7000 Series
Miniature Toggle Switches

Features/Benefits

- Multi-pole and multi-position
- Wide variety of actuator and termination options
- Epoxy terminal-seal compatible with bottom wash cleaning
- RoHS complaint models available

Typical Applications

- Telecommunications
- Instrumentation
- Medical equipment

Specifications

CONTACT RATING: B contact material: 0.4 VA max. @ 20 V AC or DC max. Q contact material: 5 AMPs @ 120 V AC or 28 V DC; 2 AMPs @ 250 V AC. See page F-15 for additional ratings.

ELECTRICAL LIFE: 7X01 and UX1 models: 100,000 make-and-break cycles at full load. All other models: 40,000 cycles.

CONTACT RESISTANCE: Below 10 mΩ typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 10^9 Ω min.

DIELECTRIC STRENGTH: 1000 Vrms min. @ sea level.

OPERATING TEMPERATURE: –30°C to 85°C.

SOLDERABILITY: Per MIL-STD-202F method 208D, or EIA RS-186E method 9 (1 hour steam aging).

For materials see page F-4.

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

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

Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages F-4 thru F-16. For additional options not shown in catalog, consult our Customer Service Center.

Switch Function

<table>
<thead>
<tr>
<th>Switch Function</th>
<th>Actuator</th>
<th>Actuator Color/Finish</th>
<th>Contact Material</th>
<th>Dielectric Strength</th>
<th>Operating Temperature</th>
<th>Solderability</th>
</tr>
</thead>
<tbody>
<tr>
<td>7101  SP On-None-On</td>
<td>M .200&quot; high</td>
<td>Gold</td>
<td>B Gold</td>
<td>–30°C to 85°C</td>
<td>Per MIL-STD-202F method 208D, or EIA RS-186E method 9 (1 hour steam aging)</td>
<td></td>
</tr>
<tr>
<td>7103  SP On-Off-On</td>
<td>P3 Flattled, anti-rotation, .450&quot; high</td>
<td>Gold over silver</td>
<td>P Gold over silver</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7105  SP Mom.-Off-Mom.</td>
<td>S .420&quot; high</td>
<td>Gold over silver</td>
<td>P Gold over silver</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7107  SP On-Off-Mom.</td>
<td>T .687&quot; high, 15/32 bushing</td>
<td>Gold over silver</td>
<td>P Gold over silver</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7108  SP On-None-Mom.</td>
<td>K2 Locking lever, .704&quot; high</td>
<td>Gold over silver</td>
<td>P Gold over silver</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7109  SP None-On-Mom.</td>
<td>K9 Locking lever, .704&quot; high</td>
<td>Gold over silver</td>
<td>P Gold over silver</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7201  DP On-None-On</td>
<td>K12 Locking lever, .732&quot; high</td>
<td>Gold over silver</td>
<td>P Gold over silver</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7203  DP On-Off-On</td>
<td>L .840&quot; high</td>
<td>Gold over silver</td>
<td>P Gold over silver</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7205  DP Mom.-Off-Mom.</td>
<td>L1 .640&quot; high</td>
<td>Gold over silver</td>
<td>P Gold over silver</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7207  DP On-Off-Mom.</td>
<td>L1P Anti-rotation, .640&quot; high</td>
<td>Gold over silver</td>
<td>P Gold over silver</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7208  DP On-None-Mom.</td>
<td>L2 .550&quot; high</td>
<td>Gold over silver</td>
<td>P Gold over silver</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7211  DP On-None-Mom.</td>
<td>L2P Anti-rotation, .550&quot; high</td>
<td>Gold over silver</td>
<td>P Gold over silver</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7213  DP On-None-Mom.</td>
<td>L3 Plastic .940&quot; inch</td>
<td>Gold over silver</td>
<td>P Gold over silver</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7215  DP Mom.-Off-Mom.</td>
<td>L40 Lever handle without cap</td>
<td>Gold over silver</td>
<td>P Gold over silver</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7301  3P On-None-On</td>
<td>L41 .531&quot; high lever handle with cap</td>
<td>Gold over silver</td>
<td>P Gold over silver</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7303  3P On-Off-On</td>
<td>L42 .838&quot; high lever handle with cap</td>
<td>Gold over silver</td>
<td>P Gold over silver</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7305  3P Mom.-Off-Mom.</td>
<td>MP Anti-rotation, .200&quot; high</td>
<td>Gold over silver</td>
<td>P Gold over silver</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7308  3P On-None-Mom.</td>
<td>P1 Flattled, anti-rotation, .840&quot; high</td>
<td>Gold over silver</td>
<td>P Gold over silver</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7401  4P On-None-On</td>
<td>P4 Flattled, antiorotation, .250&quot; high</td>
<td>Gold over silver</td>
<td>P Gold over silver</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7403  4P On-Off-On</td>
<td>SP Anti-rotation, .420&quot; high</td>
<td>Gold over silver</td>
<td>P Gold over silver</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7405  4P Mom.-Off-Mom.</td>
<td>T1 .487&quot; high, 15/32 bushing</td>
<td>Gold over silver</td>
<td>P Gold over silver</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7408  4P On-None-Mom.</td>
<td>T1P Anti-rotation, .487&quot; high, 15/32 bushing</td>
<td>Gold over silver</td>
<td>P Gold over silver</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7411  4P On-Off-On</td>
<td>T2P Flattled, anti-rotation, .610&quot; high, 15/32 bushing</td>
<td>Gold over silver</td>
<td>P Gold over silver</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7413  4P Mom.-Off-Mom.</td>
<td>TP Anti-rotation, .687&quot; high, 15/32 bushing</td>
<td>Gold over silver</td>
<td>P Gold over silver</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Terminations

