

# SUBMINIATURE WATERTIGHT SEALED

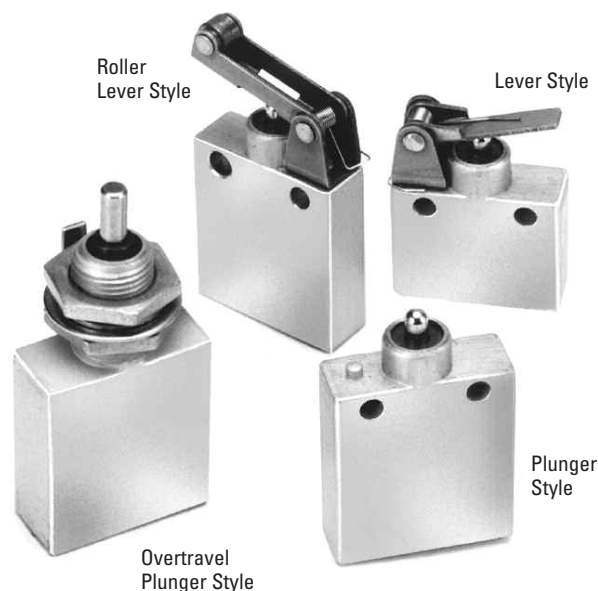
FEATURING OTTO B5 SERIES BASIC SWITCHES

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**

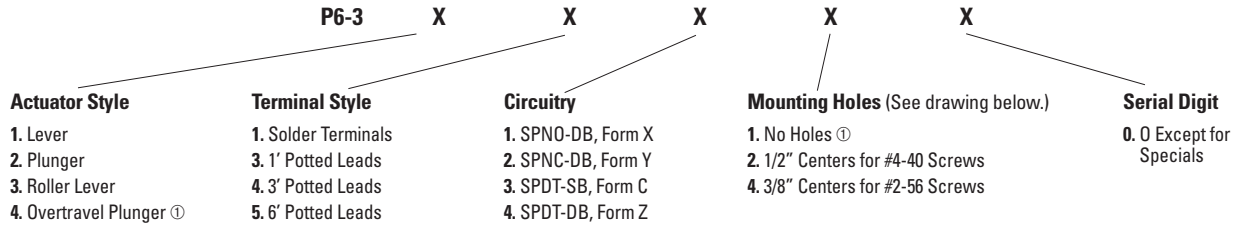


Standard Characteristics/Ratings:								
ELECTRICAL RATINGS:	Sea Level @ 28VDC				50,000 feet @ 28VDC			
	Single Circuit N.O. or N.C.	2 Circuit Per Pole	Single Circuit N.O. or N.C.	2 Circuit Per Pole	Single Circuit N.O. or N.C.	2 Circuit Per Pole	Single Circuit N.O. or N.C.	2 Circuit Per Pole
Resistive	10A	10A	10A	10A	10A	10A	10A	10A
Inductive	7.5A	5A	3.5A	2A	3.5A	2A	N/A	N/A
Motor	4A	2A	N/A	N/A	N/A	N/A	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



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

**STYLE P6-31**

**STYLE P6-32**

**STYLE P6-33**

**STYLE P6-34**

**CIRCUIT SCHEMATIC**

<p>SPNO - DB (FORM X)</p>	<p>SPNC - DB (FORM Y)</p>
<p>SPDT - SB (FORM C)</p>	<p>SPDT - DB (FORM Z)</p>

SOLDER TERMINAL  
(TERM. STYLE 1)

POTTED WIRE LEADS  
(TERM. STYLES 3, 4 & 5)

POTTED WIRE LEADS	
STYLE	"A" DIM.
3	12"
4	36"
5	72"

MOUNTING HOLES:		DIM. "B" CNTRS.	DIM. "C" DIA.
CODE 2 FOR 4-40 SCREWS		.500	.112
CODE 4 FOR 2-56 SCREWS		.375	.086

# SUBMINIATURE WATERTIGHT SEALED

**P6-3**  
LIMIT SWITCHES

FEATURING OTTO B5 SERIES BASIC SWITCHES

## P6-3 PART NUMBER CODE

Double Pole

P6-3 X X X X X X

### Actuator Style

- 5. Lever
- 6. Plunger
- 7. Roller Lever
- 8. Overtravel Plunger ①

### Terminal Style

- 1. Solder Terminals
- 2. Taper Tab, Quick Disconnect
- 3. 1' Potted Leads
- 4. 3' Potted Leads
- 5. 6' Potted Leads

