

# Toggle Switches

## Miniature



### Specifications:

|                               |                                                  |
|-------------------------------|--------------------------------------------------|
| Contact rating                | : Dependent upon contact material                |
| Mechanical life               | : 40,000 make and break cycles                   |
| Maximum contact resistance    | : 10 mΩ                                          |
| Initial voltage               | : 2 to 4 V dc                                    |
| Current                       | : 10 mA for both silver and gold plated contacts |
| Minimum Insulation resistance | : 1,000 MΩ                                       |
| Dielectric strength           | : 1,000 Vrms at sea level                        |
| Operating temperature         | : -30°C to 85°C                                  |

### Materials:

|                  |                                    |
|------------------|------------------------------------|
| Case             | : Diallylphthalate (DAP) (UL94v-0) |
| Actuator         | : Brass, chrome plated             |
| Bushing          | : Brass, nickel plated             |
| Housing          | : Stainless steel                  |
| Switch support   | : Brass, tin plated                |
| Terminal/contact | : Silver or gold plated            |

### Switch Function

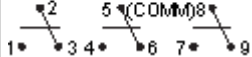
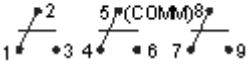
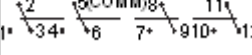
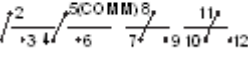
| Number of Poles | UL/CSA Model Numbers | Model Number | Switch Function |            |            | Connected Terminals/Schematic |            |                |
|-----------------|----------------------|--------------|-----------------|------------|------------|-------------------------------|------------|----------------|
|                 |                      |              | Position 1      | Position 2 | Position 3 | Position 1                    | Position 2 | Position 3     |
|                 |                      |              |                 |            |            |                               |            |                |
| SP              | Q1111                | 1MS1         | On              | None       | ON         | 2 to 3                        | N/A        | 2 to 1         |
|                 | Q1112                | 1MS2         |                 |            | MOM        |                               |            |                |
|                 | Q1113                | 1MS3         | MOM             | Off        | ON         |                               | Open       |                |
|                 | Q1114                | 1MS4         |                 |            | MOM        |                               |            |                |
|                 | Q1115                | 1MS5         |                 |            | MOM        |                               |            |                |
| DP              | Q1121                | 1MD1         | On              | None       | ON         | 2 to 3, 5 to 6                | N/A        | 2 to 1, 5 to 4 |
|                 | Q1122                | 1MD2         |                 |            | MOM        |                               |            |                |
|                 | Q1123                | 1MD3         | MOM             | Off        | ON         |                               | Open       |                |
|                 | Q1124                | 1MD4         |                 |            | MOM        |                               |            |                |
|                 | Q1125                | 1MD5         |                 |            | MOM        |                               |            |                |

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### Switch Function

| Number of Poles | UL/CSA Model Numbers | Model Number | Switch Function                                                                   |                                                                                   |                                                                                   | Connected Terminals/Schematic                                                        |                                                                                     |                                                                                       |
|-----------------|----------------------|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                 |                      |              | Position 1                                                                        | Position 2                                                                        | Position 3                                                                        | Position 1                                                                           | Position 2                                                                          | Position 3                                                                            |
|                 |                      |              |  |  |  |     |  |    |
| DP              | Q1126                | 1MD6         | On                                                                                | On                                                                                | On                                                                                | 2 to 3, 5 to 6                                                                       | 2 to 3, 5 to 4                                                                      | 2 to 1, 5 to 4                                                                        |
|                 | Q1127                | 1MD7         | MOM                                                                               |                                                                                   | MOM                                                                               |                                                                                      |                                                                                     |                                                                                       |
|                 | Q1128                | 1MD8         | On                                                                                |                                                                                   | None                                                                              |                                                                                      |                                                                                     |                                                                                       |
| 3P              | Q1131                | 1M31         |                                                                                   | MOM                                                                               |                                                                                   |                                                                                      |                                                                                     |                                                                                       |
|                 | Q1132                | 1M32         |                                                                                   | Off                                                                               | On                                                                                |    | Open                                                                                |    |
|                 | Q1133                | 1M33         |                                                                                   |                                                                                   | MOM                                                                               |                                                                                      |                                                                                     |                                                                                       |
|                 | Q1134                | 1M34         |                                                                                   |                                                                                   | MOM                                                                               |                                                                                      |                                                                                     |                                                                                       |
| Q1135           | 1M35                 | On           | None                                                                              | On                                                                                | 2 to 3, 5 to 6, 8 to 9, 11 to 12                                                  |                                                                                      | 2 to 1, 5 to 4, 8 to 7, 11 to 10                                                    |                                                                                       |
| 4P              | Q1141                |              |                                                                                   | 1M41                                                                              |                                                                                   |                                                                                      |                                                                                     | MOM                                                                                   |
|                 | Q1142                |              | 1M42                                                                              | Off                                                                               | On                                                                                |  |                                                                                     |  |
|                 | Q1143                |              | 1M43                                                                              |                                                                                   | MOM                                                                               |                                                                                      |                                                                                     |                                                                                       |
|                 | Q1144                |              | 1M44                                                                              |                                                                                   | MOM                                                                               |                                                                                      |                                                                                     |                                                                                       |
|                 | Q1145                | 1M45         | On                                                                                | On                                                                                | 2 to 3, 5 to 6, 8 to 9, 11 to 12                                                  | 2 to 3, 5 to 4, 8 to 9, 11 to 10                                                     | 2 to 1, 5 to 4, 8 to 7, 11 to 10                                                    |                                                                                       |
|                 | Q1146                | 1M46         |                                                                                   |                                                                                   |                                                                                   |                                                                                      |                                                                                     | MOM                                                                                   |
|                 | Q1147                | 1M47         |                                                                                   |                                                                                   |                                                                                   |                                                                                      |                                                                                     | MOM                                                                                   |
| Q1148           | 1M48                 | On           |                                                                                   |                                                                                   |                                                                                   |                                                                                      |                                                                                     |                                                                                       |