A Right angle, PC thru-hole | V .460 high, V-bracket | S Solder lug |
A2 Vert. right angle, PC thru-hole | C PC Thru-hole |
A3 Right angle, PC thru-hole | V3 .460 high, V-bracket |
A4 Right angle, PC thru-hole | V6 .460 high, V-bracket |
AW1 Right angle, extended, PC thru-hole | V7 .630 high, V-bracket |
AW4 Right angle, extended, PC thru-hole | V8 .953 high, V-bracket |
AW5 .555 high, V-bracket | V9 1.150 high, V-bracket |
AW7 .630 high, V-bracket | V31 .460 high, snap-in V-bracket |
AW8 .953 high, V-bracket | V41 .630 high, snap-in V-bracket |
AW9 .953 high, V-bracket | V71 .630 high, snap-in V-bracket |
AV1 .555 high, V-bracket | V81 .953 high, snap-in V-bracket |
AV2 Vert. right angle, PC thru-hole | W .750" long, wire wrap |
AV3 .460 high, V-bracket | W1 .964" long, wire wrap |
AV4 .630 high, snap-in V-bracket | W3 .425" long, wire wrap |
AV5 .630 high, snap-in V-bracket | W4 1.062" long, wire wrap |
AV6 .953 high, V-bracket | W5 1.305" long, wire wrap |
AV7 .953 high, V-bracket | Z3 Quick Connect |

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

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## 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.


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

### SWITCH FUNCTION

<table>
<thead>
<tr>
<th>NO. POLES</th>
<th>MODEL NO.</th>
<th>UL* MODEL NO.</th>
<th>SWITCH FUNCTION</th>
<th>CONNECTED TERMINALS</th>
<th>SCHEMATIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP</td>
<td>7101</td>
<td>U11</td>
<td>ON</td>
<td>NONE</td>
<td>ON</td>
</tr>
<tr>
<td></td>
<td>7103</td>
<td>U13</td>
<td>ON</td>
<td>OFF</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>7105</td>
<td>U15</td>
<td>MOM.</td>
<td>OFF</td>
<td>MOM.</td>
</tr>
<tr>
<td></td>
<td>7107</td>
<td>U17</td>
<td>ON</td>
<td>OFF</td>
<td>MOM.</td>
</tr>
<tr>
<td></td>
<td>7108</td>
<td>U18</td>
<td>NONE</td>
<td>ON</td>
<td>MOM.</td>
</tr>
<tr>
<td></td>
<td>7109</td>
<td>U19</td>
<td>NONE</td>
<td>ON</td>
<td>MOM.</td>
</tr>
</tbody>
</table>

