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 F-4 and F-5. Available options are shown and described on pages F-6 thru F-22.

Build-A-Switch

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### 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

### Models Available

<table>
<thead>
<tr>
<th>Switch Function</th>
<th>Actuator</th>
<th>Termination</th>
</tr>
</thead>
<tbody>
<tr>
<td>7101 (STD.) SP On-None-On</td>
<td>J1 (STD.) Rocker</td>
<td>A (STD.) Right angle, PC thru-hole</td>
</tr>
<tr>
<td>7103 (STD.) SP On-Off-On</td>
<td>J2 Lever</td>
<td>AV2 (STD.) Vertical right angle, PC thru-hole</td>
</tr>
<tr>
<td>7201 (STD.) DP On-None-On</td>
<td>J3 Rocker</td>
<td>C (STD.) PC Thru-hole</td>
</tr>
<tr>
<td>7301 (STD.) DP On-None-On</td>
<td>J8 Rocker, snap-in</td>
<td>Z (STD.) Solder lug</td>
</tr>
<tr>
<td>7401 (STD.) 4P On-None-On</td>
<td>J10 Rocker</td>
<td>A3 Right angle, snap-in, PC thru-hole</td>
</tr>
<tr>
<td>7105 SP Mom.-Off-Mom.</td>
<td>J11 Rocker with frame</td>
<td>AV3 Vertical right angle, snap-in, PC thru-hole</td>
</tr>
<tr>
<td>7107 SP On-Off-Mom.</td>
<td>J15 Rocker with frame, snap-in</td>
<td>AW Right angle, extended, PC thru-hole</td>
</tr>
<tr>
<td>7108 SP On-None-Mom.</td>
<td>J16 Rocker, snap-in</td>
<td>AW1 Right angle, extended, PC thru-hole</td>
</tr>
<tr>
<td>7109 SP None-On-Mom.</td>
<td>J19 Rocker with frame</td>
<td>AW2 Right angle, extended, PC thru-hole</td>
</tr>
<tr>
<td>7208 DP On-None-Mom.</td>
<td>J37 Rocker with frame</td>
<td>V3 .460&quot; high, V-bracket</td>
</tr>
<tr>
<td>7209 DP None-On-Mom.</td>
<td>J50 Rocker</td>
<td>V4 .630&quot; high, V-bracket</td>
</tr>
<tr>
<td>7211 DP On-None</td>
<td>J51 Rocker with frame</td>
<td>V5 Vertical right angle, PC thru-hole</td>
</tr>
<tr>
<td>7303 3P Off-Off-Mom.</td>
<td>J60 Lever</td>
<td>V8 .953&quot; high, V-bracket</td>
</tr>
<tr>
<td>7305 3P Mom.-Off-Mom.</td>
<td>J61 Lever with frame, snap-in</td>
<td>V9 1.150&quot; high, V-bracket</td>
</tr>
<tr>
<td>7308 3P On-None-Mom.</td>
<td>J63 Lever, snap-in</td>
<td>V31 .460&quot; high, V-bracket, snap-in</td>
</tr>
<tr>
<td>7309 3P None-On-Mom.</td>
<td>J64 Rocker with frame, snap-in</td>
<td>V41 .630&quot; high, V-bracket, snap-in</td>
</tr>
<tr>
<td>7403 4P Off-Off-On</td>
<td>J65 Lever</td>
<td>V51 Vertical right angle, snap-in</td>
</tr>
<tr>
<td>7408 4P On-None-Mom.</td>
<td>J68 Lever, snap-in</td>
<td>W1 .964&quot; long, wire wrap</td>
</tr>
<tr>
<td>7411 4P On-On-Mom.</td>
<td>J70 Lever</td>
<td>W4 1.062&quot; long, wire wrap</td>
</tr>
<tr>
<td>7413 4P On-On-Mom.</td>
<td>J71 Lever with frame, snap-in</td>
<td>W5 1.305&quot; long, wire wrap</td>
</tr>
<tr>
<td>7415 4P Mom.-On-Mom.</td>
<td>J72 Lever with frame &amp; LED, snap-in</td>
<td>Z3 Quick connect</td>
</tr>
</tbody>
</table>

