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-20 thru A-22. Available options are shown and described on pages A-22 thru A-30. For additional options not shown in catalog, consult our Customer Service Center. All models are process sealed to withstand machine soldering temperatures and pressure wash cleaning methods.

Features/Benefits
- Sealed against solder and cleaning process contaminants
- UL 94V-0 Nylon case and bushing
- Multi-positions
- ESD protection available

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-20 thru A-22. Available options are shown and described on pages A-22 thru A-30. For additional options not shown in catalog, consult our Customer Service Center. All models are process sealed to withstand machine soldering temperatures and pressure wash cleaning methods.

Typical Example: E101  S  D1  C  B  E

Switch Function
- E101 (STD.) SP, On-None-On
- E103 (STD.) SP, On-Off-On
- E201 (STD.) DP, On-None-On
- E203 (STD.) DP, On-Off-On
- E301 (STD.) 3P, On-None-On
- E105 SP, Mom.-Off-Mom.
- E107 SP, On-Off-Mom.
- E108 SP, On-None-Mom.
- E205 DP, Mom.-Off-Mom.
- E208 DP, On-None-Mom.
- E213 DP, Mom.-Off-Mom.
- E303 3P, On-Off-On
- E305 3P, Mom.-Off-Mom.
- E308 3P, On-None-Mom.

Actuator
- M (STD.) .300" high
- S (STD.) .500" high
- L3 Plastic, .940" high

Bushing
- D1 (STD.) .250" high
- F1 (STD.) Conduit, .250" high
- D9 .280" high
- Y Threaded, .350" high

Terminations
- A (STD.) Right angle, PC thru-hole
- V2 (STD.) Vertical right angle, PC thru-hole
- V3 (STD.) PC Thru-hole
- V1 (STD.) .460" high, V-bracket
- Z (STD.) Solder lug
- W Right angle, extended, PC thru-hole
- AW Right angle, extended, PC thru-hole
- AW1 Right angle, extended, PC thru-hole
- AW3 Right angle, extended, PC thru-hole
- AW4 Right angle, extended, PC thru-hole
- AW5 Right angle, extended, PC thru-hole
- R Right angle with PCB
- V2 Right angle with PCB
- V8 .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 1.150" high, V-bracket
- V21 .555" high, snap-in V-bracket
- V31 .630" high, snap-in V-bracket
- V41 .630" high, snap-in V-bracket
- V61 .460" high, snap-in V-bracket
- V71 .630" high, snap-in V-bracket
- V81 .965" high, snap-in V-bracket
- V91 1.150" high, snap-in V-bracket
- W .750" long, wire wrap
- W1 .965" long, wire wrap
- W3 .425" long, wire wrap
- W4 1.062" long, wire wrap
- W5 1.305" long, wire wrap
- W6 Quick connect

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

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

Seal
- E (STD.) Epoxy

Build-A-Switch Features/Benefits:
- Sealed against solder and cleaning process contaminants
- UL 94V-0 Nylon case and bushing
- Multi-positions
- ESD protection available

Build-A-Switch Typical Applications:
- Telecommunications
- Instrumentation
- Medical equipment

Build-A-Switch Models Available:
- E101 (STD.) SP, On-None-On
- E103 (STD.) SP, On-Off-On
- E201 (STD.) DP, On-None-On
- E203 (STD.) DP, On-Off-On
- E301 (STD.) 3P, On-None-On
- E105 SP, Mom.-Off-Mom.
- E107 SP, On-Off-Mom.
- E108 SP, On-None-Mom.
- E205 DP, Mom.-Off-Mom.
- E208 DP, On-None-Mom.
- E213 DP, Mom.-Off-Mom.
- E303 3P, On-Off-On
- E305 3P, Mom.-Off-Mom.
- E308 3P, On-None-Mom.

Build-A-Switch Switch Function:
- E101 (STD.) SP, On-None-On
- E103 (STD.) SP, On-Off-On
- E201 (STD.) DP, On-None-On
- E203 (STD.) DP, On-Off-On
- E301 (STD.) 3P, On-None-On
- E105 SP, Mom.-Off-Mom.
- E107 SP, On-Off-Mom.
- E108 SP, On-None-Mom.
- E205 DP, Mom.-Off-Mom.
- E208 DP, On-None-Mom.
- E213 DP, Mom.-Off-Mom.
- E303 3P, On-Off-On
- E305 3P, Mom.-Off-Mom.
- E308 3P, On-None-Mom.