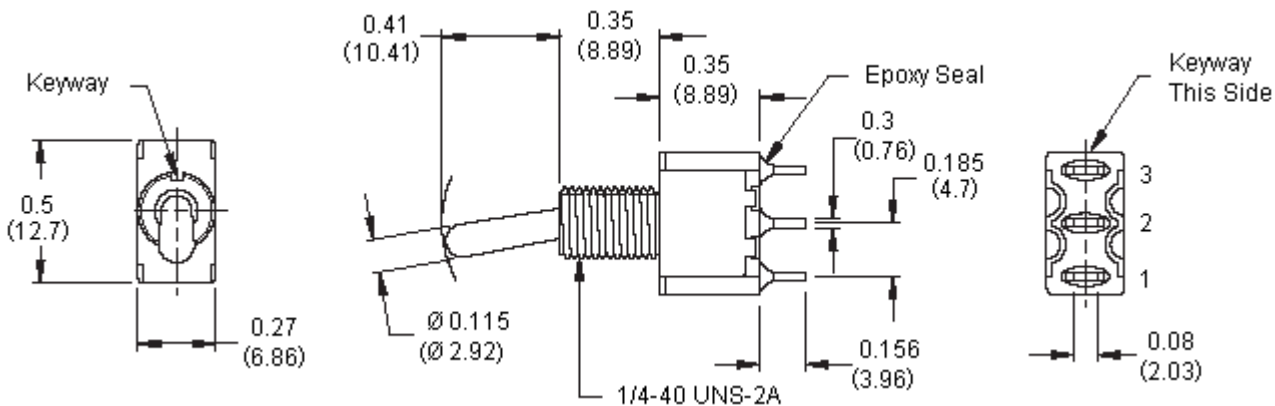
# Toggle Switches



## Miniature

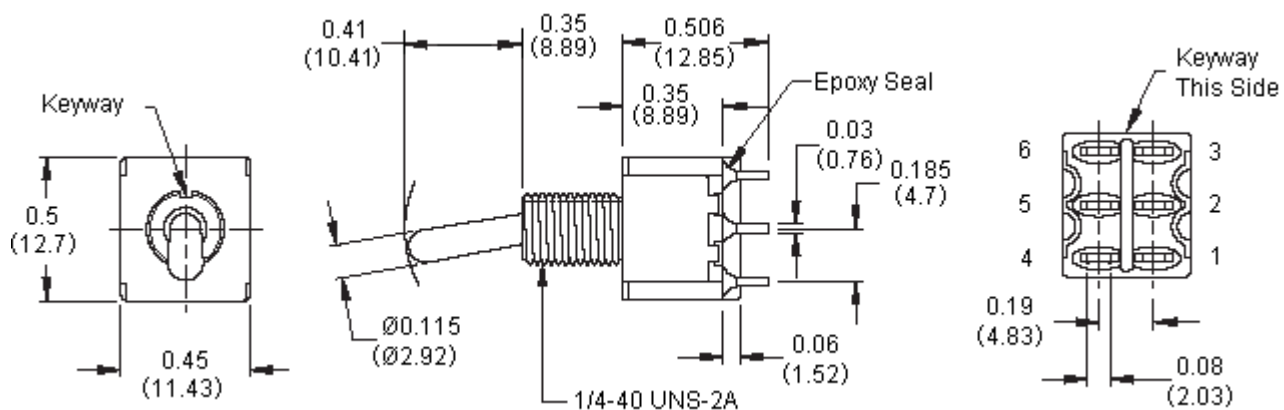
### Pole Options

#### SPDT



Dimensions : Inches (Millimetres)

#### DPDT



Dimensions : Inches Millimetres)



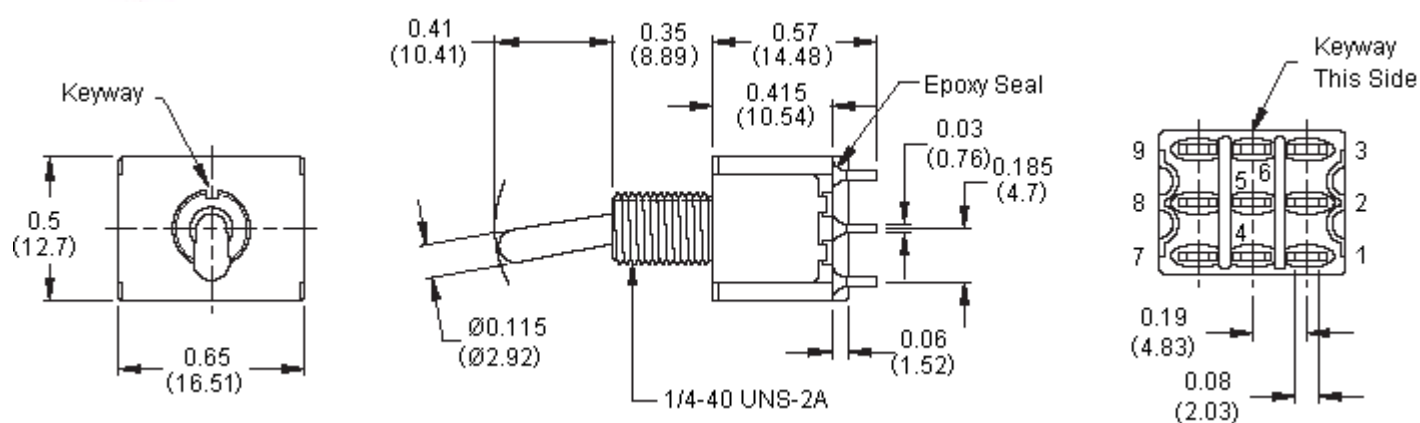
# Toggle Switches

## Miniature



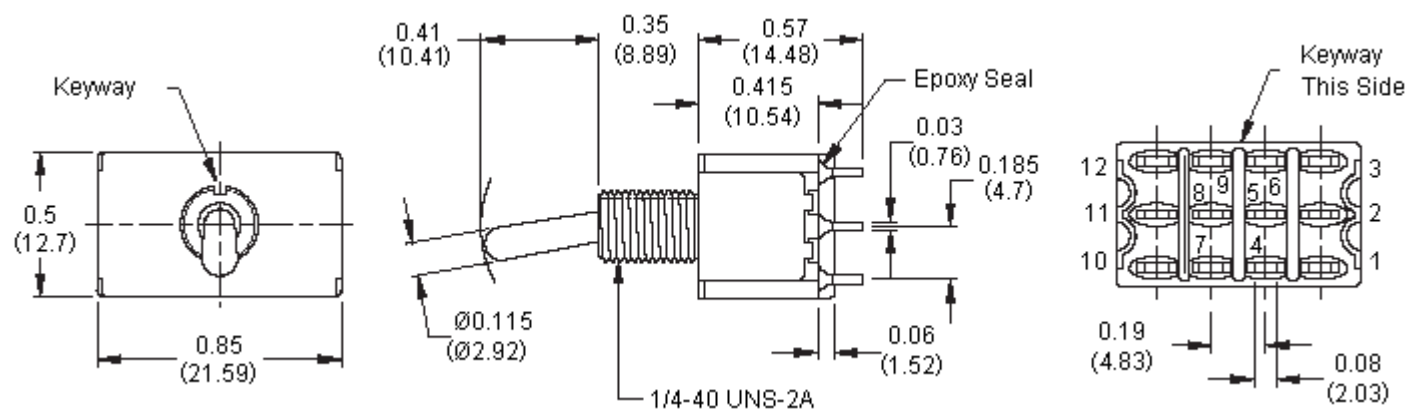
### Pole Options

#### 3PDT



Dimensions : Inches (Millimetres)

#### 4PDT



Dimensions : Inches (Millimetres)

