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

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 m Ω typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.
INSULATION RESISTANCE: $10^9$ Ω min.

Typical Applications
- Telecommunications
- Instrumentation
- Medical equipment

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
- 7101 SP On-None-On
- 7103 SP On-Off-On
- 7105 SP Mom.-Off-Mom.
- 7107 SP On-Off-Mom.
- 7108 SP On-None-Mom.
- 7109 SP None-On-Mom.
- 7201 DP On-None-On
- 7203 DP On-Off-On
- 7205 DP Mom.-Off-Mom.
- 7207 DP On-Off-Mom.
- 7208 DP None-On-Mom.
- 7211 DP On-None-Mom.
- 7213 DP On-None-Mom.
- 7215 DP Mom.-None-Mom.
- 7301 3P On-None-On
- 7303 3P On-Off-On
- 7305 3P Mom.-Off-Mom.
- 7308 3P On-None-Mom.
- 7401 4P On-None-On
- 7403 4P On-Off-On
- 7405 4P Mom.-Off-Mom.
- 7408 4P On-Off-Mom.
- 7411 4P On-None-Mom.
- 7413 4P On-On-Mom.
- 7415 4P Mom.-On-Mom.

Actuator
- M .200" high
- P3 .450" high
- S .420" high
- T .687" high, 15/32" bushing
- K2 Locking lever, .704" high
- K9 Locking lever, .704" high
- K12 Locking lever, .732" high
- K19 Locking lever, .732" high
- L .840" high
- L1 .640" high
- L1P Anti-rotation, .640" high
- L1Q Anti-rotation, .640" high
- L2 .550" high
- L2P Anti-rotation, .550" high
- L3 Plastic .940" inch
- L40 Lever handle without cap
- L41 .531" high lever handle with cap
- L42 .838" high lever handle with cap
- MP Anti-rotation, .200" high
- P1 Flatted, anti-rotation, .840" high
- P4 Flatted, anti-rotation, .250" high
- SP Anti-rotation, .420" high
- T1 .487" high, 15/32" bushing
- T1P Anti-rotation, .487" high, 15/32" bushing
- T2P Flatted, anti-rotation, .610" high, 15/32" bushing
- TP Anti-rotation, .687" high, 15/32" bushing

Typical Applications
- Medical equipment
- Instrumentation
- V81 .953" high, snap-in V-bracket
- V8 .840" high
- V71 .630" high, snap-in V-bracket
- V6 .460" high, V-bracket
- V5 .345" high, V-bracket
- V4 .378" high, 8mm high, keyway
- V3 .378" high, keyway
- V2 .350" high, keyway
- V1 .350" high, keyway
- V .350" high, keyway
- V .350" high, keyway

Terminations
- A Right angle, PC thru-hole
- AV2 Vert. right angle, PC thru-hole
- C PC Thru-hole
- V3 .460 high, V-bracket
- Z Solder lug
- A2 Right angle, PC thru-hole
- A3 Right angle, PC thru-hole
- A4 Right angle, PC thru-hole
- AW1 Right angle, extended, PC thru-hole
- AW4 Right angle, extended, PC thru-hole
- V2 .555" high, V-bracket
- V4 .630" high, V-bracket
- V6 .460" high, V-bracket
- V7 .630" high, V-bracket
- V8 .953" high, V-bracket
- V9 .150" high, V-bracket
- V21 .555" high, snap-in V-bracket
- V31 .460 high, snap-in V-bracket
- V41 .630" high, snap-in V-bracket
- V71 .630" high, snap-in V-bracket
- V81 .953" high, snap-in V-bracket
- W .750" long, wire wrap
- W1 .964" long, wire wrap
- W3 .425" long, wire wrap
- W4 1.062" long, wire wrap
- W5 1.305" long, wire wrap
- Z3 Quick connect

Contact Material
- B Gold
- P Gold, matte-tin
- Q Silver
- S Nickel on all bushings (except D8, satin chrome)
- E Epoxy
- I Epoxy potted base
- CW Splashproof
- D8 .280" high, flat
- D9 .280" high, keyway
- H3 .315" high, keyway
- H4 .9mm high, keyway
- Y1 .378" high, keyway
- Y3 8.9mm high, keyway
- Y4 .378" high, flat
- Y9 .350" high, keyway

