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 ( $120 \mathrm{~g} / 4.2 \mathrm{oz}$ ) 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

P3 PART NUMBER CODE



앙․

## electrical ratings:

| Load | Sea Level @ 28VDC or 115VAC, $60 / 400 \mathrm{~Hz}$ | 50,000 feet @ 28VDC or 115VAC, $60 / 400 \mathrm{~Hz}$ | 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 | 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 <br> IP64 or IP68S on push-pull versions |  |  |
| Shock: | MIL-STD-202, method 207 |  |  |
| Operating Temp R | ge: $-55^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$, High Force Push Pull $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |  |  |
| Operating Force: | 2.5 lbs or 4.0 lbs . <br> Push-Pull: . 5 to 2.0 lbs . <br> 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 Differe | al: 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 Hardwa | Hex nut, lockwasher and panel seal when applicable |  |  |

[^0]
## SEALED COMMERCIAL GRADE PUSHBUTTONS



Style P3-11_2


Style P3-33_4 Push-Pull High Force

Style P3-71_3


Style P3-33_3 Push-Pull


Style P3-61_1

Style P3-83_1

## Special Shaped Bezel

Total Travel: $0.085^{\prime \prime}+/-0.015 "$
Operating Force: $2.5,+0.5,-1.0 \mathrm{lb}$.
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

Total Travel: $0.085^{\prime \prime}+/-0.015^{\prime \prime}$
Operating Force: $4.0+/-1.0 \mathrm{lb}$.
Reset Force: 1.0 lb . min
Circuit: SPNO-DB (Other circuits available)
Mechanical Life: 1,000,000 cycles
Button: Black nylon
Housing: Clear anodized aluminum
P3-30031


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

Total Travel: $0.085^{\prime \prime}+/-0.015^{\prime \prime}$
Operating Force: $2.5,+0.5,-1.0 \mathrm{lb}$.
Reset Force: 0.75 lb . min
Circuit: SPNO-DB
Mechanical Life: 1,000,000 cycles
Button: Red nylon
Housing: Clear anodized aluminum
P3-60024


## Special Snap-In, Panel-Sealed, Rectangular Shaped Button

```
Total Travel: 0.125" max
Operating Force: 4.0 +/- 1.0 lb.
Reset Force: 1.0 lb. min
Circuit: SPNO-DB (Other circuits available)
Mechanical Life: 1,000,000 cycles
Button: Black polyester
Housing: Clear anodized celenex
P3-90037
```


## Protective Shroud

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

## 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". 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


## X-ON Electronics

Largest Supplier of Electrical and Electronic Components
Click to view similar products for Pushbutton Switches category:
Click to view products by ОTTO manufacturer:
Other Similar products are found below :
8940K2012 LW1L-M1C10V-A LW1L-M1C70-A LW2L-A1C20M-GD LW2L-M1C20M-A 60324L M22-D-R-GB0/K11 M7E-HRN2 67021K512 67081K512X 701PB580 7199K101 810K12910 810KSV30B MML21EA2ADK MML21KA3ABK MML23KA3AC05K-001 MML23KW3AA01W $8418 \mathrm{~K} 2 \underline{8442 \mathrm{~K} 3} \underline{8450 \mathrm{~K} 1}$ 860K11911T01A 861901 861K11911T01A07 861K13810T00A14 861K13911 8646AB6X718UL 8646ABUL 9001KXRK 907AYY100 PMHD155A1 9533CD4+U574+U4922 95-414.000 99-450.837 99-453.837 PV3H2B0NN-341 1203MRA A22NZBGANGA A22NZBNANGA A22NZMPATRA A2PMA1X03EC56 A3A-5123-02 A3A-7140 A3A$\underline{7310}$ A3A-7340 A3U-TMW-A2C-5M A595 12037A2ULCSA ABD122N-B 1211390004


[^0]:    * 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.

