C&K 1000 Series
Miniature Slide Switches

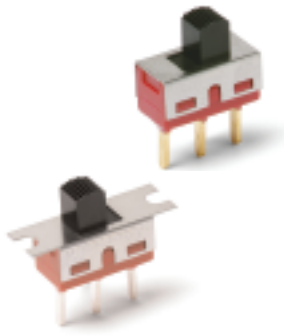
Features/Benefits

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

Models Available

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: 10^9 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.



Switch Function
- **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

Mounting Style
- **M2** PC mount without tabs
- **M1** Panel mount with tabs

Actuator
- **S3** .200" high
- **S1** .040" high
- **S2** .140" high
- **S4** .285" high
- **S5** .370" high
- **S6** .485" high
- **T3** .200" high

Terminations
- **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

Contact Material
- **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

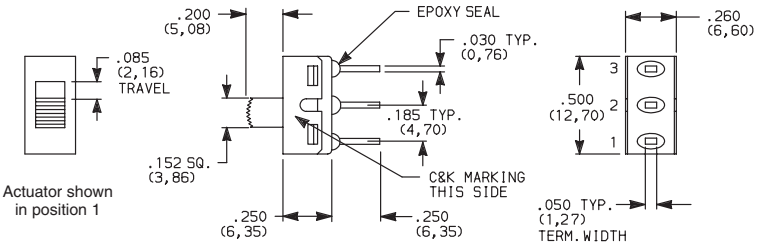
Seal
- **E** Epoxy
- **D** No epoxy seal
- **I** Epoxy potted base

Actuator Color
- **2** Black
- **1** White
- **3** Red
- **7** Blue

SWITCH FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION POS. 1	SWITCH FUNCTION POS. 2	SWITCH FUNCTION POS. 3	CONNECTED TERMINALS POS. 1	CONNECTED TERMINALS POS. 2	CONNECTED TERMINALS POS. 3	SCHEMATIC
SP	1101	ON	NONE	ON	1-2	N/A	2-3	SPDT
	1103	ON	OFF	ON		OPEN		
	1108	MOM.	NONE	ON		N/A		

SPDT

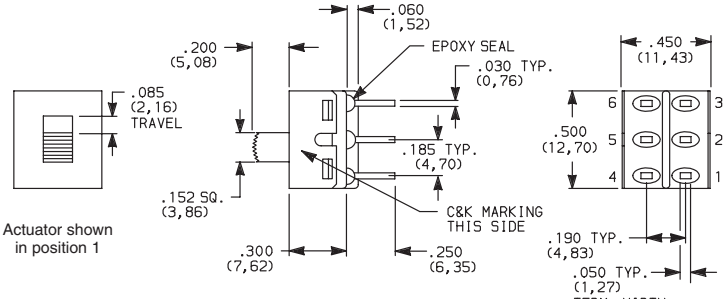


Terminal Nos.
For Reference Only

Part number shown: 1101M2S3CQE2

NO. POLES	MODEL NO.	SWITCH FUNCTION POS. 1	SWITCH FUNCTION POS. 2	SWITCH FUNCTION POS. 3	CONNECTED TERMINALS POS. 1	CONNECTED TERMINALS POS. 2	CONNECTED TERMINALS POS. 3	SCHEMATIC
DP	1201	ON	NONE	ON	2-1,5-4	OPEN	2-3,5-6	DPDT
	1203	ON	OFF	ON				

DPDT



Terminal Nos.
For Reference Only

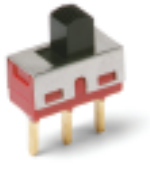
Part number shown: 1201M2S3CQE2

MOM. = Momentary

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

MOUNTING STYLE

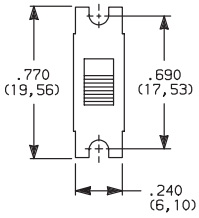
M2 PC MOUNTING WITHOUT TABS



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

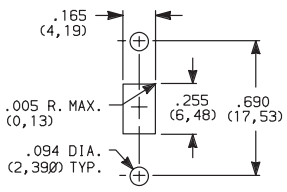
M1 PANEL MOUNTING WITH TABS



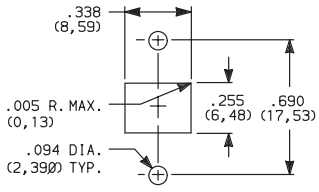


NOTE: Available with C, W, Z, Z3 terminations only.
No mounting hardware supplied.

PANEL MOUNTING



All actuators except T3.
Single pole



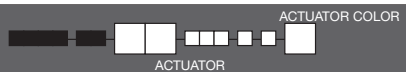
For T3 actuator only.
Double pole

Third Angle Projection

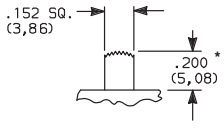
Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

C&K 1000 Series
Miniature Slide Switches

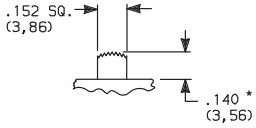
ACTUATOR



S3 .200" HIGH

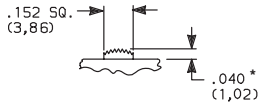


S2 .140" HIGH



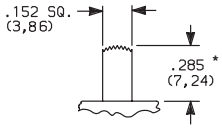
110X models only.