Actuator Color/Finish
- NONE Bright chrome
- 2 Black
- 3 Red
- S Satin chrome
- KXX Actuator Color/Finish
- NONE Natural aluminum
- 2 Black anodized aluminum
- 3 Red anodized aluminum
- 7 Blue anodized aluminum

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

www.ckswitches.com
# 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

<table>
<thead>
<tr>
<th>NO. POLES</th>
<th>NO.</th>
<th>MODEL NO.</th>
<th>UL** MODEL NO.</th>
<th>SWITCH FUNCTION</th>
<th>CONNECTED TERMINALS</th>
<th>SCHEMATIC</th>
<th>PART NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SP</strong></td>
<td>7101</td>
<td>U11</td>
<td></td>
<td>ON</td>
<td>2-3</td>
<td>N/A</td>
<td>2-1</td>
</tr>
<tr>
<td></td>
<td>7103</td>
<td>U13</td>
<td></td>
<td>OFF</td>
<td>2-3</td>
<td>OPEN</td>
<td>2-1</td>
</tr>
<tr>
<td></td>
<td>7105</td>
<td>U15</td>
<td></td>
<td>MOM.</td>
<td>2-3</td>
<td>N/A</td>
<td>2-1</td>
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<tr>
<td></td>
<td>7107</td>
<td>U17</td>
<td></td>
<td>OFF</td>
<td>2-3</td>
<td>N/A</td>
<td>2-1</td>
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<tr>
<td></td>
<td>7108</td>
<td>U18</td>
<td></td>
<td>OFF</td>
<td>2-3</td>
<td>N/A</td>
<td>2-1</td>
</tr>
<tr>
<td></td>
<td>7109</td>
<td>U19</td>
<td></td>
<td>NONE</td>
<td>2-3</td>
<td>N/A</td>
<td>2-1</td>
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Part number shown: 7101SYZBE

**SPDT**

<table>
<thead>
<tr>
<th>NO. POLES</th>
<th>NO.</th>
<th>MODEL NO.</th>
<th>UL** MODEL NO.</th>
<th>SWITCH FUNCTION</th>
<th>CONNECTED TERMINALS</th>
<th>SCHEMATIC</th>
<th>PART NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DP</strong></td>
<td>7201</td>
<td>U21</td>
<td></td>
<td>ON</td>
<td>2-3-5-6</td>
<td>N/A</td>
<td>2-1-5-4</td>
</tr>
<tr>
<td></td>
<td>7203</td>
<td>U23</td>
<td></td>
<td>OFF</td>
<td>2-3-5-6</td>
<td>OPEN</td>
<td>2-1-5-4</td>
</tr>
<tr>
<td></td>
<td>7205</td>
<td>U25</td>
<td></td>
<td>MOM.</td>
<td>2-3-5-6</td>
<td>N/A</td>
<td>2-1-5-4</td>
</tr>
<tr>
<td></td>
<td>7207</td>
<td>U27</td>
<td></td>
<td>OFF</td>
<td>2-3-5-6</td>
<td>N/A</td>
<td>2-1-5-4</td>
</tr>
<tr>
<td></td>
<td>7211</td>
<td>U211*</td>
<td></td>
<td>ON</td>
<td>2-3-5-6</td>
<td>2-3-5-4</td>
<td>2-1-5-4</td>
</tr>
<tr>
<td></td>
<td>7213</td>
<td>U213*</td>
<td></td>
<td>ON</td>
<td>2-3-5-6</td>
<td>2-3-5-4</td>
<td>2-1-5-4</td>
</tr>
<tr>
<td></td>
<td>7215*</td>
<td>U215*</td>
<td></td>
<td>MOM.</td>
<td>2-3-5-6</td>
<td>2-3-5-4</td>
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</table>

