



# 7000 Series

## Miniature Toggle Switches

### Materials

CASE: Glass filled nylon 6/6, flame retardant, heat stabilized, or diallyl phthalate (DAP) (UL 94V-0).

ACTUATOR: Brass, chrome plated.

BUSHING: Brass or zinc, nickel plated.

HOUSING: Stainless steel.

SWITCH SUPPORT: Brass or steel, tin plated.

END CONTACTS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Coin silver, silver plated. See page F-15 for additional contact materials.

CENTER CONTACTS & ALL TERMINALS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See above for additional contact materials.

TERMINAL SEAL: Epoxy.

HARDWARE: Nut & Locking Ring: Brass, nickel plated.

Lockwasher: Steel, nickel plated.

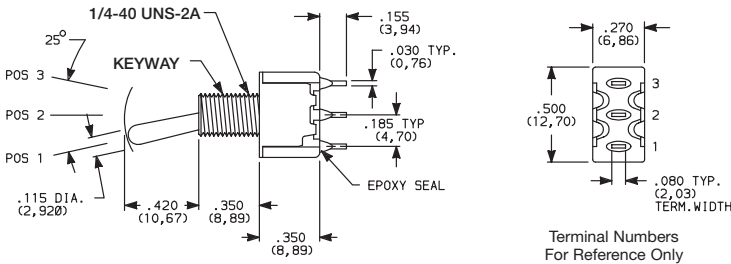
**NOTE:** Materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

### SWITCH FUNCTION



| NO. POLES | MODEL NO. | UL** MODEL NO. | SWITCH FUNCTION                                                                   |                                                                                   |                                                                                   | CONNECTED TERMINALS                                                               |                                                                                     |                                                                                     | SCHEMATIC                                                                           |
|-----------|-----------|----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|           |           |                | POS. 1                                                                            | POS. 2                                                                            | POS. 3                                                                            | POS. 1                                                                            | POS. 2                                                                              | POS. 3                                                                              |                                                                                     |
|           |           |                |  |  |  |  |  |  |                                                                                     |
| SP        | 7101      | U11            | ON                                                                                | NONE                                                                              | ON                                                                                | 2-3                                                                               | N/A                                                                                 | 2-1                                                                                 |  |
|           | 7103      | U13            | ON                                                                                | OFF                                                                               | ON                                                                                | 2-3                                                                               | OPEN                                                                                | 2-1                                                                                 |                                                                                     |
|           | 7105      | U15            | MOM.                                                                              | OFF                                                                               | MOM.                                                                              |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|           | 7107      | U17            | ON                                                                                | OFF                                                                               | MOM.                                                                              |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|           | 7108      | U18            | ON                                                                                | NONE                                                                              | MOM.                                                                              | 2-3                                                                               | N/A                                                                                 | 2-1                                                                                 |                                                                                     |
|           | 7109      | U19            | NONE                                                                              | ON                                                                                | MOM.                                                                              | N/A                                                                               | 2-3                                                                                 | 2-1                                                                                 |                                                                                     |

#### SPDT

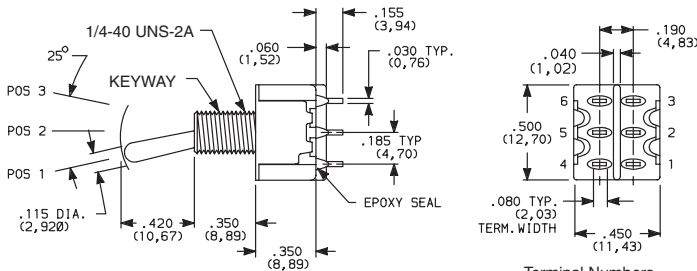


Part number shown: 7101SYZBE

Terminal Numbers  
For Reference Only

|    |        |       |      |      |      |         |         |         |              |
|----|--------|-------|------|------|------|---------|---------|---------|--------------|
| DP | 7201   | U21   | ON   | NONE | ON   | 2-3,5-6 | N/A     | 2-1,5-4 | <br><br>DPDT |
|    | 7203   | U23   | ON   | OFF  | ON   | 2-3,5-6 | OPEN    | 2-1,5-4 |              |
|    | 7205   | U25   | MOM. | OFF  | MOM. |         |         |         |              |
|    | 7207   | U27   | ON   | OFF  | MOM. |         |         |         |              |
|    | 7208   | U28   | ON   | NONE | MOM. | 2-3,5-6 | N/A     | 2-1,5-4 |              |
|    | 7211 * | U211* | ON   | ON   | ON   | 2-3,5-6 | 2-3,5-4 | 2-1,5-4 |              |
|    | 7213*  | U213* | ON   | ON   | MOM. |         |         |         |              |
|    | 7215*  | U215* | MOM. | ON   | MOM. |         |         |         |              |

#### DPDT



Part number shown: 7201SYZQE

Terminal Numbers  
For Reference Only

MOM. = Momentary

\*\* U11-U415 model nos.



with all options when ordered with G, R, Q or S contact material.

\* Wiring for 3-way switch, see Section N.



Third Angle  
Projection

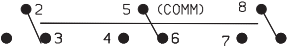
Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

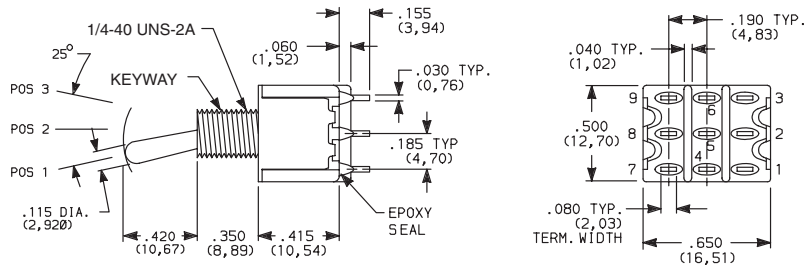
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# 7000 Series Miniature Toggle Switches

## SWITCH FUNCTION

| NO. POLES | MODEL NO. | UL** MODEL NO. | SWITCH FUNCTION                                                                          |                                                                                          |                                                                                          | CONNECTED TERMINALS                                                                      |                                                                                          |                                                                                            | SCHEMATIC                                                                           |
|-----------|-----------|----------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|           |           |                | POS. 1                                                                                   | POS. 2                                                                                   | POS. 3                                                                                   | POS. 1                                                                                   | POS. 2                                                                                   | POS. 3                                                                                     |                                                                                     |
|           |           |                | KEYWAY  | KEYWAY  | KEYWAY  | KEYWAY  | KEYWAY  | KEYWAY  |                                                                                     |
| 3P        | 7301      | U31            | ON                                                                                       | NONE                                                                                     | ON                                                                                       | 2-3,5-6,8-9                                                                              | N/A                                                                                      | 2-1,5-4,8-7                                                                                |  |
|           | 7303      | U33            | ON                                                                                       | OFF                                                                                      | ON                                                                                       | 2-3,5-6,8-9                                                                              | OPEN                                                                                     | 2-1,5-4,8-7                                                                                |                                                                                     |
|           | 7305      | U35            | MOM.                                                                                     | OFF                                                                                      | MOM.                                                                                     |                                                                                          |                                                                                          |                                                                                            |                                                                                     |
|           | 7307      | U37            | ON                                                                                       | OFF                                                                                      | MOM.                                                                                     |                                                                                          |                                                                                          |                                                                                            |                                                                                     |
|           | 7308      | U38            | ON                                                                                       | NONE                                                                                     | MOM.                                                                                     | 2-3,5-6,8-9                                                                              | N/A                                                                                      | 2-1,5-4,8-7                                                                                |                                                                                     |

