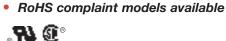
#### Features/Benefits

- Multi-pole and multi-position
- Wide variety of actuator and termination options
- Epoxy terminal-seal compatible with bottom wash cleaning



Models Available

#### Specifications

CONTACT RATING: B contact material: 0.4 VA max. @ 20 V AC or DC max. Q contact material: 5 AMPS @ 120 V AC or 28 V DC; 2 AMPS @ 250 V AC. See page G-16 for additional ratings.

ELECTRICAL LIFE: 7X01 and UX1 models: 100,000 make-and-break cycles at full load. All other models: 40,000 cycles.

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

INSULATION RESISTANCE:  $10^9 \Omega$  min.

DIELECTRIC STRENGTH: 1000 Vrms 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).

#### For materials see page F-4.

 $\ensuremath{\text{NOTE:}}$  Any models supplied with P, S R, Q, B or G contact material are RoHS compliant and compatible.

**NOTE:** Specifications 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 F–4 thru F–16. For additional options not shown in catalog, consult our Customer Service Center.

Typical Applications

Instrumentation

**Telecommunications** 

Medical equipment



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

#### **Materials**

CASE: Glass filled nylon 6/6, flame retardant, heat stabilized, or diallyl phthalate (DAP) (UL 94V-0).

ACTUATOR: Brass, chrome plated.

BUSHING: Brass or zinc, nickel plated.

HOUSING: Stainless steel.

SWITCH SUPPORT: Brass or steel, tin plated.

END CONTACTS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Coin silver, silver plated. See page F-15 for additional contact materials.

CENTER CONTACTS & ALL TERMINALS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See above for additional contact materials.

TERMINAL SEAL: Epoxy.

HARDWARE: Nut & Locking Ring: Brass, nickel plated. Lockwasher: Steel, nickel plated.

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

#### **SWITCH FUNCTION** -----

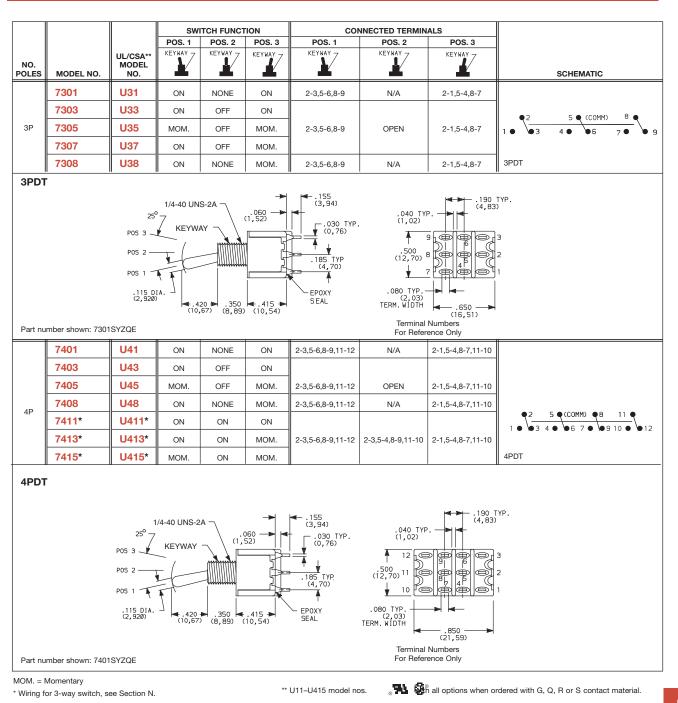
			SWITCH FUNCTION		CONNECTED TERMINALS				
			POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3	-
NO. POLES	MODEL NO.	UL/CSA** MODEL NO.	KEYWAY 7	KEYWAY 7				KEYWAY	SCHEMATIC
SP	7101	U11	ON	NONE	ON	2-3	N/A	2-1	
	7103	U13	ON	OFF	ON				-
	7105	U15	MOM.	OFF	MOM.	2-3	OPEN	2-1	•2 (COMM)
	7107	U17	ON	OFF	MOM.				1 • 3
	7108	U18	ON	NONE	MOM.	2-3	N/A	2-1	
	7109	U19	NONE	ON	MOM.	N/A	2-3	2-1	SPDT
SPDT 1/4-40 UNS-2A 25 <sup>0</sup> KEYWAY P05 3 030 TYP. 0,750									
Part numl	ber shown: 7101SYZB	E	(10,01	->	.350 🔫 8,89)		Terminal Nu For Referen		
	7201	U21	ON	NONE	ON	2-3,5-6	N/A	2-1,5-4	
	1201	021							
	7201	U23	ON	OFF	ON			,	-
				-	ON MOM.	2-3,5-6	OPEN	2-1,5-4	
	7203	U23	ON	OFF		2-3,5-6	OPEN		₹ <u>2 (COMM)</u> 5 €
DP	7203 7205	U23 U25	ON MOM.	OFF	MOM.	2-3,5-6 2-3,5-6	OPEN N/A		$1 \bullet \begin{array}{c} 2 & (COMM) \\ \hline 3 & 4 \\ \hline 4 & 6 \\ \hline 7 \\ 7 \\$
DP	7203 7205 7207	U23 U25 U27	ON MOM. ON	OFF OFF OFF	MOM. MOM.			2-1,5-4	
DP	7203 7205 7207 7208	U23 U25 U27 U28	ON MOM. ON ON	OFF OFF OFF NONE	MOM. MOM. MOM.			2-1,5-4	
	7203 7205 7207 7208 7211 *	U23 U25 U27 U28 U211*	ON MOM. ON ON	OFF OFF OFF NONE ON	MOM. MOM. MOM. ON	2-3,5-6	N/A	2-1,5-4	1 • • 2 (COMM) 5 • 6 1 • • 6
DP DPDT	7203 7205 7207 7208 7211 * 7213*	U23 U25 U27 U28 U211* U213*	ON MOM. ON ON ON ON ON MOM. 1/4-40 UNS KEYWA	OFF OFF OFF NONE ON ON S-2A	MOM. MOM. ON MOM. MOM. MOM.	2-3,5-6 2-3,5-6 2-3,5-6 (3,94) (0,76) 185 TYP (4,70) € € € € 195 SEAL	N/A 2-3,5-4	2-1,5-4 2-1,5-4 2-1,5-4 2-1,5-4 3 (4,83) 3 2 1 1	



