Features/Benefits
- Multi-pole and multi-position
- Wide variety of actuator and termination options
- Epoxy sealed terminals prevent contamination during soldering

Typical Applications
- Telecommunications
- Instrumentation
- Medical equipment

Build-A-Switch
Our easy Build-A-Switch concept allows you to mix and match options to create the switch you need. Below is a complete listing of options shown in catalog. To order, simply select desired option from each category and place in the appropriate box. Switches with standard options are shown on pages A-4 and A-5. Available options are shown and described on pages A-6 thru A-18. For additional options not shown in catalog, consult our Customer Service Center.

Typical Example: 7 1 0 1 S Y Z Q E

Switch Function
| 7101 | (STD.) SP On-None-On |
| 7103 | (STD.) SP On-Off-On |
| 7201 | (STD.) DP On-None-On |
| 7203 | (STD.) DP On-Off-On |
| 7211 | (STD.) DP On-None-On |
| 7301 | (STD.) 3P On-None-On |
| 7401 | (STD.) 4P On-None-On |
| 7105 | SP Mom.-Off-Mom. |
| 7107 | SP On-Off-Mom. |
| 7108 | SP On-None-Mom. |
| 7109 | SP None-On-Mom. |
| 7205 | DP Mom.-Off-Mom. |
| 7207 | DP On-Off-Mom. |
| 7208 | DP On-None-Mom. |
| 7209 | DP None-On-Mom. |
| 7113 | DP On-None-On. |
| 7115 | DP Mom.-On-Mom. |
| 7303 | 3P On-Off-On |
| 7305 | 3P Mom.-Off-Mom. |
| 7307 | 3P On-None-Mom. |
| 7308 | 3P None-On-Mom. |
| 7309 | 3P None-On-Mom. |
| 7404 | 4P On-Off-On |
| 7405 | 4P Mom.-Off-Mom. |
| 7407 | 4P On-Off-Mom. |
| 7408 | 4P On-None-Mom. |
| 7409 | 4P None-On-Mom. |
| 7411 | 4P On-None-Mom |
| 7413 | 4P On-Mom.-Mom. |
| 7415 | 4P Mom.-Mom-Mom. |

Note: UL/FSA models available, see page A-6.

Actuator
- M (STD.) 200° high
- P3 (STD.) Flattened, anti-rotation, .450° high
- S (STD.) .410° high
- T (STD.) .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 .840° high
- L1P Anti-rotation, .640° high
- L2 .550° high
- L2P Anti-rotation, .550° high
- L3 Plastic, .840° high
- L3P Plastic, anti-rotation, .840° high
- L40 Lever handle without cap
- L41 Lever handle with cap
- L42 Lever handle with cap
- L4P Anti-rotation, .840° high
- L5P Anti-rotation, .200° high
- MP Flattened, anti-rotation, .840° high
- P1 Flattened, anti-rotation, .250° high
- P4 Anti-rotation, .420° high
- T1 .460° high, 15/32 bushing
- T1P Anti-rotation, .460° high, 15/32 bushing
- T2P Flattened, anti-rotation, .610° high, 15/32 bushing
- TP Anti-rotation, .687° high, 15/32 bushing

Terminations
- D (STD.) 280° high, keyway selection
- E (STD.) 296° high, flat keyway
- F (STD.) .350° high, keyway
- G (STD.) No bushing
- C (STD.) .280° high, keyway
- H (STD.) .280° high, flat keyway
- Z (STD.) .315° high, keyway
- Y (STD.) .99mm high, keyway
- X (STD.) .378° high, flat keyway
- V (STD.) .350° high, keyway

Contact Material
- B (STD.) Gold
- Q (STD.) Silver Seal
- K Gold E (STD.) Epoxy potted
- M Silver I (STD.) Epoxy potted
- G Gold over silver base
- L Gold over silver

Actuator Color/Finish
- NONE (STD.) Finish
- 0 (STD.) Actuator finish with black bushing
- White
- Black
- Nickel on all bushings (except D8, satin chrome)
- Red
- Blue
- Black
- Satin chrome

KXX Actuator Color/Finish
- NONE (STD.) Natural aluminum
- 0 (STD.) Natural aluminum with black bushing
- Black anodized aluminum
- Red anodized aluminum
- Blue anodized aluminum