Part number shown: 7201SYZBE

**DPDT**

<table>
<thead>
<tr>
<th>NO. POLES</th>
<th>NO.</th>
<th>MODEL NO.</th>
<th>UL** MODEL NO.</th>
<th>SWITCH FUNCTION</th>
<th>CONNECTED TERMINALS</th>
<th>SCHEMATIC</th>
<th>PART NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DPDT</strong></td>
<td>7201</td>
<td>U21</td>
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<td>ON</td>
<td>2-3-5-6</td>
<td>N/A</td>
<td>2-1-5-4</td>
</tr>
<tr>
<td></td>
<td>7203</td>
<td>U23</td>
<td></td>
<td>OFF</td>
<td>2-3-5-6</td>
<td>OPEN</td>
<td>2-1-5-4</td>
</tr>
<tr>
<td></td>
<td>7205</td>
<td>U25</td>
<td></td>
<td>MOM.</td>
<td>2-3-5-6</td>
<td>N/A</td>
<td>2-1-5-4</td>
</tr>
<tr>
<td></td>
<td>7207</td>
<td>U27</td>
<td></td>
<td>OFF</td>
<td>2-3-5-6</td>
<td>N/A</td>
<td>2-1-5-4</td>
</tr>
<tr>
<td></td>
<td>7211</td>
<td>U211*</td>
<td></td>
<td>ON</td>
<td>2-3-5-6</td>
<td>2-3-5-4</td>
<td>2-1-5-4</td>
</tr>
<tr>
<td></td>
<td>7213</td>
<td>U213*</td>
<td></td>
<td>ON</td>
<td>2-3-5-6</td>
<td>2-3-5-4</td>
<td>2-1-5-4</td>
</tr>
<tr>
<td></td>
<td>7215*</td>
<td>U215*</td>
<td></td>
<td>MOM.</td>
<td>2-3-5-6</td>
<td>2-3-5-4</td>
<td>2-1-5-4</td>
</tr>
</tbody>
</table>

Part number shown: 7201SYZBE

**NOTE:** U11–U15 model nos. with all options when ordered with G, R, Q or S contact material.

Wiring for 3-way switch, see Section N.
### 7000 Series

**Miniature Toggle Switches**

#### 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>3P</td>
<td>7301</td>
<td>U31</td>
<td>ON</td>
<td>NONE</td>
<td>2-3,5-6,8-9</td>
</tr>
<tr>
<td></td>
<td>7303</td>
<td>U33</td>
<td>ON</td>
<td>OFF</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>7305</td>
<td>U35</td>
<td>MOM.</td>
<td>OFF</td>
<td>OPEN</td>
</tr>
<tr>
<td></td>
<td>7307</td>
<td>U37</td>
<td>ON</td>
<td>OFF</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>7308</td>
<td>U38</td>
<td>ON</td>
<td>NONE</td>
<td>2-3,5-6,8-9</td>
</tr>
</tbody>
</table>

#### 3PDT

![3PDT Schematic]

Part number shown: 7301SYZQE

#### 4P

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>POLES</th>
<th>FUNCTION</th>
<th>CONNECTED TERMINALS</th>
<th>SCHEMATIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>7401</td>
<td>4P</td>
<td>U41</td>
<td>ON</td>
<td>NONE</td>
</tr>
<tr>
<td>7403</td>
<td>4P</td>
<td>U43</td>
<td>ON</td>
<td>OFF</td>
</tr>
<tr>
<td>7405</td>
<td>4P</td>
<td>U45</td>
<td>MOM.</td>
<td>OFF</td>
</tr>
<tr>
<td>7408</td>
<td>4P</td>
<td>U48</td>
<td>ON</td>
<td>NONE</td>
</tr>
<tr>
<td>7411*</td>
<td>4P</td>
<td>U411*</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>7413*</td>
<td>4P</td>
<td>U413*</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>7415*</td>
<td>4P</td>
<td>U415*</td>
<td>MOM.</td>
<td>ON</td>
</tr>
</tbody>
</table>

#### 4PDT

![4PDT Schematic]

Part number shown: 7401SYZQE

**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.**

---

F-5

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7000 Series
Miniature Toggle Switches

**ACTUATOR**

<table>
<thead>
<tr>
<th>OPTION CODE</th>
<th>ACTUATOR FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>NONE</td>
<td>BRIGHT CHROME-With Nickel Plated Bushing</td>
</tr>
<tr>
<td>2</td>
<td>BLACK</td>
</tr>
<tr>
<td>S</td>
<td>SATIN CHROME</td>
</tr>
</tbody>
</table>

**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)

Replacing K, K8

* Add .070 (1.78) for D, D8 & D9 bushings, subtract .020 (0.51) for H3 bushing.