Specifications and dimensions subject to change

Third Angle Projection

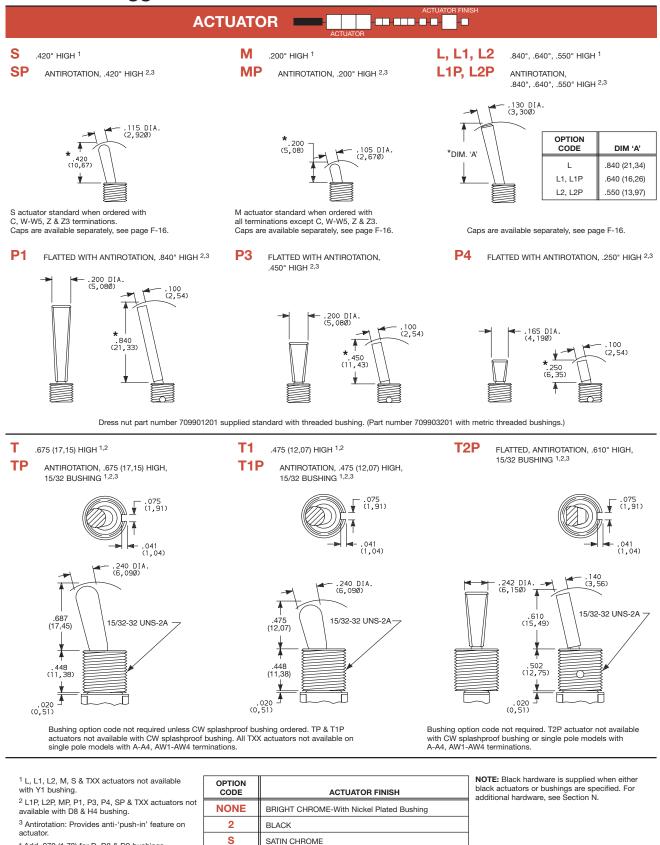
#### SWITCH FUNCTION





Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change



\* Add .070 (1,78) for D, D8 & D9 bushings, subtract .020 (0,51) for H3 bushing.