YV21 .555° high, snap-in V-bracket
YV31 .460° high, snap-in V-bracket
YV41 .630° high, snap-in V-bracket
YV61 .460° high, snap-in V-bracket
YV63 .630° high, snap-in V-bracket
YV81 .953° high, snap-in V-bracket
YV91 1.150° high, snap-in V-bracket
W .750° long, wire wrap
W1 .604° long, wire wrap
W3 .425° long, wire wrap
W4 1.062° long, wire wrap
W5 1.305° long, wire wrap
Z3 Quick connect

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C&K 7000 Series
Miniature Toggle Switches

Specifications
CONTACT RATING: B contact material: 0.4 VA max. @ 20 V AC or DC. Q contact material: 5 AMPS @ 120 V AC or 28 V DC; 2 AMPS @ 250 V AC. See page A-18 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 milliohms typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.
INSULATION RESISTANCE: 10^9 ohms min.
DIELECTRIC STRENGTH: 1000 V RMS 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).

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

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 A-18 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 page A-18 for additional contact materials.
TERMINAL SEAL: Epoxy.

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

SWITCHES WITH STANDARD OPTIONS

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>NO. POLES</th>
<th>POS. 1</th>
<th>POS. 2</th>
<th>POS. 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>7101SYZBE</td>
<td>ON</td>
<td>NONE</td>
<td>ON</td>
<td></td>
</tr>
<tr>
<td>7101SYZGE</td>
<td>ON</td>
<td>NONE</td>
<td>ON</td>
<td></td>
</tr>
<tr>
<td>7103SYZQE</td>
<td>MOM.</td>
<td>ON</td>
<td>OFF</td>
<td></td>
</tr>
<tr>
<td>7105SYZQE</td>
<td>SPDT</td>
<td>OFF</td>
<td>ON</td>
<td></td>
</tr>
<tr>
<td>7107SYZQE</td>
<td>ON</td>
<td>OFF</td>
<td>MOM.</td>
<td></td>
</tr>
<tr>
<td>7108SYZQE</td>
<td>ON</td>
<td>NONE</td>
<td>MOM.</td>
<td></td>
</tr>
</tbody>
</table>

NOTE: Momentary
For PC termination, replace ‘Z’ with ‘C’.
For panel mounting information, see page A-9.

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>NO. POLES</th>
<th>POS. 1</th>
<th>POS. 2</th>
<th>POS. 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>7201SYZQE</td>
<td>ON</td>
<td>NONE</td>
<td>ON</td>
<td></td>
</tr>
<tr>
<td>7203SYZQE</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
<td></td>
</tr>
<tr>
<td>7205SYZQE</td>
<td>MOM.</td>
<td>OFF</td>
<td>MOM.</td>
<td></td>
</tr>
<tr>
<td>7207SYZQE</td>
<td>ON</td>
<td>OFF</td>
<td>MOM.</td>
<td></td>
</tr>
<tr>
<td>7208SYZQE</td>
<td>ON</td>
<td>NONE</td>
<td>MOM.</td>
<td></td>
</tr>
<tr>
<td>7211SYZQE</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
<td></td>
</tr>
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</table>

NOTE: Momentary
For PC termination, replace ‘Z’ with ‘C’.
For panel mounting information, see page A-9.
For PC mounting information, see page A-10.

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>NO. POLES</th>
<th>POS. 1</th>
<th>POS. 2</th>
<th>POS. 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>7301SYZQE</td>
<td>ON</td>
<td>NONE</td>
<td>ON</td>
<td></td>
</tr>
<tr>
<td>7303SYZQE</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
<td></td>
</tr>
</tbody>
</table>

NOTE: For PC termination, replace ‘Z’ with ‘C’.
For panel mounting information, see page A-9.
For PC mounting information, see page A-10.

NOTE: For PC termination, replace ‘Z’ with ‘C’.
For panel mounting information, see page A-9.
For PC mounting information, see page A-10.

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 A-18 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 page A-18 for additional contact materials.
TERMINAL SEAL: Epoxy.

HARDWARE: Nut & Locking Ring: Brass, nickel plated.
Lockwasher: Steel, nickel plated.
### C&K 7000 Series
#### Miniature Toggle Switches

#### SWITCHES WITH STANDARD OPTIONS

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>NO. POLES</th>
<th>POS. 1</th>
<th>POS. 2</th>
<th>POS. 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>7401SYZQE</td>
<td>4PDT</td>
<td>ON</td>
<td>NONE</td>
<td>ON</td>
</tr>
<tr>
<td>7403SYZQE</td>
<td>4PDT</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>7411SYZQE</td>
<td>4PDT</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
</tbody>
</table>

NOTE: For PC termination, replace ‘Z’ with ‘C’. For panel mounting information, see page A-9. For PC mounting information, see page A-10.

