

ALTERNATE ACTION PUSHBUTTONS

P5
ALTERNATE
ACTION

SEALED AGAINST DUST & MOISTURE

The P5 Alternate Action switches match the P1, P3 and P8 Momentary Action Pushbutton models for mixed function with common panel appearance. Now you can design panels with both alternate and momentary action switches and have uniform panel appearance. The P5 features alternate action in the same pushbutton and housing configuration as the momentary P1 and P3 and as a bonus, the P5 requires less behind the panel space than the P1 and P3 momentary versions.

Push and the P5 switch turns "on." Push again and the P5 switch turns "off." Positive tactile feedback is featured so the operator is clearly aware the switch mode has been executed. The button returns to the original position after each actuation.

To guard against front panel splash and dirt, the P5 series is sealed at the button with OTTO's patented "rolling sleeve" principle. The terminals are sealed with epoxy, providing a seal against flux during wiring and behind panel dirt and moisture. The combination of sealing provides smooth operation over a wide temperature range. Watertight sealing to IP68S is available.

A vandal resistant style is available in the P5-V series. Custom housings, shrouded buttons, contact configurations and materials are available to suit your application requirements. We also provide custom button engraving with epoxy ink backfill, watertight versions and other special characteristics.

Features:

- Button sealed with "rolling sleeve" principle
- Contact area sealed at case & terminals
- Moistureproof & dusttight to IP64 & MIL-PRF-8805 Symbol 2, Symbol 3 or watertight to IP68S
- Handles logic level up to 5 amps
- Engraved buttons available
- Choice of 9 button & 3 bezel colors
- Panel appearance matches most other OTTO momentary pushbutton switches
- Unsealed construction also available
- RoHS compliant



Standard Characteristics/Ratings:

ELECTRICAL RATINGS:

Load	Sea Level @ 28VDC or 115VAC, 60/400Hz
Resistive	5A
Inductive	3A
Lamp	1A
Motor	3A
DWV	1000Vrms
Logic Level	10mA @ 5VDC

Electrical Life: 25,000 cycles at full load

Mechanical Life: 1,000,000 cycles

Seal:	Military	Commercial
Unsealed	Symbol 1	Unsealed
Dusttight	Symbol 2	IP64
Watertight	Symbol 3	IP68S

Operating Temp Range: -55°C to +85°C

Operating Force: 3.0 lbs. +1/-0.5 lb.

Total Travel: 0.180 inches max

Overtravel: 0.012 inches min

MATERIALS:

Case:	Anodized aluminum alloy
Button:	Thermoplastic
Terminals:	Brass, silver plate or gold plate for logic level
Terminal Hardware:	Terminal lugs, lockwasher and screw for screw terminal option
Mounting Hardware:	Hex nut, lockwasher and panel seal on watertight switches

P5 PART NUMBER CODE

Case Style	Terminal Style	Circuit Form/Contact Material/Grade	Seal Level	Bezel Color	Button Color
1. Style 1 3. Style 3 4. Style 4 6. Style 6	1. Solder 2. Screw (SPST only) 3. .250" Quick Connect (SPST only)	1. SPST/Silver/Commercial 2. SPST/Gold/Commercial 3. SPDT/Silver/Commercial 4. SPDT/Gold/Commercial 5. SPST/Silver/Military Grade 6. SPST/Gold/Military Grade 7. SPDT/Silver/Military Grade 8. SPDT/Gold/Military Grade	1. Unsealed 2. Dusttight 3. Watertight	1. Clear 2. Black 3. Red	1. Red 2. Black 3. Orange 4. Yellow 5. Green 6. Blue 7. Purple 8. Gray 9. White

P5-1 Series
Case Style 1
Press Fit Mount

.062
.250
.32
.95 MAX.
TERMS 1 & 2
1.16 MAX TERM 3
1
C
2
 $\varnothing .563 \text{ TYP.}$

$\varnothing .623 \pm .001$
 $\varnothing .375$
BUTTON TYP.
ALL VERSIONS
.03 TYP.
ALL TERM.
STYLES
 $\varnothing .500$

TERM. STYLE #1
CIRCUIT SPDT

P5-3 Series
Case Style 3
Bezel/Threaded
Bushing

.062
.187
.31
.45
.81 MAX.
TERMS. 1 & 2
1.02 MAX.
TERM. 3

5/8-24 UNEF-2A
TO WITHIN .062
OF SHOULDER

Ø .875
Ø .500

TERM. STYLE #1
CIRCUIT SPST

P5-6 Series
Case Style 6
5/8" Threaded
Bushing

5/8-24 UNEF-2A
 TO WITHIN .062
 OF FLANGE

.062
 .375
 .062

.70

.56 MAX.
 TERMS. 1 & 2
 .77 MAX.
 TERM. 3

Ø .875
 Ø .500

TERM. STYLE #1
 CIRCUIT SPDT