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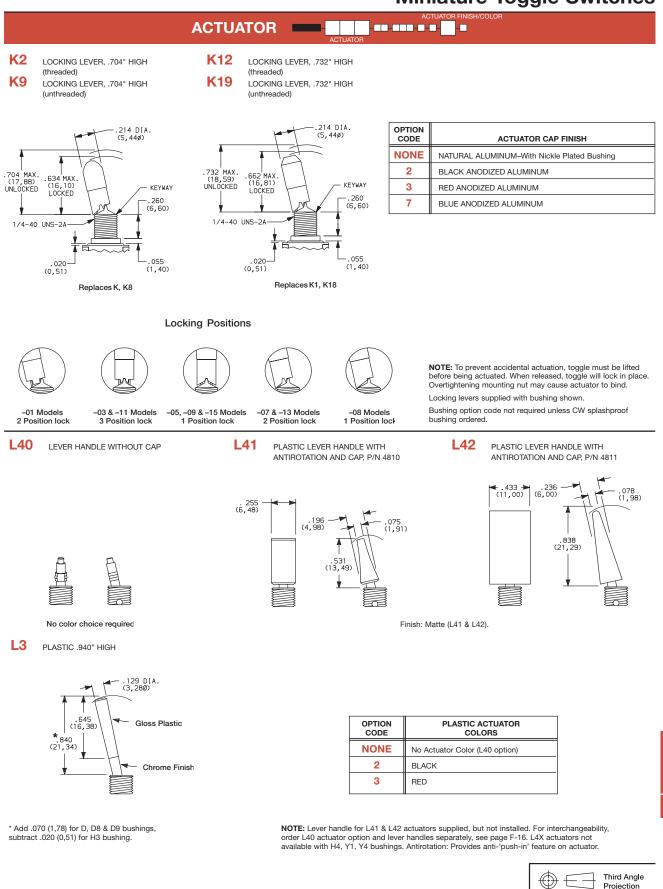
Dimensions are shown: Inches (mm)

Third Angle Projection

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F

**Foggle** 

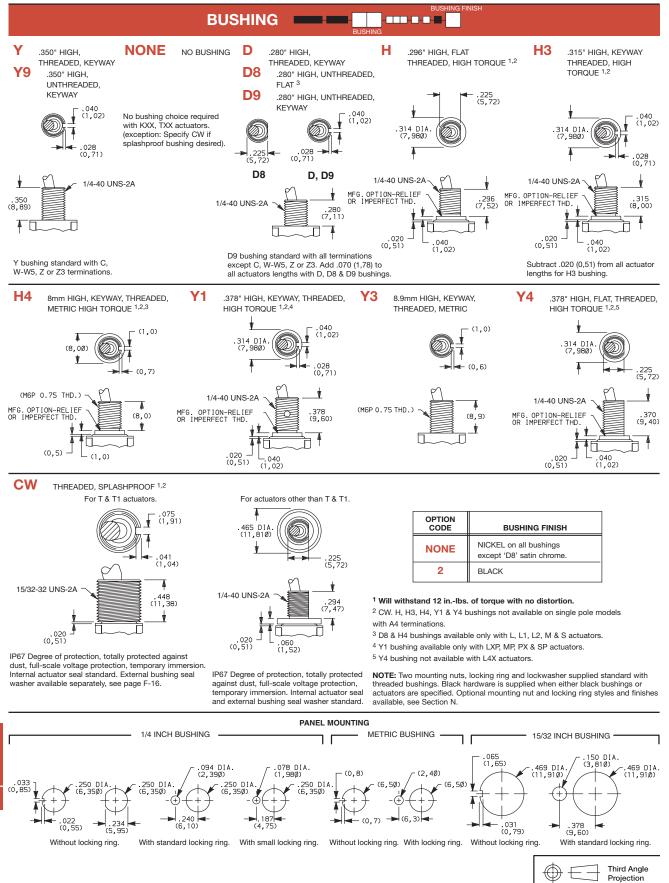




Specifications and dimensions subject to change

Dimensions are shown: Inches (mm)