# Toggle Switches



## Miniature

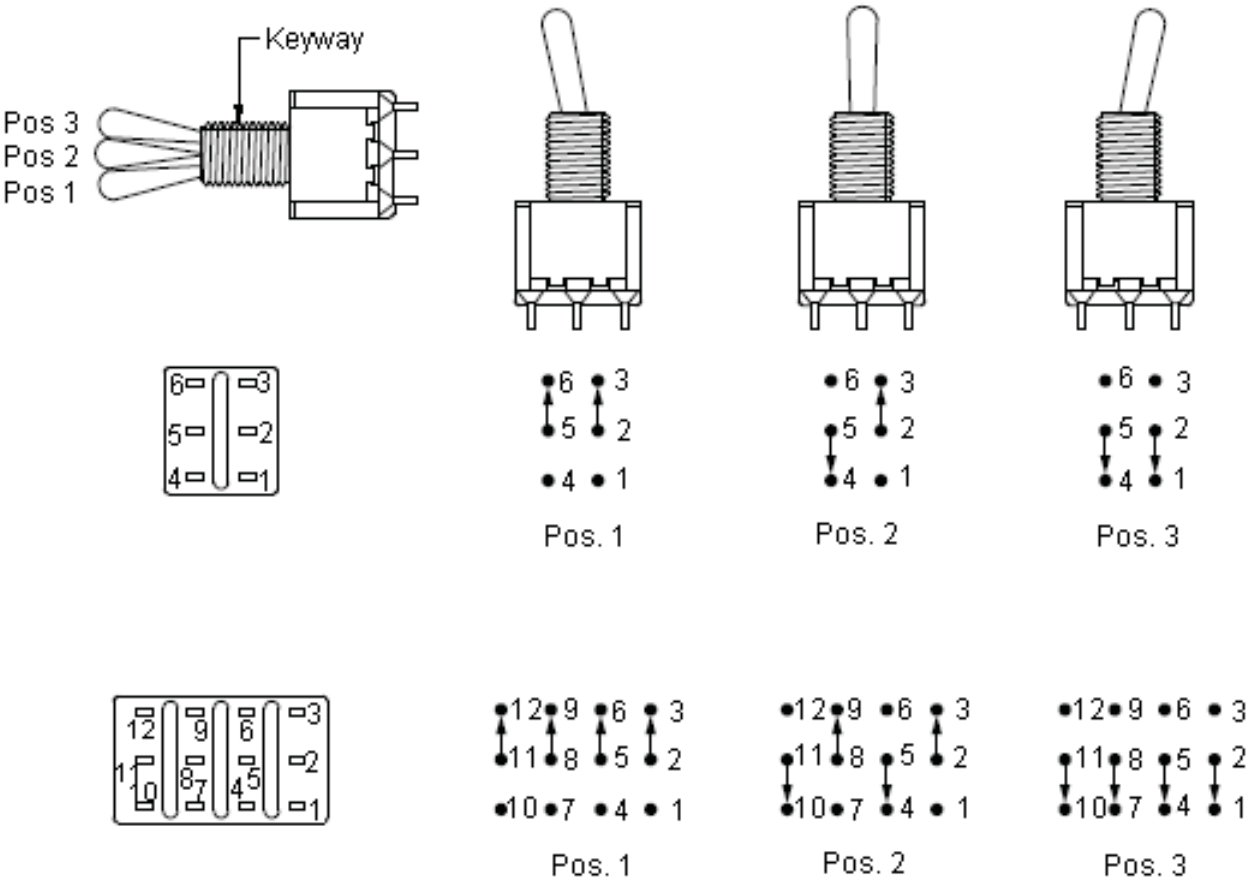
### Single Pole, 3 Position

| Model No.   |                                       |                                       |                                       |
|-------------|---------------------------------------|---------------------------------------|---------------------------------------|
| 1M46        | ON                                    | ON                                    | ON                                    |
| Term. Comm. | 2 to 3, 5 to 6<br>8 to 9,<br>11 to 12 | 2 to 3, 5 to 4<br>8 to 9,<br>11 to 10 | 2 to 1, 5 to 4<br>8 to 7,<br>11 to 10 |

### Double Pole, 3 Position

| Model No.   |                                       |                                       |                                       |
|-------------|---------------------------------------|---------------------------------------|---------------------------------------|
| 1M46        | ON                                    | ON                                    | ON                                    |
| Term. Comm. | 2 to 3, 5 to 6<br>8 to 9,<br>11 to 12 | 2 to 3, 5 to 4<br>8 to 9,<br>11 to 10 | 2 to 1, 5 to 4<br>8 to 7,<br>11 to 10 |

### 3-Way Wiring Diagram Schematics

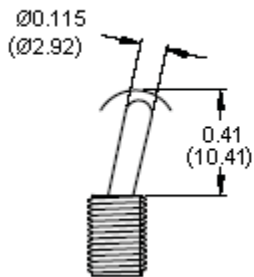


# Toggle Switches

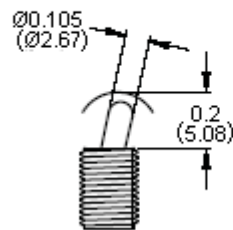
## Miniature

### Actuator Options

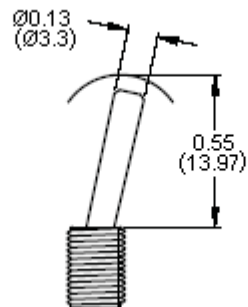
**T1 STD**



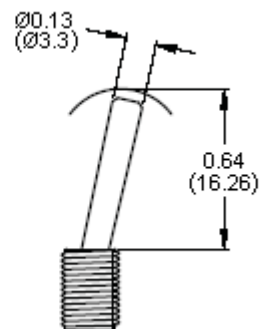
**T2**



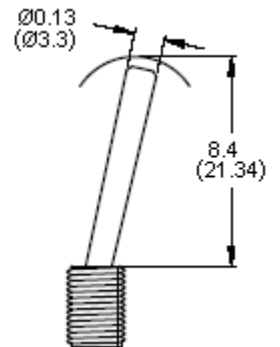
**T3**



**T4**



**T5**

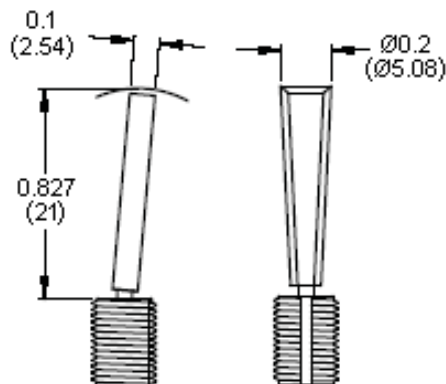
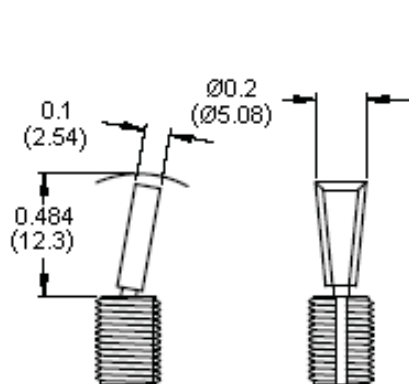


**Note:** T1 to T5 Actuator shown with standard B1 bushing ;  
add .07 (1.78) for B3 Bushing ;  
Subtract 0.02 (0.51) for B6 Bushing ;  
Std for M1, M2 Terminal sub 0.016 (0.4) for M6, M7, VSX

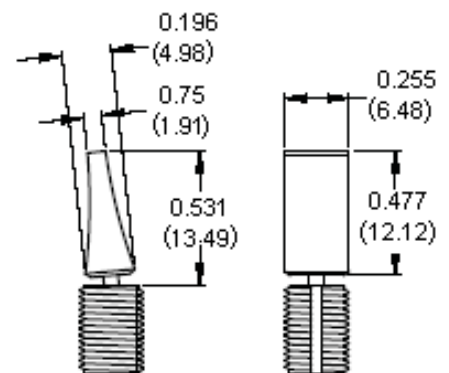
Dimensions : Inches (Millimetres)

### T6 Flatted with anti-rotation

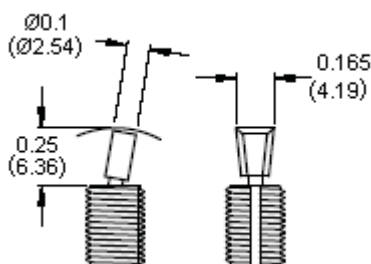
**T61**



**T62**



**T63**



Dimensions : Inches (Millimetres)

Dimensions : Inches (Millimetres)

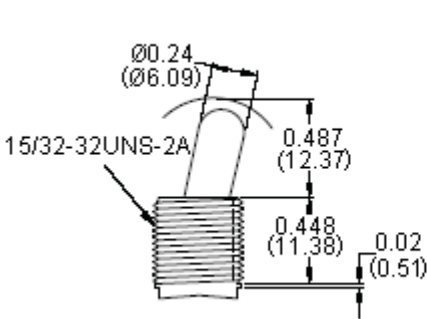
**Note:** T6, T6-1, T6-2, T63 use with B11, B12, B15, B16 bushing only

# Toggle Switches

## Miniature

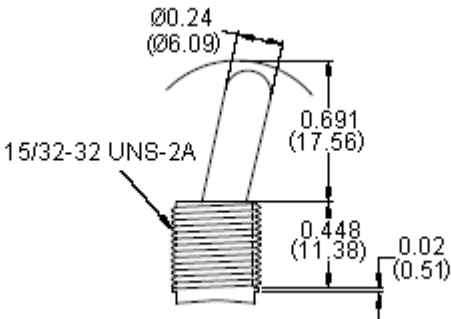


**T7**



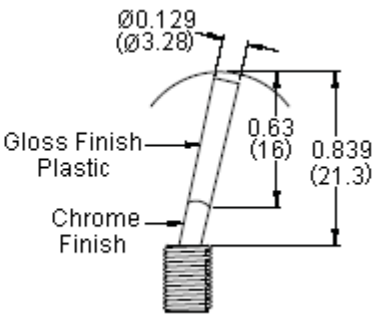
Use with B13 bushing  
Use with B18, B20 the lever is anti-rotation and the size of lever is 13 mm

**T8**



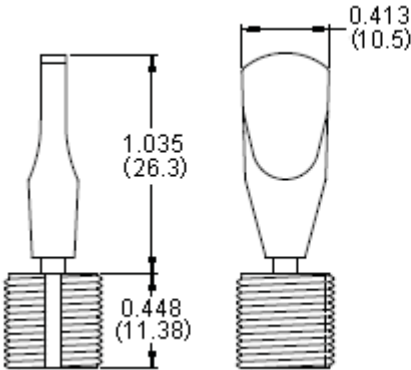
Use with B13 bushing  
Use with B18, B20 the lever is anti-rotation and the size of lever is 18 mm

**T9**



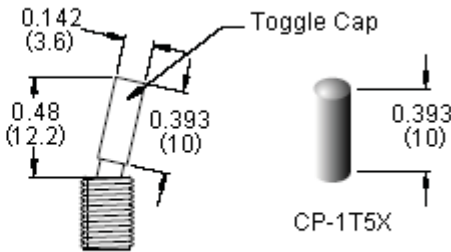
Dimensions : Inches (Millimetres)  
B1/B2 bushing std with black and red colour only (std).