Part number shown: 7101SYZBE

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

Part number shown: 7201SYZQE

MOM. = Momentary

** U11-U415 model nos. with all options when ordered with G, R, Q or S contact material.
## 7000 Series
Miniature Toggle Switches

### SWITCH FUNCTION

<table>
<thead>
<tr>
<th>NO. POLES</th>
<th>MODEL NO.</th>
<th>UL** MODEL NO.</th>
<th>CONNECTED TERMINALS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>POS. 1</td>
</tr>
<tr>
<td>3P</td>
<td>7301</td>
<td>U31</td>
<td>ON</td>
</tr>
<tr>
<td></td>
<td>7303</td>
<td>U33</td>
<td>ON</td>
</tr>
<tr>
<td></td>
<td>7305</td>
<td>U35</td>
<td>MOM.</td>
</tr>
<tr>
<td></td>
<td>7307</td>
<td>U37</td>
<td>ON</td>
</tr>
<tr>
<td></td>
<td>7308</td>
<td>U38</td>
<td>ON</td>
</tr>
</tbody>
</table>

#### 3PDT

Part number shown: 7301 SYZQE

#### 4P

<table>
<thead>
<tr>
<th>NO. POLES</th>
<th>MODEL NO.</th>
<th>UL** MODEL NO.</th>
<th>CONNECTED TERMINALS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7401</td>
<td>U41</td>
<td>ON</td>
</tr>
<tr>
<td></td>
<td>7403</td>
<td>U43</td>
<td>ON</td>
</tr>
<tr>
<td></td>
<td>7405</td>
<td>U45</td>
<td>MOM.</td>
</tr>
<tr>
<td></td>
<td>7408</td>
<td>U48</td>
<td>ON</td>
</tr>
<tr>
<td></td>
<td>7411*</td>
<td>U411*</td>
<td>ON</td>
</tr>
<tr>
<td></td>
<td>7413*</td>
<td>U413*</td>
<td>ON</td>
</tr>
<tr>
<td></td>
<td>7415*</td>
<td>U415*</td>
<td>MOM.</td>
</tr>
</tbody>
</table>

#### 4PDT

Part number shown: 7401 SYZQE

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

### Terminal Numbers
For Reference Only

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

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7000 Series
Miniature Toggle Switches

ACTUATOR

S .420" HIGH 1
SP ANTIROTATION, .420" HIGH 2,3

M .200" HIGH 1
MP ANTIROTATION, .200" HIGH 2,3

L, L1, L2 .840", .640", .550" HIGH 1
L1P, L2P ANTIROTATION, .840", .640", .550" HIGH 2,3

*DIM. 'A'

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

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

Caps are available separately, see page F-16.

*P1 FLATTED WITH ANTIROTATION, .840" HIGH 2,3

*P3 FLATTED WITH ANTIROTATION, .450" HIGH 2,3

*P4 FLATTED WITH ANTIROTATION, .250" HIGH 2,3

NOTE:

1 L, L1, L2, M, S & TXX actuators not available with Y1 bushing.
2 L1P, L2P, MP, P1, P3, P4, SP & TXX actuators not available with D8 & H4 bushings.
3 Antirotation: Provides anti-'push-in' feature on actuator.

*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.

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

OPTION CODE ACTUATOR FINISH
NONE BRIGHT CHROME-With Nickel Plated Bushing
2 BLACK
S SATIN CHROME

Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change
www.ck-components.com
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)

Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change
www.ck-components.com

FToggle
7000 Series
Miniature Toggle Switches

Replaces K, K8

Replaces K1, K18

Gloss Plastic
Chrome Finish
No color choice required.

