

SERIES 34A Miniature Toggle Switches

FEATURES

- Save Space and Weight
- SPDT, DPDT, 3PDT, and 4DPT Circuitry
- Choice of Actuators, Bushings and Terminations
- UL Recognized

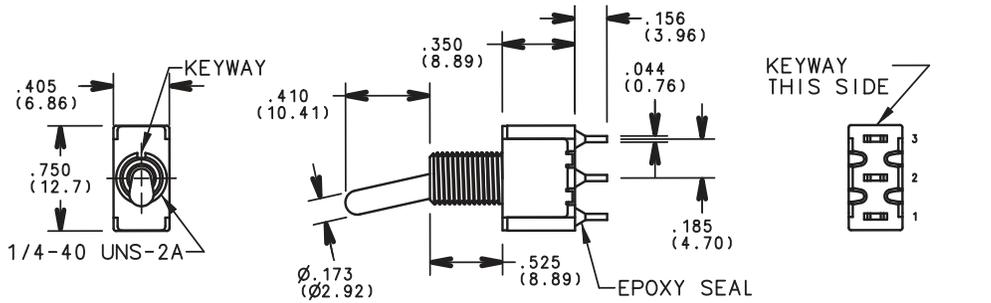


MODELS in inches (and millimeters)

SPDT

| MODEL NO. | SWITCH POSITION | | |
|-------------|-----------------|------|------|
| SP1 | ON | NONE | ON |
| SP2 | ON | NONE | (ON) |
| SP3 | ON | OFF | ON |
| SP4 | (ON) | OFF | (ON) |
| SP5 | ON | OFF | (ON) |
| TERM. COMM. | 2-3 | OPEN | 2-1 |

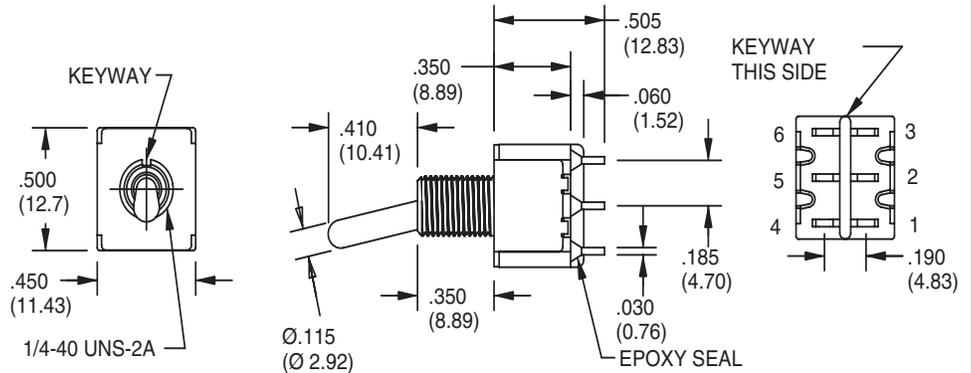
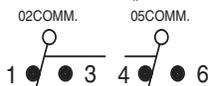
()=MOMENTARY



DPDT

| MODEL NO. | SWITCH POSITION | | |
|-------------|-----------------|------|----------|
| DP1 | ON | NONE | ON |
| DP2 | ON | NONE | (ON) |
| DP3 | ON | OFF | ON |
| DP4 | (ON) | OFF | (ON) |
| DP5 | ON | OFF | (ON) |
| TERM. COMM. | 2-3, 5-6 | OPEN | 2-1, 5-4 |

