

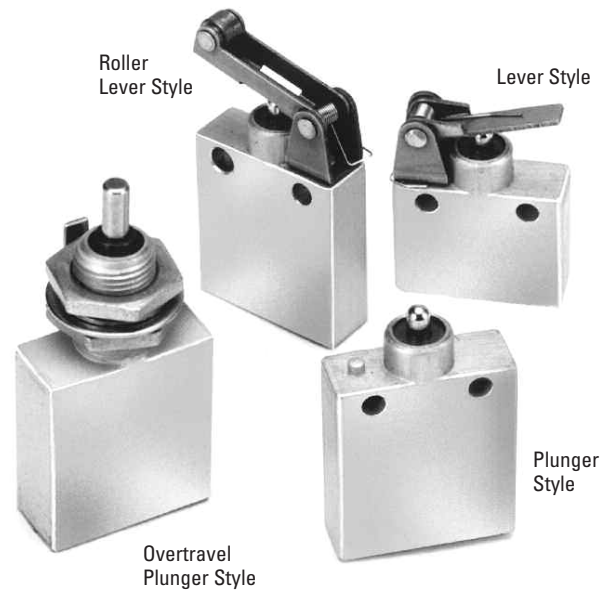
## FEATURING OTTO B5 SERIES BASIC SWITCHES

These subminiature sealed switches are contained in a rugged aluminum housing with choice of lever, roller or plunger. Featuring the B5 series basic switch, the P6-3 series is able to switch up to 10 amps. 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.

### Features:

- **Compact design**
- **Watertight to MIL-PRF-8805**
- **Choice of four actuator styles**
- **Choice of two termination styles**
- **Up to 10 amps switching capability**
- **High contact pressure for low levels**
- **Precision operating points**



### Standard Characteristics/Ratings:

| ELECTRICAL RATINGS:    |                                                 | Sea Level @ 28VDC |                    |            | 50,000 feet @ 28VDC         |            |                    |            |
|------------------------|-------------------------------------------------|-------------------|--------------------|------------|-----------------------------|------------|--------------------|------------|
| Load                   | Single Circuit N.O. or N.C.                     |                   | 2 Circuit Per Pole |            | Single Circuit N.O. or N.C. |            | 2 Circuit Per Pole |            |
| Resistive              | 10A                                             |                   | 10A                |            | 10A                         |            | 10A                |            |
| Inductive              | 7.5A                                            |                   | 5A                 |            | 3.5A                        |            | 2A                 |            |
| Motor                  | 4A                                              |                   | 2A                 |            | N/A                         |            | N/A                |            |
| DVV                    | 1000Vrms                                        |                   |                    | 500Vrms    |                             |            |                    |            |
| Electrical Life:       | 50,000 cycles                                   |                   |                    |            |                             |            |                    |            |
| Mechanical Life:       | 50,000 cycles                                   |                   |                    |            |                             |            |                    |            |
| OPERATIONAL:           | P6-31                                           | P6-32             | P6-33              | P6-34      | P6-35                       | P6-36      | P6-37              | P6-38      |
| Operating Force:       | 16 oz max                                       | 40 oz max         | 20 oz max          | 40 oz max  | 32 oz max                   | 60 oz max  | 20 oz max          | 48 oz max  |
| Release Force:         | 4 oz min                                        | 8 oz min          | 4 oz min           | 8 oz min   | 4 oz min                    | 24 oz min  | 4 oz min           | 8 oz min   |
| Movement Differential: | 0.060" max                                      | 0.020" max        | 0.060" max         | 0.020" max | 0.080" max                  | 0.035" max | 0.080" max         | 0.040" max |
| Pretravel:             | 0.125" max                                      | 0.050" max        | 0.125" max         | 0.070" max | 0.125" max                  | 0.050" max | 0.125" max         | 0.070" max |
| Overtravel:            | 0.025" min                                      | 0.012" min        | 0.025" min         | 0.187" min | 0.025" min                  | 0.012" min | 0.025" min         | 0.187" min |
| Strength of Actuator:  | 10.0 lbs.                                       | 25.0 lbs.         | 10.0 lbs.          | 25.0 lbs.  | 10.0 lbs.                   | 25.0 lbs.  | 10.0 lbs.          | 25.0 lbs.  |
| Temperature Range:     | -55°C to +85°C                                  |                   |                    |            |                             |            |                    |            |
| Seal:                  | Enclosure Design 3, watertight per MIL-PRF-8805 |                   |                    |            |                             |            |                    |            |
| MATERIALS:             |                                                 |                   |                    |            |                             |            |                    |            |
| Plunger:               | Corrosion resistant steel                       |                   |                    |            |                             |            |                    |            |
| Lever:                 | Corrosion resistant steel (where applicable)    |                   |                    |            |                             |            |                    |            |
| Mounting Hardware:     | None provided                                   |                   |                    |            |                             |            |                    |            |