S1 .040" HIGH

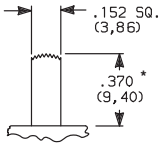


120X models only.

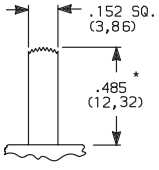
S4 .285" HIGH



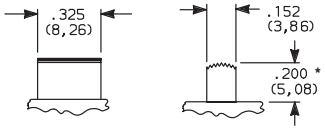
S5 .370" HIGH



S6 .485" HIGH



T3 .200" HIGH



120X models only.

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

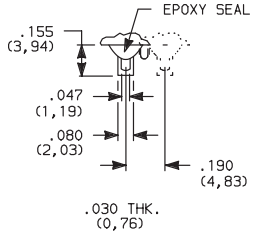
Other colors available,
consult Customer Service Center.

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

TERMINATIONS



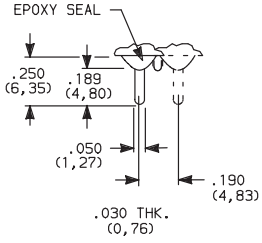
Z SOLDER LUG



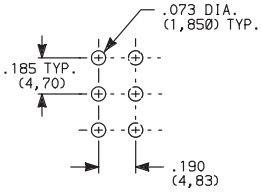
Not available with K, L, M, P, S or R contact materials.

SPDT & DPDT

C PC THRU-HOLE

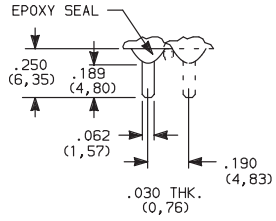


PC MOUNTING



SPDT & DPDT

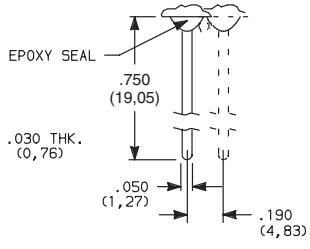
Z3 QUICK CONNECT



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

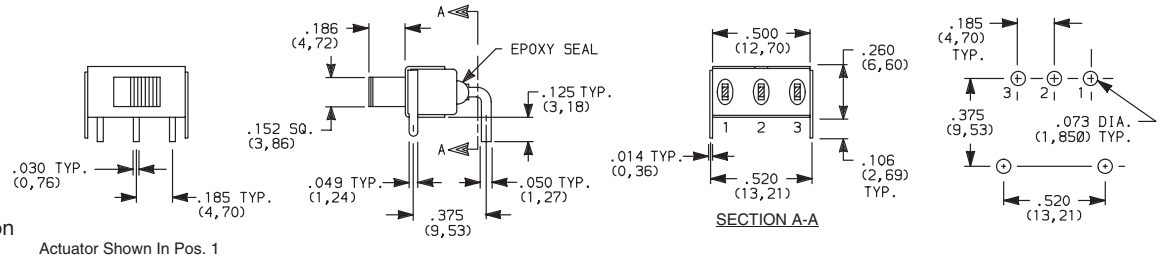
Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

TERMINATIONS

A RIGHT ANGLE, PC THRU-HOLE



1101M2S3ABE2
Horizontal Actuation
SPDT

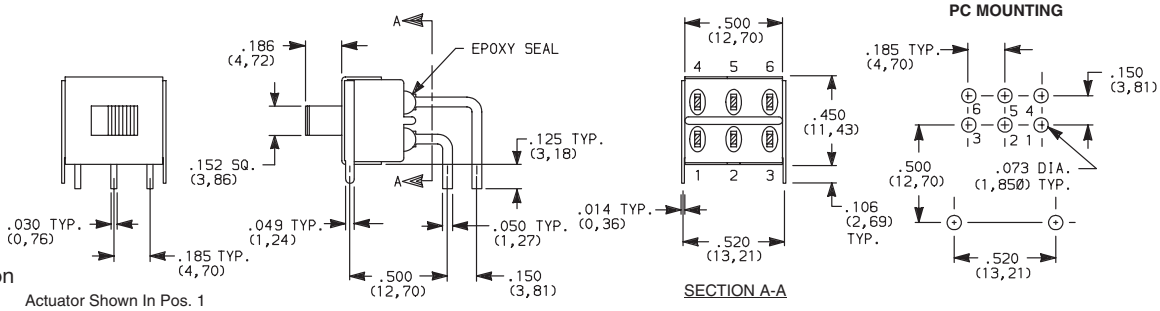


Not available with M1 mounting style, I seal option.
Terminal bend radii and lead-in manufacturing option.