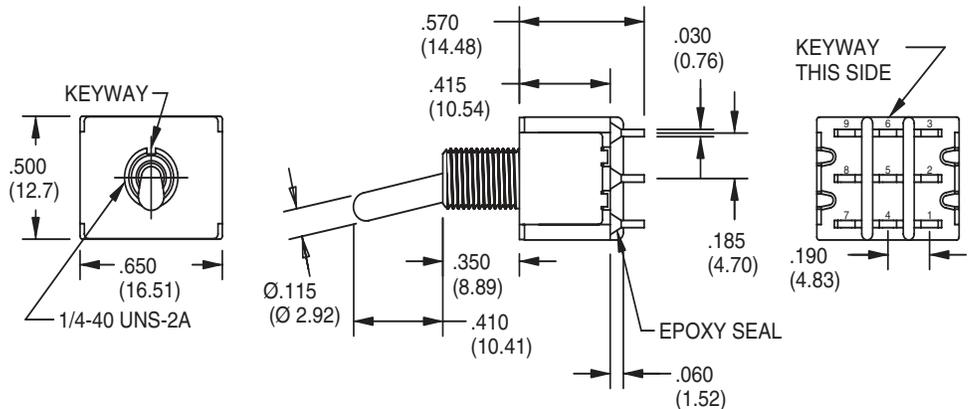
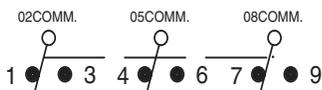
()=MOMENTARY



3PDT

| MODEL NO. | SWITCH POSITION | | |
|-------------|-----------------|------|--------------|
| 3P1 | ON | NONE | ON |
| 3P2 | ON | NONE | (ON) |
| 3P3 | ON | OFF | ON |
| 3P4 | (ON) | OFF | (ON) |
| 3P5 | ON | OFF | (ON) |
| TERM. COMM. | 2-3,5-6, 8-9 | OPEN | 2-1,5-4, 8-7 |

()=MOMENTARY



MODELS in inches (and millimeters)

4PDT

| MODEL NO. | SWITCH POSITION | | |
|-------------|----------------------|------|----------------------|
| | ON | NONE | ON |
| 4P1 | ON | NONE | ON |
| 4P2 | ON | NONE | (ON) |
| 4P3 | ON | OFF | ON |
| 4P4 | (ON) | OFF | (ON) |
| 4P5 | ON | OFF | (ON) |
| TERM. COMM. | 2-3,5-6 8-9,11-12 | OPEN | 2-1,5-4 8-7,11-10 |

()=MOMENTARY

02COMM. 05COMM. 08COMM. 011COMM.

SCALE:1.5:1

KEYWAY THIS SIDE

SCHEMATIC

ACTUATOR OPTIONS in inches (and millimeters)

| | | | | |
|---|--|--|-----------------------------|--|
| <p>1 Std</p> | <p>2</p> | <p>3</p> | <p>4</p> | <p>5</p> |
| <p>6</p> <p>Use with Bushing Options T1, T2, T5 and T6 only.</p> | <p>7</p> <p>Use T7 Bushing Option only.</p> | <p>8</p> <p>Use T7 Bushing Option only.</p> | <p>9 Nylon Black</p> | <p>L THD. (STD.) N NON-THD</p> <p>Use B1 & B2 bushing option only. Bushing dimension is .315</p> |

Actuators 1-5 shown with standard B1 bushing. Add .070 (1.78) for B3, subtract .020 (0.51) for B6 bushing.

BUSHING OPTIONS in inches (and millimeters)

| | | | |
|--|--|-------------------------------|------------------------------|
| <p>B1 Thd (Std) B2 Non-Thd</p> | <p>B3 Thd B4 Non-Thd</p> | <p>B5 High Torque</p> | <p>B6 High Torque</p> |
| <p>B7 Long</p> | <p>B8 Metric</p> | <p>B9 Splash-Proof</p> | |
| <p>T1 Thd (Std) T2 Non-Thd</p> | <p>T5 Thd (Std) T6 Non-Thd</p> | <p>T7</p> | |

PANEL MOUNTING in inches (and millimeters)

| | | |
|------------------------------|--|--|
| <p>1/4" BUSHING</p> | | |
| <p>15/32" BUSHING</p> | | |
| <p>METRIC BUSHING</p> | | |