### 3PDT



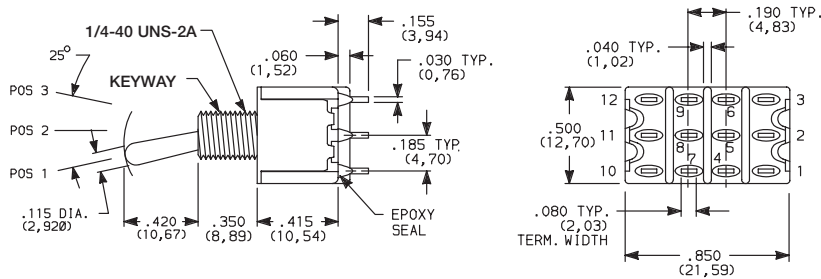
Part number shown: 7301SYZQE

Terminal Numbers  
For Reference Only

|    |       |       |      |      |      |                   |                   |                   |                                                                                       |  |
|----|-------|-------|------|------|------|-------------------|-------------------|-------------------|---------------------------------------------------------------------------------------|--|
| 4P | 7401  | U41   | ON   | NONE | ON   | 2-3,5-6,8-9,11-12 | N/A               | 2-1,5-4,8-7,11-10 |  |  |
|    | 7403  | U43   | ON   | OFF  | ON   | 2-3,5-6,8-9,11-12 | OPEN              | 2-1,5-4,8-7,11-10 |                                                                                       |  |
|    | 7405  | U45   | MOM. | OFF  | MOM. |                   |                   |                   |                                                                                       |  |
|    | 7408  | U48   | ON   | NONE | MOM. |                   |                   |                   |                                                                                       |  |
|    | 7411* | U411* | ON   | ON   | ON   | 2-3,5-6,8-9,11-12 | 2-3,5-4,8-9,11-10 | 2-1,5-4,8-7,11-10 |                                                                                       |  |
|    | 7413* | U413* | ON   | ON   | MOM. |                   |                   |                   |                                                                                       |  |
|    | 7415* | U415* | MOM. | ON   | MOM. |                   |                   |                   |                                                                                       |  |

4PDT

### 4PDT



Part number shown: 7401SYZQE

Terminal Numbers  
For Reference Only

MOM. = Momentary

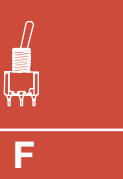
Wiring for 3-way switch, see Section N.

\*\* U11-U415 model nos. with all options when ordered with G, Q, R or S contact material.



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

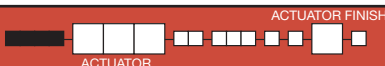
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Toggle

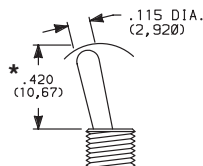
# 7000 Series Miniature Toggle Switches

## ACTUATOR



**S** .420" HIGH <sup>1</sup>

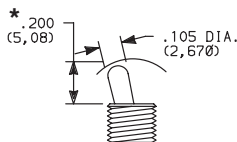
**SP** ANTIROTATION, .420" HIGH <sup>2,3</sup>



S actuator standard when ordered with C, W-W5, Z & Z3 terminations.  
Caps are available separately, see page F-16.

**M** .200" HIGH <sup>1</sup>

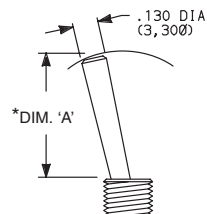
**MP** ANTIROTATION, .200" HIGH <sup>2,3</sup>



M actuator standard when ordered with all terminations except C, W-W5, Z & Z3.  
Caps are available separately, see page F-16.

**L, L1, L2** .840", .640", .550" HIGH <sup>1</sup>

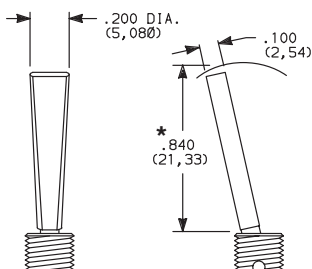
**L1P, L2P** ANTIROTATION, .840", .640", .550" HIGH <sup>2,3</sup>



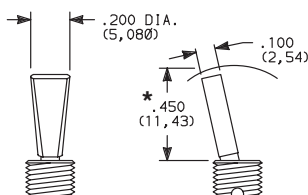
| OPTION CODE | DIM 'A'      |
|-------------|--------------|
| L           | .840 (21,34) |
| L1, L1P     | .640 (16,26) |
| L2, L2P     | .550 (13,97) |

Caps are available separately, see page F-16.

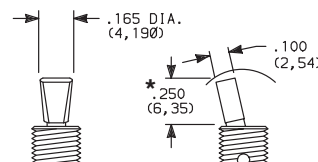
**\*P1** FLATTED WITH ANTIROTATION, .840" HIGH <sup>2,3</sup>



**\*P3** FLATTED WITH ANTIROTATION, .450" HIGH <sup>2,3</sup>



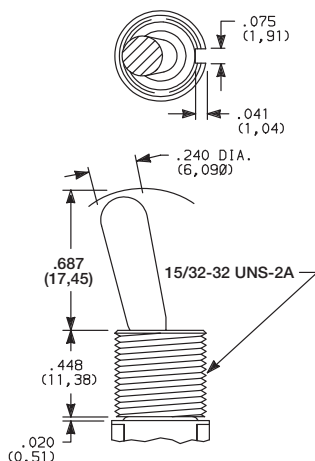
**\*P4** FLATTED WITH ANTIROTATION, .250" HIGH <sup>2,3</sup>



\*Dress nut part number 709901201 supplied standard with threaded bushing. (Part number 709903201 with metric threaded bushings.)

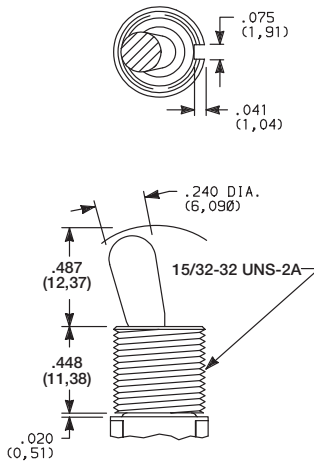
**T** .687 (17,45) HIGH <sup>1,2</sup>

**TP** ANTIROTATION, .687 (17,45) HIGH, 15/32 BUSHING <sup>1,2,3</sup>

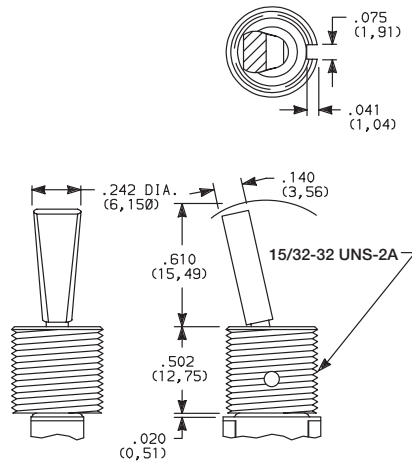


**T1** .487 (12,37) HIGH <sup>1,2</sup>

**T1P** ANTIROTATION, .487 (12,37) HIGH, 15/32 BUSHING <sup>1,2,3</sup>



**T2P** FLATTED, ANTIROTATION, .610" HIGH, 15/32 BUSHING <sup>1,2,3</sup>



Bushing option code not required unless CW splashproof bushing ordered. TP & T1P actuators not available with CW splashproof bushing. All TXX actuators not available on single pole models with A-A4, AW1-AW4 terminations.

Bushing option code not required. T2P actuator not available with CW splashproof bushing or single pole models with A-A4, AW1-AW4 terminations.

- <sup>1</sup> L, L1, L2, M, S & TXX actuators not available with Y1 bushing.
  - <sup>2</sup> L1P, L2P, MP, P1, P3, P4, SP & TXX actuators not available with D8 & H4 bushing.
  - <sup>3</sup> Antirotation: Provides anti-"push-in" feature on actuator.
- \* Add .070 (1,78) for D, D8 & D9 bushings, subtract .020 (0,51) for H3 bushing.

| OPTION CODE | ACTUATOR FINISH                          |
|-------------|------------------------------------------|
| <b>NONE</b> | BRIGHT CHROME-With Nickel Plated Bushing |
| <b>2</b>    | BLACK                                    |
| <b>S</b>    | SATIN CHROME                             |

**NOTE:** Black hardware is supplied when either black actuators or bushings are specified. For additional hardware, see Section N.