Build-A-Switch Actuator:
- M (STD.) .300" high
- S (STD.) .500" high
- L3 Plastic, .940" high

Build-A-Switch Bushing:
- D1 (STD.) .250" high
- F1 (STD.) Conduit, .250" high
- D9 .280" high
- Y Threaded, .350" high

Build-A-Switch Terminations:
- A (STD.) Right angle, PC thru-hole
- V2 (STD.) Vertical right angle, PC thru-hole
- V3 (STD.) PC Thru-hole
- V1 (STD.) .460" high, V-bracket
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- W Right angle, extended, PC thru-hole
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- AW1 Right angle, extended, PC thru-hole
- AW3 Right angle, extended, PC thru-hole
- AW4 Right angle, extended, PC thru-hole
- AW5 Right angle, extended, PC thru-hole
- R Right angle with PCB
- V2 Right angle with PCB
- V8 .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 1.150" high, V-bracket
- V21 .555" high, snap-in V-bracket
- V31 .630" high, snap-in V-bracket
- V41 .630" high, snap-in V-bracket
- V61 .460" high, snap-in V-bracket
- V71 .630" high, snap-in V-bracket
- V81 .965" high, snap-in V-bracket
- V91 1.150" high, snap-in V-bracket
- W .750" long, wire wrap
- W1 .965" long, wire wrap
- W3 .425" long, wire wrap
- W4 1.062" long, wire wrap
- W5 1.305" long, wire wrap
- W6 Quick connect

Build-A-Switch Contact Material:
- B (STD.) Gold
- K Gold
- Q Silver
- M Silver
- G Gold over silver
- L Gold over silver

Build-A-Switch Seal:
- E (STD.) Epoxy

Build-A-Switch Plastic Actuator Color:
- 2 (STD.) Black
- 1 White
- 3 Red
C&K E Series
Sealed Miniature Toggle Switches

Specifications
CONTACT RATING: B contact material: 0.4 VA max. @ 20 V AC or DC max. See page A-30 for additional ratings.
ELECTRICAL LIFE: E1XX and E2XX models: 40,000 make-and-break cycles at full load. E3XX models: 30,000 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.
ELECTROSTATIC DISCHARGE (ESD) OPTION: F1 conductive bushing only. Dissipates up to 20,000 V DC from actuator to ground.
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).
DEGREE OF PROTECTION: IP57; Protection against harmful dust deposit, full-scale voltage protection, temporary immersion.

CONTACTS & TERMINALS: B contact material: Copper alloy, with gold plate over nickel plate. See page A-30 for additional contact materials.
TERMINAL SEAL: Epoxy.
HARDWARE: Nut & Locking ring: Brass, nickel plated.
Lockwasher: Steel, nickel plated.

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

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>E101SD1CBE</td>
<td>SPDT</td>
<td>ON</td>
<td>NONE</td>
<td>ON</td>
</tr>
<tr>
<td>E103SD1CBE</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
<td></td>
</tr>
<tr>
<td>E105SD1CBE</td>
<td>MOM.</td>
<td>OFF</td>
<td>MOM.</td>
<td></td>
</tr>
</tbody>
</table>

MOM. = Momentary

NOTE: For PC mounting information, see page A-24.

<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>E201SD1CBE</td>
<td>DPDT</td>
<td>ON</td>
<td>NONE</td>
<td>ON</td>
</tr>
<tr>
<td>E203SD1CBE</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
<td></td>
</tr>
<tr>
<td>E205SD1CBE</td>
<td>MOM.</td>
<td>OFF</td>
<td>MOM.</td>
<td></td>
</tr>
</tbody>
</table>

MOM. = Momentary

NOTE: For PC mounting information, see page A-24.

<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>E301SD1CBE</td>
<td>3PDT</td>
<td>ON</td>
<td>NONE</td>
<td>ON</td>
</tr>
<tr>
<td>E303SD1CBE</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
<td></td>
</tr>
<tr>
<td>E305SD1CBE</td>
<td>MOM.</td>
<td>OFF</td>
<td>MOM.</td>
<td></td>
</tr>
</tbody>
</table>

MOM. = Momentary

NOTE: For PC mounting information, see page A-24.

