

# 1000 Series Miniature Slide Switches

## Features/Benefits

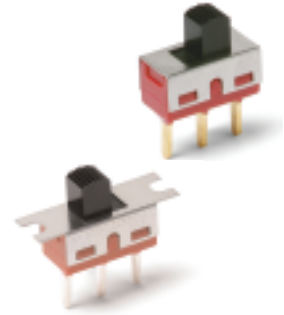
- Variety of actuators and terminations
- Panel mount tabs available
- Epoxy terminal seal—compatible with bottom-wash cleaning
- RoHS compliant



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<sup>9</sup> 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 I-16 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.

**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 I-12 through I-16. 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><b>Switch Function</b></p> <p><b>1101</b> SP On-None-On  <b>1103</b> SP On-Off-On  <b>1108</b> SP Mom-None-On  <b>1201</b> DP On-None-On  <b>1203</b> DP On-Off-On</p> <p><b>Mounting Style</b></p> <p><b>M2</b> PC mount without tabs  <b>M1</b> Panel mount with tabs</p> <p><b>Actuator</b></p> <p><b>S3</b> .200" high  <b>S1</b> .040" high  <b>S2</b> .140" high  <b>S4</b> .285" high  <b>S5</b> .370" high  <b>S6</b> .485" high  <b>T3</b> .200" high</p> <p><b>Terminations</b></p> <p><b>A</b> Right angle, PC thru-hole  <b>C</b> PC Thru-hole  <b>AV2</b> Vertical right angle, PC thru-hole  <b>Z</b> Solder lug  <b>V3</b> V-bracket  <b>V4</b> V-bracket  <b>W</b> .750" long, wire wrap  <b>Z3</b> Quick connect</p>	<p><b>Contact Material</b></p> <p><b>B</b> Gold  <b>Q</b> Silver  <b>G</b> Gold over silver  <b>P</b> Gold, matte-tin  <b>S</b> Silver, matte-tin  <b>R</b> Gold over silver, matte-tin</p> <p><b>Seal</b></p> <p><b>E</b> Epoxy  <b>D</b> No epoxy seal  <b>I</b> Epoxy potted base</p> <p><b>Actuator Color</b></p> <p><b>2</b> Black  <b>1</b> White  <b>3</b> Red</p>
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Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change



# 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><b>SPDT</b></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><b>DPDT</b></p> <p>Part number shown: 1201M2S3CQE2</p> <p>Terminal Nos. For Reference Only</p>								

MOM. = Momentary

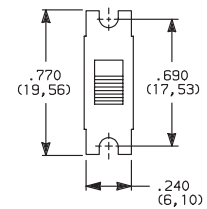
All models with all options when ordered with G, Q, S or R contact material.

## MOUNTING STYLE

**M2** PC MOUNTING WITHOUT TABS



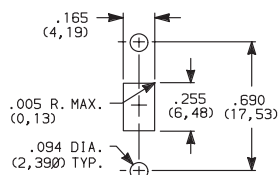
**M1** PANEL MOUNTING WITH TABS



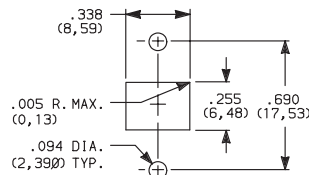
**NOTE:** Available with A, AV2, C, V3, V4, W terminations only.

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

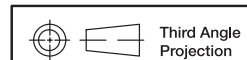
### PANEL MOUNTING



All actuators except T3.  
Single pole



For T3 actuator only.  
Double pole



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

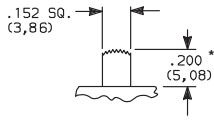


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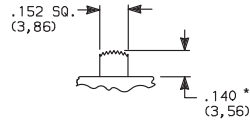
# 1000 Series Miniature Slide Switches

## ACTUATOR

**S3** .200" HIGH

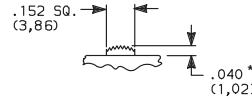


**S2** .140" HIGH



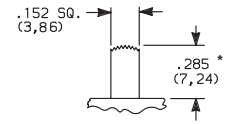
110X models only.