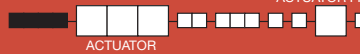


Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

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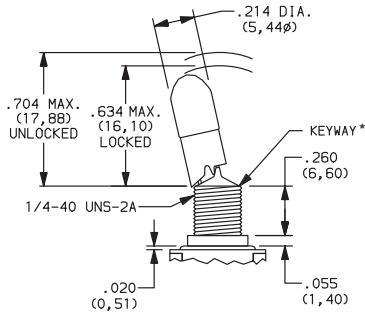
# 7000 Series Miniature Toggle Switches

## ACTUATOR

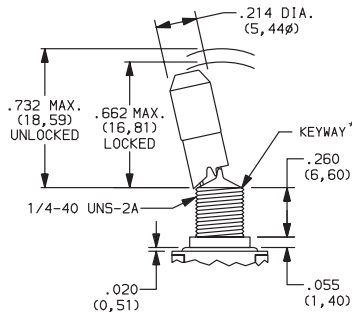


- K2** LOCKING LEVER, .704" HIGH (threaded)  
**K9** LOCKING LEVER, .704" HIGH (unthreaded)

- K12** LOCKING LEVER, .732" HIGH (threaded)  
**K19** LOCKING LEVER, .732" HIGH (unthreaded)



Replaces K, K8



Replaces K1, K18

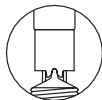
| OPTION CODE | ACTUATOR CAP FINISH                         |
|-------------|---------------------------------------------|
| <b>NONE</b> | NATURAL ALUMINUM—With Nickle Plated Bushing |
| <b>2</b>    | BLACK ANODIZED ALUMINUM                     |
| <b>3</b>    | RED ANODIZED ALUMINUM                       |
| <b>7</b>    | BLUE ANODIZED ALUMINUM                      |

\* All KXX models including KXXCW have a keyway

## Locking Positions



-01 Models  
2 Position lock



-03 & -11 Models  
3 Position lock



-05, -09 & -15 Models  
1 Position lock



-07 & -13 Models  
2 Position lock



-08 Models  
1 Position lock

**NOTE:** To prevent accidental actuation, toggle must be lifted before being actuated. When released, toggle will lock in place. Overtightening mounting nut may cause actuator to bind.

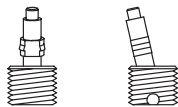
Locking levers supplied with bushing shown.

Bushing option code not required unless CW splashproof bushing ordered.

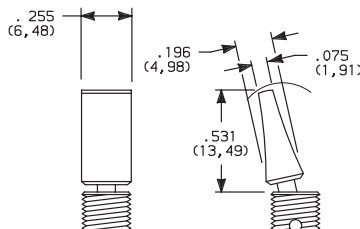
- L40** LEVER HANDLE WITHOUT CAP

- L41** PLASTIC LEVER HANDLE WITH ANTIROTATION AND CAP, P/N 4810

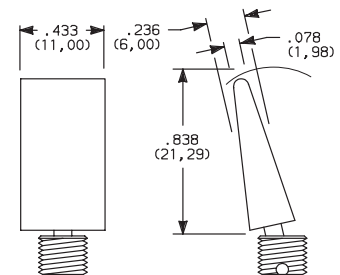
- L42** PLASTIC LEVER HANDLE WITH ANTIROTATION AND CAP, P/N 4811



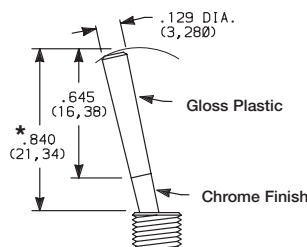
No color choice required



Finish: Matte (L41 & L42).



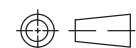
- L3** PLASTIC .940" HIGH



| OPTION CODE | PLASTIC ACTUATOR COLORS        |
|-------------|--------------------------------|
| <b>NONE</b> | No Actuator Color (L40 option) |
| <b>2</b>    | BLACK                          |
| <b>3</b>    | RED                            |

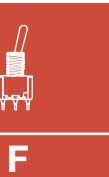
\* Add .070 (1,78) for D, D8 & D9 bushings, subtract .020 (0,51) for H3 bushing.

**NOTE:** Lever handle for L41 & L42 actuators supplied, but not installed. For interchangeability, order L40 actuator option and lever handles separately, see page F-16. L4X actuators not available with H4, Y1, Y4 bushings. Antirotation: Provides anti-'push-in' feature on actuator.



Third Angle  
Projection

Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change



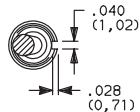
# 7000 Series Miniature Toggle Switches

## BUSHING



**Y**  
**Y9**

.350" HIGH,  
THREADED, KEYWAY  
.350" HIGH,  
UNTHREADED,  
KEYWAY



**NONE**

NO BUSHING

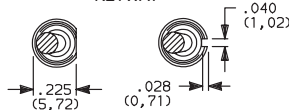
No bushing choice required  
with KXX, TXX actuators.  
(exception: Specify CW if  
splashproof bushing desired).

**D**

**D8**

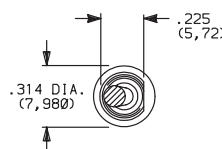
**D9**

.280" HIGH,  
THREADED, KEYWAY  
.280" HIGH, UNTHREADED,  
FLAT<sup>3</sup>  
.280" HIGH, UNTHREADED,  
KEYWAY



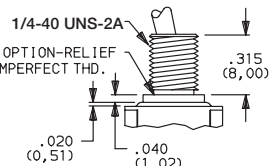
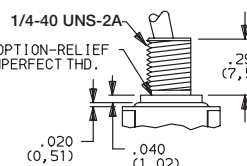
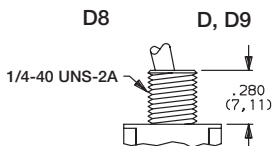
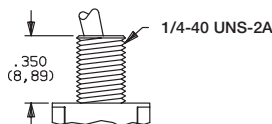
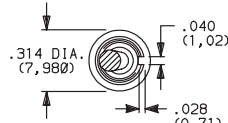
**H**

.296" HIGH, FLAT  
THREADED, HIGH TORQUE<sup>1,2</sup>



**H3**

.315" HIGH, KEYWAY  
THREADED, HIGH  
TORQUE<sup>1,2</sup>



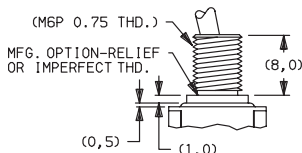
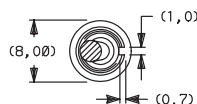
Y bushing standard with C,  
W-W5, Z or Z3 terminations.

D9 bushing standard with all terminations  
except C, W-W5, Z or Z3. Add .070 (1,78) to  
all actuators lengths with D, D8 & D9 bushings.

Subtract .020 (0,51) from all actuator  
lengths for H3 bushing.

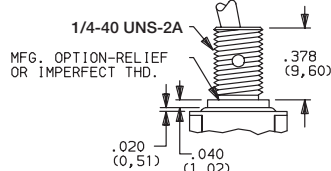
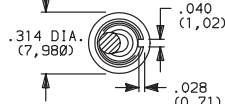
**H4**

8mm HIGH, KEYWAY, THREADED,  
METRIC HIGH TORQUE<sup>1,2,3</sup>



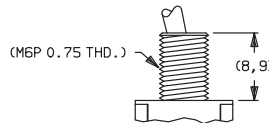
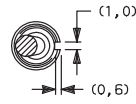
**Y1**

.378" HIGH, KEYWAY, THREADED,  
HIGH TORQUE<sup>1,2,4</sup>



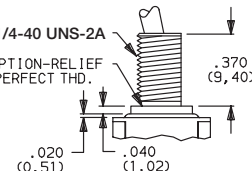
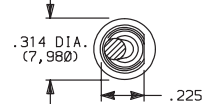
**Y3**

8.9mm HIGH, KEYWAY,  
THREADED, METRIC



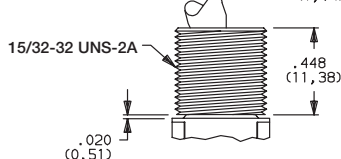
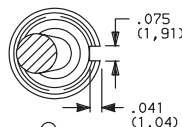
**Y4**

.378" HIGH, FLAT, THREADED,  
HIGH TORQUE<sup>1,2,5</sup>



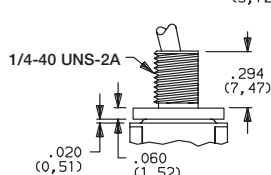
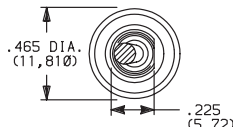
**CW**

THREADED, SPLASHPROOF<sup>1,2</sup>  
For T & T1 actuators.