**TA Plastic Black**



Use with B18 bushing only

**T11**



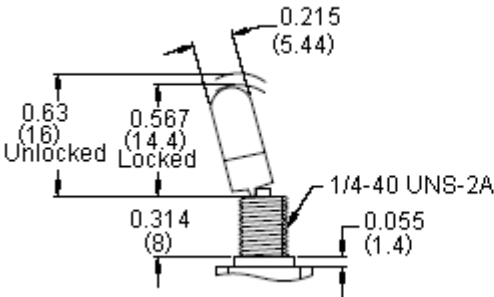
**Note:** T11 Actuator shown with standard B1 bushing;  
Add 0.07 (1.78) for B3 bushing;  
Subtract 0.02 (0.51) for B6 bushing.  
Std for M1.M2 Terminal sub. 0.016 (0.4) for M6.M7.VSX

Dimensions : Inches (Millimetres)

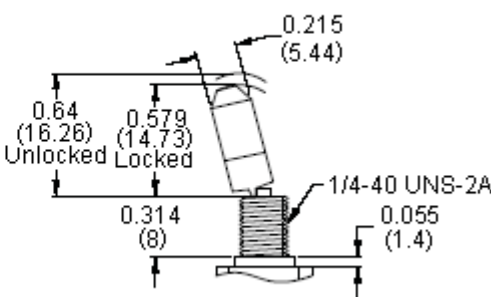
**Plastic No. Colour :**

| Item No | Colour      |
|---------|-------------|
| 1       | White       |
| 2       | Black (Std) |
| 3       | Red         |
| 4       | Orange      |
| 5       | Yellow      |
| 6       | Green       |
| 7       | Blue        |
| 8       | Brown       |
| 9       | Gray        |

**TL1B25**



**TL2B25**



Dimensions : Inches (Millimetres)

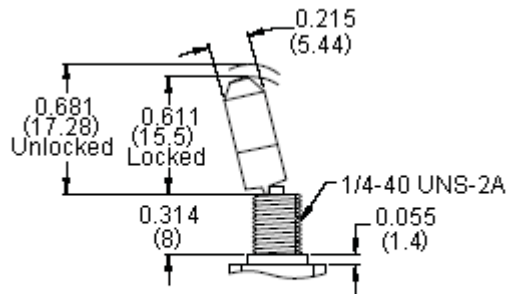


# Toggle Switches

## Miniature

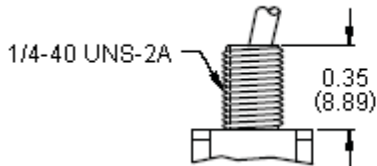
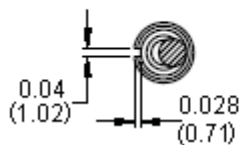


### TL3B25

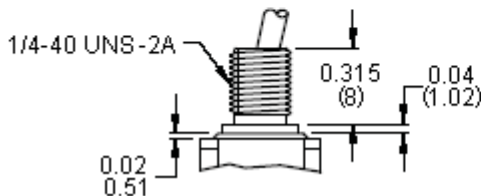
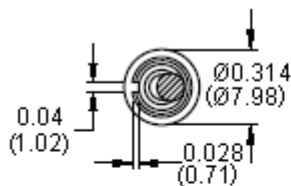


Dimensions : Inches (Millimetres)

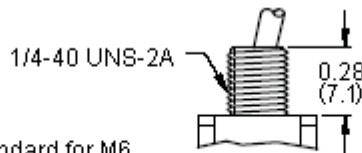
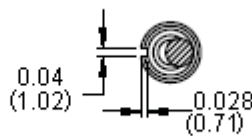
**B1 THD STD**  
**B2 NON-THD**



**B6 High Torque**

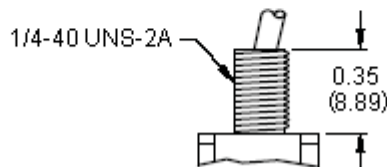
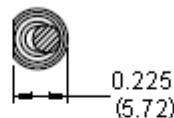


**B3 THD**  
**B4 NON-THD**

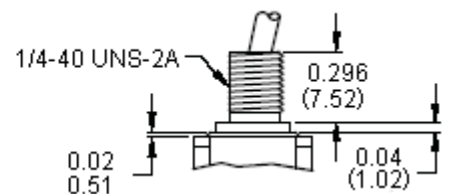
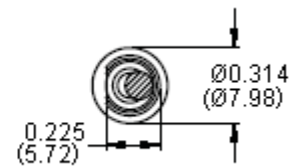


B4 is standard for M6, M7 and VS2 to 5 termination options.

**B7 Thd STD**

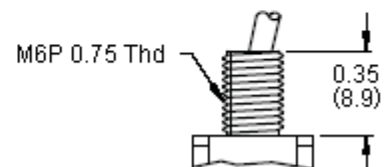
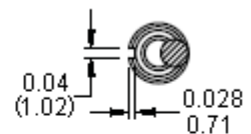


**B5 High Torque**



Dimensions : Inches (Millimetres)

**B8 Metric Thd**



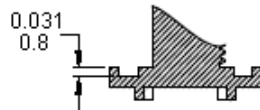
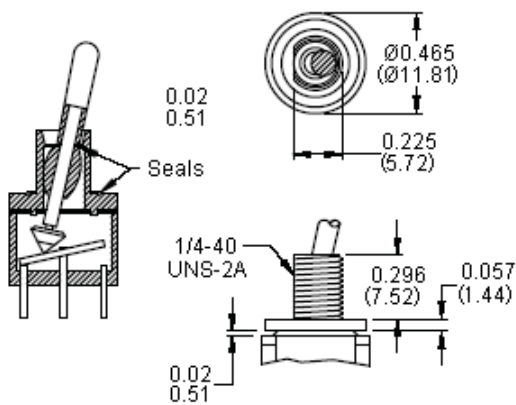
Dimensions : Inches (Millimetres)

# Toggle Switches

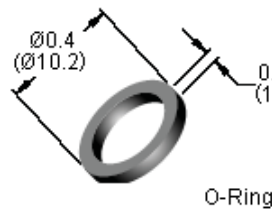
## Miniature



**B9 Splash Proof**



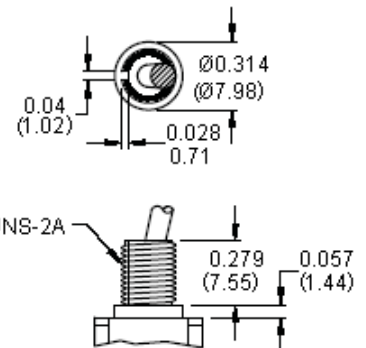
**CP-1TEB**



O-Ring

Supplied with B9 Bushing

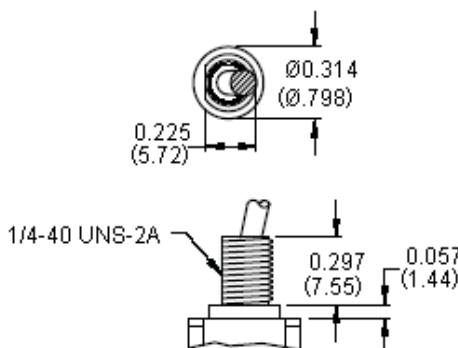
**B11 THD STD  
B12 NON-THD**



Dimensions : Inches (Millimetres)