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

-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.

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

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

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.
# 7000 Series Miniature Toggle Switches

## Dimensions

Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

[www.ckswitches.com](http://www.ckswitches.com)

---

### BUSHING

<table>
<thead>
<tr>
<th>Y</th>
<th>.350&quot; HIGH, THREADED, KEYWAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y9</td>
<td>.350&quot; HIGH, UNTHEROED, KEYWAY</td>
</tr>
</tbody>
</table>

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

- **Y bushing standard with C, W-W5, Z or Z3 terminations.**
- **Y9 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.**

### CW

- **THREADED, SPLASHPROOF 1,2**
  - For T & T1 actuators.

### D

- **.280" HIGH, THREADED, KEYWAY**
- **.280" HIGH, UNTHEROED, FLAT 3**
- **.280" HIGH, UNTHEROED, KEYWAY**

### H

- **.296" HIGH, FLAT THREADED, HIGH TORQUE 1,2**

### H3

- **.315" HIGH, KEYWAY THREADED, HIGH TORQUE 1,2**

---

### OPTION CODE

<table>
<thead>
<tr>
<th>BUSHING FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NONE</strong> NICKEL on all bushings except 'D8' satin chrome.</td>
</tr>
<tr>
<td><strong>2</strong> BLACK</td>
</tr>
</tbody>
</table>

---

### BUSHING FINISH

- **NONE**
- **NICKEL** on all bushings except 'D8' satin chrome.
- **2** BLACK

---

### PANEL MOUNTING

- **1/4 INCH BUSHING**
- **METRIC BUSHING**
- **15/32 INCH BUSHING**

---

Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

[www.ckswitches.com](http://www.ckswitches.com)
TERMINATIONS

**Z** SOLDER LUG

**C** PC THRU-HOLE

**SPDT thru 4PDT**

Not available with P, R or S contact materials.

**TERMINATIONS**

**Z3** QUICK CONNECT

**W, W1, W3, W4, W5** WIRE WRAP

**SPDT thru 4PDT**

Not available with P, R or S contact materials. Mating quick connector available, order part number 530100000, page F-16.

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

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

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

A  RIGHT ANGLE, PC THRU-HOLE

7201MD9ABE
Horizontal Actuation
DPDT

A3  RIGHT ANGLE, SNAP-IN, PC THRU-HOLE

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

PC MOUNTING

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

A  RIGHT ANGLE, PC THRU-HOLE

7301MD9ABE
Horizontal Actuation
3PDT

AW4  RIGHT ANGLE, EXTENDED, PC THRU-HOLE

PC MOUNTING

Not available with I seal option.
Terminal bend radii and lead-in manufacturing option.
**7000 Series**

**Miniature Toggle Switches**

---

### TERMINATIONS

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

Actuator Shown In Pos. 1

- Terminals & Support
- Switch support with CW, H, H3, H4, Y1, Y4 bushings and KXX actuators.

**PC MOUNTING**

- Actuator Shown In Pos. 1

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

- Terminals & Support
- Switch support with CW, H, H3, H4, Y1, Y4 bushings and KXX actuators.

**PC MOUNTING**

- 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.

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

Actuator Shown In Pos. 1

- Terminal bend radii and lead-in manufacturing option.

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

Actuator Shown In Pos. 1

- 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.