IP67 Degree of protection, totally protected against  
dust, full-scale voltage protection, temporary immersion.  
Internal actuator seal standard.  
External bushing seal available separately from APM  
Hexseal, part # MFS-60064.

For actuators other than T, T1 and KXX.



IP67 Degree of protection, totally protected against  
dust, full-scale voltage protection,  
temporary immersion. Internal actuator seal  
and external bushing seal washer standard.  
IP65 degree of protection for LXP, MP, PX  
or SP with CW option.

| OPTION<br>CODE | BUSHING FINISH                                      |
|----------------|-----------------------------------------------------|
| <b>NONE</b>    | NICKEL on all bushings<br>except 'D8' satin chrome. |
| <b>2</b>       | BLACK                                               |

<sup>1</sup> Will withstand 12 in.-lbs. of torque with no distortion.

<sup>2</sup> CW, H, H3, H4, Y1 & Y4 bushings not available on single pole models  
with A4 terminations.

<sup>3</sup> D8 & H4 bushings available only with L, L1, L2, M & S actuators.

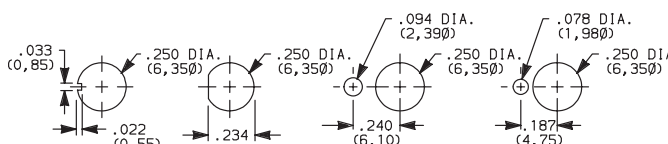
<sup>4</sup> Y1 bushing available only with LXP, MP, PX & SP actuators.

<sup>5</sup> Y4 bushing not available with L4X actuators.

**NOTE:** Two mounting nuts, locking ring and lockwasher supplied standard with  
threaded bushings. Black hardware is supplied when either black bushings or  
actuators are specified. Optional mounting nut and locking ring styles and finishes  
available, see Section N.

## PANEL MOUNTING

### 1/4 INCH BUSHING

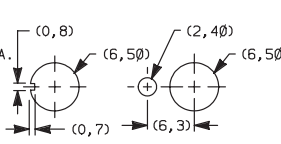


Without locking ring.

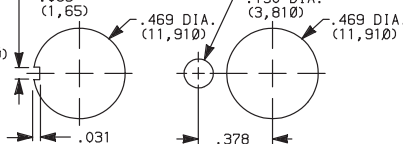
With standard locking ring.

With small locking ring.

### METRIC BUSHING



### 15/32 INCH BUSHING



Without locking ring.

With standard locking ring.



Third Angle  
Projection

Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change





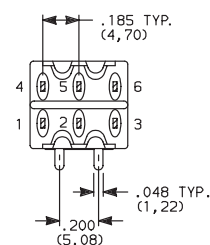
**TERMINATIONS** 



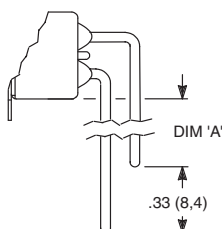
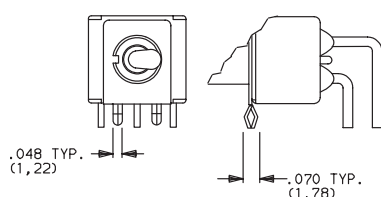
Diagram of a square component with dimensions:

- Width: .500 (12,70)
- Height: .450 (11,43)
- Thickness: .030 TYP. (0,76)

Technical drawing of a probe assembly. The drawing shows a cross-section of the assembly with various dimensions and labels. The dimensions are given in inches and millimeters (in parentheses). The labels include: .105 DIA. (2,670), .225 (5,72), .270 (6,86), .288 (7,32), .500 (12,70), .150 (3,81), .050 TYP. (1,27), EPOXY SEAL, and A. The drawing also shows a probe tip and a probe body.

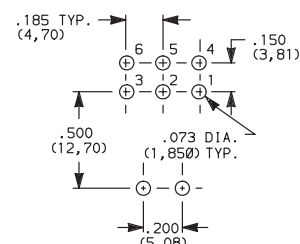


**AW1, AW4** RIGHT ANGLE, EXTENDED,  
PC THRU-HOLE



| OPTION CODE | DIM 'A'    |
|-------------|------------|
| <b>AW1</b>  | .40 (10,2) |
| <b>AW4</b>  | .50 (12,7) |

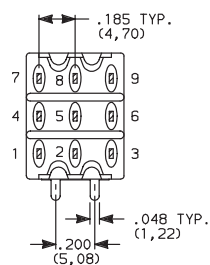
## PC MOUNTING



**A** RIGHT ANGLE, PC THRU-HOLE



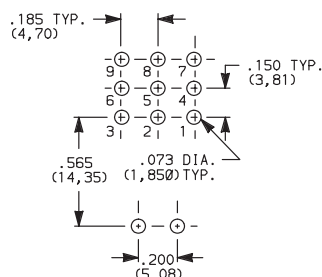
Technical drawing of a component with dimensions and labels. The drawing shows a cross-section of a device with a central cylindrical part and a larger rectangular block. Dimensions are given in inches and millimeters. Labels include ".105 DIA. (2,670)", ".324 (8,23)", ".270 (6,86)", ".288 (7,32)", ".565 (14,35)", ".150 TYP. (3,81)", ".050 TYP. (1,27)", "A", "A", "EPOXY SEAL", and "7".



SECTION A-A

Technical drawing of a transformer with three secondary windings. The top winding has a tap with a dimension of .18 (4,6). The bottom winding has a dimension of .33 TYP. (8,4).

## PC MOUNTING



F-10

Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

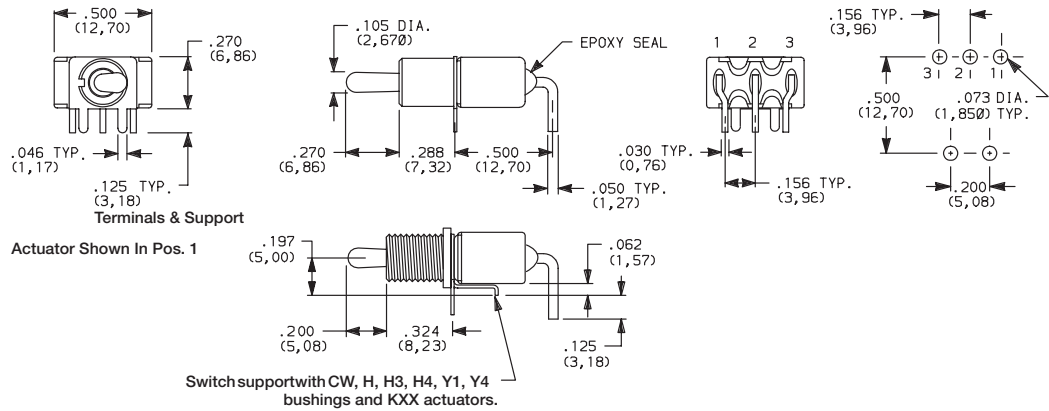
**www.ck-components.com**



# 7000 Series Miniature Toggle Switches

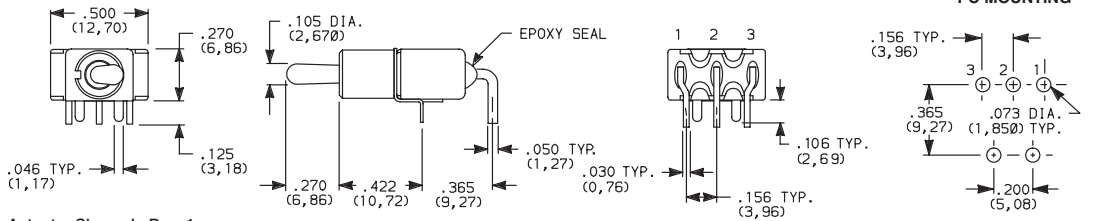
## TERMINATIONS

### A2 RIGHT ANGLE, PC THRU-HOLE, .156" PITCH



Actuator Shown In Pos. 1  
Switch support with CW, H, H3, H4, Y1, Y4 bushings and KXX actuators.  
Part No. Shown: 7101MHA2BE  
Not available with TXX actuators and I seal.  
Terminal bend radii and lead-in manufacturing option.

