

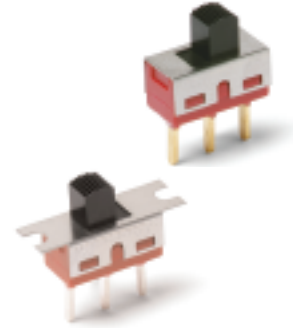
C&K 1000 Series Miniature Slide Switches

Features/Benefits

- Variety of actuators and terminations
- Panel mount tabs available
- Epoxy terminal seal—compatible with bottom-wash cleaning
- RoHS compliant

Typical Applications

- Test & measurement equipment
- Telecommunications
- Computer & peripherals



Specifications

CONTACT RATING: B contact material: 0.4 VA max. @ 20 V AC or DC max. Q contact material: 6 AMPS @ 120 V AC or 28 V DC, 3 AMPS @ 250 V AC. See page J-15 for additional ratings.

ELECTRICAL LIFE: 100,000 make-and-break cycles at full load on models with B, K or P contact material; 40,000 cycles on models with G, Q, L, M, S or R contact material.

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

INSULATION RESISTANCE: 10⁹ Ω min.

DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.

OPERATING TEMPERATURE: -30°C to 65°C

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

Materials

CASE: diallyl phthalate (DAP), (UL 94V-0).

ACTUATOR: Nylon, black, standard.

HOUSING: Stainless steel.

SWITCH SUPPORT: Brass or steel, matte-tin plated.

END CONTACTS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Coin silver, silver plated. See page I-16 for additional contact materials.

CENTER CONTACT & ALL TERMINALS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See page J-15 for additional contact materials.

TERMINAL SEAL: Epoxy. Refer to Soldering and Cleaning in Technical Data chapter

NOTE: Any models supplied with Q, B, G, P, S or R contact material are RoHS compliant. For the latest information regarding RoHS compliance, please go to: www.ittcannon.com/rohs.

NOTE: Specifications and materials 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 J-11 through J-15. For additional options not shown in catalog, consult Customer Service Center. All models have epoxy terminal seal and are compatible with all “bottom-wash” PCB cleaning methods.

| | |
|--|---|
| <p>Switch Function</p> <p>1101 SP On-None-On 1103 SP On-Off-On 1108 SP Mom-None-On 1201 DP On-None-On 1203 DP On-Off-On</p> <p>Mounting Style</p> <p>M2 PC mount without tabs M1 Panel mount with tabs</p> <p>Actuator</p> <p>S3 .200" high S1 .040" high S2 .140" high S4 .285" high S5 .370" high S6 .485" high T3 .200" high</p> <p>Terminations</p> <p>A Right angle, PC thru-hole C PC Thru-hole AV2 Vertical right angle, PC thru-hole Z Solder lug V3 V-bracket V4 V-bracket W .750" long, wire wrap Z3 Quick connect</p> | <p>Contact Material</p> <p>B Gold Q Silver K Gold, tin-lead M Silver, tin-lead G Gold over silver L Gold over silver, tin-lead P Gold, matte-tin S Silver, matte-tin R Gold over silver, matte-tin</p> <p>Seal</p> <p>E Epoxy D No epoxy seal I Epoxy potted base</p> <p>Actuator Color</p> <p>2 Black 1 White 3 Red 7 Blue</p> |
|--|---|



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

C&K 1000 Series Miniature Slide Switches

SWITCH FUNCTION

| NO. POLES | MODEL NO. | SWITCH FUNCTION | | | CONNECTED TERMINALS | | | SCHEMATIC |
|---|-----------|-----------------|--------|--------|---------------------|--------|---------|-----------|
| | | POS. 1 | POS. 2 | POS. 3 | POS. 1 | POS. 2 | POS. 3 | |
| SP | 1101 | ON | NONE | ON | 1-2 | N/A | 2-3 | |
| | 1103 | ON | OFF | ON | | OPEN | | |
| | 1108 | MOM. | NONE | ON | | N/A | | |
| <p>SPDT</p> <p>Part number shown: 1101M2S3CQE2</p> <p>Terminal Nos. For Reference Only</p> | | | | | | | | |
| DP | 1201 | ON | NONE | ON | 2-1,5-4 | OPEN | 2-3,5-6 | |
| | 1203 | ON | OFF | ON | | | | |
| <p>DPDT</p> <p>Part number shown: 1201M2S3CQE2</p> <p>Terminal Nos. For Reference Only</p> | | | | | | | | |

MOM. = Momentary

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

MOUNTING STYLE

M2 PC MOUNTING WITHOUT TABS

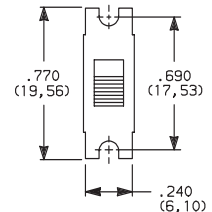


NOTE: Available with A, AV2, C, V3, V4, W terminations only.