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>NO. POLES</th>
<th>POS. 1</th>
<th>POS. 2</th>
<th>POS. 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>7201MD9AQE</td>
<td>DPDT</td>
<td>ON</td>
<td>NONE</td>
<td>ON</td>
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</table>

NOTE: For PC mounting information, see page A-11.

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>NO. POLES</th>
<th>POS. 1</th>
<th>POS. 2</th>
<th>POS. 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>7301MD9ABE</td>
<td>3PDT</td>
<td>ON</td>
<td>NONE</td>
<td>ON</td>
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</table>

NOTE: For PC mounting information, see page A-11.

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>NO. POLES</th>
<th>POS. 1</th>
<th>POS. 2</th>
<th>POS. 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>7201MD9AV2BE</td>
<td>2PDT</td>
<td>ON</td>
<td>NONE</td>
<td>ON</td>
</tr>
</tbody>
</table>

NOTE: For PC mounting information, see page A-13.
## C&K 7000 Series
### Miniature Toggle Switches

### SWITCH FUNCTION

<table>
<thead>
<tr>
<th>NO. POLES</th>
<th>MODEL NO.</th>
<th>UL/CSA** MODEL NO.</th>
<th>CONNECTION FUNCTION</th>
<th>CONNECTED TERMINALS</th>
<th>SCHEMATIC</th>
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</thead>
<tbody>
<tr>
<td>2P</td>
<td>7101 (STD.)</td>
<td>U11</td>
<td>ON</td>
<td>NONE</td>
<td>ON</td>
</tr>
<tr>
<td>2P</td>
<td>7103 (STD.)</td>
<td>U13</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>2P</td>
<td>7105</td>
<td>U15</td>
<td>MOM.</td>
<td>OFF</td>
<td>MOM.</td>
</tr>
<tr>
<td>2P</td>
<td>7107</td>
<td>U17</td>
<td>ON</td>
<td>OFF</td>
<td>MOM.</td>
</tr>
<tr>
<td>2P</td>
<td>7108</td>
<td>U18</td>
<td>ON</td>
<td>NONE</td>
<td>MOM.</td>
</tr>
<tr>
<td>2P</td>
<td>7109</td>
<td>U19</td>
<td>NONE</td>
<td>ON</td>
<td>MOM.</td>
</tr>
</tbody>
</table>

| 2P        | 7201 (STD.) | U21 | ON | NONE | ON | 2-3 | OPEN | 2-1 |
| 2P        | 7203 (STD.) | U23 | ON | OFF | ON | 2-3 | OPEN | 2-1 |
| 2P        | 7205 | U25 | MOM. | OFF | MOM. | 2-3 | OPEN | 2-1 |
| 2P        | 7207 | U27 | ON | OFF | ON | 2-3 | OPEN | 2-1 |
| 2P        | 7208 | U28 | ON | NONE | MOM. | 2-3 | OPEN | 2-1 |
| 2P        | 7209 | U29 | NONE | ON | MOM. | N/A | 2-3 | 2-1 |
| 2P        | 7211 (STD.) | U211* | ON | ON | ON | N/A | 2-3 | 2-1 |
| 2P        | 7213* | U213* | ON | ON | ON | N/A | 2-3 | 2-1 |
| 2P        | 7215* | U215* | MOM. | ON | MOM. | N/A | 2-3 | 2-1 |

| 3P        | 7301 (STD.) | U31 | ON | NONE | ON | 2-3 | OPEN | 2-1 |
| 3P        | 7303 | U33 | ON | OFF | ON | 2-3 | OPEN | 2-1 |
| 3P        | 7305 | U35 | MOM. | OFF | MOM. | 2-3 | OPEN | 2-1 |
| 3P        | 7307 | U37 | ON | OFF | ON | 2-3 | OPEN | 2-1 |
| 3P        | 7308 | U38 | ON | NONE | ON | 2-3 | OPEN | 2-1 |
| 3P        | 7309 | U39 | NONE | ON | MOM. | N/A | 2-3 | 2-1 |