Toggle



C&K

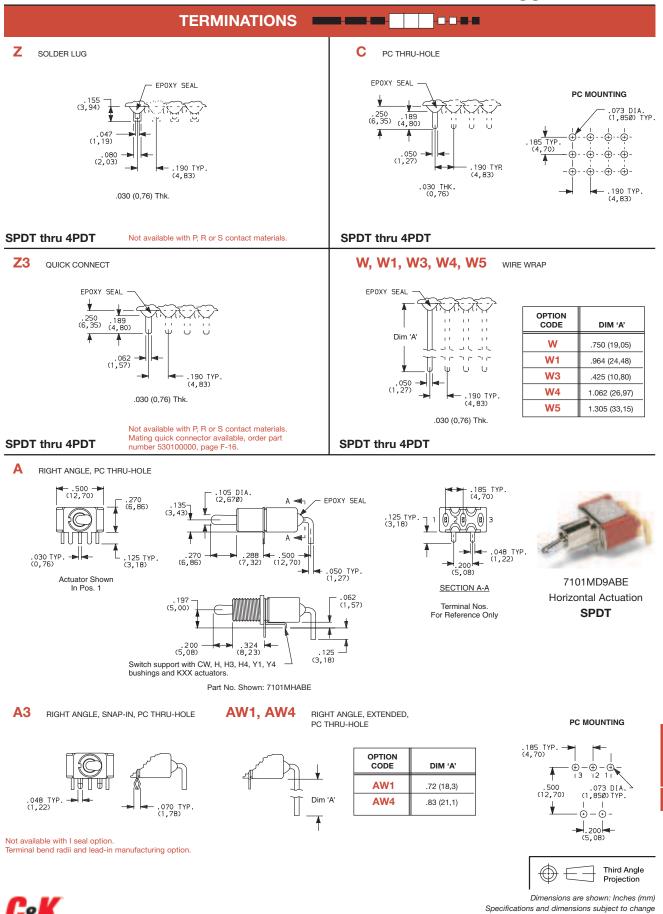
www.ck-components.com

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

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F

oggle



www.ck-components.com

F

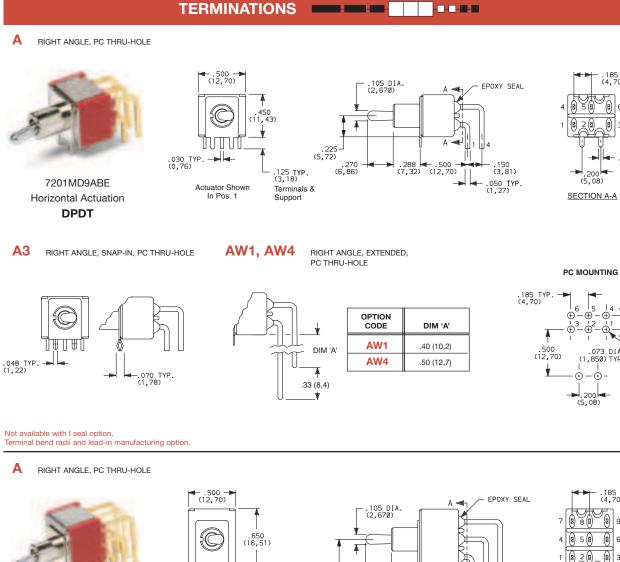
Togg

ē

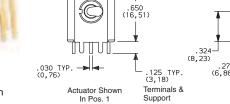
Α

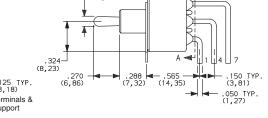
**A3** 

Α



7301MD9ABE Horizontal Actuation 3PDT





.185 TYP. -(4,70)

.565

PC MOUNTING

-<u>-</u>+ -\_⊕

.073 (1,85Ø) DIA DTYP

H.200 ← (5,08)

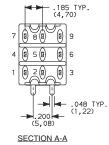
-\_⊕ 7 -@

¥

- .150 TYP. (3,81)

−⊕

Æ



.185 TYP. (4,70)

6

3

.048 TYP. (1,22)

(3,81)