### Contact Material
- B (STD.) Gold
- Q (STD.) Silver
- K Gold
- M Silver
- G Gold over silver
- L Gold over silver

### Seal
- E (STD.) Epoxy

### Actuator Color
- 2 (STD.) Black
- 1 White
- 3 Red

### Frame Color
- 2 (STD.) Black
- NONE No frame color required
- 1 White
- 3 Red

### Metal Frame Color
- (J11, J19, J21, J37 Actuators)
- 2 (STD.) Black
- 1 White
- C Bright chrome
- S Satin chrome

**Typical Example:** 7 1 0 1 J 1 Z Q E 2

**Note:** UL/CSA models available, see page F-6.
C&K 7000 Series
Rocker and Lever Handle Switches

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-22 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: Nylon, black.

FRAME (FRONT MOUNT): Nylon, black.

FRAME (REAR MOUNT): Spring steel, black.

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: Copper alloy, silver plated. See page F-22 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 F-22 for additional contact materials.

TERMINAL SEAL: Epoxy.


SWITCHES WITH STANDARD OPTIONS
SWITCHES WITH STANDARD OPTIONS

**PART NUMBER**

<table>
<thead>
<tr>
<th>POS. 1</th>
<th>POS. 2</th>
<th>POS. 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>7301J1ZQE2</td>
<td>ON</td>
<td>NONE</td>
</tr>
<tr>
<td>7401J1ZQE2</td>
<td>ON</td>
<td>NONE</td>
</tr>
<tr>
<td>7301J1AV2QE2</td>
<td>ON</td>
<td>NONE</td>
</tr>
</tbody>
</table>

**NOTE:** For PC termination, replace 'Z' with 'C'.
For panel mounting information, see page F-7.

**PART NUMBER**

<table>
<thead>
<tr>
<th>POS. 1</th>
<th>POS. 2</th>
<th>POS. 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>7101J1ABE2</td>
<td>ON</td>
<td>NONE</td>
</tr>
<tr>
<td>7101J1AQE2</td>
<td>ON</td>
<td>NONE</td>
</tr>
<tr>
<td>7103J1ABE2</td>
<td>ON</td>
<td>OFF</td>
</tr>
</tbody>
</table>

**NOTE:** For PC mounting information, see page F-15.

**PART NUMBER**

<table>
<thead>
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<th>POS. 1</th>
<th>POS. 2</th>
<th>POS. 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>7301J1AV2QE2</td>
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<td>NONE</td>
</tr>
</tbody>
</table>

**NOTE:** For PC mounting information, see page F-17.

**C&D K 7000 Series**

**Rocker and Lever Handle Switches**

**Horizontal Actuation**

**SECTION A-A**

**PART NUMBER**

<table>
<thead>
<tr>
<th>POS. 1</th>
<th>POS. 2</th>
<th>POS. 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>7101J1ABE2</td>
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<td>NONE</td>
</tr>
</tbody>
</table>

**Vertical Actuation**

**SECTION A-A**

**PART NUMBER**

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<tr>
<th>POS. 1</th>
<th>POS. 2</th>
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</tr>
</thead>
<tbody>
<tr>
<td>7301J1AV2QE2</td>
<td>ON</td>
<td>NONE</td>
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</tbody>
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# C&K 7000 Series
## Rocker and Lever Handle Switches

