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: 10 $^9\,\Omega$ 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-16 for additional contact materials.

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

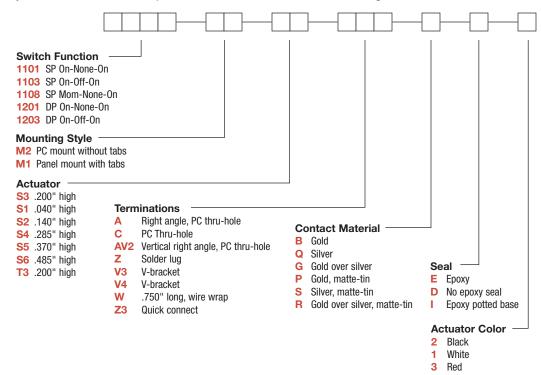
NOTE: Any models supplied with Q, B, G, P, S or R contact material are RoHS compliant.

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 J–12 through J–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.





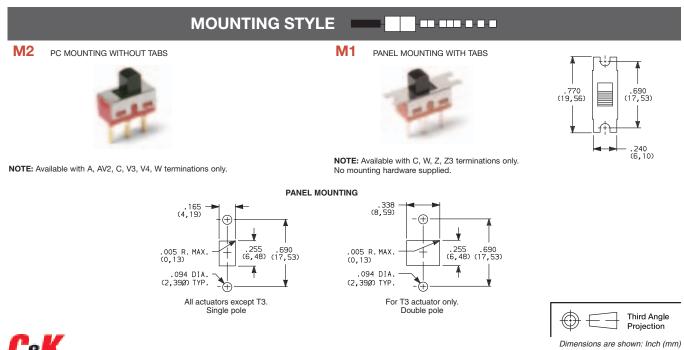
Dimensions are shown: Inch (mm) Specifications and dimensions subject to change



		sw	SWITCH FUNCTION CONNECTED TERMIN		ALS					
		POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3			
NO. POLES	MODEL NO.	-	1	_	-			SCHEMATIC		
	1101	ON	NONE	ON		N/A		A3 (COMM)		
SP	1103	ON	OFF	ON	1-2	OPEN	2-3	2 (COMM) 1 • 3		
	1108	мом.	NONE	ON		N/A		SPDT		
SPDT (5, 08) (5, 08) (7, 76) (8, 60) (12, 70) (13, 86) (14, 70) (15, 86) (16, 86) (17, 70) (17, 70) (17, 70) (17, 70) (18, 86) (19,										
	1201	ON	NONE	ON			For Refe	rence Only		
DP	1201	ON ON	NONE	ON ON	2-1,5-4	OPEN	2-3,5-6	DPDT 1 0 2 (COMM) 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
DPDT										
Part number shown: 1201M2S3CQE2 Terminal Nos. For Reference Only										

MOM. = Momentary

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



.285" HIGH

V

.285 * (7,24)

.152 SQ. (3,86)

TUATOR COLOR

.040 * (1,02)

S3

.200" HIGH



S6 .485" HIGH

S2

.152 SQ.→ (3,86)



ACTUATOR

.140 * (3,56)

.140" HIGH

110X models only.

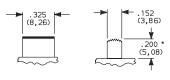
.200" HIGH

S1

.152 SQ.

.040" HIGH

120X models only.

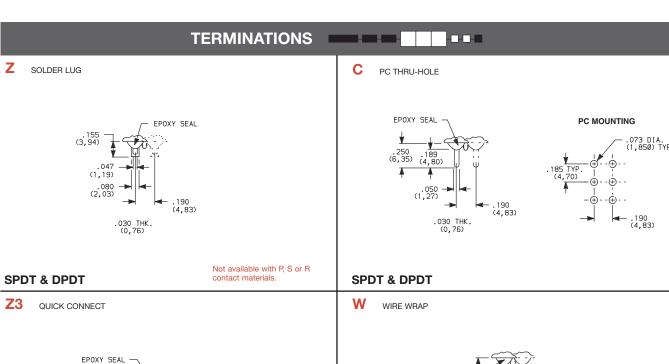


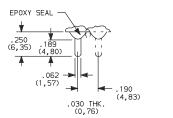
120X models only

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

Other colors available, consult Customer Service Center.