**S1** .040" HIGH

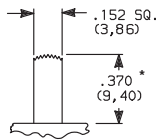


120X models only.

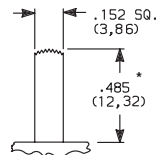
**S4** .285" HIGH



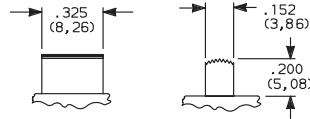
**S5** .370" HIGH



**S6** .485" HIGH



**T3** .200" HIGH



120X models only.

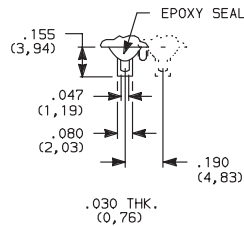
OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED
7	BLUE
9	GRAY

Other colors available, consult Customer Service Center.

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

## TERMINATIONS

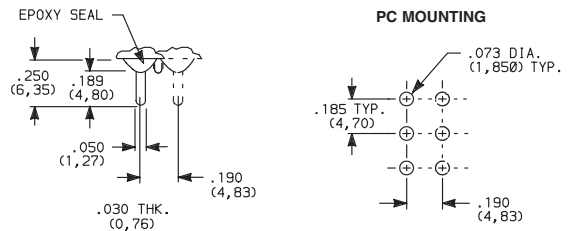
**Z** SOLDER LUG



Not available with P, S or R contact materials.

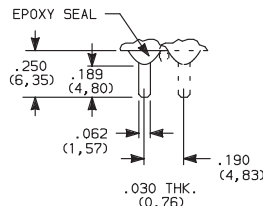
SPDT & DPDT

**C** PC THRU-HOLE



SPDT & DPDT

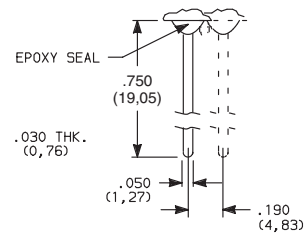
**Z3** QUICK CONNECT



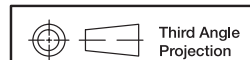
Not available with P, S or R contact materials. Mating quick connector available; order part number 530100000, page I-16.

SPDT & DPDT

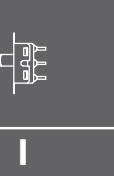
**W** WIRE WRAP



SPDT & DPDT



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



Slide

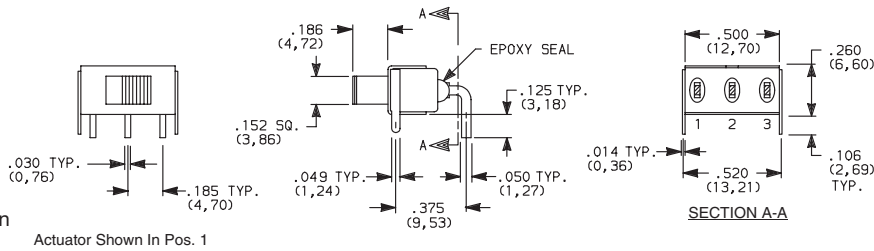
# 1000 Series Miniature Slide Switches

## TERMINATIONS

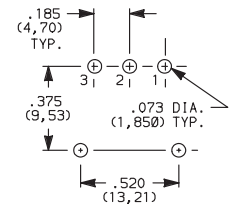
**A** RIGHT ANGLE, PC THRU-HOLE



**1101M2S3ABE2**  
Horizontal Actuation  
**SPDT**



**PC MOUNTING**



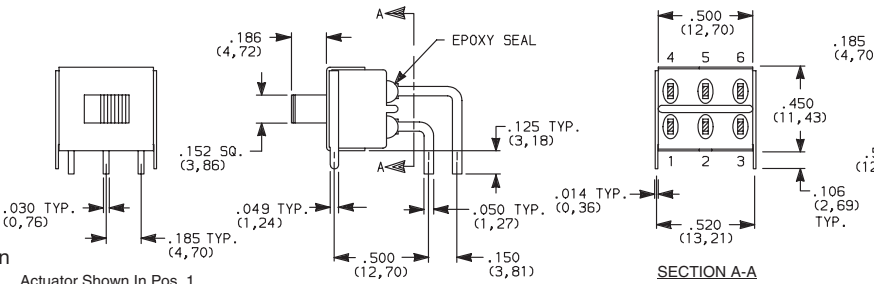
Not available with M1 mounting style, I seal option.  
Terminal bend radii and lead-in manufacturing option.