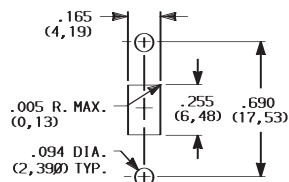
M1 PANEL MOUNTING WITH TABS



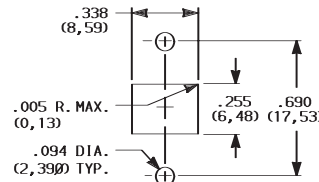
NOTE: Available with C, W, Z, Z3 terminations only. No mounting hardware supplied.



PANEL MOUNTING



All actuators except T3.
Single pole



For T3 actuator only.
Double pole



Third Angle
Projection



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



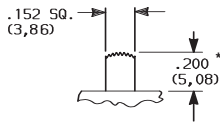
Slide

C&K 1000 Series Miniature Slide Switches

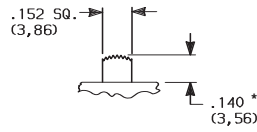
ACTUATOR



S3 .200" HIGH

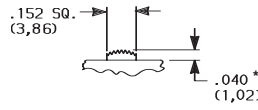


S2 .140" HIGH



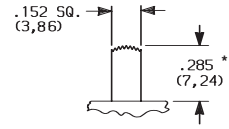
110X models only.

S1 .040" HIGH

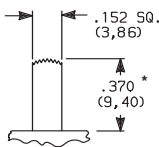


120X models only.

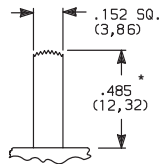
S4 .285" HIGH



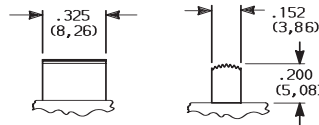
S5 .370" HIGH



S6 .485" HIGH



T3 .200" HIGH



120X models only.

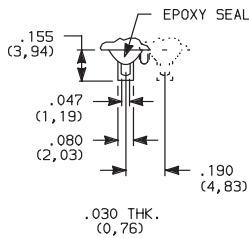
| OPTION CODE | ACTUATOR COLOR |
|-------------|----------------|
| 2 | BLACK |
| 1 | WHITE |
| 3 | RED |
| 7 | BLUE |
| 9 | GRAY |

Other colors available, consult Customer Service Center.

* Subtract .014 (0,36) from actuator height, all models with A, AV2, V3, V4 terminations.

TERMINATIONS

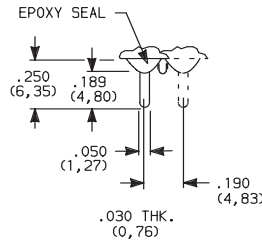
Z SOLDER LUG



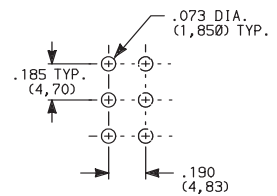
Not available with K, L, M, P, S or R contact materials.

SPDT & DPDT

C PC THRU-HOLE

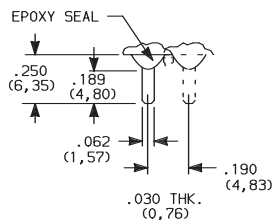


PC MOUNTING



SPDT & DPDT

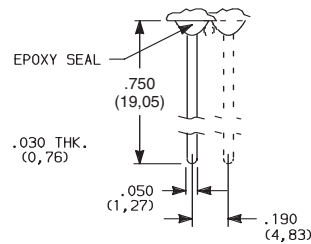
Z3 QUICK CONNECT



Not available with K, L, M, P, S or R contact materials. Mating quick connector available; order part number 530100000, page J-15.