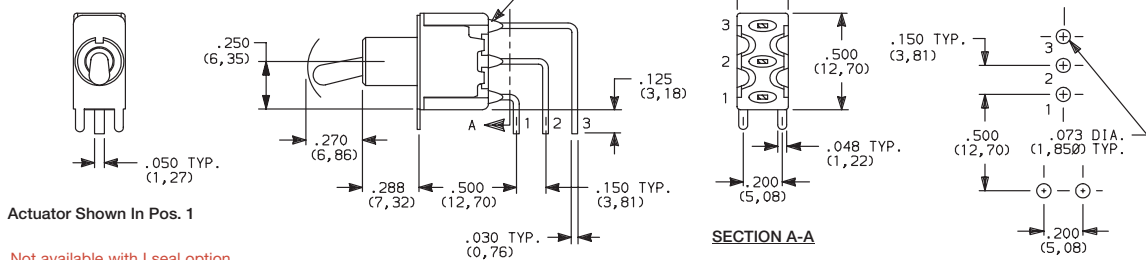
### A4 RIGHT ANGLE, PC THRU-HOLE .156" PITCH



Actuator Shown In Pos. 1  
Not available with KXX & TXX actuators, CW, H, H3, H4, Y1 & Y4 bushings, and I seal. Terminal bend radii and lead-in manufacturing option.

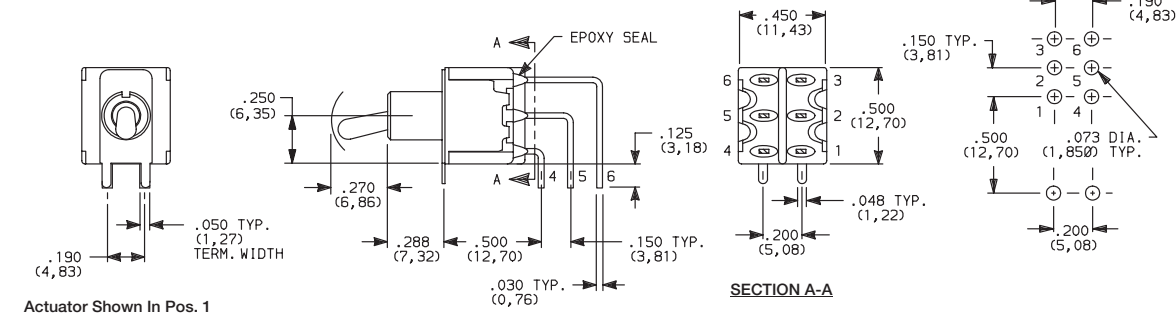
**NOTE:** The A4 option is available with any contact material and can be UL recognized and CSA certified. The PC pattern must clear switch support legs.

### AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH



Actuator Shown In Pos. 1  
Not available with I seal option.  
Terminal bend radii and lead-in manufacturing option.

### AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH



Actuator Shown In Pos. 1  
Not available with I seal option.  
Terminal bend radii and lead-in manufacturing option.



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

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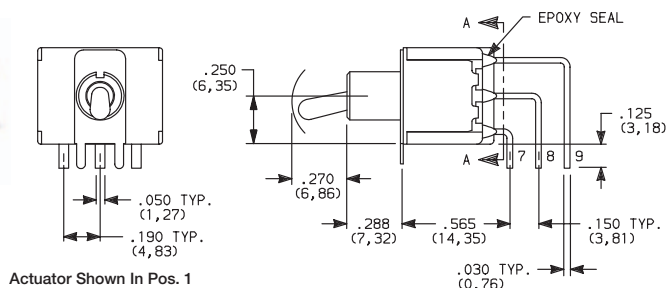
# 7000 Series Miniature Toggle Switches

## TERMINATIONS

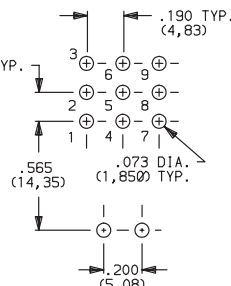
**AV2** VERTICAL RIGHT ANGLE, PC THRU-HOLE,  
.150" PITCH



**7301MD9AV2BE**  
Vertical Actuation  
**3PDT**



### PC MOUNTING

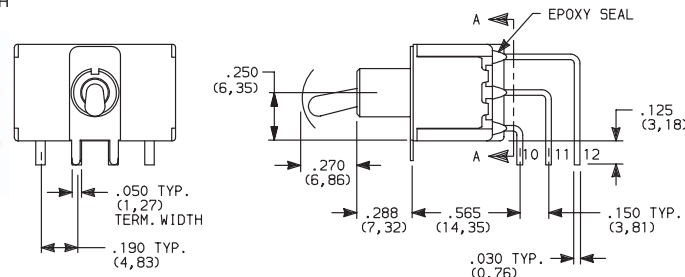


Not available with I seal option.  
Terminal bend radii and lead-in manufacturing option.

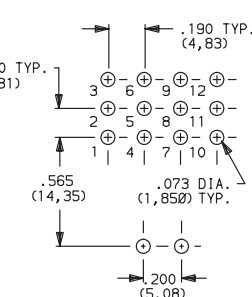
**AV2** VERTICAL RIGHT ANGLE, PC THRU-HOLE,  
.150" PITCH



**7401MD9AV2BE**  
Vertical Actuation  
**4PDT**



### PC MOUNTING



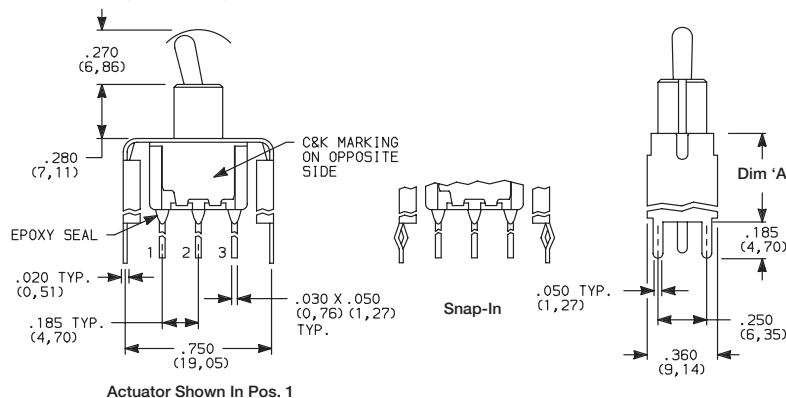
Not available with I seal option.  
Terminal bend radii and lead-in manufacturing option.

**V2, V6, V7, V8** VERTICAL MOUNT, V-BRACKET

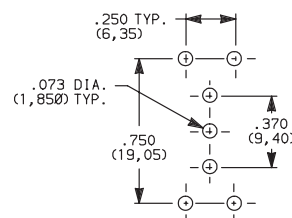
**V21, V71, V81** VERTICAL MOUNT, V-BRACKET, SNAP-IN



**7101MD9\_BE**  
**SPDT**



### PC MOUNTING



| OPTION CODE    | DIM 'A'      |
|----------------|--------------|
| <b>V2, V21</b> | .555 (14,10) |
| <b>V6</b>      | .460 (11,68) |
| <b>V7, V71</b> | .630 (16,00) |
| <b>V8, V81</b> | .953 (24,21) |

Not available with I seal option.