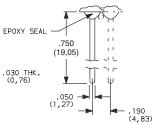
^{*} Subtract .014 (0,36) from actuator height, all models with A, AV2, V3, V4 terminations.





SPDT & DPDT

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



SPDT & DPDT



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



- .520 -**>** (13,21)

Slide

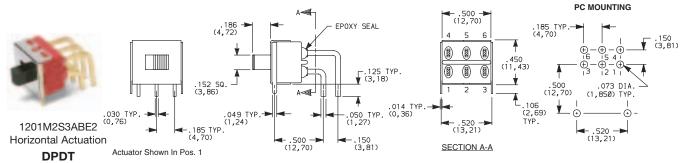
SPDT

-.185 TYP. (4,70) Actuator Shown In Pos. 1

.186 EPOXY SEAL .152 SQ. 1 (3,86) .050 TYP. (1,27) ⊢ .520 − (13,21) .049 TYP (1,24) .375 (9,53) SECTION A-A

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

RIGHT ANGLE, PC THRU-HOLE



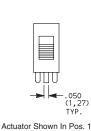
Not available with M1 mounting style, I seal option. Terminal bend radii and lead-in manufacturing option.

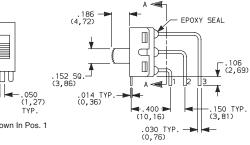
AV2

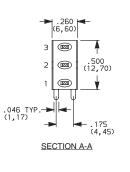
VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH

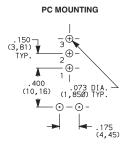


1101M2S3AV2BE2 Vertical Actuation **SPDT**







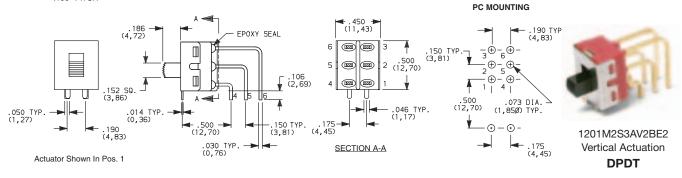


Not available with M1 mounting style, I seal option. Terminal bend radii and lead-in manufacturing option.



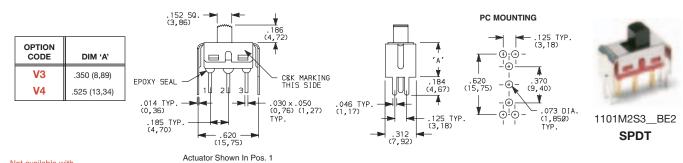
TERMINATIONS

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



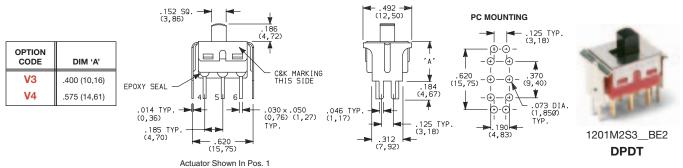
Not available with M1 mounting style, I seal option. Terminal bend radii and lead-in manufacturing option.

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.



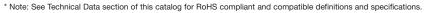
Dimensions are shown: Inch (mm) Specifications and dimensions subject to change



1000 Series Miniature Slide Switches

CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS			
В	GOLD ¹	GOLD ³	LOW LEVEL/			
P	3025	MATTE-TIN ⁶	DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.		
Q	SILVER 4,5	GOLD ³	POWER	6 AMPS @ 120 V AC OR 28 V DC: 3 AMPS @ 250 V AC.		
S		MATTE-TIN ⁶	FOWER	0 AIVIF3 @ 120 V AC ON 20 V BC, 3 AIVIF3 @ 230 V AC.		
G	GOLD OVER SILVER ^{2,3}	GOLD ³	LOW LEVEL/DRY	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.		
R		INIAITE-IIN	Sincon Sitt OWER			



- 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.
- $^{\rm 6}$ 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.

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.

K, L and M options represent Non RoHS tin lead product and are not recommended for new designs. For additional information please contact Customer Service.



AVAILABLE HARDWARE

Fits Z3 Termination female connector



PART NO.

530100000

Available in loose pieces.





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