-03 & -11 Models 3 Position lock
-05, -09 & -15 Models 2 Position lock
-07 & -13 Models 1 Position lock
-01 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

* 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.

ACTUATOR FINISH/COLOR

OPTION CODE ACTUATOR CAP FINISH
NONE NATURAL ALUMINUM—With Nickle Plated Bushing
2 BLACK ANODIZED ALUMINUM
3 RED ANODIZED ALUMINUM
7 BLUE ANODIZED ALUMINUM

* All KXX models including KXXCW have a keyway

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.

Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change
www.ck-components.com

F-7
### 7000 Series
#### Miniature Toggle Switches

<table>
<thead>
<tr>
<th>BUSHING</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>NONE</td>
<td>NO BUSHING</td>
</tr>
<tr>
<td>Y9</td>
<td>.350* HIGH, THREADED, KEYWAY</td>
</tr>
<tr>
<td>D8</td>
<td>.280* HIGH, UNTHREADED, KEYWAY</td>
</tr>
<tr>
<td>D9</td>
<td>.280* HIGH, UNTHREADED, FLAT</td>
</tr>
<tr>
<td>H</td>
<td>.295* HIGH, FLAT, THREADED, HIGH TORQUE</td>
</tr>
<tr>
<td>H3</td>
<td>.315* HIGH, KEYWAY, THREADED, HIGH TORQUE</td>
</tr>
<tr>
<td>Y</td>
<td>.375* HIGH, THREADED, KEYWAY</td>
</tr>
<tr>
<td>Y3</td>
<td>.375* HIGH, FLAT, THREADED, HIGH TORQUE</td>
</tr>
<tr>
<td>H4</td>
<td>8mm HIGH, KEYWAY, THREADED, METRIC, HIGH TORQUE</td>
</tr>
<tr>
<td>Y4</td>
<td>.375* HIGH, FLAT, THREADED, HIGH TORQUE</td>
</tr>
<tr>
<td>CW</td>
<td>THREADED, SPLASHPROOF</td>
</tr>
</tbody>
</table>

**.dimensions are shown: Inches (mm)**

Specifications and dimensions subject to change

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**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.

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**OPTION CODE**

<table>
<thead>
<tr>
<th>CODE</th>
<th>BUSHING FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y9</td>
<td>.350* HIGH, THREADED, KEYWAY</td>
</tr>
<tr>
<td>D8</td>
<td>.280* HIGH, UNTHREADED, KEYWAY</td>
</tr>
<tr>
<td>D9</td>
<td>.280* HIGH, UNTHREADED, FLAT</td>
</tr>
<tr>
<td>H</td>
<td>.295* HIGH, FLAT, THREADED, HIGH TORQUE</td>
</tr>
<tr>
<td>H3</td>
<td>.315* HIGH, KEYWAY, THREADED, HIGH TORQUE</td>
</tr>
<tr>
<td>Y</td>
<td>.375* HIGH, THREADED, KEYWAY</td>
</tr>
<tr>
<td>Y3</td>
<td>.375* HIGH, FLAT, THREADED, HIGH TORQUE</td>
</tr>
<tr>
<td>H4</td>
<td>8mm HIGH, KEYWAY, THREADED, METRIC, HIGH TORQUE</td>
</tr>
<tr>
<td>Y4</td>
<td>.375* HIGH, FLAT, THREADED, HIGH TORQUE</td>
</tr>
<tr>
<td>CW</td>
<td>THREADED, SPLASHPROOF</td>
</tr>
</tbody>
</table>

---

**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.**

---

**Dimensions shown:** Inches (mm)

Specifications and dimensions subject to change
# 7000 Series
## Miniature Toggle Switches