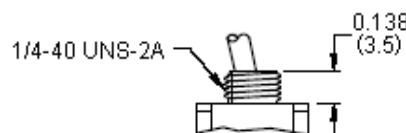
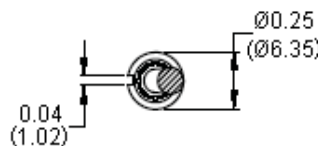
Use with T6 actuators only

**B15 THD STD  
B16 NON-THD**

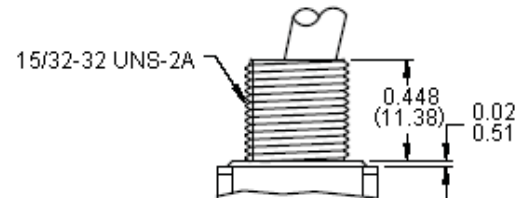
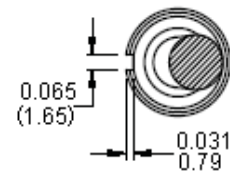


Use with T6 actuators only

**B17**



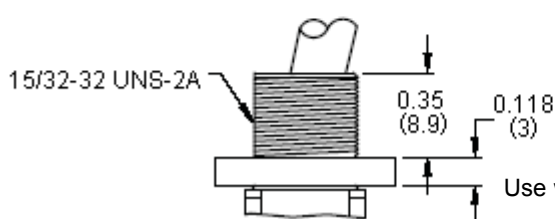
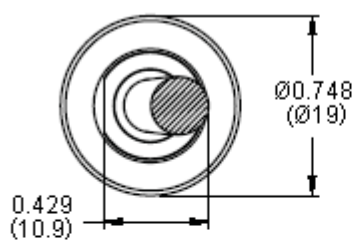
**B13**



Dimensions : Inches (Millimetres)

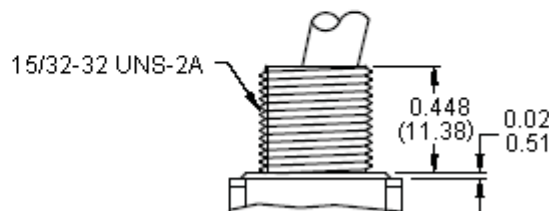
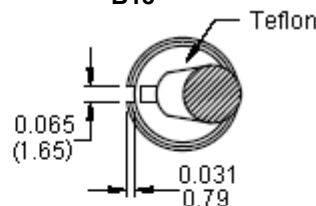
Use with T7, T8 actuators only  
B13 Bear strength from top of actuator  
up to 10 kg aside up to 15 kg

**B14 Splash Proof**



Use with T7, T8 and T10 actuators only with plastic  
(Teflon) Insert

**B18**



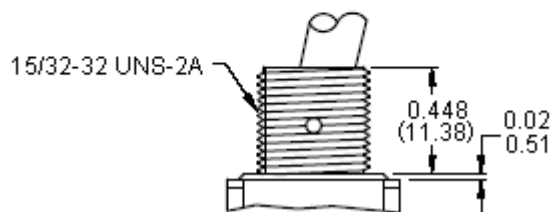
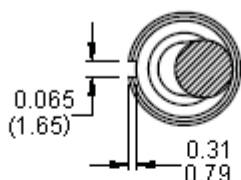
Dimensions : Inches (Millimetres)

# Toggle Switches

## Miniature



**B20**



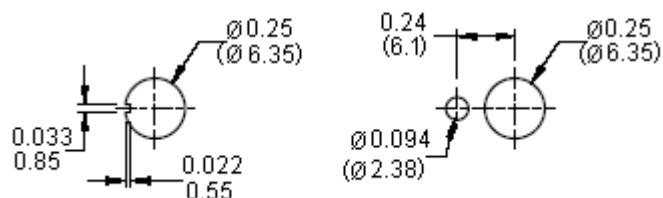
Dimensions : Inches (Millimetres)

**Use with T7, T8 and T10 actuators only**

B18, B20 Bear Strength from top of actuator up to 20 kg aside up to 15 kg

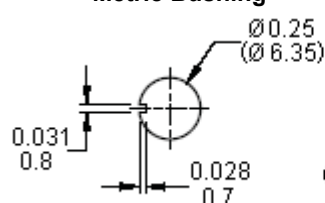
## Panel Mounting

**1/4 In Bushing**

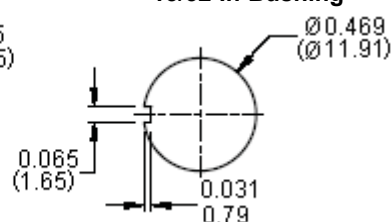


Dimensions : Inches (Millimetres)

**Metric Bushing**

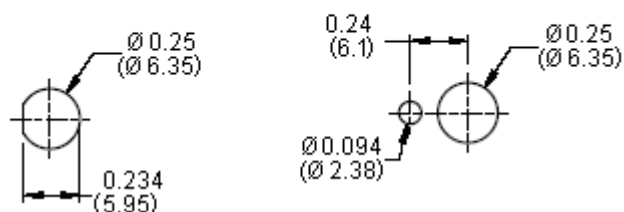


**15/32 In Bushing**



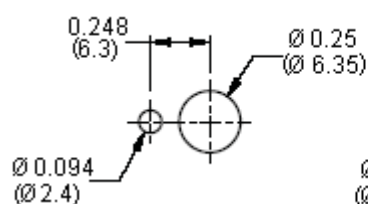
Dimensions : Inches (Millimetres)

**1/4 In Bushing**

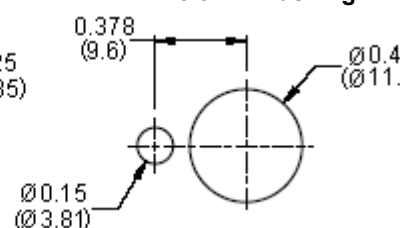


Dimensions : Inches (Millimetres)

**Metric Bushing**



**15/32 In Bushing**



Dimensions : Inches (Millimetres)

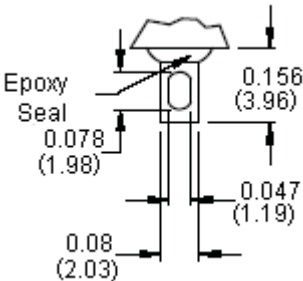
# Toggle Switches

## Miniature



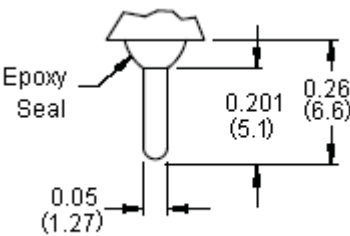
### Termination Options

**M1 Solder Lug**



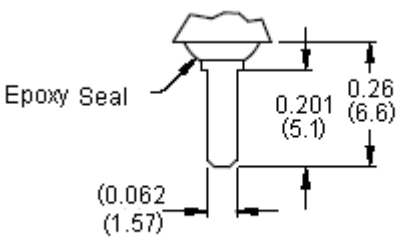
Dimensions : Inches (Millimetres)  
**0.03 (0.76) Thk**

**M2 PC Thru-Hole**



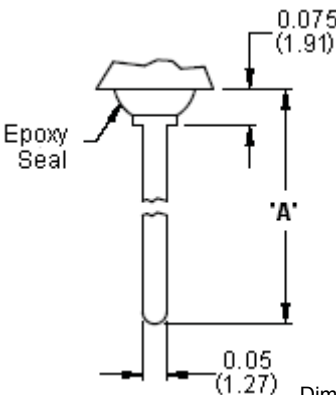
Dimensions : Inches (Millimetres)  
**0.03 (0.76) Thk**

**M5 Wire Wrap**



Dimensions : Inches (Millimetres)  
**Thk 0.03 (0.76)**

**M3 Quick Connect**



**Thk 0.03 (0.76)** Dimensions : Inches (Millimetres)

### Other Termination Options

- M6 Right Angle P.C. Mount
- M7 Right Angle P.C. Mount
- VS2 Vertical Bracket P.C. Mount
- VS3 Vertical Bracket P.C. Mount
- VS5 Vertical Bracket P.C. Mount