SPDT & DPDT

W WIRE WRAP



SPDT & DPDT



Third Angle Projection
Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change



Cannon

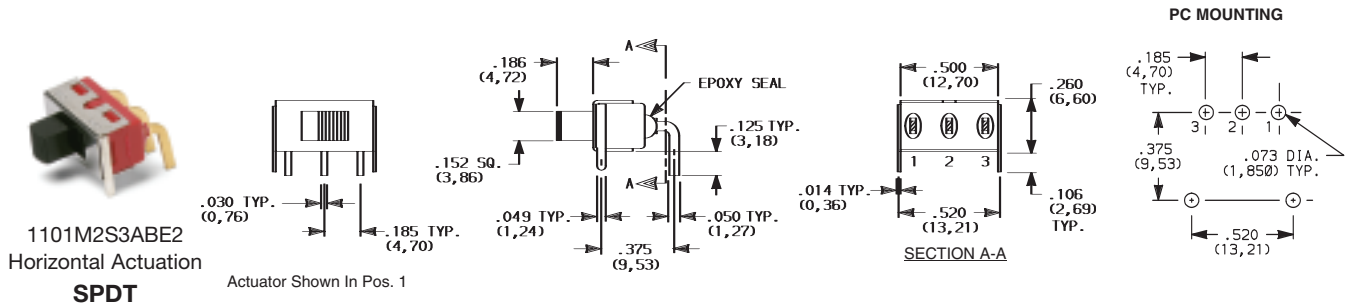


Slide

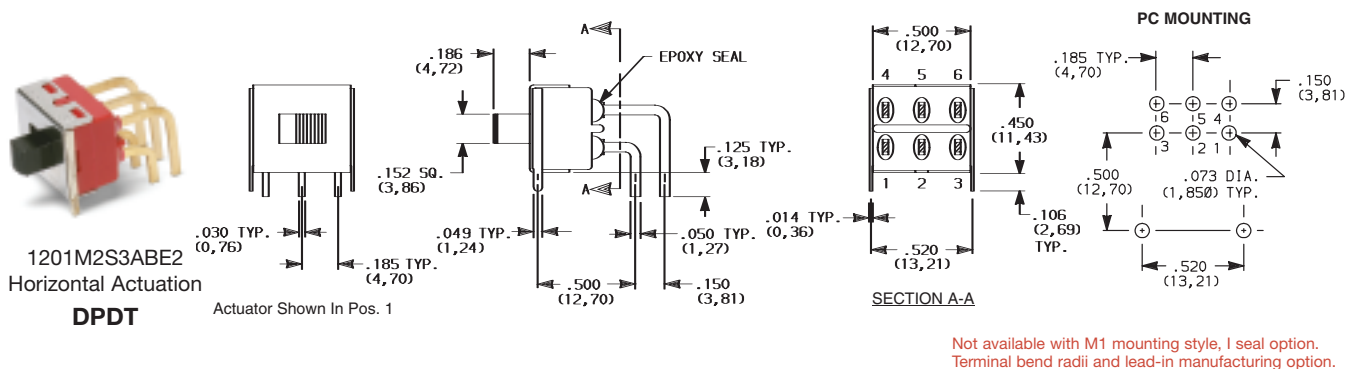
C&K 1000 Series Miniature Slide Switches