### SWITCH FUNCTION

<table>
<thead>
<tr>
<th>NO. POLES</th>
<th>MODEL NO.</th>
<th>UL/CSA Model No.</th>
<th>SWITCH FUNCTION</th>
<th>CONNECTED TERMINALS</th>
<th>SCHEMATIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP</td>
<td>7101 (STD.) U11</td>
<td>ON NONE ON</td>
<td>POS. 1:</td>
<td>POS. 2:</td>
<td>POS. 3:</td>
</tr>
<tr>
<td></td>
<td>7103 (STD.) U13</td>
<td>ON OFF ON</td>
<td>2-3: OPEN</td>
<td>2-1:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>7105 U15</td>
<td>MOM. OFF MOM.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7107 U17</td>
<td>ON OFF MOM.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7108 U18</td>
<td>ON NONE MOM.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7109 U19</td>
<td>NONE ON MOM.</td>
<td>N/A: 2-3</td>
<td>2-1:</td>
<td></td>
</tr>
<tr>
<td>DP</td>
<td>7201 (STD.) U21</td>
<td>ON NONE ON</td>
<td>POS. 1:</td>
<td>POS. 2:</td>
<td>POS. 3:</td>
</tr>
<tr>
<td></td>
<td>7203 U23</td>
<td>ON OFF ON</td>
<td>2-3,5-6: OPEN</td>
<td>2-1,5-4:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>7205 U25</td>
<td>MOM. OFF MOM.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7207 U27</td>
<td>ON OFF MOM.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7208 U28</td>
<td>ON NONE MOM.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7209 U29</td>
<td>NONE ON MOM.</td>
<td>N/A: 2-3,5-6</td>
<td>2-1,5-4:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>7211* U211*</td>
<td>ON ON ON</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7213* U213*</td>
<td>ON ON ON</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7215* U215*</td>
<td>MOM. ON MOM.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3P</td>
<td>7301 (STD.) U31</td>
<td>ON NONE ON</td>
<td>POS. 1:</td>
<td>POS. 2:</td>
<td>POS. 3:</td>
</tr>
<tr>
<td></td>
<td>7303 U33</td>
<td>ON OFF ON</td>
<td>2-3,5-6,8-9: OPEN</td>
<td>2-1,5-4,8-7:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>7305 U35</td>
<td>MOM. OFF MOM.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7307 U37</td>
<td>ON OFF MOM.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7308 U38</td>
<td>ON NONE MOM.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7309 U39</td>
<td>NONE ON MOM.</td>
<td>N/A: 2-3,5-6,8-9</td>
<td>2-1,5-4,8-7:</td>
<td></td>
</tr>
<tr>
<td>4P</td>
<td>7401 (STD.) U41</td>
<td>ON NONE ON</td>
<td>POS. 1:</td>
<td>POS. 2:</td>
<td>POS. 3:</td>
</tr>
<tr>
<td></td>
<td>7403 U43</td>
<td>ON OFF ON</td>
<td>2-3,5-6,8-9,11-12: OPEN</td>
<td>2-1,5-4,8-7,11-10:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>7405 U45</td>
<td>MOM. OFF MOM.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7407 U47</td>
<td>ON OFF MOM.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7408 U48</td>
<td>ON NONE MOM.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
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<td>7409 U49</td>
<td>NONE ON MOM.</td>
<td>N/A: 2-3,5-6,8-9,11-12</td>
<td>2-1,5-4,8-7,11-10:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>7411* U411*</td>
<td>ON ON ON</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7413* U413*</td>
<td>ON ON ON</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7415* U415*</td>
<td>MOM. ON MOM.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

MOM. = Momentary

*U11-U415 model nos. *with all options when ordered with G, L, M or Q contact material.

* Wiring for 3-way switch, see page L-29.
Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

NOTE: Hardware: two each—mounting screws, nuts, lockwashers and standoffs for 1/8 inch thick panel are supplied standard on all switches with panel mounting brackets. Hardware is available separately, see section L.

J1, J2, J3, J8 & J10 Actuators available with C, W-W5, Z or Z3 terminations.

---

### ACTUATOR—PANEL REAR MOUNT

<table>
<thead>
<tr>
<th>OPTION CODE</th>
<th>ACTUATOR COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>(STD.) BLACK</td>
</tr>
<tr>
<td>1</td>
<td>WHITE</td>
</tr>
<tr>
<td>3</td>
<td>RED</td>
</tr>
</tbody>
</table>

---

**J1 (STD.) ROCKER**

---

**J2 LEVER**

---

**J3 ROCKER**

---

**J8 ROCKER**

---

**J10 ROCKER**

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Rocker and Lever Handle Switches