RE Mating Quick Connector  
 Amp P/N 60900-1

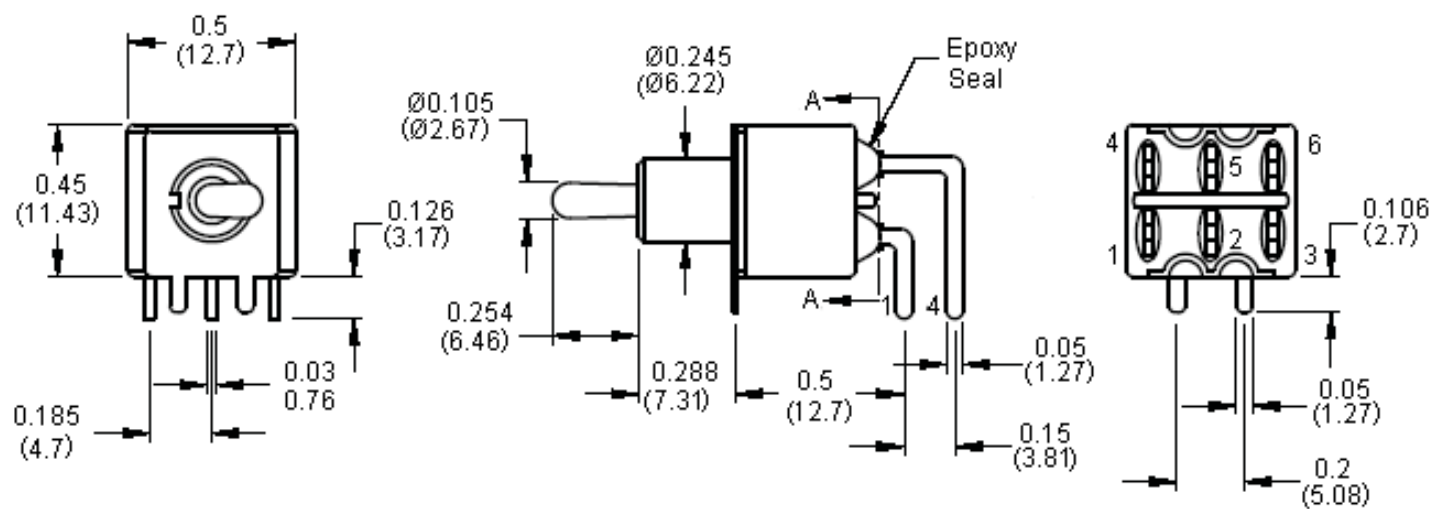
| Option Code | Dimension 'A' |
|-------------|---------------|
| M5-1        | 0.736 (18.7)  |
| M5-2        | 0.953 (24.2)  |
| M5-3        | 0.415 (10.55) |
| M5-4        | 1.062 (26.97) |



## Miniature



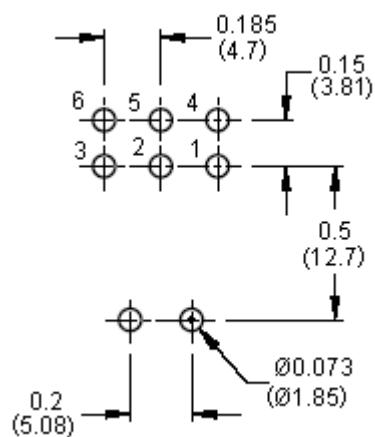
## M6



Dimensions : Inches (Millimetres)

Section A-A  
Term. Nos. for  
Reference Only

## P. C. Mounting



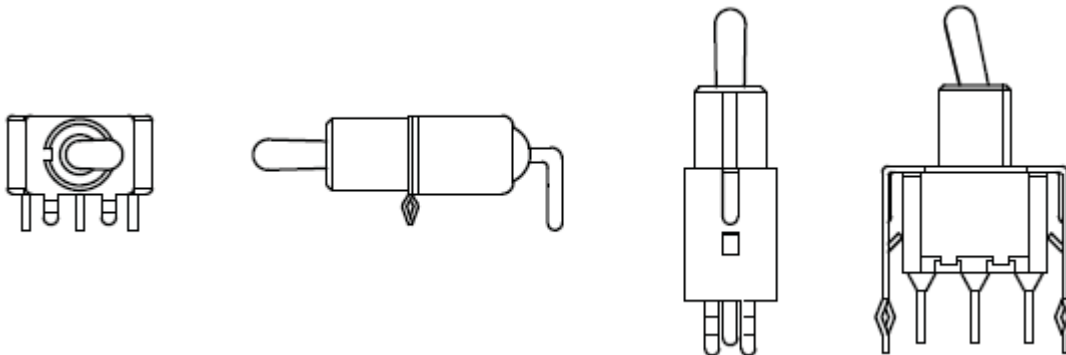
Dimensions : Inches (Millimetres)

# Toggle Switches

## Miniature

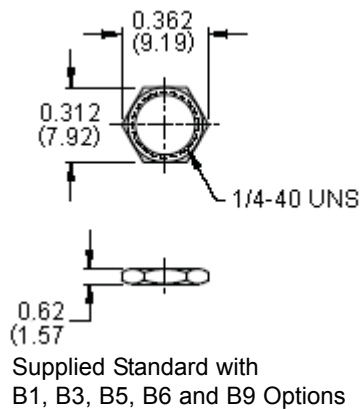


### SNAP-IN Termination Options

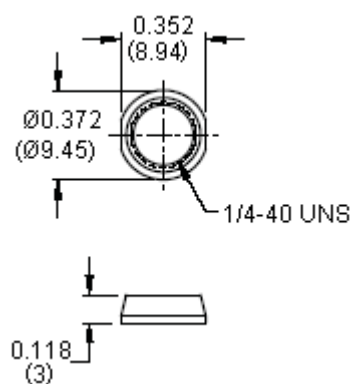


### Hardware

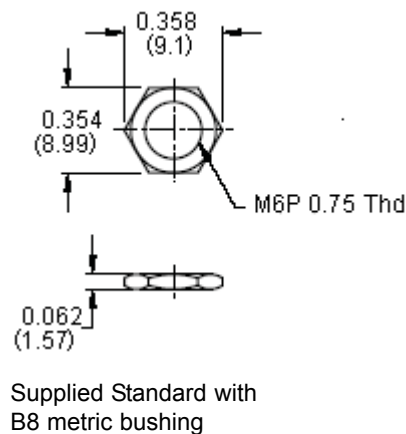
#### 1/4 Nuts HDW2



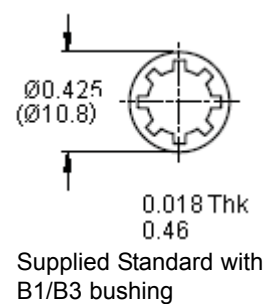
#### Dress Nut HDW3



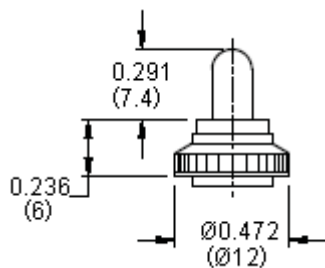
#### Metric Nut HDW6



#### Lock Washer HDW11

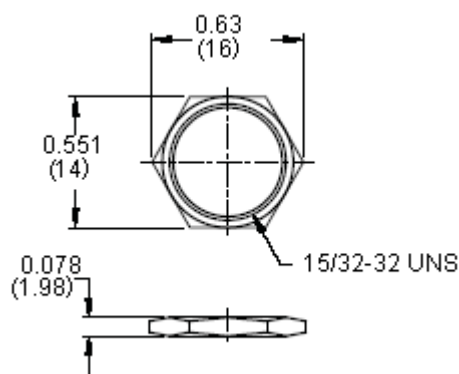


#### Optional Rubber Hood Sealing



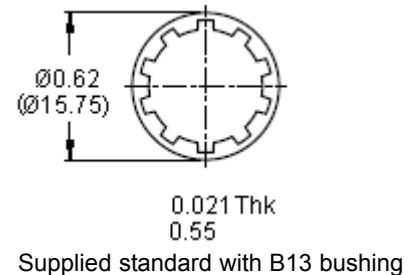
K1 = Metric  
E1 = Inch (Std.)  
for actuator T1, T2 and  
B1, B3, B5, B6 Bushing only