Slide

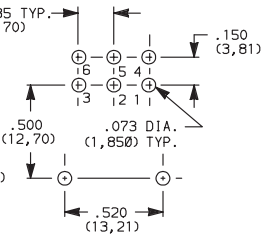
**A** RIGHT ANGLE, PC THRU-HOLE



**1201M2S3ABE2**  
Horizontal Actuation  
**DPDT**



**PC MOUNTING**

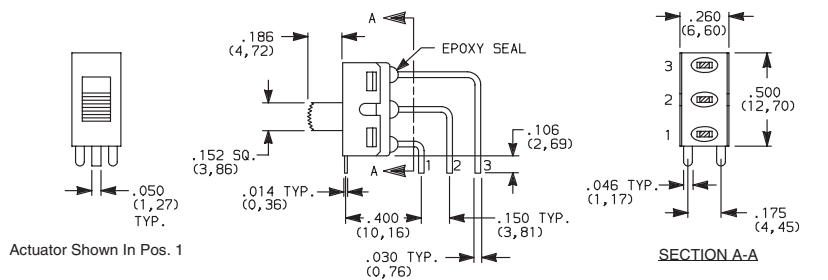


Not available with M1 mounting style, I seal option.  
Terminal bend radii and lead-in manufacturing option.

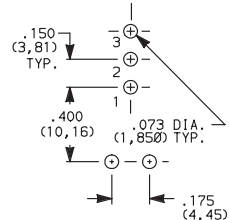
**AV2** VERTICAL RIGHT ANGLE, PC THRU-HOLE,  
.150" PITCH



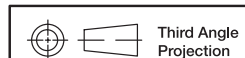
**1101M2S3AV2BE2**  
Vertical Actuation  
**SPDT**



**PC MOUNTING**



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



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

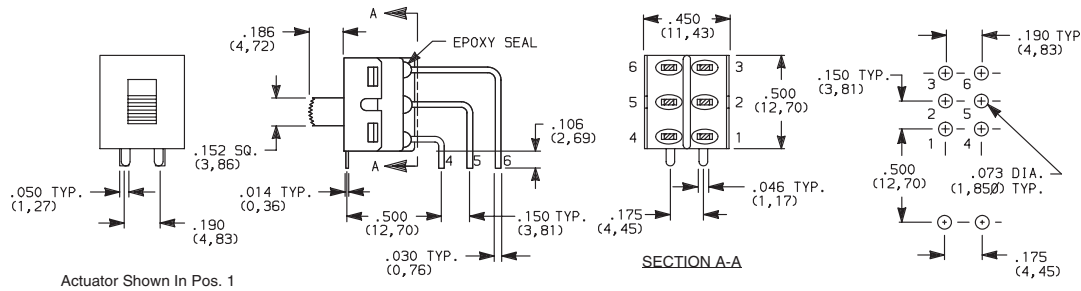


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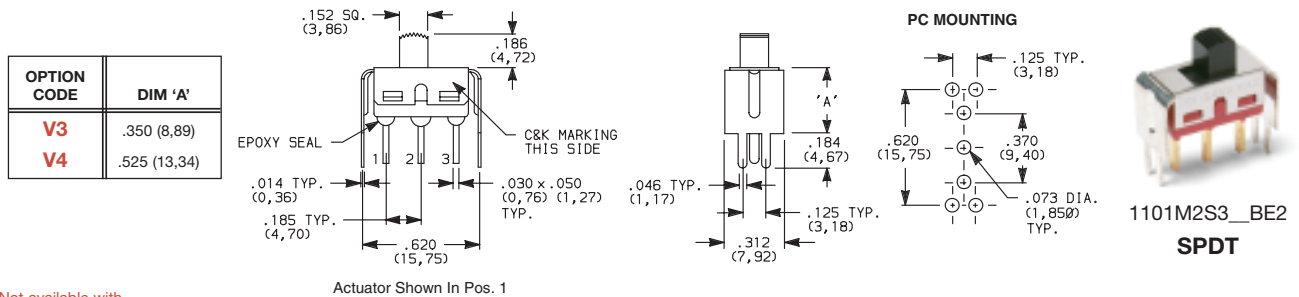
## TERMINATIONS