A RIGHT ANGLE, PC THRU-HOLE



1201M2S3ABE2
Horizontal Actuation
DPDT

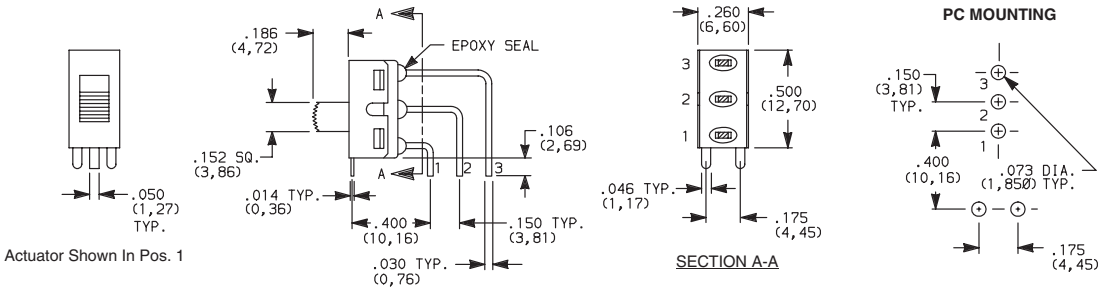


Not available with M1 mounting style, I seal option.
Terminal bend radii and lead-in manufacturing option.

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



1101M2S3AV2BE2
Vertical Actuation
SPDT



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

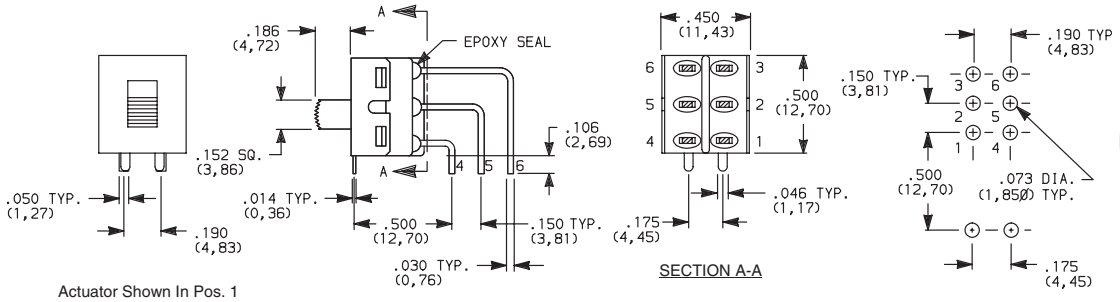
Third Angle Projection

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

TERMINATIONS

AV2

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





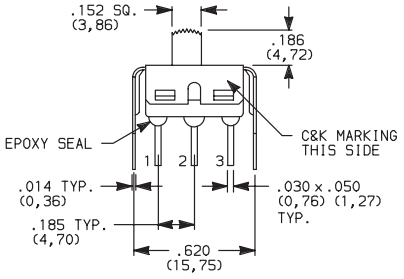
1201M2S3AV2BE2
Vertical Actuation
DPDT

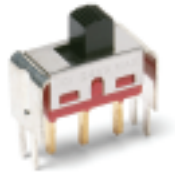
Not available with M1 mounting style, I seal option.
Terminal bend radii and lead-in manufacturing option.

V3, V4

VERTICAL MOUNT,
V-BRACKET

OPTION CODE	DIM 'A'
V3	.350 (8,89)
V4	.525 (13,34)





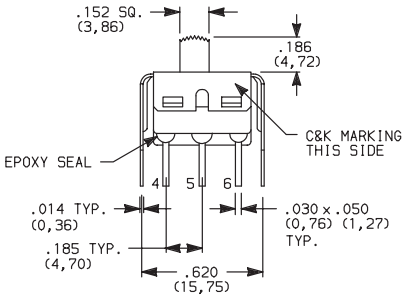
1101M2S3__BE2
SPDT

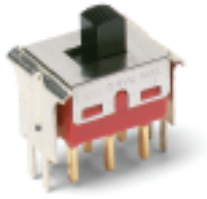
Not available with
M1 mounting style and I seal.

V3, V4

VERTICAL MOUNT,
V-BRACKET

OPTION CODE	DIM 'A'
V3	.400 (10,16)
V4	.575 (14,61)





1201M2S3__BE2
DPDT

Not available with
M1 mounting style and I seal.

Third Angle Projection

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

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.

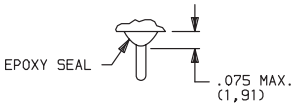
B contact material standard with all terminations except C, Z, Z3..

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

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

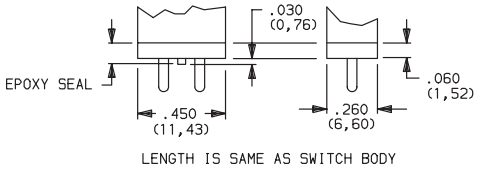
SEAL

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