ACTUATOR—SNAP-IN FRONT MOUNT

<table>
<thead>
<tr>
<th>ACTUATOR COLOR</th>
<th>ACTUATOR</th>
<th>FRAME COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>(STD.) BLACK</td>
<td>none (J15 or J25 options)</td>
</tr>
<tr>
<td>1</td>
<td>WHITE</td>
<td>WHITE</td>
</tr>
<tr>
<td>3</td>
<td>RED</td>
<td>RED</td>
</tr>
</tbody>
</table>

NO: Frames are available separately, see section L. J15, J16, J25, J26 & J76 Actuators available with 71XX, 72XX, U1XX & U2XX models and G, W-W5, Z and Z3 terminations.

NO FRAME COLOR CHOICE REQUIRED.

ROCKER WITH FRAME, SNAP-IN

ROCKER, SNAP-IN

LEVER, SNAP-IN

LEVER WITH FRAME, SNAP-IN

ROCKER WITH FRAME, SNAP-IN

Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.
C&K 7000 Series
Rocker and Lever Handle Switches

ACTUATOR—SNAP-IN FRONT MOUNT

<table>
<thead>
<tr>
<th>OPTION CODE</th>
<th>ACTUATOR COLOR</th>
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</thead>
<tbody>
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<td>2</td>
<td>(STD.) BLACK</td>
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<tr>
<td>1</td>
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<th>OPTION CODE</th>
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<td>2</td>
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<tr>
<td>NONE</td>
<td>No Frame Color (J50 or J53 options)</td>
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<tr>
<td>1</td>
<td>WHITE</td>
</tr>
<tr>
<td>3</td>
<td>RED</td>
</tr>
</tbody>
</table>

Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

NOTE: Frames are available separately, see section L. J50, J51, J52 & J53 Actuators available with 71XX, 72XX, U1XX & U2XX models and C, W-W5, Z and Z3 terminations.

PANEL MOUNTING

J50, J51 & J53 Actuators

J52 Actuator

LED not included.
For LED information, see page L-30.

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Rocker and Lever Handle Switches

J60  LEVER, SNAP-IN

No frame color choice required.

J61  LEVER WITH FRAME, SNAP-IN

J62  LEVER WITH FRAME & LED, SNAP-IN

LED not included. For LED information, see page L-30.

J63  LEVER, SNAP-IN

No frame color choice required.

NOTE: Frames are available separately, see section L. J60, J61, J62 & J63 Actuators available with 71XX, 72XX, U1XX & U2XX models and C, W-W5, Z & Z3 terminations.

FINISH: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

* For J60: Increase this dimension to .620/.625 (15.75/15.88) for .091/.125 (2.31/3.18) thk. panels.
For J61, J62: Increase this dimension to .620/.625 (15.75/15.88) for .060/.125 (1.52/3.18) thk. panels.
C&K 7000 Series
Rocker and Lever Handle Switches

ACTUATOR—SNAP-IN FRONT MOUNT

J90 LEVER, SNAP-IN

J91 LEVER WITH FRAME, SNAP-IN

J92 LEVER WITH FRAME & LED, SNAP-IN

J93 LEVER, SNAP-IN

OPTION CODE | ACTUATOR COLOR
---|---
2 | (STD.) BLACK
1 | WHITE
3 | RED

OPTION CODE | FRAME COLOR
---|---
2 | (STD.) BLACK
NONE | No Frame Color (J90 or J93 options)
1 | WHITE
3 | RED

Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

**NOTE**: Frames are available separately, see section L. J90, J91, J92 & J93 Actuators are available with 71XX, 72XX, U1XX & U2XX models and C, W-W5, Z & Z3 terminations.

* For J90: Increase this dimension to .620/.625 (15.75/15.88) for .091/.125 (2.31/3.18) thk. panels.
* For J91, J92: Increase this dimension to .620/.625 (15.75/15.88) for .060/.125 (1.52/3.18) thk. panels.

No frame color choice required.

LED not included. For LED information, see page L-30.

No frame color choice required.

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ACTUATOR—REAR MOUNT

**J11** ROCKER WITH FRAME

- Other colors, custom actuator markings and legends available, consult Customer Service Center.

