

SUBMINIATURE WATERTIGHT SEALED

P6-3
LIMIT
SWITCHES

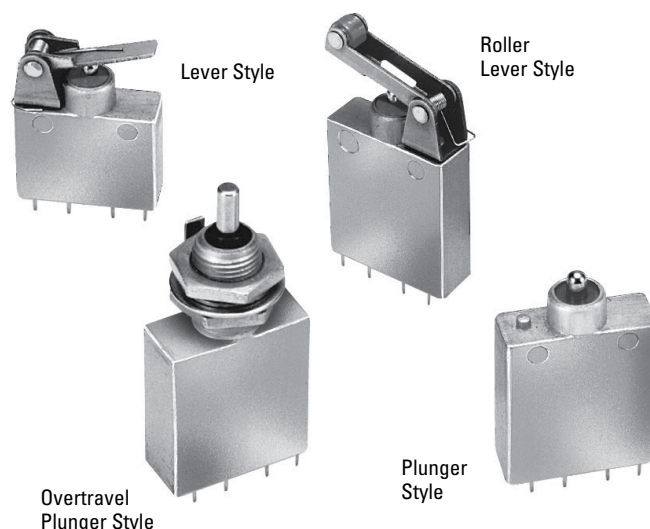
FEATURING OTTO B5 SERIES BASIC SWITCHES

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 wire lead or solder termination styles**
- **Up to 10 amps switching capability**
- **High contact pressure for low levels**
- **Precision operating points**
- **Reach compliant**



LIMIT SWITCHES

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			
DWV	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							

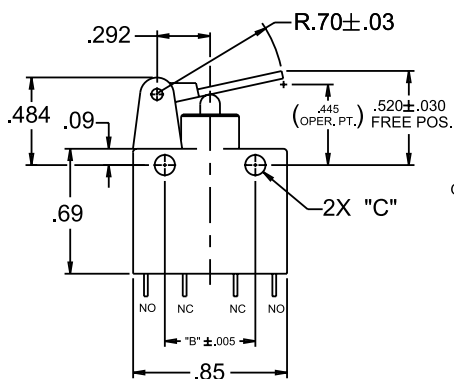
FEATURING OTTO B5 SERIES BASIC SWITCHES

P6-3 PART NUMBER CODE

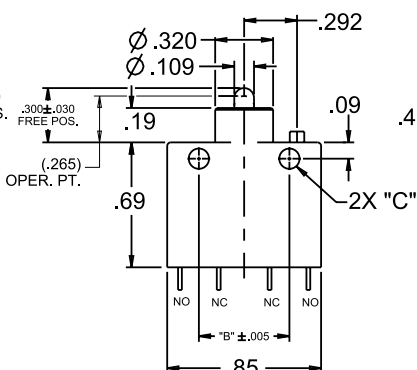
Single Pole

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

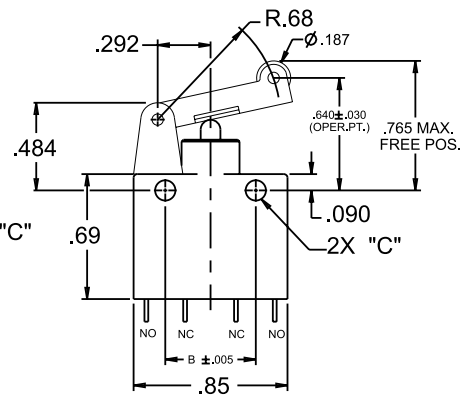
STYLE P6-31



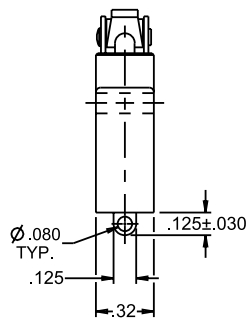
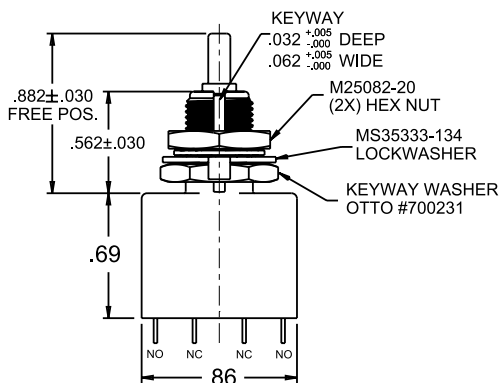
STYLE P6-32



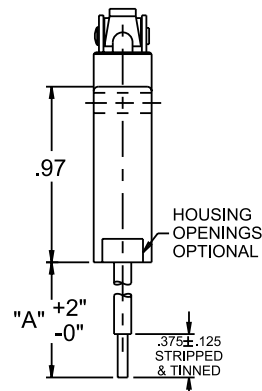
STYLE P6-33



STYLE P6-34



**SOLDER TERMINAL
(TERM. STYLE 1
EXAMPLE)**



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

CIRCUIT SCHEMATIC	
SPNO - DB (FORM X)	SPNC - DB (FORM Y)
SPDT - SB (FORM C)	SPDT - DB (FORM Z)

<u>POTTED WIRE LEADS</u>		<u>DIM "B" CNTRS.</u>	<u>DIM "C" DIA.</u>
<u>STYLE</u>	<u>DIM "A"</u>		
3	12"		
4	36"		
5	72"		