TERMINATION OPTIONS in inches (and millimeters)

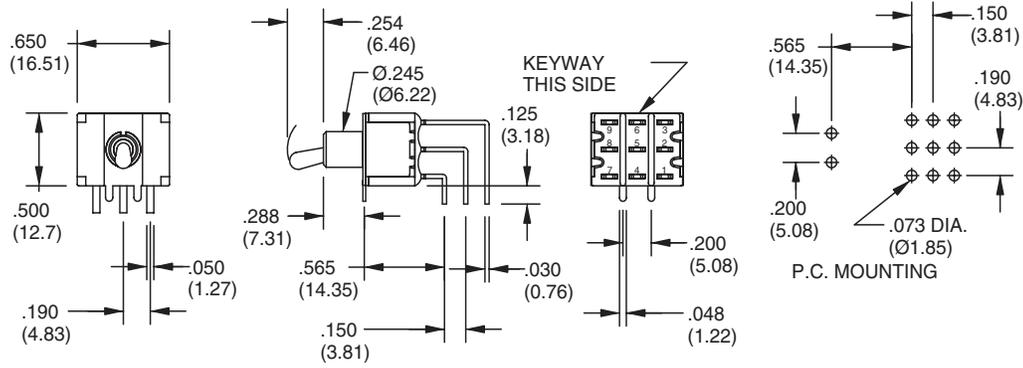
| <p>M1 Solder Lug (Std)</p> | <p>M2 P.C. Mount</p> | <p>M3 P.C. Mount, Quick Connect</p> | <p>WX</p> <table border="1"> <thead> <tr> <th>OPTION CODE</th> <th>DIM."A"</th> </tr> </thead> <tbody> <tr> <td>W1</td> <td>.750(19.05)</td> </tr> <tr> <td>W2</td> <td>.964(24.48)</td> </tr> <tr> <td>W3</td> <td>.425(10.80)</td> </tr> <tr> <td>W4</td> <td>1.062(26.97)</td> </tr> </tbody> </table> <p>WIRE WRAP</p> | OPTION CODE | DIM."A" | W1 | .750(19.05) | W2 | .964(24.48) | W3 | .425(10.80) | W4 | 1.062(26.97) |
|---|-----------------------------|--|---|-------------|---------|----|-------------|----|-------------|----|-------------|----|--------------|
| OPTION CODE | DIM."A" | | | | | | | | | | | | |
| W1 | .750(19.05) | | | | | | | | | | | | |
| W2 | .964(24.48) | | | | | | | | | | | | |
| W3 | .425(10.80) | | | | | | | | | | | | |
| W4 | 1.062(26.97) | | | | | | | | | | | | |
| <p>M6 Right Angle P.C. Mount, Horizontal Actuation</p> | | | | | | | | | | | | | |
| <p>M7 Right Angle P.C. Mount, Vertical Actuation</p> | | | | | | | | | | | | | |

Toggle Switches

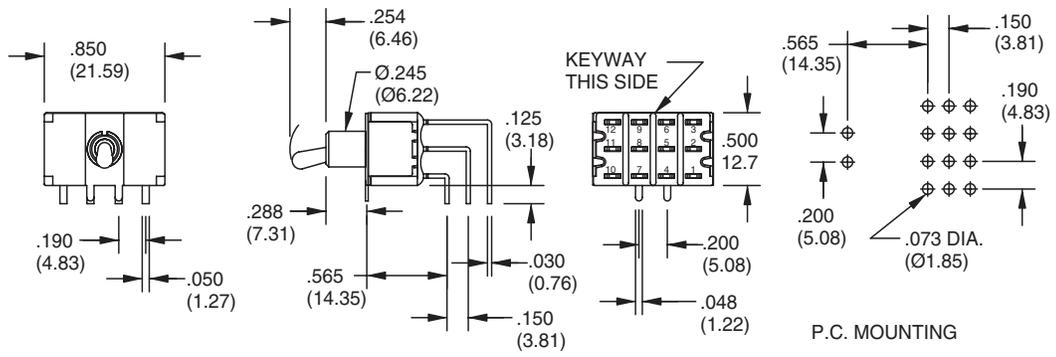
TERMINATION OPTIONS in inches (and millimeters)