TERMINATIONS

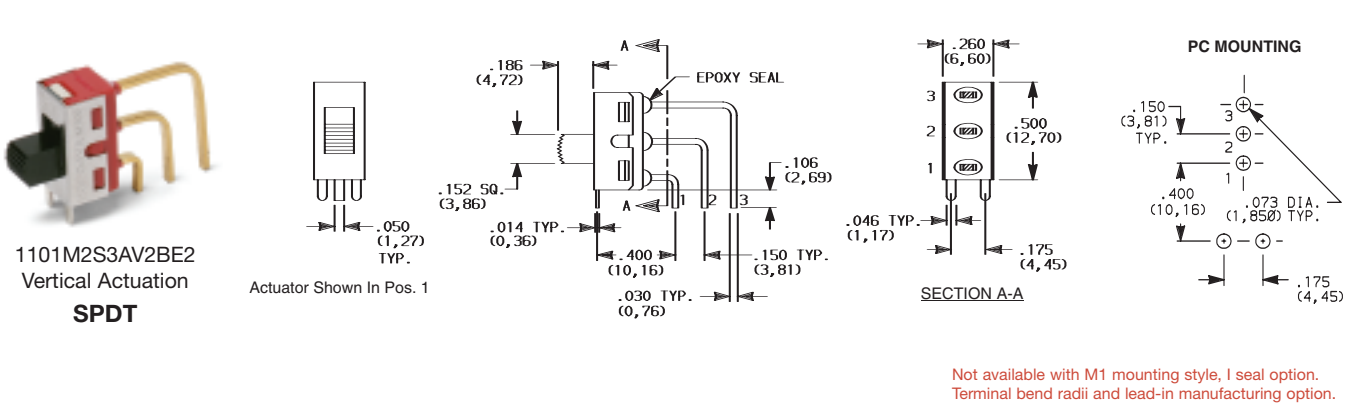
A RIGHT ANGLE, PC THRU-HOLE



A RIGHT ANGLE, PC THRU-HOLE



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



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

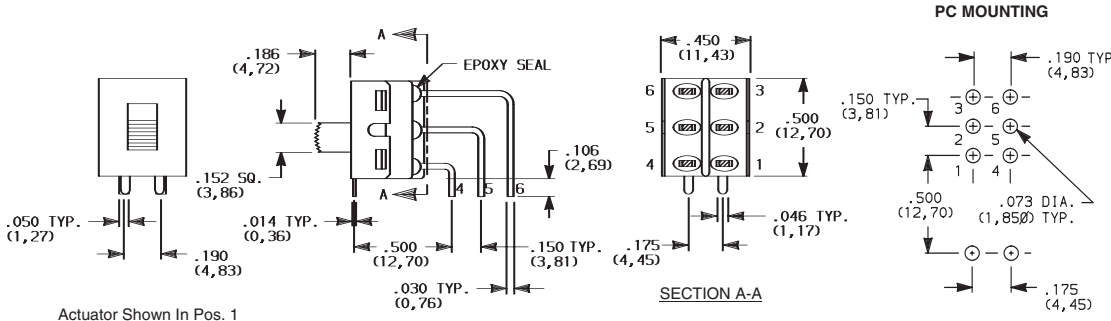


Slide

C&K 1000 Series Miniature Slide Switches

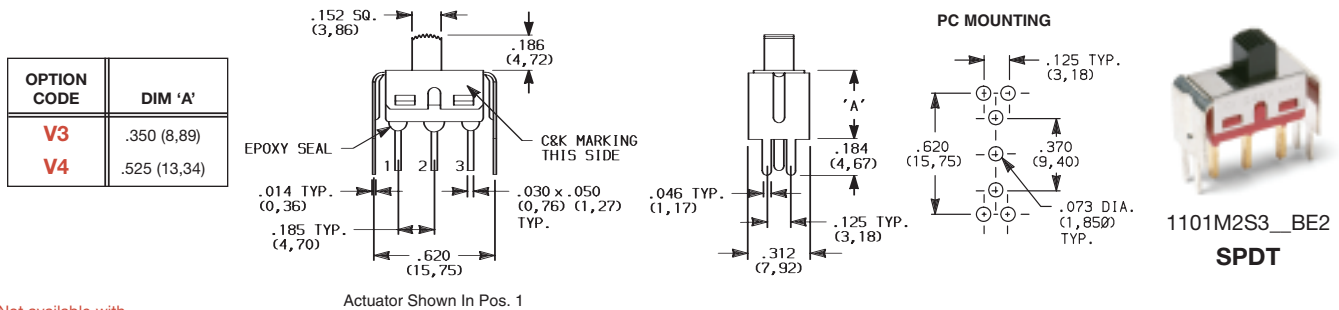
TERMINATIONS

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



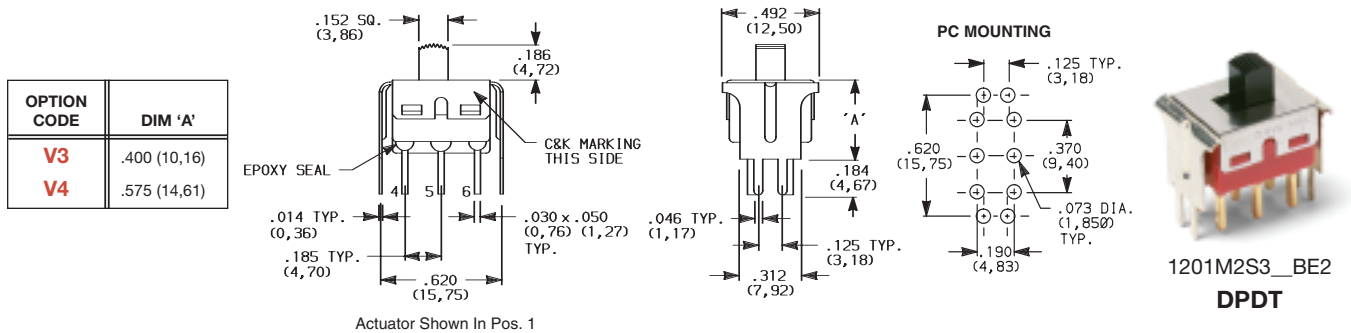
Not available with M1 mounting style, I seal option.
Terminal bend radii and lead-in manufacturing option.

V3, V4 VERTICAL MOUNT,
V-BRACKET



Not available with M1 mounting style and I seal.

V3, V4 VERTICAL MOUNT,
V-BRACKET



Not available with M1 mounting style and I seal.



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

C&K 1000 Series Miniature Slide Switches

CONTACT MATERIAL

| OPTION CODE | RoHS COMPLIANT | RoHS COMPLIANT | CONTACT MATERIAL | TERMINAL PLATING | RATINGS | |
|-------------|----------------|----------------|------------------------------------|------------------------|-----------------------------------|--|
| B | YES | YES | GOLD ¹ | GOLD ³ | LOW LEVEL/ DRY CIRCUIT | 0.4 VA MAX. @ 20 V AC OR DC MAX. |
| K | NO | YES | | TIN-LEAD ⁶ | | |
| P | YES | YES | | MATTE-TIN ⁷ | | |
| Q | YES | YES | SILVER ^{4,5} | GOLD ³ | POWER | 6 AMPS @ 120 V AC OR 28 V DC; 3 AMPS @ 250 V AC. |
