The P7 series incorporates OTTO's patented double-break design in a significantly smaller package than the P1 series. These subminiature switches allow the switch density today's technologies require in control grips and panels.

The long life snap-action design is protected from the environment by a silicon rubber boot, operating on a "rolling sleeve" principle that gives long sealed life and smooth operation.

The P7 series is designed to meet the requirements of MIL-S-8805 including low level switching ( $10 \mathrm{~mA} @ 30 \mathrm{mV}$ ) with power switching up to 5 amps at 28 VDC as well.

A variety of mounting styles are offered to best match the application. The P7-1, P7-2, P7-7, and P7-8 Case Styles feature a swaged bushing shape to allow press-fit installation in aircraft flight control and hand grips and similar applications. The other series feature threaded bushing mounting. The P7-3 Case Style has a front panel bezel while the P7-5 and P7-6 have conventional bushings for rear panel mounted installations. Silver or black bezels are standard. Other colors available on special order.

Pushbuttons are available in a choice of nine colors. Excellent tactile feedback assures the operator that contact transfer had been made.

A choice of MIL-SPEC and commercial versions of these switches are offered: Moistureproof and dusttight to IP64 and MIL-PRF-8805 Design 2. Watertight to IP68. Watertight to MIL-PRF-8805 Design 3. Consult the ordering code to specify.

## Quality Features:

- Low level switching capability
- Low contact resistance: . 025 ohms max
- High contact pressure
- Six circuit variations
- Positive tactile feedback
- Variety of mounting styles
- Sealed against dust and moisture
- Qualified to MIL-PRF-8805/110
- Watertight IP68 available


Standard Characteristics/Ratings:

| ELECTRICAL: (at 28 VDC or $115 \mathrm{VAC}, 60 / 400 \mathrm{~Hz}$.) |  |  |
| :--- | :---: | :---: |
| LOAD | SINGLE CIRCUIT | 2-CIRCUIT |
| Resistive | 5 Amps | 4 Amps |
| Inductive | 3 Amps | 2 Amps |
| Lamp | 2 Amps | - |

Low Level Option: $\quad 30 \mathrm{mV} @ 10 \mathrm{ma}$. for 25,000 cycles

MATERIALS:

| Case: | Aluminum alloy, anodized |
| :--- | :--- |
| Button: | Thermoplastic |
| Seal: | Internal silicone rubber |
| Terminals: | The terminals are suitable for soldering |
| OPERATIONAL: |  |
| Operating Force: | 1.7 lbs. $\pm .5$ lbs. <br> Also available $120 z . \pm 40 z .$. on special order |
| Mechanical Life: | $1,000,000$ cycles |
| Electrical Life: | 25,000 cycles |
| Dielectric Withstanding: | 1050 Vrms. |
| Temperature Range: | $-55^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |



## EXAMPLES OF CUSTOMIZED P7 SEALED PUSHBUTTONS



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