**J21** LEVER WITH FRAME

**J19** ROCKER WITH FRAME

**J37** ROCKER WITH FRAME

**NOTE:** Frames are available separately, see section L. J11, J18, J21 & J37 Actuators available with C, W-W5, Z & Z3 terminations.

<table>
<thead>
<tr>
<th>OPTION CODE</th>
<th>ACTUATOR COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
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<tr>
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<table>
<thead>
<tr>
<th>OPTION CODE</th>
<th>FRAME COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>(STD.) BLACK</td>
</tr>
<tr>
<td>1</td>
<td>WHITE</td>
</tr>
<tr>
<td>C</td>
<td>BRIGHT CHROME</td>
</tr>
<tr>
<td>S</td>
<td>SATIN CHROME</td>
</tr>
</tbody>
</table>

Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

**NOTE:** Some permissible actuator/termination combinations may lack clearance between actuator and PC board, and care must be exercised to accommodate this condition.

Actuators are available separately, see section L. J1, J2 & J8 actuators available with A, A3, AV2, AV3, AW-AW4 & V2-V91 terminations. J3 actuators available with AV2, AV3 & V2-V91 terminations. J50 actuators available with A (DP, 3P models only), A3 (DP, 3P models only), AV2, AV3, AW-AW4 (DP, 3P models only) & V2-V91 terminations.
C&K 7000 Series
Rocker and Lever Handle Switches

ACTUATOR—PC MOUNT

J60 LEVER

J90 LEVER

TERMINATIONS

Z (STD.) SOLDER LUG

C (STD.) PC THRU-HOLE

SPDT thru 4PDT

W, W1, W3, W4, W5 WIRE WRAP

NOTE: Available actuators, see pages F-7 thru F-14.

OPTION CODE  ACTUATOR COLOR
2  (STD.) BLACK
1  WHITE
3  RED

Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

NOTE: Some permissible actuator/termination combinations may lack clearance between actuator and PC board, and care must be exercised to accommodate this condition.

Actuators are available separately, see section L. J60 & J90 actuators available with A (DP, 3P models only), A3 (DP, 3P models only), AV2, AV3, AW-AW4 (DP, 3P models only) & V2-V91 terminations.

DIM 'A'

Option Code  DIM 'A'
W  .750 (19.05)
W1  .964 (24.49)
W3  .425 (10.80)
W4  1.062 (26.97)
W5  1.305 (33.15)

Dim 'A'  .030 THK. (0.76)

Dim 'A'  .025 THK. (0.64)

Dim 'A'  .050 THK. (1.27)

/ Dim 'A'  .090 THK. (2.29)

/ Dim 'A'  .150 TYP. (3.81)

/ Dim 'A'  .180 TYP. (4.57)

/ Dim 'A'  .250 (6.35)

/ Dim 'A'  .320 (8.12)

/ Dim 'A'  .380 (9.65)

/ Dim 'A'  .500 (12.7)

/ Dim 'A'  .560 (14.2)

/ Dim 'A'  .640 (16.26)

/ Dim 'A'  .820 (20.8)

/ Dim 'A'  1.06 (26.9)

/ Dim 'A'  1.12 (28.9)

/ Dim 'A'  1.20 (30.5)

/ Dim 'A'  1.25 (31.75)

/ Dim 'A'  1.30 (33.0)

/ Dim 'A'  1.37 (34.8)

/ Dim 'A'  1.50 (38.1)

/ Dim 'A'  1.90 (48.26)

/ Dim 'A'  2.00 (50.8)

/ Dim 'A'  2.19 (55.6)

/ Dim 'A'  2.25 (57.15)

/ Dim 'A'  2.50 (63.5)

/ Dim 'A'  3.00 (76.2)

/ Dim 'A'  3.18 (80.8)

/ Dim 'A'  3.81 (96.83)

/ Dim 'A'  4.57 (116.0)

/ Dim 'A'  5.00 (127)

/ Dim 'A'  5.08 (129.0)

/ Dim 'A'  5.33 (135)
C&K 7000 Series
Rocker and Lever Handle Switches

TERMINATIONS

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

Actuator Shown In Pos. 1

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

AW, AW1, AW3, AW4, AW5 RIGHT ANGLE, EXTENDED, PC THRU-HOLE

OPTION CODE | DIM 'A'  
--- | ---
AW | .44 (11,2)  
AW1 | .66 (16,8)  
AW3 | .14 (3,6)  
AW4 | .77 (19,6)  
AW5 | 1.02 (25,9)

PC MOUNTING

7101J1ABE2
Horizontal Actuation
SPDT

NOTE: PC pattern must clear switch support leg.