### Circuitry

- 1. DPNO-DB, Form XX
- 2. DPNC-DB, Form YY
- 3. DPDT, Form CC
- 4. DPDT-DB, Form ZZ

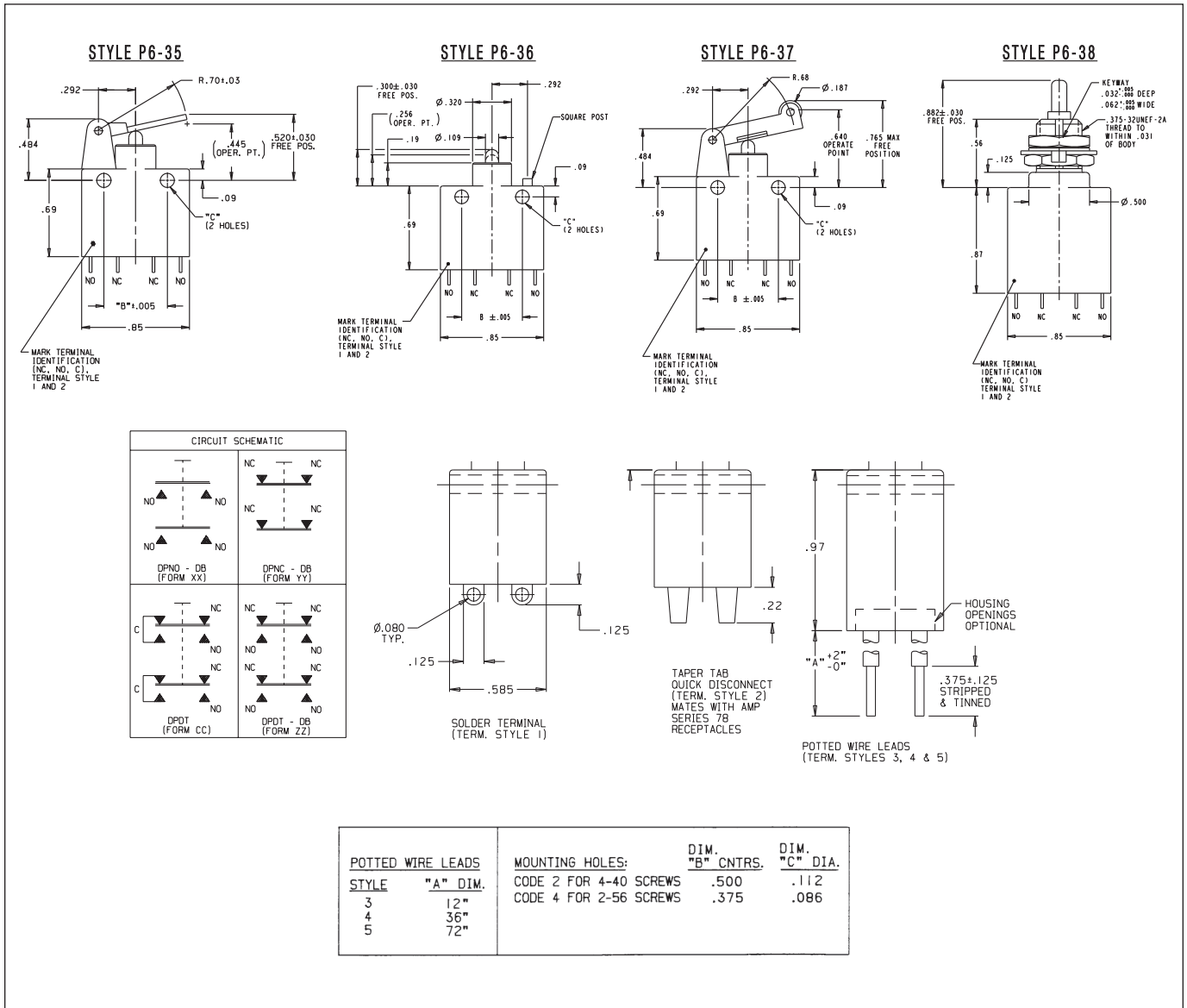
### Mounting Holes (See drawing below.)

- 1. No Holes ①
- 2. 1/2" Centers for #4-40 Screws
- 4. 3/8" Centers for #2-56 Screws

### Serial Digit

- 0. 0 Except for Specials

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



LIMIT SWITCHES