### TERMINATIONS

#### Z
- **SOLDER LUG**
- **EPOXY SEAL**
- **.030 (0.76) Thk.**

#### C
- **PC THRU-HOLE**
- **EPoxy SEAL**
- **.030 THK. (0.76)**

#### A
- **RIGHT ANGLE, PC THRU-HOLE**
- **Actuator Shown In Pos. 1**
- **Switch support with CW, H, H3, H4, Y1, Y4 bushings and KXX actuators.**

#### W, W1, W3, W4, W5
- **WIRE WRAP**
- **OPTION CODE | DIM 'A'**
  - **W** | .750 (19.05)
  - **W1** | .564 (14.33)
  - **W3** | .425 (10.80)
  - **W4** | 1.062 (26.97)
  - **W5** | 1.305 (33.15)

### SPECIFICATIONS AND DIMENSIONS

#### SPDT thru 4PDT
- **TERMINATIONS**
  - **Z3**
    - **QUICK CONNECT**
    - **.030 (0.76) Thk.**

#### PC MOUNTING
- **.030 (0.76) Thk.**

#### TERMINATIONS
- **A3**
  - **RIGHT ANGLE, SNAP-IN, PC THRU-HOLE**
    - **.048 TYP. (1.22)**
  - **.080 TYP. (2.03)**

#### AW1, AW4
- **RIGHT ANGLE, EXTENDED, PC THRU-HOLE**
  - **DIM 'A'**
    - **AW1** | .72 (18.3)
    - **AW4** | .83 (21.1)

#### PC MOUNTING
- **.073 DIA. (1.87) TYP.**
- **.073 DIA. (1.87) TYP.**

### NOTES
- **Not available with P, R or S contact materials.**
- **Mating quick connector available, order part number 530100000, page F-16.**
- **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
### 7000 Series
Miniature Toggle Switches

#### TERMINATIONS

<table>
<thead>
<tr>
<th>Option Code</th>
<th>DIM 'A'</th>
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<tr>
<td>A2</td>
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<tr>
<td>A3</td>
<td>.38 (9.7)</td>
</tr>
<tr>
<td>A4</td>
<td>.38 (9.7)</td>
</tr>
<tr>
<td>A5</td>
<td>.38 (9.7)</td>
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</table>

**TERMINALS & SUPPORT**

**Actuator Shown In Pos. 1**

**PC MOUNTING**

**SECTION A-A**

---

Not available with I seal option.

Terminal bend radii and lead-in manufacturing option.

---

**OPTION CODE**

<table>
<thead>
<tr>
<th>Option Code</th>
<th>CODE</th>
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<td>A2</td>
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<tr>
<td>A3</td>
<td>RIGHT ANGLE, SNAP-IN, PC THRU-HOLE</td>
</tr>
<tr>
<td>A4</td>
<td>RIGHT ANGLE, EXTENDED, PC THRU-HOLE</td>
</tr>
<tr>
<td>A5</td>
<td>RIGHT ANGLE, EXTENDED, PC THRU-HOLE</td>
</tr>
</tbody>
</table>

---

**PC MOUNTING**

**SECTION A-A**

---

Not available with I seal option.

Terminal bend radii and lead-in manufacturing option.
7000 Series
Miniature Toggle Switches

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.

PC MOUNTING

7101MHA2BE
Horizontal Actuation
SPDT

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

Actuator Shown In Pos. 1

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

PC MOUNTING

7101MD9A4BE
Horizontal Actuation
SPDT

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

Actuator Shown In Pos. 1

Not available with Y1 seal option. Terminal bend radii and lead-in manufacturing option.

PC MOUNTING

7101MD9AV2BE
Horizontal Actuation
SPDT

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.