Not available with I seal option. Available actuators, see pages F-13 and F-14. Terminal bend radii and lead-in manufacturing option.

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

Actuator Shown In Pos. 1

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

AW, AW1, AW4, AW5 RIGHT ANGLE, EXTENDED, PC THRU-HOLE

OPTION CODE | DIM 'A'  
--- | ---
AW | .19 (4,8)  
AW1 | .40 (10,2)  
AW4 | .50 (12,7)

PC MOUNTING

7201J1ABE2
Horizontal Actuation
DPDT

Not available with I seal option. Available actuators, see pages F-13 and F-14. Terminal bend radii and lead-in manufacturing option.
## C&K 7000 Series
### Rocker and Lever Handle Switches

### TERMINATIONS

**A**

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

![Image of A switch](image1)

7301J1ABE2
Horizontal Actuation

3PDT

Not available with I seal option. Available actuators, see pages F-13 and F-14.

Terminal bend radii and lead-in manufacturing option.

**AW4**

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

![Image of AW4 switch](image2)

Not available with I seal option. Available actuators, see pages F-13 and F-14.

Terminal bend radii and lead-in manufacturing option.

**AV2**

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

![Image of AV2 switch](image3)

7101J1AV2BE2
Vertical Actuation

SPDT

Not available with I seal option. Available actuators, see pages F-13 and F-14.

Terminal bend radii and lead-in manufacturing option.

**AV3**

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

![Image of AV3 switch](image4)

Not available with I seal option. Available actuators, see pages F-13 and F-14.

Terminal bend radii and lead-in manufacturing option.
C&K 7000 Series
Rocker and Lever Handle Switches

TERMINATIONS

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

Actuator Shown in Pos. 1

PC Mounting

7201J1AV2BE2
Vertical Actuation
DPDT

Not available with I seal option. Available actuators, see pages F-13 and F-14.
Terminal bend radii and lead-in manufacturing option.

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

PC Mounting

7301J1AV2BE2
Vertical Actuation
3PDT

Not available with I seal option. Available actuators, see pages F-13 and F-14.
Terminal bend radii and lead-in manufacturing option.
C&K 7000 Series
Rocker and Lever Handle Switches

TERMINATIONS

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

7401J1AV2BE2
Vertical Actuation
4PDT

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

**V5** VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150° PITCH

7101J1V5BE2
Vertical Actuation
SPDT

**V51** VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, .150° PITCH

**V54, V55** VERTICAL RIGHT ANGLE, EXTENDED, PC THRU-HOLE, .150° PITCH

Not available with I seal option. Available actuators, see pages F-13 and F-14. Terminal bend radii and lead-in manufacturing option.
C&K 7000 Series
Rocker and Lever Handle Switches

TERMINATIONS

V5  VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150° PITCH

V51  VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, .150° PITCH

V54, V55  VERTICAL RIGHT ANGLE, EXTENDED, PC THRU-HOLE, .150° PITCH

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

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

Not available with I seal option. Available actuators, see pages F-13 and F-14.

Terminal bend radii and lead-in manufacturing option.

Not available with I seal option. Available actuators, see pages F-13 and F-14.

ITT Industries
Cannon

F-19
www.ittcannon.com
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.
Available actuators, see pages F-13 and F-14.

V2, V7, V8  VERTICAL MOUNT, V-BRACKET
V21, V71, V81  VERTICAL MOUNT, V-BRACKET, SNAP-IN

Actuator Shown In Pos. 1
Not available with I seal option.
Available actuators, see pages F-13 and F-14.