| 3P        | 7401 (STD.) | U41 | ON | NONE | ON | 2-3 | OPEN | 2-1 |
| 3P        | 7403 | U43 | ON | OFF | ON | 2-3 | OPEN | 2-1 |
| 3P        | 7405 | U45 | MOM. | OFF | MOM. | 2-3 | OPEN | 2-1 |
| 3P        | 7407 | U47 | ON | OFF | ON | 2-3 | OPEN | 2-1 |
| 3P        | 7408 | U48 | ON | NONE | ON | 2-3 | OPEN | 2-1 |
| 3P        | 7409 | U49 | NONE | ON | MOM. | N/A | 2-3 | 2-1 |
| 3P        | 7411* | U411* | ON | ON | ON | N/A | 2-3 | 2-1 |
| 3P        | 7413* | U413* | ON | ON | ON | N/A | 2-3 | 2-1 |
| 3P        | 7415* | U415* | MOM. | ON | MOM. | N/A | 2-3 | 2-1 |

| 4P        | 7411* | U411* | ON | ON | ON | N/A | 2-3 | 2-1 |
| 4P        | 7413* | U413* | ON | ON | ON | N/A | 2-3 | 2-1 |
| 4P        | 7415* | U415* | MOM. | ON | MOM. | N/A | 2-3 | 2-1 |

**MOM. = Momentary

* Wiring for 3-way switch, see page L-29.

**U11-U415 model nos. with all options when ordered with G, L, M or Q contact material.
C&K 7000 Series
Miniature Toggle Switches

### Actuator

<table>
<thead>
<tr>
<th>ACTUATOR</th>
<th>ACTUATOR FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>S (STD.)</td>
<td>.410&quot; HIGH 1</td>
</tr>
<tr>
<td>SP</td>
<td>ANTIROTATION, .420&quot; HIGH 2, 3</td>
</tr>
<tr>
<td>M (STD.)</td>
<td>.200&quot; HIGH 1</td>
</tr>
<tr>
<td>MP</td>
<td>ANTIROTATION, .200&quot; HIGH 2, 3</td>
</tr>
<tr>
<td>L, L1, L2</td>
<td>.640&quot;, .650&quot; HIGH 1</td>
</tr>
<tr>
<td>LP, L1P, L2P</td>
<td>ANTIROTATION, .640&quot;, .650&quot; HIGH 2, 3</td>
</tr>
</tbody>
</table>

**NOTE:** Caps are available separately, see page L-10.


### Option Code

<table>
<thead>
<tr>
<th>OPTION CODE</th>
<th>DIM. “A”</th>
</tr>
</thead>
<tbody>
<tr>
<td>L, LP</td>
<td>.840 (21.34)</td>
</tr>
<tr>
<td>L1, L1P</td>
<td>.640 (16.26)</td>
</tr>
<tr>
<td>L2, L2P</td>
<td>.550 (13.97)</td>
</tr>
<tr>
<td>T2P</td>
<td>.610 (15.49)</td>
</tr>
</tbody>
</table>

**NOTE:** Black hardware is supplied when either black actuators or bushings are specified. All hardware is available separately, see section L.

1 L, L1, L2, M, S & TXX actuators not available with Y1 bushing.
2 LP, L1P, L2P, MP, P1, P3, P4, SP & TXX actuators not available with D8 & D4 bushings.
3 Antirotation: Provides anti-push-in feature on actuator.

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

**Miniature Toggle Switches**

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Cannon

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C&K 7000 Series
Miniature Toggle Switches

**ACTUATOR FINISH/COLOR**

<table>
<thead>
<tr>
<th>ACTUATOR</th>
<th>ACTUATOR CAP FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NONE</td>
</tr>
<tr>
<td></td>
<td>(STD.) NATURAL ALUMINUM—With Nickel Plated Bushing</td>
</tr>
<tr>
<td></td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>(STD.) NATURAL ALUMINUM—With Black Bushing</td>
</tr>
<tr>
<td></td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>BLACK ANODIZED ALUMINUM</td>
</tr>
<tr>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>RED ANODIZED ALUMINUM</td>
</tr>
<tr>
<td></td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>BLUE ANODIZED ALUMINUM</td>
</tr>
</tbody>
</table>

**L40** LEVER HANDLE WITHOUT CAP

-No color choice required.

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

- Finish: Matte (L41 & L42).