Materials
CASE & BUSHING: Glass filled nylon 6/6, flame retardant, heat stabilized (UL 94V-0). F1 conductive bushing option is impregnated with carbon fibers.
ACTUATOR: Brass, chrome plated with internal o-ring standard.
SWITCH SUPPORT: Brass or steel, tin plated.
SWITCH SUPPORT RETAINER: Stainless steel.

NOTE: For PC mounting information, see page A-24.
## Sealed Miniature Toggle Switches

### C&K E Series

#### 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>E101MD1V3BE</td>
<td>SPDT</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>E103MD1V3BE</td>
<td>SPDT</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>E105MD1V3BE</td>
<td>SPDT</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
</tr>
</tbody>
</table>

MOM. = Momentary

**NOTE:** For PC mounting information, see page A-29.

<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>E201MD1V3BE</td>
<td>DPDT</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>E203MD1V3BE</td>
<td>DPDT</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>E205MD1V3BE</td>
<td>DPDT</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
</tr>
</tbody>
</table>

MOM. = Momentary

**NOTE:** For PC mounting information, see page A-29.

<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>E101MD1ABE</td>
<td>SPDT</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>E103MD1ABE</td>
<td>SPDT</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>E105MD1ABE</td>
<td>SPDT</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
</tr>
</tbody>
</table>

MOM. = Momentary

**NOTE:** For PC mounting information, see page A-29.

---

**SECTION A-A**

**E101MD1V3BE**

**E103MD1V3BE**

**E105MD1V3BE**

**E201MD1V3BE**

**E203MD1V3BE**

**E205MD1V3BE**

**E101MD1ABE**

**E103MD1ABE**

**E105MD1ABE**

**E201MD1ABE**

**E203MD1ABE**

**E205MD1ABE**

---

**Actuator Shown In Pos. 1**

**Actuator Shown In Pos. 1**

**Actuator Shown In Pos. 1**

---

**E101MD1V3BE**

**E103MD1V3BE**

**E105MD1V3BE**

**E201MD1V3BE**

**E203MD1V3BE**

**E205MD1V3BE**

**E101MD1ABE**

**E103MD1ABE**

**E105MD1ABE**

**E201MD1ABE**

**E203MD1ABE**

**E205MD1ABE**

---

**PART NUMBER**

**NO. POLES**

**POS. 1**

**POS. 2**

**POS. 3**

**E101MD1V3BE**

**SPDT**

**E103MD1V3BE**

**SPDT**

**E105MD1V3BE**

**SPDT**

**E201MD1V3BE**

**DPDT**

**E203MD1V3BE**

**DPDT**

**E205MD1V3BE**

**DPDT**

**E101MD1ABE**

**SPDT**

**E103MD1ABE**

**SPDT**

**E105MD1ABE**

**SPDT**

**E201MD1ABE**

**DPDT**

**E203MD1ABE**

**DPDT**

**E205MD1ABE**

**DPDT**

---

**NOTE:** For PC mounting information, see page A-29.
### Switches with Standard Options

**Switches with Standard Options**

**Mom. = Momentary**

**NOTE:** For PC mounting information, see page A-26.

### Table: Switch Function

<table>
<thead>
<tr>
<th>No. Poles</th>
<th>Model No.</th>
<th>Switch Function</th>
<th>Connected Terminals</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>POS. 1</td>
<td>POS. 2</td>
</tr>
<tr>
<td>SP</td>
<td>E101 (STD.)</td>
<td>ON</td>
<td>NONE</td>
</tr>
<tr>
<td></td>
<td>E103 (STD.)</td>
<td>ON</td>
<td>OFF</td>
</tr>
<tr>
<td></td>
<td>E105</td>
<td>MOM.</td>
<td>OFF</td>
</tr>
<tr>
<td></td>
<td>E107</td>
<td>ON</td>
<td>OFF</td>
</tr>
<tr>
<td></td>
<td>E108</td>
<td>ON</td>
<td>NONE</td>
</tr>
</tbody>
</table>

**DP**

|           | E201 (STD.) | ON     | NONE   | ON     |          |          |          |          |
|           | E203 (STD.) | ON     | OFF    | ON     |          |          |          |          |
|           | E205      | MOM.   | OFF    | MOM.   |          |          |          |          |
|           | E207      | ON     | OFF    | MOM.   |          |          |          |          |
|           | E208      | ON     | NONE   | MOM.   |          |          |          |          |
|           | E211 (STD.)** | ON     | OFF    | ON     |          |          |          |          |
|           | E213**    | ON     | ON     | MOM.   |          |          |          |          |
|           | E215**    | MOM.   | ON     | MOM.   |          |          |          |          |

