#### MOMENTARY ACTION, SEALED, SNAP-ACTION, DOUBLE BREAK

The P1 offers a mechanical life that is well beyond the 50,000 cycles required by MIL-PRF-8805. The double break switching mechanism has an incredibly fast transfer time, reducing arcing and increasing contact life. The inherent wiping action breaks welds and scrubs the contacts clean on every actuation.

The P1 switch offers vastly improved life under extreme conditions found in most military environments. Moisture proofing is accomplished in two ways. The pushbutton is sealed with a silicone boot operating on our patented "rolling sleeve," providing longer life and smoother operation over a wide temperature range. Epoxy seals protect the contacts and terminals from hostile environments and solder flux.

Watertight sealing to Commercial (IP68S) and Military (MIL-PRF-8805 Design 3) standards are available. This watertight design is also available in commercial construction as the P3 series (add "W" to your part number).

High contact force (120g/4.2 oz), low contact resistance  $(25m\Omega \text{ max initial})$  and short contact bounce result from our snapaction mechanism. These characteristics guarantee exceptional current carrying capabilities over the life of the switch. With the optional low level (gold plate) configuration, the P1 is well suited to interface directly to computers and other solid state devices.

The P1 switch is a quality precision snap-action switch designed for use in panel boards, control grips, computers, instruments, pressure switches and other hand or machine operated applications where sealed pushbutton switches are required. Its precision permits the P1 to be used as a limit switch with unique size, high electrical ratings and a wide choice of mounting styles.

## **Features:**

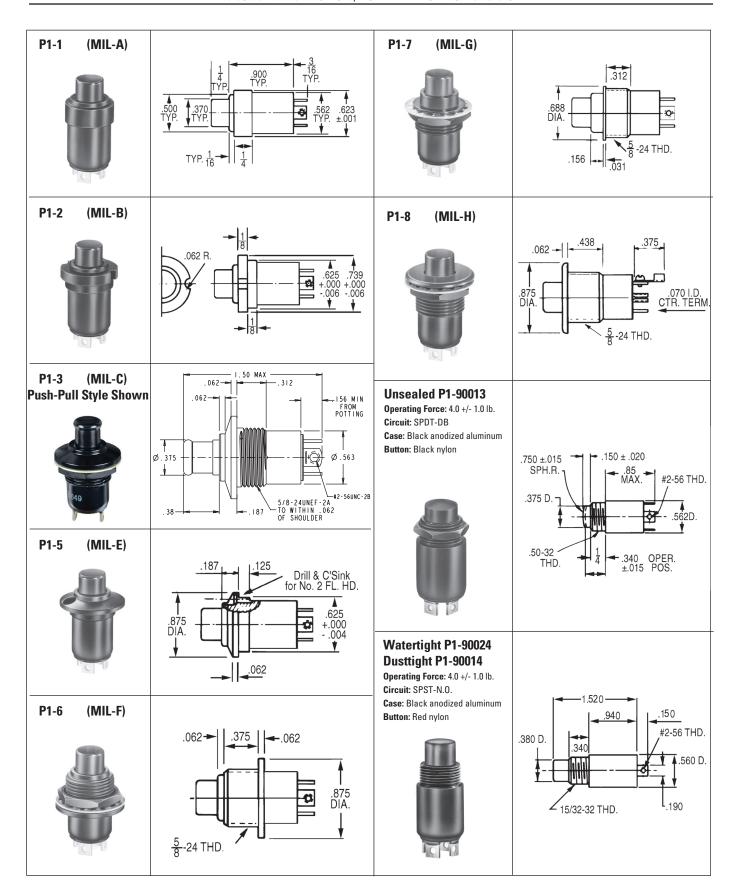
- Button sealed with patented "rolling sleeve" principle
- Contact area sealed at button & terminals
- Less than 25mΩ contact resistance
- Ideal for low level switching as well as up to 10 amp duty
- Positive tactile feedback
- Variety of mounting styles
- **Engraved buttons & bezels available**
- **UL recognized & CSA certified**
- Watertight to IP68S available
- **RoHS/WEEE/Reach compliant**



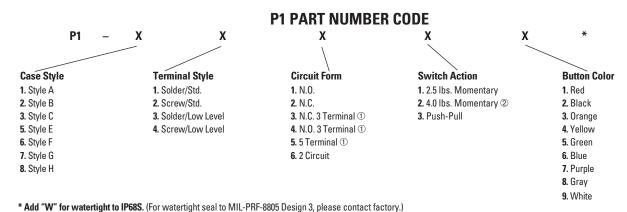


Standard Characteristics/Ratings:			
ELECTRICAL RATINGS:			
Load	Sea Level @ 28VDC or 115VAC, 60/400Hz	50,000 feet @ 28VDC or 115VAC, 60/400Hz	
Resistive	10A	N/A	
Inductive	5A	5A	
Lamp	3A	N/A	
Motor	3A	N/A	
Center Contact	3A max	N/A	
DWV	1050Vrms	400Vrms	
Low Level	10mA @ 30mV max DC or peak	mA @ 30mV max DC or peak AC	
Electrical Life:	25,000 cycles		
Mechanical Life:		50,000 cycles, circuit forms 3, 4, & 5 250,000 cycles, circuit forms 1, 2 & 6	
Seal:	MIL-PRF-8805 Design 2 or Watertight per IP68S or MIL	MIL-PRF-8805 Design 2 or Watertight per IP68S or MIL-PRF-8805 Design 3	
Operating Temp Rang	ge: -55°C to +85°C	-55°C to +85°C	
Operating Force:	2.5 lbs. or 4.0 lbs.		
Reset Force:	0.75 lb. or 1.0 lb.		
Total Travel:	0.085 +/- 0.015 inches		
Overtravel:	0.012 inches min		
Movement Differenti	Differential: 0.015 inches min		
MATERIALS:			
Case:	Black anodized aluminum alloy		
Button:	Thermoplastic	Thermoplastic	
Terminals:	Brass with silver plate, gold plate for low level		
Terminal Hardware:	Screws, lockwasher and solder lugs for screw terminal option		
Mounting Hardware:	Hex nut and lockwasher, pa	Hex nut and lockwasher, panel seal on watertight switches	

### MOMENTARY ACTION, LOW LEVEL UP TO 10 AMPS



#### MOMENTARY ACTION, LOW LEVEL UP TO 10 AMPS



- $\odot$  Circuit styles with 3 and 5 terminals have 50,000 cycle mechanical life per MIL-PRF-8805.
- ② Military standard is 4.0 lbs.

## **ORDERING INFORMATION:**

Select the OTTO P1 series switch to match your application requirements. Combinations of features are almost unlimited. When ordering, specify the Military (MS) Number and/or OTTO Part Number.

**Example:** P1-32629 is MS25089-3CW, "C" style case, 2 circuit contact configuration, 4.0 lbs. operating force, white button. For low level model, specify P1-34629, MS25089-3CWL. A partial cross reference list of Military (MS) Numbers to OTTO Part Numbers may be found in the back section of this catalog.

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67021K512 67081K512X 701PB580 7199K101 810K12910 810KSV30B MML21EA2ADK MML21KA3ABK MML23KA3AC05K-001
MML23KW3AA01W 8418K2 8442K3 8450K1 860K11911T01A 861901 861K11911T01A07 861K13810T00A14 861K13911
8646AB6X718UL 8646ABUL 9001KXRK 907AYY100 PMHD155A1 9533CD4+U574+U4922 95-414.000 99-450.837 99-453.837
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