Makes and breaks every time! Less than $25 \mathrm{~m} \Omega$ contact resistance because 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 ( $120 \mathrm{~g} / 4.2 \mathrm{oz}$ ), low contact resistance ( $25 \mathrm{~m} \Omega \mathrm{max}$ ) and short contact bounce are the result of our snapaction mechanism. These characteristics provide exceptional current carrying capabilities over the life of the switch. With the optional low 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
- Less than $25 \mathrm{~m} \Omega$ contact resistance
- Positive tactile feedback
- Variety of mounting styles
- Engraved buttons \& bezels available
- UL recognized \& CSA certified
- 1 million mechanical cycle life
- Watertight to IP68S available
- RoHS/WEEE/Reach compliant


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| Standard Characteristics/Ratings: |  |  |  |
| :---: | :---: | :---: | :---: |
| ELECTRICAL RATINGS: |  |  |  |
| Load | Sea Level @ 28VDC or $115 \mathrm{VAC}, 60 / 400 \mathrm{~Hz}$ | 50,000 feet @ 28VDC or $115 \mathrm{VAC}, 60 / 400 \mathrm{~Hz}$ | 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 | 1050Vrms | 400 Vrms |  |
| Low Level | 10 mA @ 30mV max DC | peak AC |  |
| Electrical Life: See Rating Chart |  |  |  |
| $\begin{array}{ll}\text { Mechanical Life: } & 1 \text { million cycles, circuit forms } 1,2 \& 6 \\ & 100,000 \text { cycles, circuit forms } 3,4 \& 5\end{array}$ |  |  |  |
| Seal: IP64 or IP68S |  |  |  |
| Shock: MIL-STD-202, method 207 |  |  |  |
| Operating Temp Range: $-55^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |  |  |  |
| Operating Force: $\quad 2.5 \mathrm{lbs}$. or 4.0 lbs . |  |  |  |
| Reset Force: $\quad 0.75 \mathrm{lb} . \mathrm{min}$ or 1.0 lb . |  |  |  |
| Total Travel: $\quad 0.085+/-0.015$ 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 low level |  |  |  |
| Terminal Hardware: | Screws, lockwasher and terminal lug for screw terminal option |  |  |
| Mounting Hardware: Hex nut, lockwasher and panel seal when applicable |  |  |  |

COMMERCIAL
PUSHBUTTONS

## SEALED COMMERCIAL GRADE PUSHBUTTONS



Style P3-1


Style P3-3


Style P3-6


Style P3-7


Style P3-8

P3 PART NUMBER CODE

## ORDERING INFORMATION:

Select the OTTO P3 switch to match your application requirements. Combinations of features are almost unlimited.
Example: P3-31111 is style 3 case, solder terminals, standard contact rating, SPST-N.O. contact configuration, 2.5 lbs . operating force, red button. For low level switching capability, specify P3-33111.

* Add "W" suffix for watertight to IP68S.

| $X \quad X$ | * |
| :---: | :---: |
| $1$ |  |
| Operating | Button |
| Force/Action | Color |
| 1.2 .5 lbs ./Momentary | 1. Red |
| 2.4.0 lbs./Momentary | 2. Black |
| 3. Push-Pull | 3. Orange |
|  | 4. Yellow |
|  | 5. Green |
|  | 6. Blue |
|  | 7. Purple |
|  | 8. Gray |
|  | 9. White |

## Special Shaped Bezel

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


## 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: $4.0+/-1.0 \mathrm{lb}$.
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 $1.187^{\prime \prime}$. Snaps on to special style body with leads. Dusttight to IP64.
Operating Force: $2.5,+0.5,-1.0 \mathrm{lb}$.
Mechanical Life: 1,000,000 cycles
Rating: 10 amps Resistive
Circuit: SPDT 2 circuit
P3-30101-X