#### 15/32 Nuts HDW4



Supplied standard with B13 bushing

#### Lock Washer HDW12



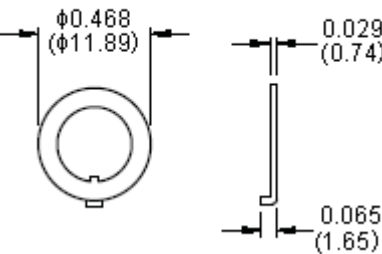
Dimensions : Inches (Millimetres)

# Toggle Switches

## Miniature

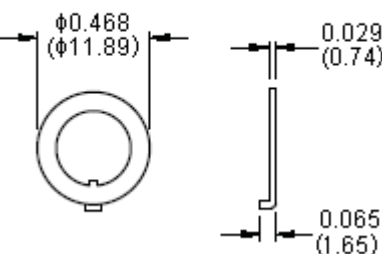


HDW15



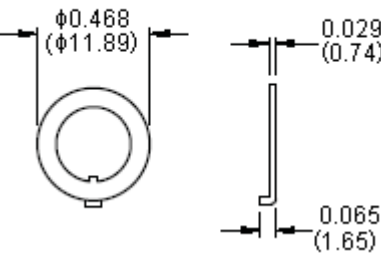
Locking ring supplied standard

HDW16



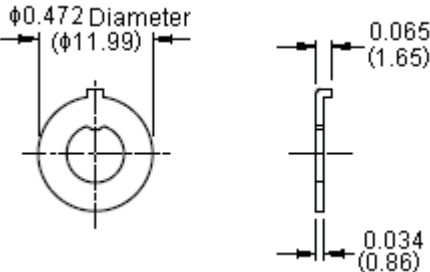
Locking ring supplied with B5 bushing

HDW17



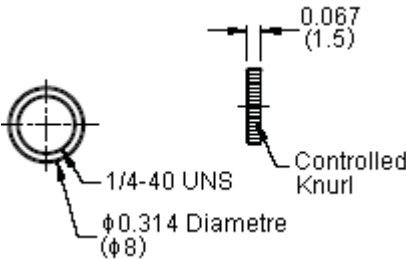
Locking ring supplied with B13, B18, B20 bushing

HDW18



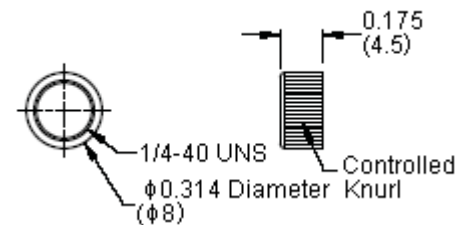
Locking ring supplied with B8 bushing

HDW19



Nu-1M18

HDW20

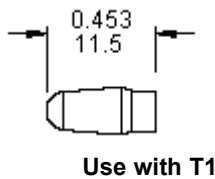


NU-1M24

Dimensions : Inches (Millimetres)

### Optional Toggle Cap

CP-T1XX



Cap Colour :

| Item No | Colour      |
|---------|-------------|
| 1       | White       |
| 2       | Black (Std) |
| 3       | Red         |
| 5       | Yellow      |
| 6       | Green       |
| 7       | Blue        |
| 9       | Gray        |



# Toggle Switches

## Miniature



### Contact Material Options

|   | Contact Plating  | Terminal Plating               | Ratings                                                                                        |
|---|------------------|--------------------------------|------------------------------------------------------------------------------------------------|
| Q | Silver           | Q = Silver                     | 5 Amperes with resistant load at 120 V ac or 28 V dc<br>2 Amps with resistant load at 250 V ac |
| S |                  | S = Silver, pure-tin           |                                                                                                |
| C | Gold over Silver | C = Gold over silver           |                                                                                                |
| K |                  | K = Gold over silver, pure-tin |                                                                                                |
| R | Gold             | R = Gold                       | 0.4 Volt-Amperes (VA) maximum at (20 V maximum<br>(AC or DC)                                   |
| G |                  | G = Gold, pure-tin             |                                                                                                |

### Soldering Process:

Manual soldering : Use soldering iron of 30 watts, controlled at 350°C  
approximately 5 seconds while applying solder

Wave soldering : Recommended soldering temperature : 260 ±5°C  
Duration of solder immersion : Maximum 5 ±1 seconds. (PCB is 1.6 mm in thickness)

### Soldering : Vapour Phase

### Part Number Table

| Description                    | Part Number   |
|--------------------------------|---------------|
| SWITCH, PCB, DPDT, ON-MOM      | 1MD2T2B4VS3RE |
| SWITCH, PCB, DPDT, MOM-OFF-MOM | 1MD4T2B4VS3RE |
| SWITCH, PCB, DPDT, ON-OFF-ON   | 1MD3T2B4VS3RE |
| SWITCH, PCB, DPDT, ON-OFF-MOM  | 1MD5T2B4VS3RE |
| SWITCH, PCB, DPDT, ON-ON-ON    | 1MD6T2B4VS3RE |
| SWITCH, PCB, SPDT, ON-MOM      | 1MS2T2B4M6RE  |
| SWITCH, PCB, SPDT, ON-OFF-MOM  | 1MS5T2B4M6RE  |
| SWITCH, PCB, DPDT, ON-MOM      | 1MD2T2B4M6RE  |
| SWITCH, PCB, DPDT, MOM-OFF-MOM | 1MD4T2B4M6RE  |
| SWITCH, PCB, DPDT, ON-OFF-MOM  | 1MD5T2B4M6RE  |
| SWITCH, PCB, DPDT, ON-ON-ON    | 1MD6T2B4M6RE  |
| SWITCH, PCB, SPDT, ON-MOM      | 1MS2T2B4M7RE  |
| SWITCH, PCB, SPDT, MOM-OFF-MOM | 1MS4T2B4M7RE  |
| SWITCH, PCB, SPDT, ON-OFF-MOM  | 1MS5T2B4M7RE  |
| SWITCH, PCB, DPDT, ON-MOM      | 1MD2T2B4M7RE  |