**MOM. = Momentary**

**All models with all options when ordered with G, L, M or Q contact material.**

---

**Wiring for 3-way switch, see page L-29.**
C&K E Series
Sealed Miniature Toggle Switches

SWITCH FUNCTION

<table>
<thead>
<tr>
<th>NO. POLES</th>
<th>MODEL NO.</th>
<th>SWITCH FUNCTION</th>
<th>CONNECTED TERMINALS</th>
<th>SCHEMATIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>3P</td>
<td>E301 (STD.)</td>
<td>ON</td>
<td>NONE</td>
<td>ON</td>
</tr>
<tr>
<td></td>
<td>E303</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td></td>
<td>E305</td>
<td>MOM.</td>
<td>OFF</td>
<td>MOM.</td>
</tr>
<tr>
<td></td>
<td>E307</td>
<td>ON</td>
<td>OFF</td>
<td>MOM.</td>
</tr>
<tr>
<td></td>
<td>E308</td>
<td>ON</td>
<td>NONE</td>
<td>MOM.</td>
</tr>
</tbody>
</table>

MOM. = Momentary

All models with all options when ordered with G, L, M or Q contact material.

M = (STD.) .300" HIGH
S = (STD.) .500" HIGH
L3 = PLASTIC, .940" HIGH

ACTUATOR

<table>
<thead>
<tr>
<th>ACTUATOR COLOR</th>
<th>ACTUATOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>M (STD.) .300&quot; HIGH</td>
<td>S (STD.) .500&quot; HIGH</td>
</tr>
<tr>
<td>L3 PLASTIC, .940&quot; HIGH</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ACTUATOR COLOR</th>
<th>L3 ACTUATOR COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 (STD.) BLACK</td>
<td></td>
</tr>
<tr>
<td>1 WHITE</td>
<td></td>
</tr>
<tr>
<td>3 RED</td>
<td></td>
</tr>
</tbody>
</table>

Other colors available, consult Customer Service Center. No color choice required for S & M actuators.

* Actuators shown with standard D1 bushing. Subtract .030 (0.76) for D9 bushing. Subtract .100 (2.54) for Y bushing.

BUSHING

<table>
<thead>
<tr>
<th>BUSHING</th>
<th>OPTION CODE</th>
<th>D3 ACTUATOR COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1 (STD.) .250&quot; HIGH, UNTREATED</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F1 (STD.) ESD CONDUCTIVE BUSHING, .250&quot; HIGH, UNTREATED</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D9 .280&quot; HIGH, UNTREATED</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Y THREADED, INSULATED, .350&quot; HIGH WITH KEYWAY</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ESD protection depends on proper grounding of switch support bracket. F1 conductive bushing option is impregnated with carbon fibers; dissipates electrostatic discharge (ESD) up to 20,000 V from actuator to ground.


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

E3XX models not available with D9 bushing.

NOTE: Internal o-ring actuator seal standard for all bushing options.
C&K E Series
Sealed Miniature Toggle Switches

TERMINATIONS

Z  (STD.) SOLDER LUG

SPDT thru 3PDT  Not available with F1 conductive bushing or K, L or M contact material.

Z3  QUICK CONNECT

SPDT thru 3PDT  Not available with F1 conductive bushing.

W, W1, W3, W4, W5  WIRE WRAP

SPDT thru 3PDT  Not available with F1 conductive bushing.

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

E101MD1ABE  Horizontal Actuation

Actuator Shown In Pos. 1

SPDT

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

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

PC MOUNTING

Not available with Y bushing.
Terminal bend radii and lead-in manufacturing option.

