## SUBMINIATURE WATERPROOF SEALED

## FEATURING OTTO B5 SERIES BASIC SWITCHES

These subminiature sealed switches are contained in a rugged aluminum housing with choice of lever, roller and plunger. Featuring the OTTO B5 series basic switch, the P6-3 series is able to switch up to 10 amperes. The high contact pressure and superior wiping action of the OTTO design also makes the P6-3 series an excellent choice when switching logic level loads.

Sealing against water and other liquids is per MIL-PRF-8805. Wire leaded models feature potted leads. The solder terminals are epoxy sealed.

## **Quality Features:**

- Compact: Only .85" w. x 1.17" h. x .32" thick
- Watertight to MIL-PRF-8805
- Choice of four actuator styles
- Choice of two termination styles
- 10 ampere switching capability
- High contact pressure for low levels
- **Precision operating points**

## P6-3 PART NUMBER CODE Actuator Terminal Mounting Serial Circuitry Style Style Holes Digit See Drawing below. 1. SPNO-DB, Form X 1. Lever 0. Special ① 1. No Holes @ **0**. 0 2. Plunger 2. SPNC-DB, Form Y 1. Solder terminals 2. 1/2" Centers except specials 3. Roller Lever 3. 1' Potted Leads 3. SPDT-SB, Form C for #4-40 Screws 4. SPDT-DB, Form Z 4. 3' Potted Leads 4. 3/8" Centers 5. 6' Potted Leads for #2-56 Screws Plunger @ ① Specials are serialized. Subsequent numbers do not specify standard features.

- 2 Overtravel model does not have mounting holes; is bushing mounted



| OPERATIONAL:                  |   |  |  |  |
|-------------------------------|---|--|--|--|
| Operating Force:              | 2.5 lbs. maximum                              |  |  |  |
| Release Force:                | 0.5 lbs. minimum                              |  |  |  |
| Movement Differential:        | 0.020 ±.010 in.                               |  |  |  |
| Pretravel:                    | 0.050 in. maximum                             |  |  |  |
| Operate Point:                | 0.406 ±.010 in.                               |  |  |  |
| Overtravel:                   | 0.012 in. minimum                             |  |  |  |
| Strength of Actuator:         | 25 lbs., typical                              |  |  |  |
| Electrical Life, at full load | : 50,000 cycles                               |  |  |  |
| Mechanical Life:              | 50,000 cycles                                 |  |  |  |
|                               |   |  |  |  |
| PHYSICAL:                     |   |  |  |  |
| Temperature Range:            | Continuous -55°C to +85°C                     |  |  |  |
| Seal:                         | Enclosure Design 3, Watertight per MIL-S-8805 |  |  |  |

| Circuitry        | Type of<br>Load | Sea Level<br>@28 VDC | 50,000 Ft.<br>@28 VDC | 125/250<br>VAC 60Hz. |
|------------------|-----------------|----------------------|-----------------------|----------------------|
| SPNO-DB          | Resistive       | 10.0 A               | 10.0 A                | 10.0 A               |
| SPNC-DB          | Inductive*      | 7.5 A                | 3.5 A                 | 5.0 A                |
| Double-Break     | Lamp            | 4.0 A                | _                     | 3.0 A                |
| *L/R = .026      |                 |                      |                       |                      |
| Minimum Current: | .04 Amperes     |                      |                       |                      |

Dielectric Strength: 1050 Volts RMS

