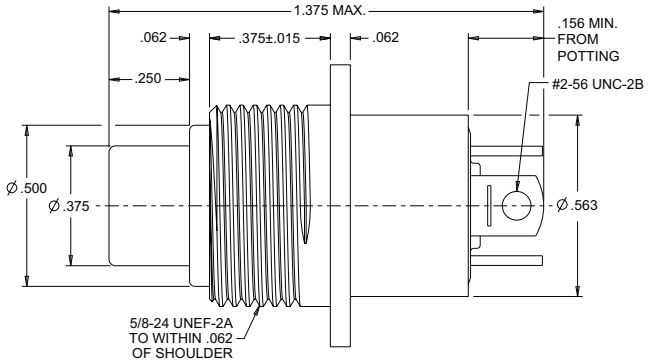
STYLE P3-33_3 PUSH-PULL



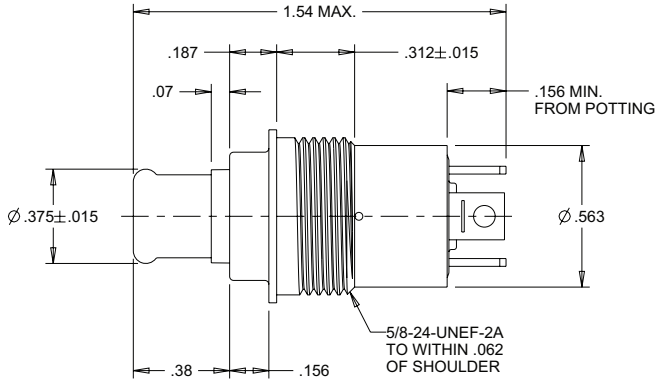
STYLE P3-33_4 PUSH-PULL HIGH FORCE



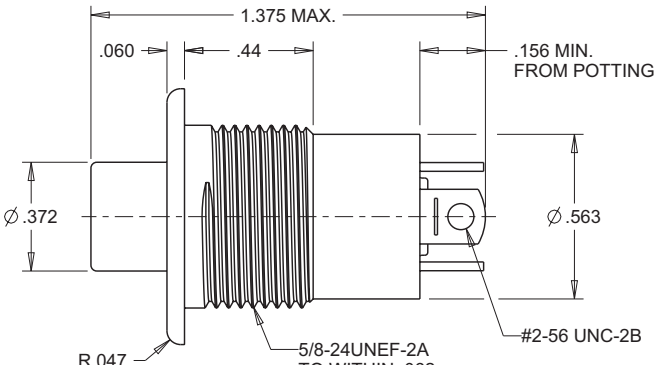
STYLE P3-61_1



STYLE P3-71_3



STYLE P3-83_1



Specifications Subject To Change Without Notice