ITT Industries  Cannon

A-24  www.ittcannon.com
### Terminations

#### (STD.) Right Angle, PC Thru-Hole

**AW, AW1, AW4**

- **Dimension A**:
  - **AW**: 0.21 (5.3)
  - **AW1**: 0.42 (10.7)
  - **AW4**: 0.52 (13.2)

#### Right Angle, Snap-In, PC Thru-Hole

**A3**

- **Dimensions**:
  - Dimension A: 0.48 TYP. (12.2)
  - 0.70 TYP. (17.8)

#### Right Angle, Extended

**AW, AW1, AW4**

- **Dimensions**:
  - **AW**: 0.83 MAX. (21.1)
  - **AW1**: 0.83 MAX. (21.1)
  - **AW4**: 0.83 MAX. (21.1)

### Horizontal Actuation

#### Sealed Miniature Toggle Switches

- **C&K E Series**
- **Cannon**
- **ITT Industries**
- **www.ittcannon.com**

---

**Not available with Y bushing.**

**Terminal bend radii and lead-in manufacturing option.**

---

**E201MD1ABE**

- **Horizontal Actuation**
- **DPDT**

---

**E301MD1ABE**

- **Horizontal Actuation**
- **3PDT**

---

**OPTION CODE**

- **AW**
- **AW1**
- **AW4**

**DIM 'A'**

- **AW**: 0.21 (5.3)
- **AW1**: 0.42 (10.7)
- **AW4**: 0.52 (13.2)
C&K E Series
Sealed Miniature Toggle Switches

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

E101MD1AV2BE
Vertical Actuation
SPDT

Not available with Y bushing.
Terminal bend radii and lead-in manufacturing option.

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

E201MD1AV2BE
Vertical Actuation
DPDT

Not available with Y bushing.
Terminal bend radii and lead-in manufacturing option.
C&K E Series
Sealed Miniature Toggle Switches

TERMINATIONS

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

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

Not available with D9 & Y bushings. Terminal bend radii and lead-in manufacturing option.

R  RIGHT ANGLE WITH PCB

Not available with Y bushing. Contact makes on same side actuator thrown. Available with B contact material only.

R2  RIGHT ANGLE WITH PCB

Not available with Y bushing. Contact makes on opposite side actuator thrown. Available with B contact material only.

ITT Industries

Cannon

www.ittcannon.com
## Terminations

### V2, V6, V7, V8  
**Vertical Mount, V-Bracket**

- **Actuator Shown In Pos. 1**
- **Sealed Miniature Toggle Switches**
- **C&K E Series**
- **E101MD1__BE**
- **SPDT**

Not available with **Y bushing**.

### V21, V61, V71, V81  
**Vertical Mount, V-Bracket, Snap-In**

- **Actuator Shown In Pos. 1**
- **Sealed Miniature Toggle Switches**
- **C&K E Series**
- **E201MD1__BE**
- **DPDT**

Not available with **Y bushing**.

### V2, V7, V8  
**Vertical Mount, V-Bracket**

- **Actuator Shown In Pos. 1**
- **Sealed Miniature Toggle Switches**
- **C&K E Series**
- **E301MD1__BE**
- **3PDT**

Not available with **D9 & Y bushings**.

### Table: Option Code and DIM 'A'

<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>V6, V61</td>
<td>.460 (11, 68)</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>
C&K E Series
Sealed Miniature Toggle Switches

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 Y bushing.

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 Y bushing.

V4, V9
VERTICAL MOUNT, V-BRACKET

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

Actuator Shown In Pos. 1

Not available with D9 & Y bushings.
## 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>GOLD ¹</td>
<td>LOW LEVEL/DRY CIRCUIT</td>
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<tr>
<td>K</td>
<td>SILVER 4,5</td>
<td>SILVER ⁵</td>
<td>POWER</td>
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<tr>
<td>Q</td>
<td>SILVER 4,5</td>
<td>TIN-LEAD ⁶</td>
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</tr>
<tr>
<td>M</td>
<td>SILVER 4,5</td>
<td>TIN-LEAD ⁶</td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>GOLD OVER SILVER 2,3</td>
<td>GOLD ³</td>
<td>LOW LEVEL/DRY CIRCUIT OR POWER</td>
</tr>
<tr>
<td>L</td>
<td>GOLD OVER SILVER 2,3</td>
<td>TIN-LEAD ⁶</td>
<td></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 tin-lead alloy over nickel plate.

All models with all options when ordered with G, L, M, or Q contact material. B contact material standard with all terminations. B contact material must be ordered with R & R2 terminations. K, L, & M contact materials not available with Z & Z3 terminations.

## SEAL

**E (STD.) EPOXY SEAL**

- EPOXY SEAL [Diagram]

- (0.075 MAX. (1/32), 01)