**F**

**Toggle**



Third Angle  
Projection

Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

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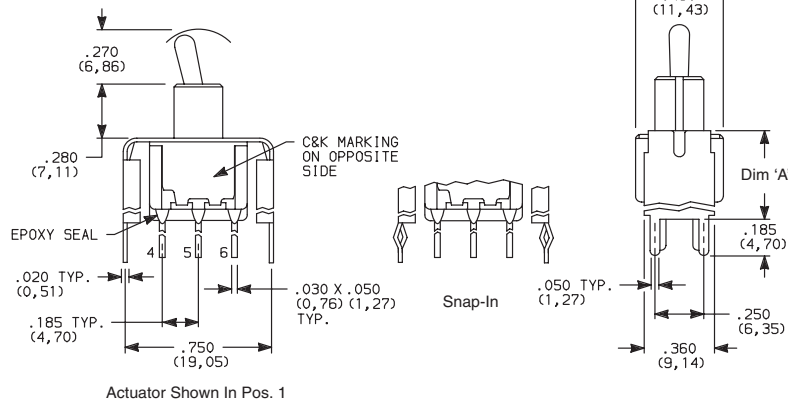
# 7000 Series Miniature Toggle Switches

## TERMINATIONS



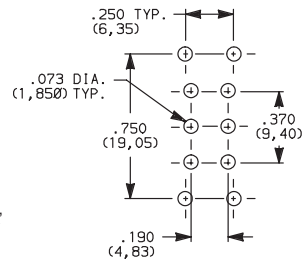
**V2, V6, V7, V8** VERTICAL MOUNT, V-BRACKET

**V21, V61, V71, V81** VERTICAL MOUNT, V-BRACKET, SNAP-IN



Not available with I seal option.

### PC MOUNTING



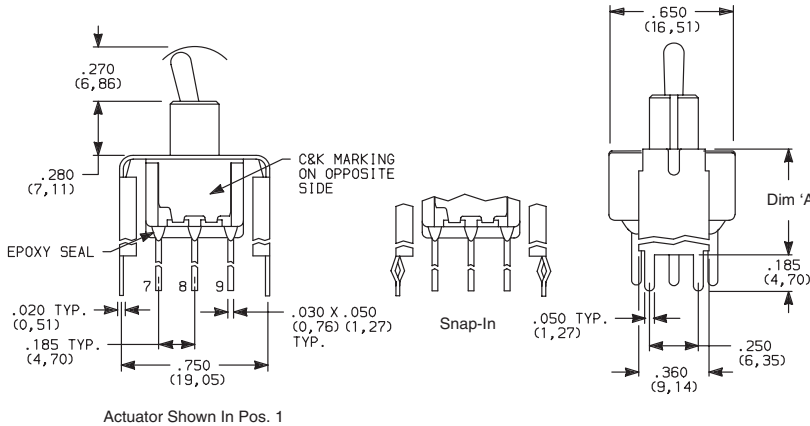
| OPTION CODE    | DIM 'A'      |
|----------------|--------------|
| <b>V2, V21</b> | .555 (14,10) |
| <b>V6, V61</b> | .460 (11,68) |
| <b>V7, V71</b> | .630 (16,00) |
| <b>V8, V81</b> | .953 (24,21) |



7201MD9\_BE  
DPDT

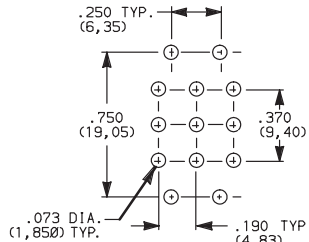
**V2, V7, V8** VERTICAL MOUNT, V-BRACKET

**V21, V71, V81** VERTICAL MOUNT, V-BRACKET, SNAP-IN



Not available with I seal option.

### PC MOUNTING



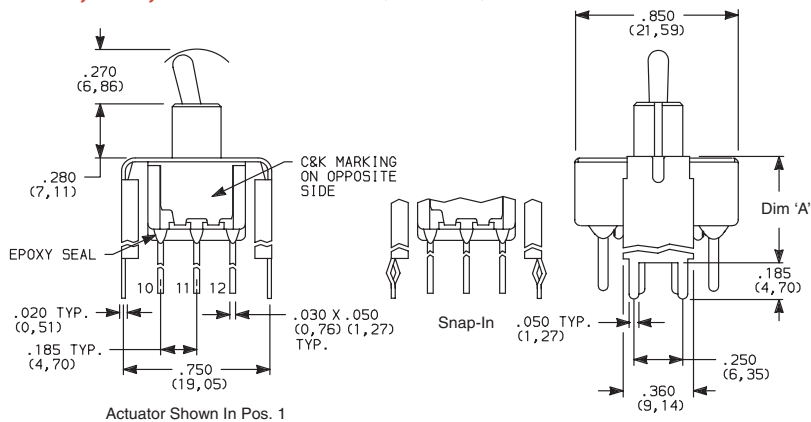
| OPTION CODE    | DIM 'A'      |
|----------------|--------------|
| <b>V2, V21</b> | .555 (14,10) |
| <b>V7, V71</b> | .630 (16,00) |
| <b>V8, V81</b> | .953 (24,21) |



7301MD9\_BE  
3PDT

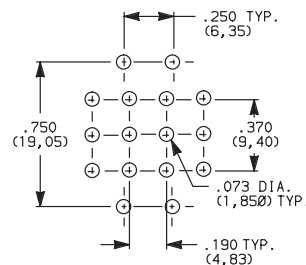
**V2, V7, V8** VERTICAL MOUNT, V-BRACKET

**V21, V71, V81** VERTICAL MOUNT, V-BRACKET, SNAP-IN



Not available with I seal option.

### PC MOUNTING



| OPTION CODE    | DIM 'A'      |
|----------------|--------------|
| <b>V2, V21</b> | .555 (14,10) |
| <b>V7, V71</b> | .630 (16,00) |
| <b>V8, V81</b> | .953 (24,21) |



7401MD9\_BE  
4PDT



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

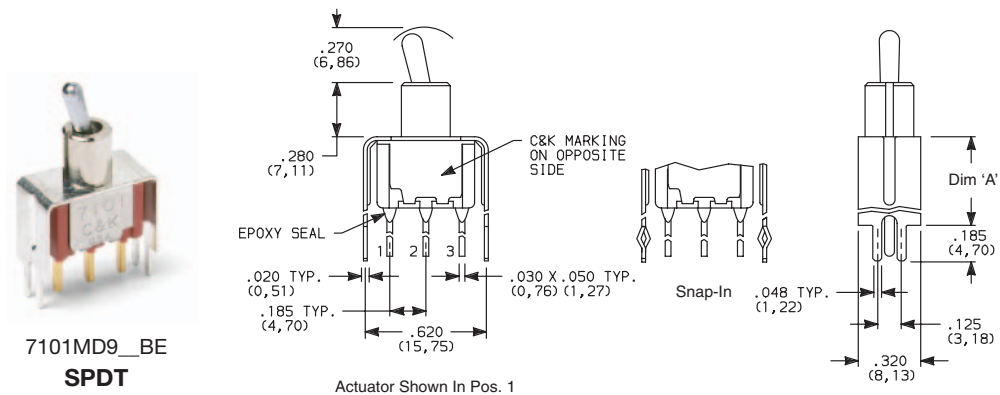


# 7000 Series Miniature Toggle Switches

## TERMINATIONS

**V3, V4, V9** VERTICAL MOUNT, V-BRACKET

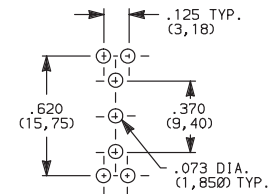
**V31, V41** VERTICAL MOUNT, V-BRACKET, SNAP-IN