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

**L3** PLASTIC, .840" HIGH

**L3P** ANTIROTATION, .840" HIGH

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

* Add .070 (1.78) for D, D8 & D9 bushings, subtract .020 (0.51) for H3 bushing.
C&K 7000 Series
Miniature Toggle Switches

**Y** (STD.) .350" HIGH, THREADED, KEYWAY

**Y9** .350" HIGH, UNTHREADED, KEYWAY

**D** (STD.) .280" HIGH, THREADED, KEYWAY

**D8** .280" HIGH, UNTHREADED, FLAT

**D9** .280" HIGH, UNTHREADED, KEYWAY

**H** (STD.) .296" HIGH, FLAT, THREADED, HIGH TORQUE 1, 2

**H3** .315" HIGH, KEYWAY, THREADED, HIGH TORQUE 1, 2

**H4** 8mm HIGH, KEYWAY, THREADED, METRIC HIGH TORQUE 1, 2, 3

**Y1** .378" HIGH, KEYWAY, THREADED, HIGH TORQUE 1, 2, 4

**Y3** 8.9mm HIGH, KEYWAY, THREADED, METRIC

**Y4** .378" HIGH, FLAT, THREADED, HIGH TORQUE 1, 2, 5

**H4** 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.

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

**H4** 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.

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 L.
C & K 7000 Series
Miniature Toggle Switches

TERMINATIONS

Z (STD.) SOLDER LUG

C (STD.) PC THRU-HOLE

SPDT thru 4PDT

W, W1, W3, W4, W5

WIRE WRAP

OPTION CODE | DIM 'A' |
-------------|--------|
W            | .750 (19.05) |
W1           | .964 (24.48) |
W3           | 1.062 (26.97) |
W4           | 1.305 (33.15) |
W5           | 1.305 (33.15) |

A (STD.) RIGHT ANGLE, PC THRU-HOLE

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

AW, AW1, AW3, AW4

RIGHT ANGLE, EXTENDED, PC THRU-HOLE

OPTION CODE | DIM 'A' |
-------------|--------|
AW           | .50 (12.7) |
AW1          | .72 (18.3) |
AW3          | .20 (5.1)  |
AW4          | .83 (21.1) |

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

Part No. Shown: 7101MHABE
C&K 7000 Series
Miniature Toggle Switches

TERMINATIONS

A (STD.) RIGHT ANGLE, PC THRU-HOLE

<table>
<thead>
<tr>
<th>OPTION CODE</th>
<th>DIM 'A'</th>
</tr>
</thead>
<tbody>
<tr>
<td>AW</td>
<td>.19 (4.8)</td>
</tr>
<tr>
<td>AW1</td>
<td>.40 (10.2)</td>
</tr>
<tr>
<td>AW4</td>
<td>.50 (12.7)</td>
</tr>
</tbody>
</table>

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

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

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

AW4 RIGHT ANGLE, EXTENDED, PC THRU-HOLE

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

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**TERMINATIONS**

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

7101MHA2BE
Horizontal Actuation
SPDT

Actuator Shown In Pos. 1

Switch support with CW, H, H3, H4, Y1, Y4 bushings and KXX actuators.

Part No. Shown: 7101MHA2BE

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

7101MD9A4BE
Horizontal Actuation
SPDT

Actuator Shown In Pos. 1

NOTE: Termination options A4 & R2 are functionally identical and fit the same PC mounting pattern. The switches, however, are shifted relative to the mounting holes. Unlike the R2, 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**
(STD.) VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH

7101MD9AV2BE
Vertical Actuation
SPDT

Actuator Shown In Pos. 1

**AV3**
VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, .150" PITCH

7101MD9AV3BE
Vertical Actuation

PC MOUNTING

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

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

Not available with I seal option.
Terminal bend radii and lead-in manufacturing option.
AV2 (STD.) 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.

AV3 VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, .150° PITCH

PC MOUNTING

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

AV2 (STD.) VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150° PITCH

Actuator Shown In Pos. 1

AV3 VERTICAL RIGHT ANGLE, SNAP-IN, .150° PITCH

PC MOUNTING
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Miniature Toggle Switches

TERMINATIONS

**AV2** (STD.) 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.

**AV3** VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU- HOLE, .150° PITCH

Not available with KXX & TXX actuators, CW, H, H3, H4, Y1 & Y4 bushings.
Contact makes on same side actuator thrown.

**R** RIGHT ANGLE WITH PCB

7101MD9RBE
Horizontal Actuation
SPDT

Actuator Shown In Pos. 1

Not available with KXX & TXX actuators, CW, H, H3, H4, Y1 & Y4 bushings.
Contact makes on opposite side actuator thrown.

**R2** RIGHT ANGLE WITH PCB

7101MD9R2BE
Horizontal Actuation
SPDT

Actuator Shown In Pos. 1

Not available with KXX & TXX actuators, CW, H, H3, H4, Y1 & Y4 bushings.
Contact makes on opposite side actuator thrown.
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TERMINATIONS

A7
RIGHT ANGLE, PC THRU-HOLE,
.025 SQUARE, .200 PITCH

Actuator Shown In Pos. 1

Not available with I seal option.