PC MOUNTING

7201MD9AV2BE
Vertical Actuation
DPDT

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

F

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### 7000 Series
#### Miniature Toggle Switches

**AV2**
- **VERTICAL RIGHT ANGLE, PC THRU-HOLE**, .150" PITCH
- Actuator Shown In Pos. 1
- PC Mounting
  - Dim 'A'

**V2, V6, V7, V8**
- **VERTICAL MOUNT, V-BRACKET**
- Actuator Shown In Pos. 1
- PC Mounting

**V21, V71, V81**
- **VERTICAL MOUNT, V-BRACKET, SNAP-IN**
- Actuator Shown In Pos. 1
- PC Mounting

---

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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TERMINATIONS

7000 Series
Miniature Toggle Switches

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

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

PC MOUNTING

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

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Actuator Shown In Pos. 1

Not available with I seal option.

V2, V7, V8
VERTICAL MOUNT, V-BRACKET

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

PC MOUNTING

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

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Actuator Shown In Pos. 1

Not available with I seal option.

V2, V7, V8
VERTICAL MOUNT, V-BRACKET

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

PC MOUNTING

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

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Actuator Shown In Pos. 1

Not available with I seal option.
7000 Series
Miniature Toggle Switches

TERMINATIONS

V3, V4, V9  VERTICAL MOUNT, V-BRACKET

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

Actuator Shown In Pos. 1

Snap-In

PC MOUNTING

V3, V31  .460 (11.68)
V4, V41  .630 (16.00)
V9  1.150 (29.21)

Actuator Shown In Pos. 1

Not available with I seal option.

V4, V9  VERTICAL MOUNT, V-BRACKET

V41  VERTICAL MOUNT, V-BRACKET, SNAP-IN

Actuator Shown In Pos. 1

Not available with I seal option.

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

PC MOUNTING

7401MD9__BE
4PDT

OPTION
CODE
V4, V41
V9

DIM ‘A’
.630 (16.00)
1.150 (29.21)

CONTACT MATERIAL

<table>
<thead>
<tr>
<th>OPTION CODE</th>
<th>CONTACT MATERIAL</th>
<th>TERMINAL PLATING</th>
<th>RATINGS</th>
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<tbody>
<tr>
<td>B</td>
<td>GOLD ¹</td>
<td>GOLD ¹</td>
<td>LOW LEVEL/DRY CIRCUIT 0.4 VA MAX @ 20 V AC OR DC MAX.</td>
</tr>
<tr>
<td>P</td>
<td>SILVER 4,5</td>
<td>SILVER 5, MATTE-TIN ⁶</td>
<td>POWER 5 AMPS @ 120 V AC OR 28 V DC; 2 AMPS @ 250 V AC.</td>
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<tr>
<td>Q</td>
<td>SILVER 4,5</td>
<td>SILVER 5, MATTE-TIN ⁶</td>
<td>LOW LEVEL/DRY 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.</td>
</tr>
<tr>
<td>R</td>
<td>SILVER 2,3</td>
<td>GOLD ³, MATTE-TIN ⁶</td>
<td>LOW LEVEL/DRY 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.</td>
</tr>
</tbody>
</table>

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

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

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

U11-U415 model numbers 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.
7000 Series
Miniature Toggle Switches

**AVAILABLE HARDWARE**

**SEAL**

E  EPOXY SEAL

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>MATERIAL</th>
<th>FINISH</th>
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<tbody>
<tr>
<td>896801000</td>
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<td>Matte</td>
</tr>
<tr>
<td>896802000</td>
<td>BLACK</td>
<td>Matte</td>
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<tr>
<td>896803000</td>
<td>RED</td>
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I  EPOXY POTTED BASE

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<td>763702000</td>
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</tr>
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**L41 Lever handle**

<table>
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<tr>
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<tr>
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**L42 Lever handle**

<table>
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<tr>
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**799D02000 Sealing Boot**

<table>
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<tr>
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<tr>
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<td>Matte</td>
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</tbody>
</table>

**703D02000 Sealing Boot**

<table>
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<tr>
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<tbody>
<tr>
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**704D02000 Sealing Boot**

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</table>

**NOTE:** Additional nuts, locking rings and lockwashers available separately, see Section N. Other colors available, consult Customer Service Center.

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