**7101MHA2BE** Horizontal Actuation SPDT

**7101MD9A4BE** Horizontal Actuation SPDT

**7101MD9AV2BE** Horizontal Actuation SPDT

---

**7201MD9AV2BE** Vertical Actuation DPDT

---

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

25 May 18

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**7000 Series**

**Miniature Toggle Switches**

**TERMINATIONS**

---

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

7301MD9AV2BE  
**Vertical Actuation**  
3PDT

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**

7401MD9AV2BE  
**Vertical Actuation**  
4PDT

Actuator Shown In Pos. 1

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

---

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

7101MD9_BE  
**SPDT**

Actuator Shown In Pos. 1

Not available with I seal option.

---

**PC MOUNTING**

---

**OPTION CODE | DIM 'A'**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>V2, V21</td>
<td>555 (14,10)</td>
</tr>
<tr>
<td>V6</td>
<td>460 (11,88)</td>
</tr>
<tr>
<td>V7, V71</td>
<td>630 (16,00)</td>
</tr>
<tr>
<td>V8, V81</td>
<td>953 (24,21)</td>
</tr>
</tbody>
</table>

Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

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25 may 18  
F-12
7000 Series
Miniature Toggle Switches

TERMINATIONS

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

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

PC MOUNTING

[Diagram showing dimensions and parts]

OPTION CODE | DIM ’A’
---|---
V2, V21 | .555 (14.10)
V6, V61 | .460 (11.68)
V7, V71 | .630 (16.00)
V8, V81 | .953 (24.21)

Not available with I seal option.

V2, V7, V8
VERTICAL MOUNT, V-BRACKET

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

PC MOUNTING

[Diagram showing dimensions and parts]

OPTION CODE | DIM ’A’
---|---
V2, V21 | .555 (14.10)
V7, V71 | .630 (16.00)
V8, V81 | .953 (24.21)

Not available with I seal option.

V2, V7, V8
VERTICAL MOUNT, V-BRACKET

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

PC MOUNTING

[Diagram showing dimensions and parts]

OPTION CODE | DIM ’A’
---|---
V2, V21 | .555 (14.10)
V7, V71 | .630 (16.00)
V8, V81 | .953 (24.21)

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

V3, V4, V9  VERTICAL MOUNT, V-BRACKET
V31, V41  VERTICAL MOUNT, V-BRACKET, SNAP-IN

Actuator Shown In Pos. 1

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

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.

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

CONTACT MATERIAL

<table>
<thead>
<tr>
<th>OPTION CODE</th>
<th>CONTACT MATERIAL</th>
<th>TERMINAL PLATING</th>
<th>RATINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>GOLD 1</td>
<td>LOW LEVEL/DRY CIRCUIT</td>
<td>0.4 VA MAX. @ 20 V AC OR DC MAX.</td>
</tr>
<tr>
<td>P</td>
<td>MATTE-TIN 6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q</td>
<td>SILVER 4.5</td>
<td>POWER</td>
<td>5 AMPS @ 120 V AC OR 28 V DC; 2 AMPS @ 250 V AC.</td>
</tr>
<tr>
<td>S</td>
<td>SILVER 5</td>
<td>MATTE-TIN 6</td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>GOLD OVER SILVER 2.3</td>
<td>LOW LEVEL/DRY CIRCUIT OR POWER</td>
<td>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>MATTE-TIN 6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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: 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

**SEAL**

- **EPOXY SEAL**

![Epoxy Seal Diagram]

- **EPOXY POTTED BASE**

![Epoxy Potted Base Diagram]

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

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**AVAILABLE HARDWARE**

**L41 Lever handle**

- **PART NO.**
  - 89681000 WHITE
  - 896802000 BLACK
  - 896803000 RED

  Material: Polyethylene
  Finish: Matte

- **PART NO.**
  - 48101000 WHITE
  - 48102263 BLACK
  - 48103000 RED

  Material: Nylon
  Finish: Matte

**L42 Lever handle**

- **PART NO.**
  - 763710000 WHITE
  - 763720000 BLACK
  - 763730000 RED

  Material: Vinyl
  Finish: Matte

**Fits Z3 Termination female connector**

- **PART NO.**
  - 530100000

  Available in loose pieces.

**759D02000 Sealing Boot**

- **PART NO.**

  703D02000 Sealing Boot

- **PART NO.**

  704D02000 Sealing Boot

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

Other colors available, consult Customer Service Center.

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

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

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