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

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

Actuator Shown In Pos. 1

Not available with I seal option.

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

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

Actuator Shown In Pos. 1

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

**TERMINATIONS**

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

<table>
<thead>
<tr>
<th>OPTION CODE</th>
<th>DIM ‘A’</th>
</tr>
</thead>
<tbody>
<tr>
<td>V2, V21</td>
<td>.555 (14.10)</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>

**PC MOUNTING**

- Actuator Shown In Pos. 1
- Snap-In
- Not available with I seal option.

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

<table>
<thead>
<tr>
<th>OPTION CODE</th>
<th>DIM ‘A’</th>
</tr>
</thead>
<tbody>
<tr>
<td>V21</td>
<td>.555 (14.10)</td>
</tr>
<tr>
<td>V71</td>
<td>.630 (16.00)</td>
</tr>
<tr>
<td>V81</td>
<td>.953 (24.21)</td>
</tr>
</tbody>
</table>

**PC MOUNTING**

- Actuator Shown In Pos. 1
- Snap-In
- Not available with I seal option.

### V3 (STD.), V4, V9
VERTICAL MOUNT, V-BRACKET

<table>
<thead>
<tr>
<th>OPTION CODE</th>
<th>DIM ‘A’</th>
</tr>
</thead>
<tbody>
<tr>
<td>V3, V31</td>
<td>.460 (11.68)</td>
</tr>
<tr>
<td>V4, V41</td>
<td>.630 (16.00)</td>
</tr>
<tr>
<td>V9, V91</td>
<td>1.150 (29.21)</td>
</tr>
</tbody>
</table>

**PC MOUNTING**

- Actuator Shown In Pos. 1
- Snap-In
- Not available with I seal option.

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**Miniature Toggle Switches**

C&K 7000 Series

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TERMINATIONS

V3 (STD.), V4, V9 VERTICAL MOUNT, V-BRACKET
V31, V41, V91 VERTICAL MOUNT, V-BRACKET, SNAP-IN

Actuator Shown In Pos. 1

Not available with I seal option.

V4, V9 VERTICAL MOUNT, V-BRACKET
V41, V91 VERTICAL MOUNT, V-BRACKET, SNAP-IN

Actuator Shown In Pos. 1

Not available with I seal option.

V4, V9 VERTICAL MOUNT, V-BRACKET
V41, V91 VERTICAL MOUNT, V-BRACKET, SNAP-IN

Actuator Shown In Pos. 1

Not available with I seal option.

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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 (STD.)</td>
<td>GOLD 1</td>
<td>GOL D 1</td>
<td>LOW LEVEL/DRY CIRCUIT</td>
</tr>
<tr>
<td>K</td>
<td>SILVER 4,5</td>
<td>GOL D 1</td>
<td>POWER</td>
</tr>
<tr>
<td>Q (STD.)</td>
<td>SILVER 5</td>
<td>GOL D 3</td>
<td>LOW LEVEL/DRY CIRCUIT</td>
</tr>
<tr>
<td>L</td>
<td>GOL D 3</td>
<td>TIN-LEAD 6</td>
<td></td>
</tr>
</tbody>
</table>

CONTACT MATERIAL/APPLICATION RECOMMENDATIONS—SEE CHART, PAGE L-31.

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 tin-lead alloy over nickel plate.

B contact material standard with all terminations, except C, Z & Z3.
B contact material must be ordered with A7, AW6-AW7, R, R2, W6-W7 terminations.
Q contact material standard with C, Z & Z3 terminations.
K, L & M contact materials not available with Z & Z3 terminations.

SEAL

E (STD.) EPOXY SEAL

EPOXY SEAL

Compatible with ‘bottom-wash’ PC board cleaning methods.

I EPOXY POTTED BASE

DIM. 'A'

<table>
<thead>
<tr>
<th>NO POLES</th>
<th>DIM 'A'</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP</td>
<td>.410 (10.41)</td>
</tr>
<tr>
<td>DP</td>
<td>.440 (11.18)</td>
</tr>
<tr>
<td>3P</td>
<td>.505 (12.83)</td>
</tr>
<tr>
<td>4P</td>
<td>.505 (12.83)</td>
</tr>
</tbody>
</table>

LENGTH IS SAME AS CASE LENGTH

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

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