| M | NO | YES | | TIN-LEAD ⁶ | | |
| S | YES | YES | | MATTE-TIN ⁷ | | |
| G | YES | YES | GOLD OVER SILVER ^{2,3} | GOLD ³ | LOW LEVEL/DRY CIRCUIT OR POWER | 0.4 VA MAX @ 20 V AC OR DC MAX OR 6 AMPS @ 120 V AC OR 0.4 MAX. 28 V DC; 3 AMPS @ 250 V AC. |
| L | NO | YES | | TIN-LEAD ⁶ | | |
| R | YES | YES | | MATTE-TIN ⁷ | | |

* 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 tin-lead alloy over nickel plate.

⁷ TERMINALS: Copper alloy, with matte-tin over nickel plate.

NOTE: Any models supplied with Q, B, G, P, S or R contact material are RoHS compliant. For the latest information regarding RoHS compliance, please go to: www.ittcannon.com/rohs.

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

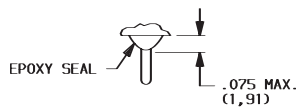
B contact material standard with all terminations except C, Z, Z3.

Q contact material standard with C, Z, Z3 terminations.

K, L, M, P, S or R contact materials not available with Z, Z3 terminations.

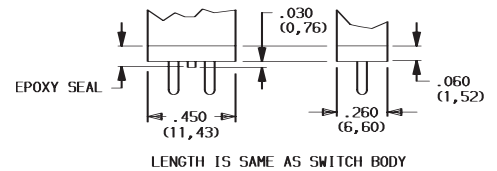
SEAL

E EPOXY SEAL



D NO EPOXY SEAL

I EPOXY POTTED BASE



NOTE: Available with C, W, W3, Z, Z3 terminations only.

AVAILABLE HARDWARE

Fits Z3 Termination
female connector



PART NO.

530100000

Available in loose pieces.



Third Angle
Projection

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