SEALED COMMERCIAL GRADE PUSHBUTTONS

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.

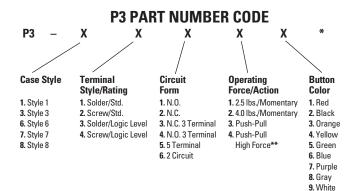
The P3 is the commercial version of the P1 Pushbutton switch, offering vastly improved life under extreme conditions found in some industrial environments. The pushbutton is sealed by a silicone boot operating on our patented "rolling sleeve," providing longer life and smoother operation over a wide 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 & CSA certified
- 1 million mechanical cycle life
- Watertight to IP68S available in all versions
- Watertight to IP69K available in non push-pull versions
- RoHS compliant



* 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.



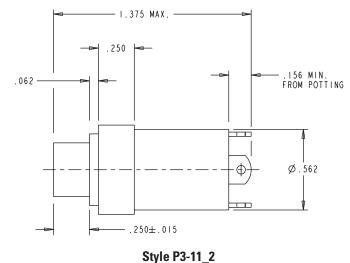


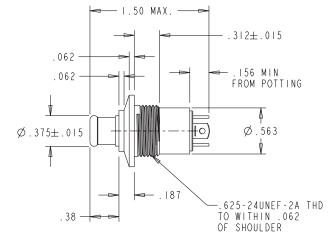
ELECTRICAL RATINGS:				
Load	Sea Level @ 28VDC or 115VAC, 60/400Hz	50,000 feet @ 28VDC or 115VAC, 60/400Hz	Cycles	
Resistive	10A	N/A	100,000	
Inductive	5A	5A	100,000	
Lamp	3A	N/A	100,000	
Center Contact	3A max	N/A	100,000	
DWV	1000Vrms	400Vrms		
Logic Level	10mA @ 5VDC	nA @ 5VDC		
Electrical Life:	25,000 or 100,000 cy High Force Push Pu	cles (depending on config Il 5,000 cycles	uration)	
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 II IP64 or IP68S on pu	••••		
Shock:	MIL-STD-202, meth	od 207		
Operating Temp Rang	ge: -55°C to +85°C, High	n Force Push Pull -40°C to	+85°C	
Operating Force:	2.5 lbs. or 4.0 lbs. Push-Pull: .5 to 2.0 l Push-Pull High Forc			
Reset Force:	0.75 lb. min or 1.0 lb			
Total Travel:	0.085 +/- 0.015 inche	28		
Overtravel:	0.012 inches min			
Movement Differenti	al: 0.015 inches min	0.015 inches min		
MATERIALS:				
Case:	Anodized aluminum	Anodized aluminum alloy		
Button:	Thermoplastic	Thermoplastic		
Terminals:	Brass with silver, g	Brass with silver, gold for logic level		
Terminal Hardware:	Screws, lockwasher	Screws, lockwasher and terminal lug for screw terminal option		
Mounting Hardware:	Hex nut, lockwashe	r and panel seal when ap	plicable	

SEALED COMMERCIAL GRADE PUSHBUTTONS

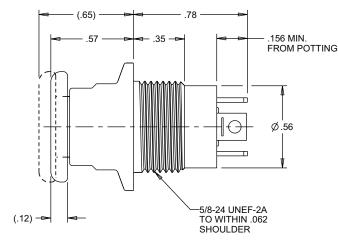
$\mathsf{P3}$ COMMERCIAL PUSHBUTTONS

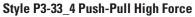
IDEAL FOR USE IN HEAVY MACHINERY & COMMERCIAL APPLICATIONS