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



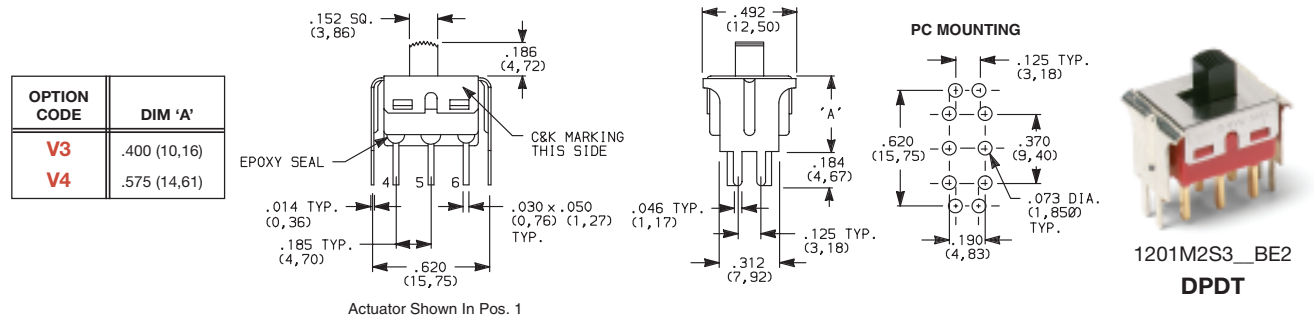
Not available with M1 mounting style, I seal option.  
Terminal bend radii and lead-in manufacturing option.

**V3, V4** VERTICAL MOUNT,  
V-BRACKET



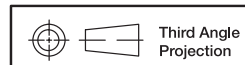
Not available with M1 mounting style and I seal.

**V3, V4** VERTICAL MOUNT,  
V-BRACKET



Not available with M1 mounting style and I seal.

Slide



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

# 1000 Series Miniature Slide Switches

## CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
<b>B</b>	GOLD <sup>1</sup>	GOLD <sup>3</sup>	LOW LEVEL/ DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.
<b>P</b>		MATTE-TIN <sup>6</sup>		
<b>Q</b>	SILVER <sup>4,5</sup>	GOLD <sup>3</sup>	POWER	6 AMPS @ 120 V AC OR 28 V DC; 3 AMPS @ 250 V AC.
<b>S</b>		MATTE-TIN <sup>6</sup>		
<b>G</b>	GOLD OVER SILVER <sup>2,3</sup>	GOLD <sup>3</sup>	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.
<b>R</b>		MATTE-TIN <sup>6</sup>		

\* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

- <sup>1</sup> CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.
- <sup>2</sup> END CONTACTS: Coin silver, with gold plate over nickel plate.
- <sup>3</sup> CENTER CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.
- <sup>4</sup> END CONTACTS: Coin silver, silver plated.
- <sup>5</sup> CENTER CONTACT & ALL TERMINALS: Copper alloy, silver plated.
- <sup>6</sup> TERMINALS: Copper alloy, with matte-tin over nickel plate.

All models   with all options when ordered with G, 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.

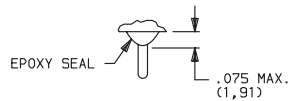
**P, S or R contact materials not available with Z, Z3 terminations.**

**NOTE:** Any models supplied with Q, B, G, P, S or R contact material are RoHS compliant.

Slide

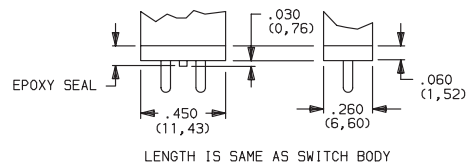
## SEAL

**E** EPOXY SEAL



**D** NO EPOXY SEAL

**I** EPOXY POTTED BASE



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

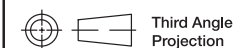
## AVAILABLE HARDWARE

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

**C&K**