

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. Moistureproofing 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.

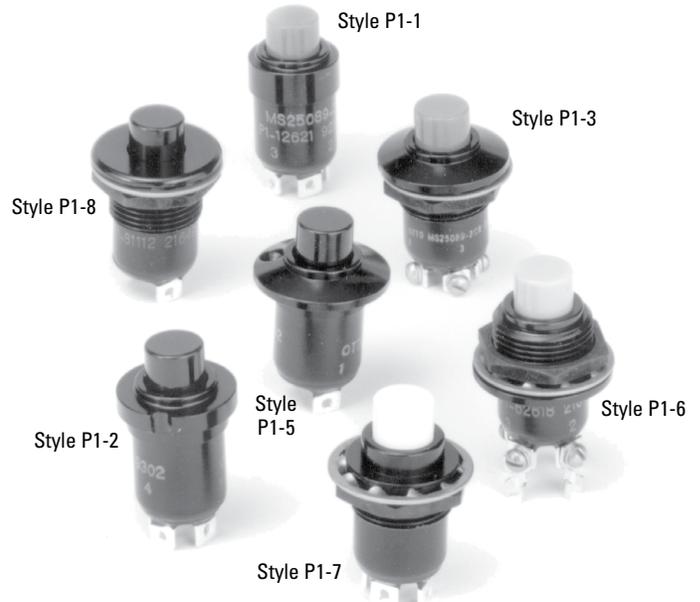
Watertight sealing to Commercial (IP68S) and Military (MIL-PRF-8805 Design 3) standards are available. This watertight design is also available in commercial construction as the P3 series (add "W" to your part number).

High contact force (120g/4.2 oz), low contact resistance (25mΩ max) and short contact bounce result from our snap-action 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:

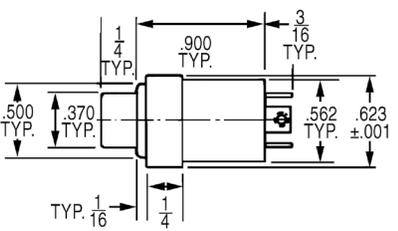
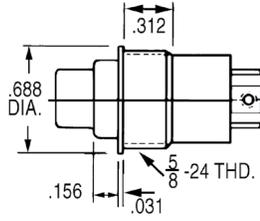
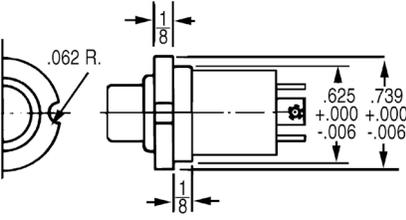
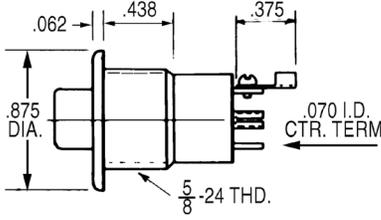
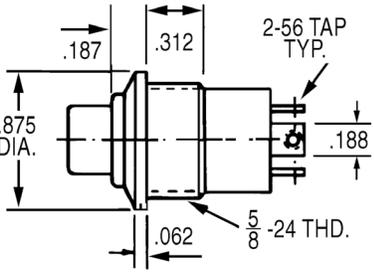
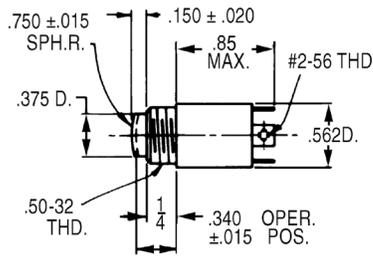
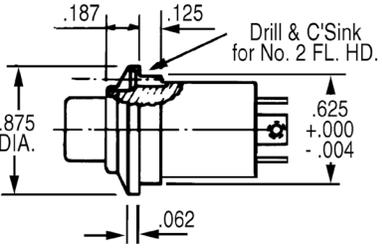
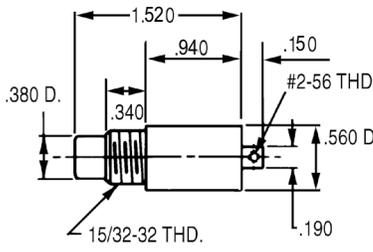
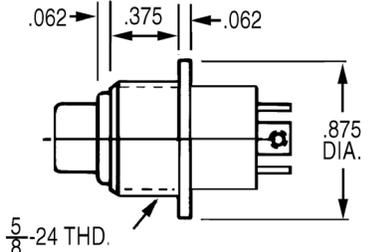
Load	Sea Level @ 28VDC or 115VAC, 60/400Hz	50,000 feet @ 28VDC or 115VAC, 60/400Hz
Resistive	10A	N/A
Inductive	5A	5A
Lamp	3A	N/A
Motor	3A	N/A
Center Contact	3A max	N/A
DWV	1050Vrms	400Vrms
Low Level	10mA @ 30mV max DC or peak AC	

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-PRF-8805 Design 3
Operating Temp Range:	-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 Differential:	0.015 inches min

MATERIALS:

Case:	Black anodized aluminum alloy
Button:	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, panel seal on watertight switches

MOMENTARY ACTION, LOW LEVEL UP TO 10 AMPS

<p>P1-1 (MIL-A)</p> 	 <p>Dimensions: $\frac{1}{4}$ TYP., .900 TYP., $\frac{3}{16}$ TYP., .500 TYP., .370 TYP., .562 TYP., .623 $\pm .001$, TYP. $\frac{1}{16}$, $\frac{1}{4}$</p>	<p>P1-7 (MIL-G)</p> 	 <p>Dimensions: .312, .688 DIA., .156, $\frac{5}{8}$-24 THD., .031</p>
<p>P1-2 (MIL-B)</p> 	 <p>Dimensions: $\frac{1}{8}$, .062 R., .625 $^{+.000}_{-.006}$, .739 $^{+.000}_{-.006}$, $\frac{1}{8}$</p>	<p>P1-8 (MIL-H)</p> 	 <p>Dimensions: .062, .438, .375, .875 DIA., $\frac{5}{8}$-24 THD., .070 I.D. CTR. TERM.</p>
<p>P1-3 (MIL-C)</p> 	 <p>Dimensions: .187, .312, 2-56 TAP TYP., .875 DIA., .188, $\frac{5}{8}$-24 THD., .062</p>	<p>Unsealed P1-90013 Operating Force: 5.0 lbs. max Circuit: SPDT-DB Case: Black anodized aluminum Button: Black nylon</p> 	 <p>Dimensions: .750 $\pm .015$ SPH.R., .150 $\pm .020$, .85 MAX., #2-56 THD., .375 D., .562 D., .50-32 THD., $\frac{1}{4}$, .340 OPER. $\pm .015$ POS.</p>
<p>P1-5 (MIL-E)</p> 	 <p>Dimensions: .187, .125, Drill & C'Sink for No. 2 FL. HD., .875 DIA., .625 $^{+.000}_{-.004}$, .062</p>	<p>Watertight P1-90024 Dusttight P1-90014 Operating Force: 4.0 +/- 1.0 lb. Circuit: SPST-N.O. Case: Black anodized aluminum Button: Red nylon</p> 	 <p>Dimensions: 1.520, .940, .150, .380 D., .340, #2-56 THD., .560 D., .190, 15/32-32 THD.</p>
<p>P1-6 (MIL-F)</p> 	 <p>Dimensions: .062, .375, .062, .875 DIA., $\frac{5}{8}$-24 THD.</p>		

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