<u>MOUNTING HOLES:</u>		<u>DIM "B" CNTRS.</u>	<u>DIM "C" DIA.</u>
<u>CODE 2 FOR 4-40 SCREWS</u>		.500	Ø.112 ± .003
<u>CODE 4 FOR 2-56 SCREWS</u>		.375	Ø.089 ± .003

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

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

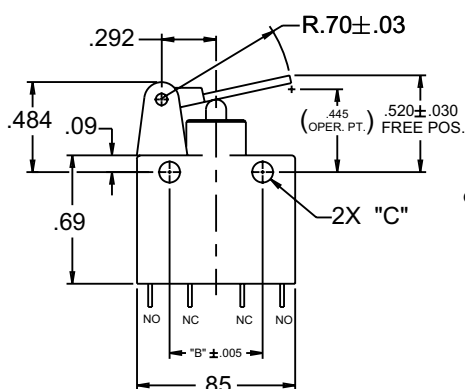
Mounting Holes (See drawing below.)

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

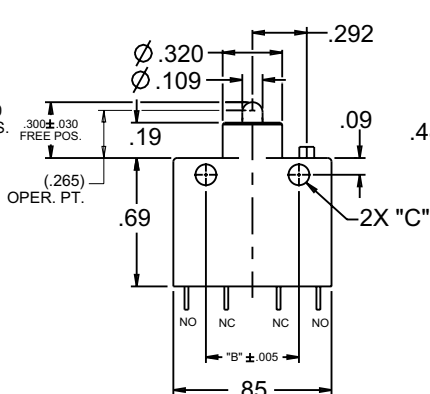
Serial Digit

0. 0 Except for Specials

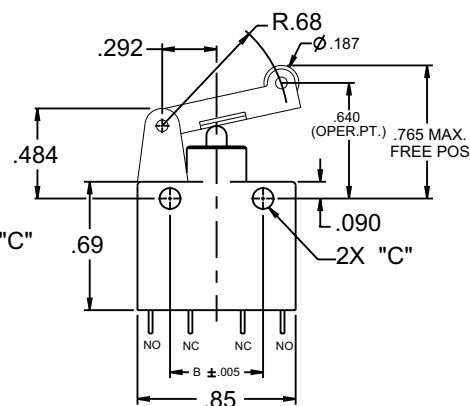
STYLE P6-35



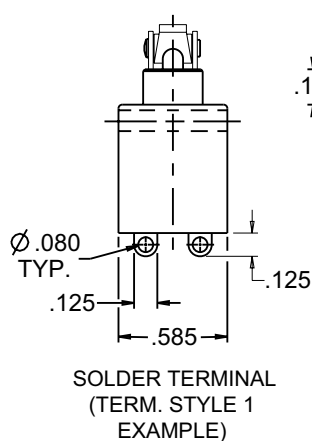
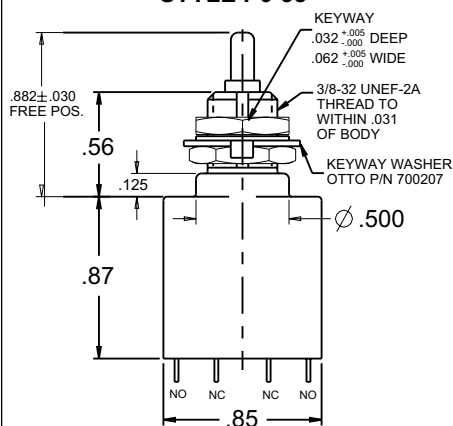
STYLE P6-36



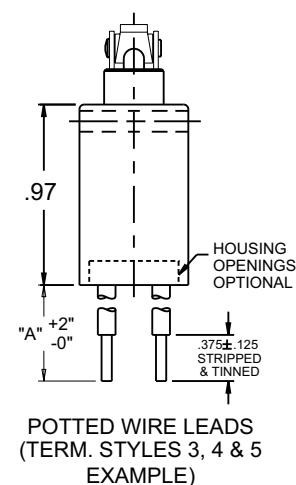
STYLE P6-37



STYLE P6-38

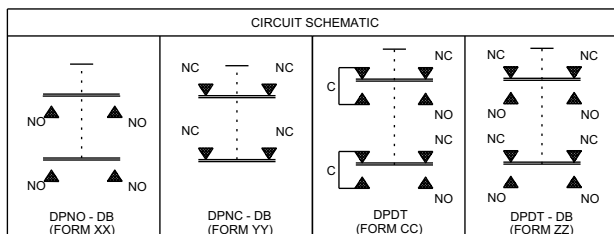


TAPER TAB
QUICK DISCONNECT
(TERM. STYLE 2
EXAMPLE)
MATES WITH AMP
SERIES 78
RECEPTACLES



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

CIRCUIT SCHEMATIC



POTTED WIRE LEADS

STYLE	DIM "A"
3	12"
4	36"
5	72"

MOUNTING HOLES:

CODE 2 FOR 4-40 SCREWS
CODE 4 FOR 2-56 SCREWS

DIM "B" CNTRS.	DIM "C" DIA.
.500	Ø.112 ± .003
.375	Ø.089 ± .003