7101MD9\_BE  
SPDT

Actuator Shown In Pos. 1

### PC MOUNTING

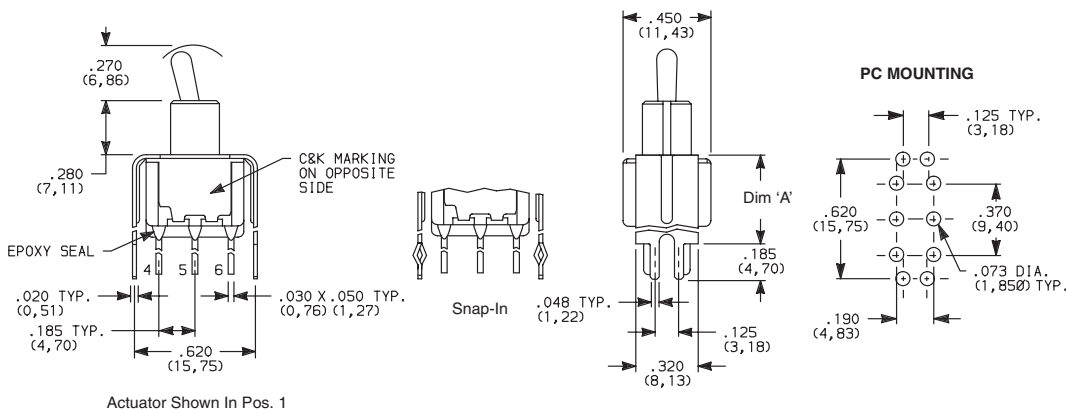


| OPTION CODE    | DIM 'A'       |
|----------------|---------------|
| <b>V3, V31</b> | .460 (11,68)  |
| <b>V4, V41</b> | .630 (16,00)  |
| <b>V9</b>      | 1.150 (29,21) |

Not available with I seal option.

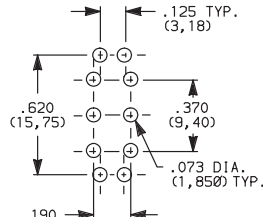
**V3, V4, V9** VERTICAL MOUNT, V-BRACKET

**V31, V41** VERTICAL MOUNT, V-BRACKET, SNAP-IN



Actuator Shown In Pos. 1

### PC MOUNTING



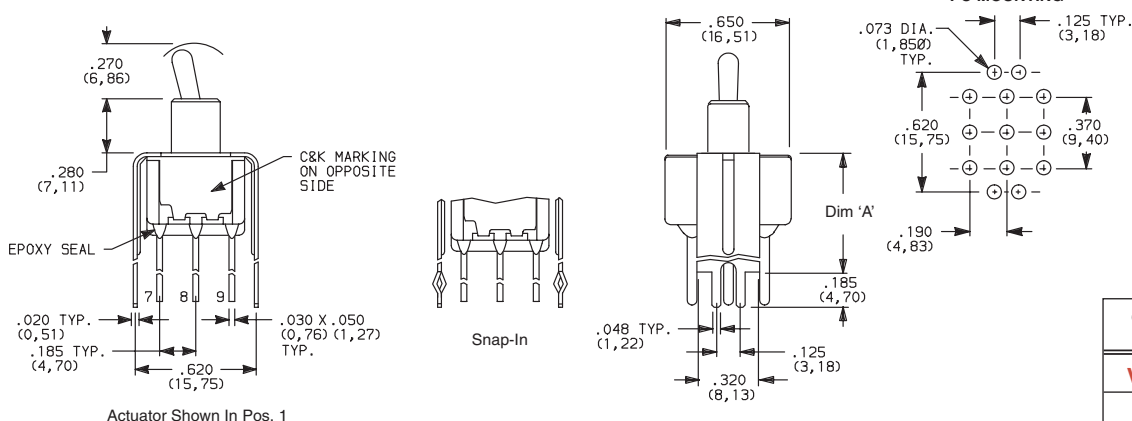
7201MD9\_BE  
DPDT

| OPTION CODE    | DIM 'A'       |
|----------------|---------------|
| <b>V3, V31</b> | .460 (11,68)  |
| <b>V4, V41</b> | .630 (16,00)  |
| <b>V9</b>      | 1.150 (29,21) |

Not available with I seal option.

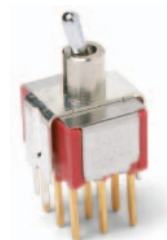
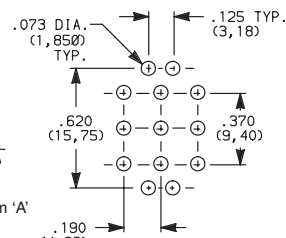
**V4, V9** VERTICAL MOUNT, V-BRACKET

**V41** VERTICAL MOUNT, V-BRACKET, SNAP-IN



Actuator Shown In Pos. 1

### PC MOUNTING



7301MD9\_BE  
3PDT

| OPTION CODE    | DIM 'A'       |
|----------------|---------------|
| <b>V4, V41</b> | .630 (16,00)  |
| <b>V9</b>      | 1.150 (29,21) |

Not available with I seal option.



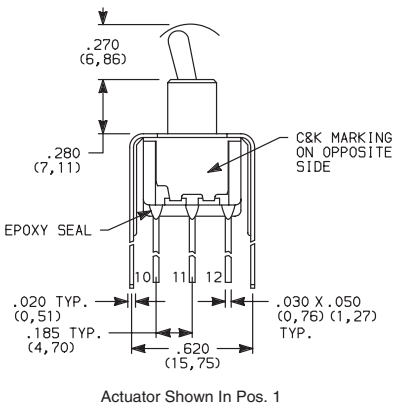
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

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# 7000 Series Miniature Toggle Switches

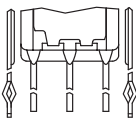
## TERMINATIONS

- V4, V9** VERTICAL MOUNT, V-BRACKET
- V41** VERTICAL MOUNT, V-BRACKET, SNAP-IN

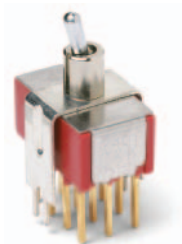
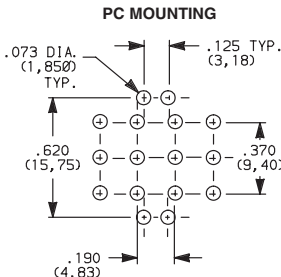
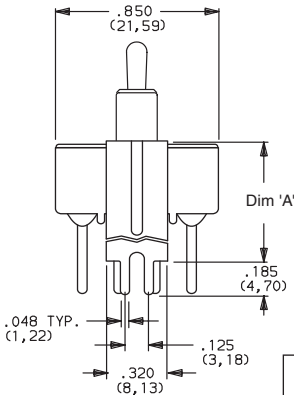


Actuator Shown In Pos. 1

Not available with I seal option.



Snap-In



7401MD9\_BE  
4PDT

| OPTION CODE | DIM 'A'       |
|-------------|---------------|
| V4, V41     | .630 (16,00)  |
| V9          | 1.150 (29,21) |

## CONTACT MATERIAL

| OPTION CODE | CONTACT MATERIAL                   | TERMINAL PLATING       | RATINGS                           |                                                                                     |
|-------------|------------------------------------|------------------------|-----------------------------------|-------------------------------------------------------------------------------------|
| B           | GOLD <sup>1</sup>                  | GOLD <sup>1</sup>      | LOW LEVEL/<br>DRY CIRCUIT         | 0.4 VA MAX. @ 20 V AC OR DC MAX.                                                    |
| P           |                                    | MATTE-TIN <sup>6</sup> |                                   |                                                                                     |
| Q           | SILVER <sup>4,5</sup>              | SILVER <sup>5</sup>    | POWER                             | 5 AMPS @ 120 V AC OR 28 V DC; 2 AMPS @ 250 V AC.                                    |
| S           |                                    | MATTE-TIN <sup>6</sup> |                                   |                                                                                     |
| G           | GOLD OVER<br>SILVER <sup>2,3</sup> | GOLD <sup>3</sup>      | LOW LEVEL/DRY<br>CIRCUIT OR POWER | 0.4 VA MAX @ 20 V AC OR DC MAX. OR 5 AMPS @ 120 V AC OR 28 V DC; 2 AMPS @ 250 V AC. |
| R           |                                    | MATTE-TIN <sup>6</sup> |                                   |                                                                                     |

\* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

- <sup>1</sup> CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.
- <sup>2</sup> END CONTACTS: Coin silver, with gold plate over nickel plate.
- <sup>3</sup> CENTER CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.
- <sup>4</sup> END CONTACTS: Coin silver, silver plated.
- <sup>5</sup> CENTER CONTACT & ALL TERMINALS: Copper alloy, silver plated.
- <sup>6</sup> TERMINALS: Copper alloy, with matte tin alloy nickel plate.