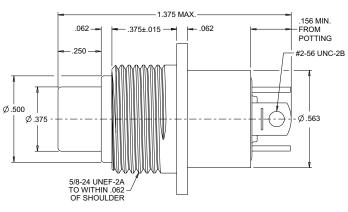




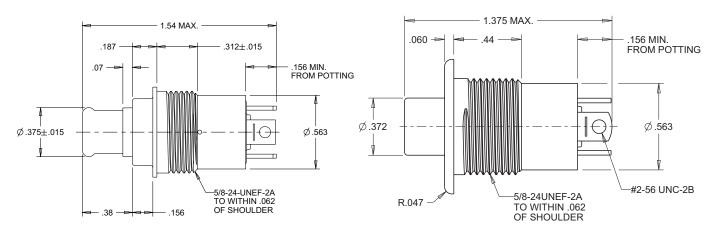
Style P3-33_3 Push-Pull







Style P3-61 1





Style P3-83_1

NOTEWORTHY DESIGNS

EXAMPLES OF CUSTOMIZED P3 SERIES SEALED PUSHBUTTONS

Special Shaped Bezel

CUSTOM PUSHBUTTONS

Total Travel: 0.085" +/- 0.015" Operating Force: 2.5, +0.5, -1.0 lb. Reset Force: 0.75 lb. min Circuit: SPNO-DB (Other circuits available) Mechanical Life: 1,000,000 cycles Button: Red nylon Housing: Clear anodized aluminum P3-30017

Special Large Round Button,

Quick Connect Tab Terminals

Circuit: SPNO-DB (Other circuits available) Mechanical Life: 1,000,000 cycles

Total Travel: 0.085" +/- 0.015"

Operating Force: 4.0 +/- 1.0 lb.

Housing: Clear anodized aluminum

Reset Force: 1.0 lb. min

Button: Black nylon

P3-30031



Special Journaled Button

Watertight to IP68S, black anodized case and thermoplastic button available in nine colors. **Circuit:** SPNO-DB **Mechanical Life:** 1,000,000 cycles **Electrical Life:** 100,000 cycles

P3-90308-X (X denotes button color)



Large Diameter Button

Nine different button colors, black anodized protective shroud, watertight to IP68S. Circuit: SPNO-DB Mechanical Life: 1,000,000 cycles Electrical Life: 100,000 cycles at full load P3-90207-X (X denotes button color)

Special "H" Case with Round Shaped Button

Operating Force: 4.0 +/- 1.0 lb. Reset Force: 1.0 lb. min Circuit: SPNC-DB (Other circuits available) Mechanical Life: 1,000,000 cycles Button: Red nylon Housing: Black anodized aluminum P3-80016

Large Diameter Button Nylon button is 1.187". Snaps on to special style body with leads. Dusttight to IP64.

Operating Force: 2.5, +0.5, -1.0 lb. Mechanical Life: 1,000,000 cycles Rating: 10 amps Resistive Circuit: SPDT 2 circuit P3-30101-X



Protective Shroud

Total Travel: 0.125" max

Reset Force: 1.0 lb. min

Operating Force: 4.0 +/- 1.0 lb.

Mechanical Life: 1,000,000 cycles Button: Black polyester

Housing: Clear anodized celenex

This pushbutton is designed to avoid accidental actuation of the switch. The shroud requires the operator to purposely operate the switch. The actuation occurs below the height of the protective shroud, thus protecting against unintentional actuation.

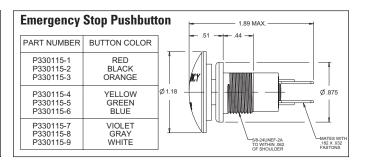
Same ratings and sealing characteristics as the standard P3 series.

SPNC is shown.

P3-90009

P3-90037





Special Right Angle, Quick Connect Tabs, P3-6 Style

Special Snap-In, Panel-Sealed,

Rectangular Shaped Button

Circuit: SPNO-DB (Other circuits available)

Total Travel: 0.085" +/- 0.015" Operating Force: 2.5, +0.5, -1.0 lb. Reset Force: 0.75 lb. min Circuit: SPN0-DB Mechanical Life: 1,000,000 cycles Button: Red nylon Housing: Clear anodized aluminum P3-60024



164 OTTO Full Line Catalog

Mouser Electronics

Authorized Distributor

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OTTO:

 P3-62122W
 P3-30022
 P3-30053
 P3-30072
 P3-30073
 P3-30100
 P3-30104
 P3-61322W
 P3-72612
 P3-90171

 P3-90177
 P3-33231W
 P3-33541
 P3-31141
 P3-61312W
 P3-90101
 P3-90131
 P390150-1
 P3-90151-5
 P3-90151-8

 P3-90170
 P3-70051-4
 P3-70051-5
 P3-70051-6
 P3-80012
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 P3-90088
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 P3-60077
 P3-60097

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