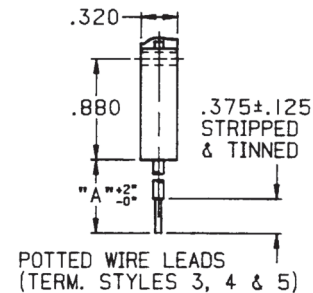
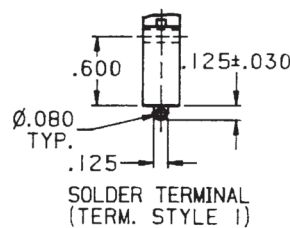
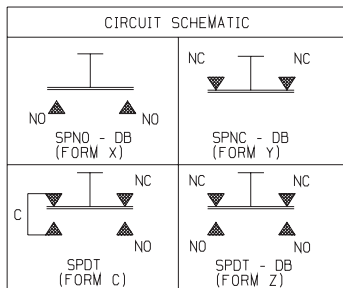
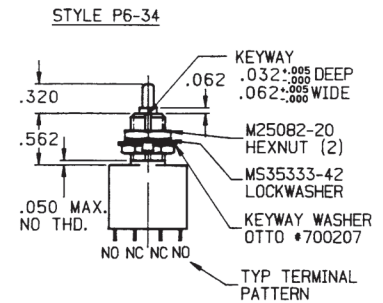
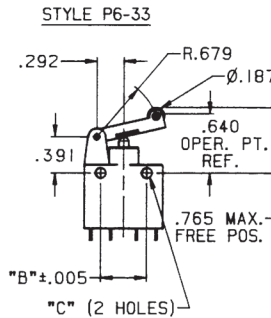
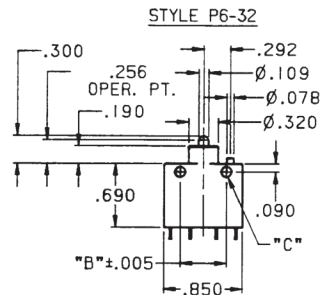
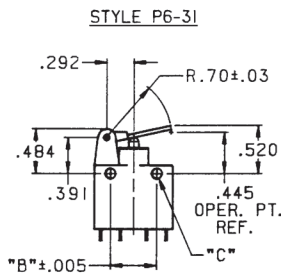
FEATURING OTTO B5 SERIES BASIC SWITCHES

## P6-3 PART NUMBER CODE

Single Pole

| Actuator Style                                                                      | Terminal Style                                                                                    | Circuitry                                                                                        | Mounting Holes (See drawing below.)                                                               | Serial Digit                            |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------|
| <b>P6-3</b><br>1. Lever<br>2. Plunger<br>3. Roller Lever<br>4. Overtravel Plunger ① | <b>X</b><br>1. Solder Terminals<br>2. 1' Potted Leads<br>3. 3' Potted Leads<br>5. 6' Potted Leads | <b>X</b><br>1. SPNO-DB, Form X<br>2. SPNC-DB, Form Y<br>3. SPDT-SB, Form C<br>4. SPDT-DB, Form Z | <b>X</b><br>1. No Holes ①<br>2. 1/2" Centers for #4-40 Screws<br>4. 3/8" Centers for #2-56 Screws | <b>X</b><br>0. 0 Except for<br>Specials |

① Overtravel model does not have mounting holes; it is bushing mounted.



| POTTED WIRE LEADS | MOUNTING HOLES: | DIM.<br>"B" CNTRS.          | DIM.<br>"C" DIA. |
|-------------------|-----------------|-----------------------------|------------------|
| STYLE             | "A" DIM.        |                             |                  |
| 3                 | 12"             | CODE 2 FOR 4-40 SCREWS .500 | .112             |
| 4                 | 36"             | CODE 4 FOR 2-56 SCREWS .375 | .086             |
| 5                 | 72"             |                             |                  |

# P6-3

## LIMIT SWITCHES

### P6-3 PART NUMBER CODE

**P6-3**

**X**

**X**

**X**

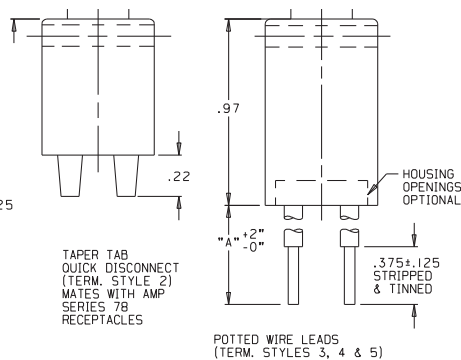
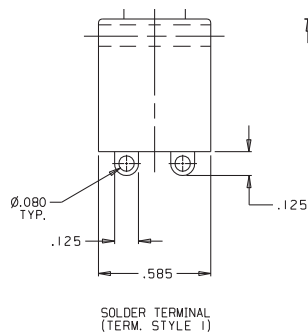
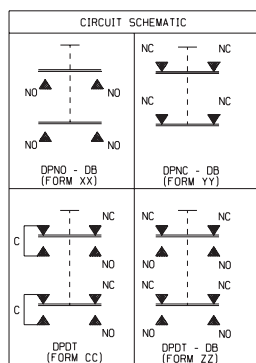
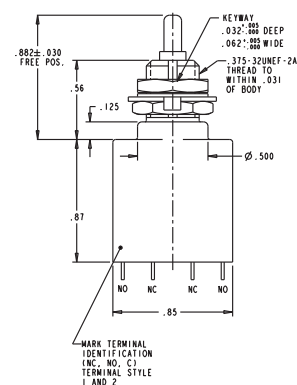
**X**

**X**

## Serial Digit

- 0.0 Except for  
Specials**

STYLE P6-38



| POTTED WIRE LEADS |          | MOUNTING HOLES:        |  | DIM.<br>"B" CNTRS. | DIM.<br>"C" DIA. |
|-------------------|----------|------------------------|--|--------------------|------------------|
| STYLE             | "A" DIM. |                        |  |                    |                  |
| 3                 | 12"      | CODE 2 FOR 4-40 SCREWS |  | .500               | .112             |
| 4                 | 36"      | CODE 4 FOR 2-56 SCREWS |  | .375               | .086             |
| 5                 | 72"      |                        |  |                    |                  |

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