**NOTE:** Any models supplied with P, S, R, Q, B or G contact material are RoHS compliant.

U11-U415 model numbers **C&K** **us** with all options when ordered with G, S, R, or Q contact material.

B contact material standard with all terminations except C, Z & Z3.

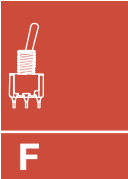
Q contact material standard with C, Z & Z3 terminations.

P, S & R contact materials not available with Z & Z3 terminations.



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

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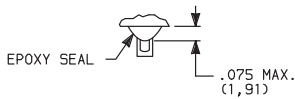


Toggle

# 7000 Series Miniature Toggle Switches

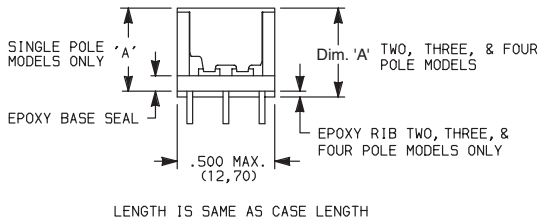
## SEAL

**E** EPOXY SEAL



Compatible with "bottom-wash" PC board cleaning methods.

**I** EPOXY POTTED BASE



| NO. POLES | DIM 'A'      |
|-----------|--------------|
| SP        | .410 (10,41) |
| DP        | .440 (11,18) |
| 3P        | .505 (12,83) |
| 4P        | .505 (12,83) |

Available with C, W-W5, Z & Z3 terminations only.

## AVAILABLE HARDWARE

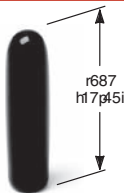
Cap



**PART NO.**  
**896801000** WHITE  
**896802000** BLACK  
**896803000** RED

Material: Polyethylene  
 Finish: Matte

Cap



**PART NO.**  
**763701000** WHITE  
**763702000** BLACK  
**763703000** RED

Material: Vinyl  
 Finish: Matte

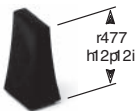
Cap



**PART NO.**  
**706201000** WHITE  
**706202000** BLACK  
**706203000** RED

Material: Vinyl  
 Finish: Matte

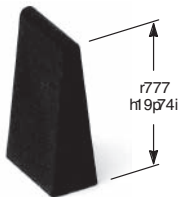
L41 Lever handle



**PART NO.**  
**481001000** WHITE  
**481002263** BLACK  
**481003000** RED

Material: Nylon  
 Finish: Matte

L42 Lever handle



**PART NO.**  
**481101000** WHITE  
**481102263** BLACK  
**481103000** RED

Material: Nylon  
 Finish: Matte

Fits Z3 Termination  
female connector



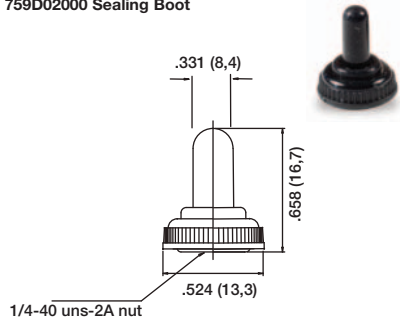
**PART NO.**  
**530100000**

Available in loose pieces.

**NOTE:** Additional nuts, locking rings and lockwashers available separately, see Section N.

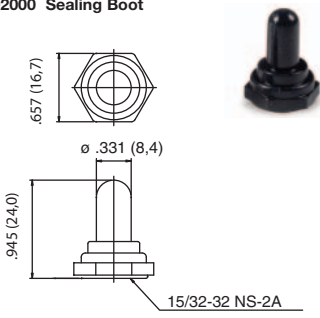
Other colors available, consult Customer Service Center.

759D02000 Sealing Boot



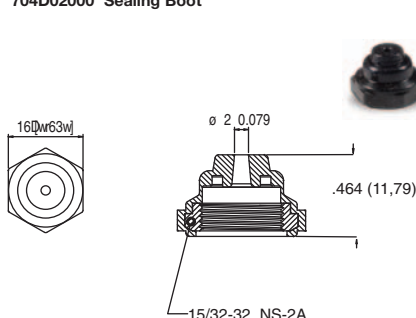
**NOTE:** For use with S actuator style when combined with D, H, H3, Y, and Y4 bushings

703D02000 Sealing Boot



**NOTE:** For use with T and TP style actuators. **Can not be used for Switch Functions: 7103, 7203, 7303, 7403, 7107, 7207, 7307, 7407.**

704D02000 Sealing Boot



**NOTE:** For use with T, TP and T2P style actuators. Can not be used for Switch Functions: 7103, 7203, 7303, 7403, 7107, 7207, 7307, and 7407.



Third Angle  
Projection

Dimensions are shown: Inches (mm)  
 Specifications and dimensions subject to change

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# Mouser Electronics

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## C&K Components:

[7401MDZQE](#) [7201MDV61QE](#) [7303MYZQE](#) [7101K9V3BE2](#) [7103L40CWV31KE](#) [7203SYZBE](#) [7101SYV31QE](#)  
[7407P3H3ZQE](#) [7101MD9V4BE](#) [7103MYZQE](#) [7401P3YZQE](#) [7105P3YWBE](#) [7101P3YWQE](#) [7107SDZBE](#)  
[7211MDAV2BE](#) [7101T1CWCQE](#) [7101SD9V31KE](#) [7101SYV3BE](#) [7101K9AKE](#) [7208MD9ABE](#) [7108P3YZQE](#)  
[7208SYZQE](#) [7208P3YZQE](#) [7108MD9V3QE](#) [7108MD9AQE](#) [7108K2ZQE](#) [7108SYZQE](#) [7107TCQE](#) [7215SYZQE](#)  
[7415SYZQE](#) [7103K2AV2BE](#) [7211P3YCQE](#) [7205TCQE](#) [7105TCQE](#) [7207K12ZBE](#) [7205P3Y4CQE](#) [7211SYCQE](#)  
[7411SYZQE](#) [7401P3YZQE2](#) [7211SYAQE](#) [7211SYZQE](#) [7401MDCQE](#) [7205TCWCQE](#) [7207SYCQE](#) [7213P1YZQE2](#)  
[7413SYZQE](#) [7213SYZQE](#) [7103K2V2QE](#) [7305P1H3ZQE](#) [7211MD9ABE](#) [7201P3DZQE](#) [7105SYZBE](#)  
[7105P4D9ZQE](#) [7205TPZQE](#) [7205P3YZQE](#) [7107MHA2BE](#) [7105SYZQE](#) [7105P3D9V3BE](#) [7105MD9ABE](#)  
[7405SYZQE](#) [7305SYZQE](#) [7105L42YZQE2](#) [7205SYZQE](#) [7105P3YCQE](#) [7105SYCQE](#) [7103MYZBE](#) [7301SYAQE](#)  
[7101SYZQI](#) [7201K2CQE](#) [7103P3D9V3BE](#) [7208TCWZQE](#) [7203SYCQE](#) [7203SYZQE](#) [7103MD9AV2BE](#)  
[7203L1YZQE](#) [7403SYZQE](#) [7103L1YZQE](#) [7203SYAQE](#) [7103MD9ABE](#) [7203MDZQE](#) [7203TZQE](#) [7103TZQE](#)  
[7103SYZBE](#) [7303SYZQE](#) [7103P3YZQE22](#) [7103MD9V3BE](#) [7403SYZBE](#) [7103SYZQE](#) [7103SD9ABE](#) [7103P3YZQE](#)  
[7303SYCBE](#) [7103SYCQE](#) [7107SDV3BE](#) [7105TZQE](#) [7101L41YZQE2](#) [7101SDCQE](#) [7211MD9ALE](#) [7211MD9AGE](#)  
[7201K2CWZQE](#) [7201MD9V3BE](#)