M7 Right Angle P.C. Mount, Vertical Actuation

3PDT

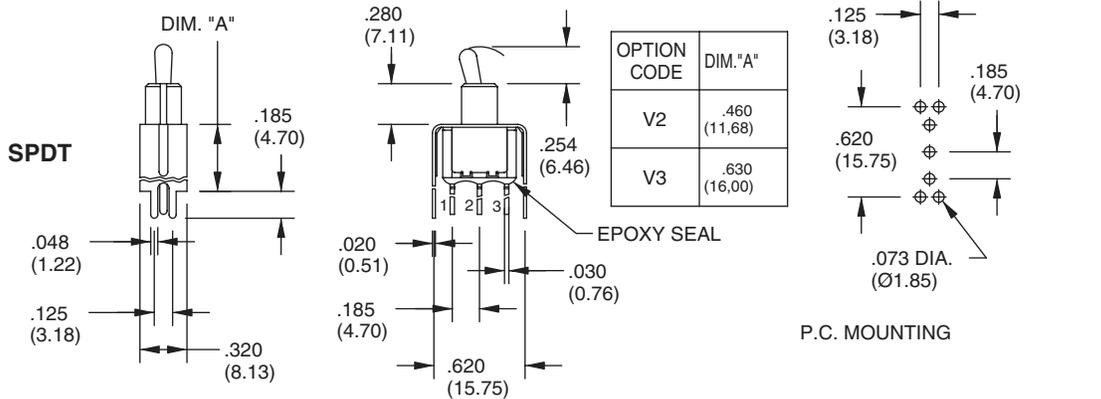


4PDT

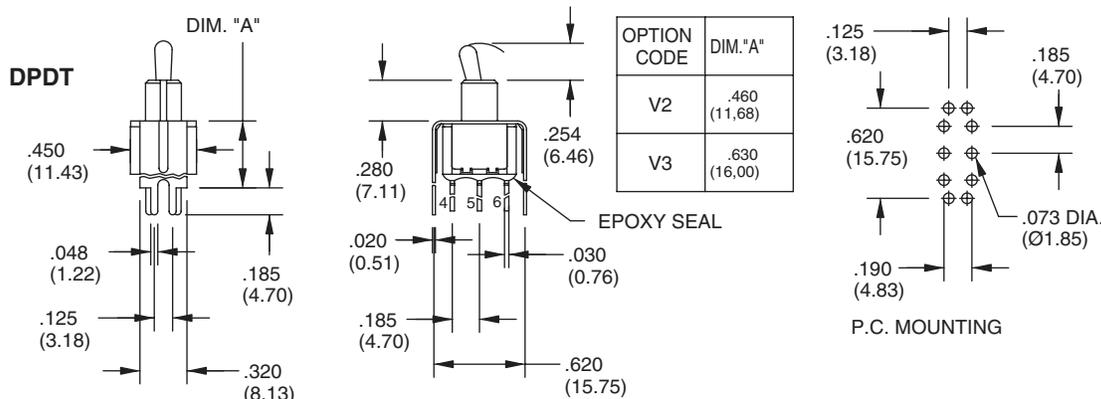


V2-V3 Vertical Bracket P.C. Mount

SPDT



DPDT



SPECIFICATIONS

RATINGS

Contact Rating: Q option - 5A with resistive load @ 125VAC or 28 VDC; 2A with resistive load @ 250 VAC. R option-0.4 VA max @ 20 Vmax (AC or DC)