V2, V7, V8  VERTICAL MOUNT, V-BRACKET
V21, V71, V81  VERTICAL MOUNT, V-BRACKET, SNAP-IN

Actuator Shown In Pos. 1
Not available with I seal option.
Available actuators, see pages F-13 and F-14.

ITT Industries  Cannon

www.ittcannon.com
# C&K 7000 Series

## Rocker and Lever Handle Switches

### TERMINATIONS

<table>
<thead>
<tr>
<th>Option Code</th>
<th>Dim 'A'</th>
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<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>

### V3, V4, V9

**Vertical Mount, V-bracket**

<table>
<thead>
<tr>
<th>Option Code</th>
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<tbody>
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<td>V3, V31</td>
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</tr>
<tr>
<td>V9, V91</td>
<td>1.150 (29.21)</td>
</tr>
</tbody>
</table>

### V31, V41, V91

**Vertical Mount, V-bracket, SNAP-IN**

<table>
<thead>
<tr>
<th>Option Code</th>
<th>Dim 'A'</th>
</tr>
</thead>
<tbody>
<tr>
<td>V3, V31</td>
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<tr>
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<td>.630 (16.00)</td>
</tr>
<tr>
<td>V9, V91</td>
<td>1.150 (29.21)</td>
</tr>
</tbody>
</table>

### V4, V9

**Vertical Mount, V-bracket**

<table>
<thead>
<tr>
<th>Option Code</th>
<th>Dim 'A'</th>
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<tbody>
<tr>
<td>V3, V31</td>
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<tr>
<td>V4, V41</td>
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</tr>
<tr>
<td>V9, V91</td>
<td>1.150 (29.21)</td>
</tr>
</tbody>
</table>

### V41, V91

**Vertical Mount, V-bracket, SNAP-IN**

<table>
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<tr>
<th>Option Code</th>
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<tr>
<td>V3, V31</td>
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<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>

Not available with I seal option. Available actuators, see pages F-13 and F-14.
## CONTACT MATERIAL

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.

### TERMINATIONS

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>PC MOUNTING</th>
</tr>
</thead>
<tbody>
<tr>
<td>V4, V9</td>
<td>VERTICAL MOUNT, V-BRACKET</td>
</tr>
<tr>
<td>V41, V91</td>
<td>VERTICAL MOUNT, V-BRACKET, SNAP-IN</td>
</tr>
</tbody>
</table>

### SEAL

<table>
<thead>
<tr>
<th>SEAL</th>
<th>EPOXY POTTED BASE</th>
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</thead>
<tbody>
<tr>
<td>E</td>
<td>EPOXY POTIENT BASE</td>
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</table>

### CONTACT MATERIAL

<table>
<thead>
<tr>
<th>OPTION CODE</th>
<th>CONTACT MATERIAL</th>
<th>TERMINAL PLATING</th>
<th>RATINGS</th>
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</thead>
<tbody>
<tr>
<td>B (STD.)</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>K</td>
<td>GOLD ¹</td>
<td>TIN-LEAD ⁶</td>
<td></td>
</tr>
<tr>
<td>Q (STD.)</td>
<td>SILVER ⁴⁶</td>
<td>POWER</td>
<td>5 AMPS @ 120 V AC OR 28 V DC; 2 AMPS @ 250 V AC.</td>
</tr>
<tr>
<td>M</td>
<td>SILVER ⁵</td>
<td>TIN-LEAD ⁶</td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>GOLD 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>L</td>
<td>GOLD OVER SILVER ²,³</td>
<td>TIN-LEAD ⁶</td>
<td></td>
</tr>
</tbody>
</table>

### SEAL

<table>
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<tr>
<td>V9, V91</td>
<td>1.150 (29.21)</td>
</tr>
</tbody>
</table>

U11-U415 model numbers ⁸ with all options when ordered with G, L, M or Q contact material.
B contact material standard with all terminations except C, Z & Z3.
Q contact material standard with C, Z & Z3 terminations.
K, L & M contact materials not available with Z & Z3 terminations.

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