# Toggle Switches

## Miniature



Part Number Table

| Description                           | Part Number   |
|---------------------------------------|---------------|
| SWITCH, PCB, DPDT, MOM-OFF-MOM        | 1MD4T2B4M7RE  |
| SWITCH, PCB, DPDT, ON-OFF-ON          | 1MD3T2B4M7RE  |
| SWITCH, PCB, DPDT, ON-OFF-MOM         | 1MD5T2B4M7RE  |
| SWITCH, PCB, DPDT, ON-ON-ON           | 1MD6T2B4M7RE  |
| SWITCH, SOLDER TAG, SPDT, ON-MOM      | 1MS2T1B5M1QE  |
| SWITCH, SOLDER TAG, SPDT, MOM-OFF-MOM | 1MS4T1B5M1QE  |
| SWITCH, SOLDER TAG, SPDT, ON-OFF-MOM  | 1MS5T1B5M1QE  |
| SWITCH, SOLDER TAG, DPDT, ON-MOM      | 1MD2T1B5M1QE  |
| SWITCH, SOLDER TAG, DPDT, MOM-OFF-MOM | 1MD4T1B5M1QE  |
| SWITCH, SOLDER TAG, DPDT, ON-OFF-MOM  | 1MD5T1B5M1QE  |
| SWITCH, SOLDER TAG, DPDT, ON-ON-ON    | 1MD6T1B5M1QE  |
| SWITCH, SOLDER TAG, 3PDT, ON-MOM      | 1M32T1B5M1QE  |
| SWITCH, SOLDER TAG, 3PDT, ON-ON       | 1M31T1B5M1QE  |
| SWITCH, SOLDER TAG, 3PDT, MOM-OFF-MOM | 1M34T1B5M1QE  |
| SWITCH, SOLDER TAG, 3PDT, ON-OFF-ON   | 1M33T1B5M1QE  |
| SWITCH, SOLDER TAG, 3PDT, ON-OFF-MOM  | 1M35T1B5M1QE  |
| SWITCH, SOLDER TAG, 4PDT, ON-MOM      | 1M42T1B5M1QE  |
| SWITCH, SOLDER TAG, 4PDT, ON-ON       | 1M41T1B5M1QE  |
| SWITCH, SOLDER TAG, 4PDT, MOM-OFF-MOM | 1M44T1B5M1QE  |
| SWITCH, SOLDER TAG, 4PDT, ON-OFF-ON   | 1M43T1B5M1QE  |
| SWITCH, SOLDER TAG, 4PDT, ON-OFF-MOM  | 1M45T1B5M1QE  |
| SWITCH, SOLDER TAG, 4PDT, ON-ON-ON    | 1M46T1B5M1QE  |
| SWITCH, PCB SPDT VERT.                | 1MS5T2B4V2RE. |
| SWITCH, SPDT                          | 1MS3T1B5M1QE. |
| SWITCH, DPDT                          | 1MD3T1B5M1QE. |
| SWITCH, PCB, SPDT, VERT               | 1MS1T2B4V2RE  |
| SWITCH, PCB, SPDT, VERT               | 1MS3T2B4V2RE  |
| SWITCH, PCB, SPDT, VERT               | 1MS2T2B4V2RE  |
| SWITCH, PCB, SPDT, VERT               | 1MS4T2B4V2RE  |
| SWITCH, PCB, SPDT, VERT               | 1MS5T2B4V2RE  |

# Toggle Switches

## Miniature



Part Number Table

| Description              | Part Number  |
|--------------------------|--------------|
| SWITCH, PCB, DPDT, VERT  | 1MD1T2B4V3RE |
| SWITCH, PCB, SPDT, HORIZ | 1MS1T2B4M6RE |
| SWITCH, PCB, SPDT, HORIZ | 1MS3T2B4M6RE |
| SWITCH, PCB, SPDT, HORIZ | 1MS4T2B4M6RE |
| SWITCH, PCB, DPDT, HORIZ | 1MD1T2B4M6RE |
| SWITCH, PCB, DPDT, HORIZ | 1MD3T2B4M6RE |
| SWITCH, PCB, SPDT, HORIZ | 1MS1T2B4M7RE |
| SWITCH, PCB, SPDT, HORIZ | 1MS3T2B4M7RE |
| SWITCH, PCB, DPDT, HORIZ | 1MD1T2B4M7RE |
| SWITCH, SPDT, 2.0A, 250V | 1MS1T1B5M1QE |
| SWITCH, SPDT             | 1MS3T1B5M1QE |

# Toggle Switches

## Miniature



| Model No            | Actuator                                           | Bushing                                     | Terminations                           | Contact Material | Seal |
|---------------------|----------------------------------------------------|---------------------------------------------|----------------------------------------|------------------|------|
| 1 M S 1             | T 2                                                | B 4                                         | V 2                                    | R                | E    |
| Model No            | Actuator                                           | Bushing                                     | Terminations                           | Contact Material | Seal |
| 1MS1 SP On-None-On  | T1 10.41 high                                      | B1 8.89 high, keyway (thd std)              | M1 Solder Lug                          |                  |      |
| 1MS2 SP On-None-Mom | T2 5.08 high                                       | B2 8.89 high, keyway (non-thd)              | M2 PC thru-hole                        |                  |      |
| 1MS3 SP On-Off-On   | T3 13.97 high                                      | B3 7.1 high, keyway (thd)                   | M3 Quick Connect                       |                  |      |
| 1MS4 SP Mom-Off-Mom | T4 16.26 high                                      | B4 7.1 high, keyway (non-thd)               | M5-1 18.70 high, wire wrap             |                  |      |
| 1MS5 SP On-Off-Mom  | T5 21.34 high                                      | B5 7.52 high, flat (torque)                 | M5-2 24.20 high, wire wrap             |                  |      |
| 1MD1 DP On-None-On  | T6 Flatted, anti-rotation                          | B6 8 high, keyway (torque)                  | M5-3 10.55 high, wire wrap             |                  |      |
| 1MD2 DP On-None-Mom | 12.30 high                                         | B7 8.89 high, flat (thd std)                | M5-4 26.97 high, wire wrap             |                  |      |
| 1MD3 DP On-Off-On   | T81 Flatted, anti-rotation                         | B8 8.89 high, keyway (metric thd)           | M6 Right angle, PC thru-hole           |                  |      |
| 1MD4 DP Mom-Off-Mom | 21.0 high                                          | B9 7.52 high, flat (splash proof)           | M6N Right angle, snap-in, PC thru-hole |                  |      |
| 1MD5 DP On-Off-Mom  | T82 Lower Handle with Cap                          | B11 7.55 high, keyway (thd std)             | M7 Vertical right angle, PC thru-hole  |                  |      |
| 1MD6 DP On-On-On    | 13.49 high                                         | B12 7.55 high, keyway (non-thd)             | VS2 11.68 high, V-bracket              |                  |      |
| 1MD7 DP Mom-On-Mom  | T83 Flatted, anti-rotation                         | B13 11.38 high, keyway (15 / 32 bushing)    | V2N 11.68 high, snap-in V-bracket      |                  |      |
| 1MD8 DP On-On-Mom   | 6.35 high                                          | B14 11.9 high, flat (splash proof)          | VS3 16.00 high, V-bracket              |                  |      |
| 1M31 3P On-Non-On   | T7 12.37 high, 15/32 bushing                       | B15 7.55 high, flat (thd std)               | VS4 11.68 high, V-bracket              |                  |      |
| 1M32 3P On-Non-Mom  | T8 17.56 high, 15/32 bushing                       | B16 7.55 high, flat (non-thd)               | VS5 16.00 high, V-bracket              |                  |      |
| 1M33 3P On-Off-On   | T9 Plastic, 21.3 high                              | B17 3.5 high, keyway                        |                                        |                  |      |
| 1M34 3P Mom-Off-Mom | TA 26.30 high level handle with cap, 15/32 Bushing | B18 11.38 high, keyway (15 / 32 bushing)    |                                        |                  |      |
| 1M35 3P On-Off-Mom  |                                                    | B20 11.38 high, keyway (15 / 32 bushing)    |                                        |                  |      |
| 1M41 4P On-Non-On   | T11 Plastic, 12.2 high                             | B25 8 high, keyway, locking lever (thd)     |                                        |                  |      |
| 1M42 4P On-Non-Mom  | TL1 Locking lever 16 high                          | B26 8 high, keyway, locking lever (non-thd) |                                        |                  |      |
| 1M43 4P On-Off-On   | TL2 Locking lever 16.26 high                       |                                             |                                        |                  |      |
| 1M44 4P Mom-Off-Mom | TL3 Locking lever 17.28 high                       |                                             |                                        |                  |      |
| 1M45 4P On-Off-Mom  |                                                    |                                             |                                        |                  |      |
| 1M48 4P On-On-On    |                                                    |                                             |                                        |                  |      |
| 1M47 4P Mom-On-Mom  |                                                    |                                             |                                        |                  |      |
| 1M48 4P On-On-Mom   |                                                    |                                             |                                        |                  |      |
|                     | Contact Material                                   |                                             |                                        |                  |      |
|                     | Q Silver                                           |                                             |                                        |                  |      |
|                     | R Gold                                             |                                             |                                        |                  |      |
|                     | G Gold, pure-tin                                   |                                             |                                        |                  |      |
|                     | S Silver, pure-tin                                 |                                             |                                        |                  |      |
|                     | C Gold over silver                                 |                                             |                                        |                  |      |
|                     | K Gold over silver, pure-tin                       |                                             |                                        |                  |      |
|                     |                                                    | Seal                                        |                                        |                  |      |
|                     |                                                    | E EPOXY (std)                               |                                        |                  |      |
|                     |                                                    | N NO EPOXY                                  |                                        |                  |      |

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