Electrical Life: 40,000 make-and-break cycles at full load

Contact Resistance: 10 milliohms max. initial @ 2-4 VDC, 100 mA for both gold & silver contacts

Insulation Resistance: 1,000 megaohms minimum

Dielectric Strength: 1,000 V RMS @ sea level

Operating Temperature: -30°C to 85°C

UL Recognition: File number is E35289

MATERIALS

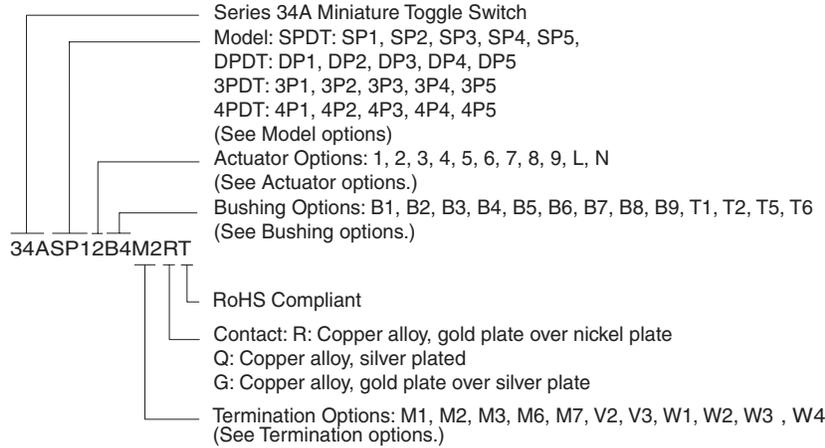
Case: Diallyl phthalate (DAP) (UL94V-0)

Toggle Handle: Brass, chrome-plated

Bushing: Brass, nickle-plated

Housing: Stainless steel

ORDERING INFORMATION



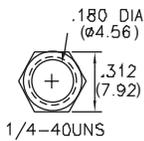
Available from your local Grayhill Component Distributor.

For prices and discounts, contact a local Sales Office, an authorized local Distributor or Grayhill.

HARDWARE in inches (and millimeters)

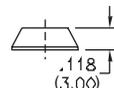
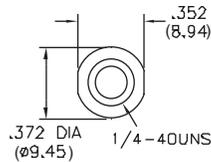
NUTS

Series 34A (Std)



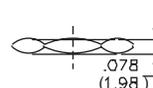
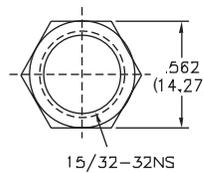
HDW2

Dress Nut



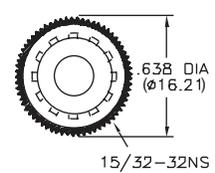
HDW3

For Actuator Options 7, 8 (Std)



HDW4

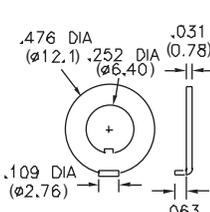
Knurled Nut (Sealed)



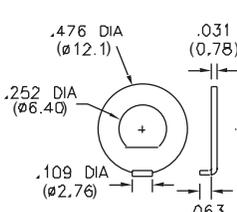
HDW5

LOCKING RINGS

Series 34A (Std)

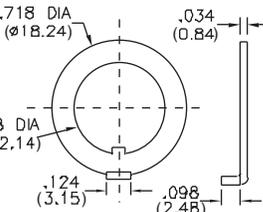


HDW15



HDW16

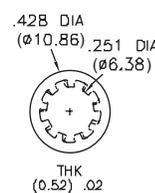
For Actuator Options 7, 8



HDW17

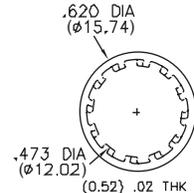
LOCK WASHERS

Series 34A (Std)



HDW11

For Actuator Options 7, 8



HDW12