DIA TYP

 $(\cdot)$ 

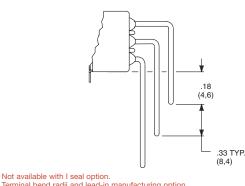
0

0

AW4

RIGHT ANGLE, EXTENDED, PC THRU-HOLE

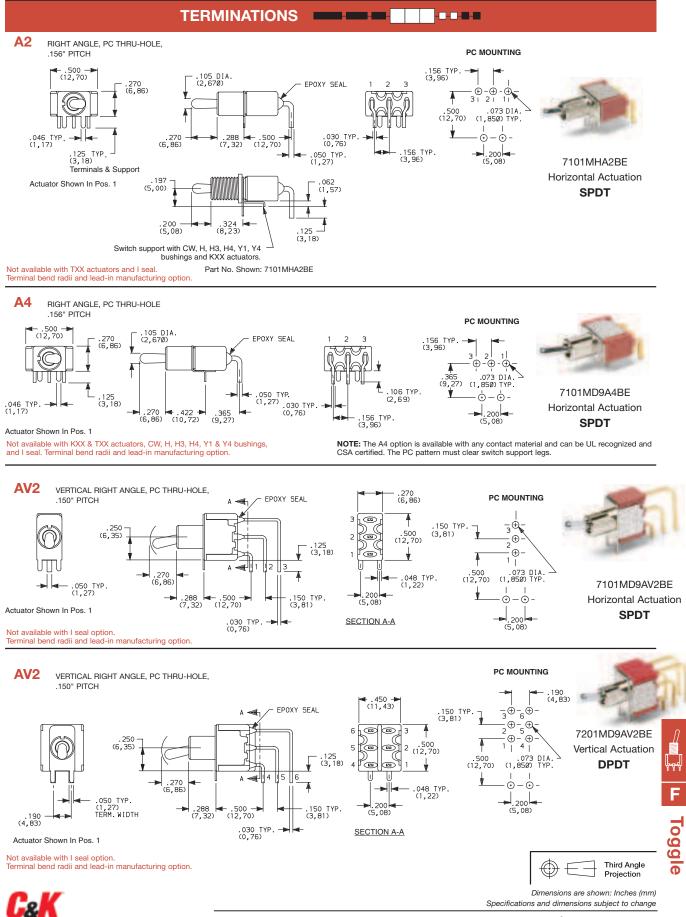
F oggle



Terminal bend radii and lead-in manufacturing option.



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

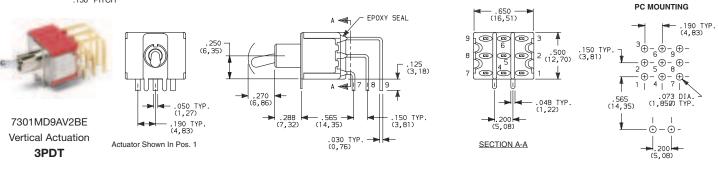


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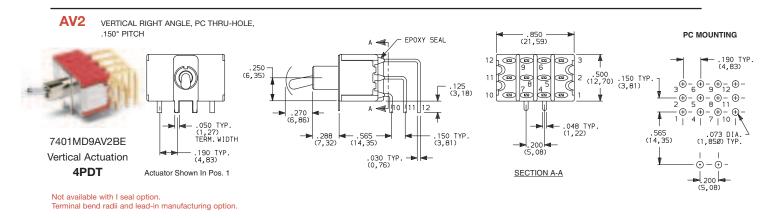
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#### TERMINATIONS





Not available with I seal option. Terminal bend radii and lead-in manufacturing option.



V2, V6, V7, V8 V21, V71, V81

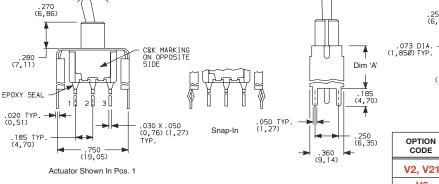
VERTICAL MOUNT, V-BRACKET VERTICAL MOUNT, V-BRACKET, SNAP-IN

V



7101MD9\_\_BE SPDT

Not available with I seal option.



PC MOUNTING

OPTION CODE	DIM 'A'
V2, V21	.555 (14,10)
<b>V</b> 6	.460 (11,68)
V7, V71	.630 (16,00)
V8, V81	.953 (24,21)

Third Angle Projection

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

F electrical electricae electrica



#### TERMINATIONS

.250 TYP. (6,35)

.750

.190 (4,83)

OPTION CODE

V2, V21

V6, V61

V7, V71

V8, V81

.073 DIA. (1,85Ø) TYP. PC MOUNTING

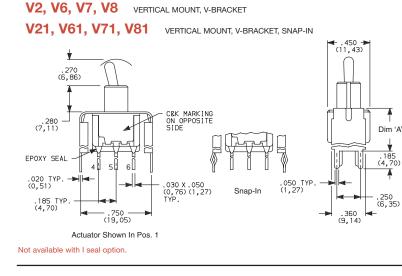
DIM 'A'

.555 (14,10)

.460 (11,68)

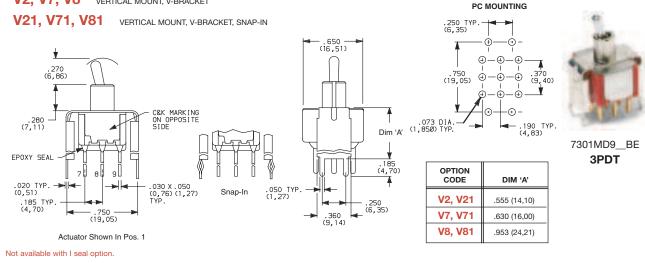
.630 (16,00)

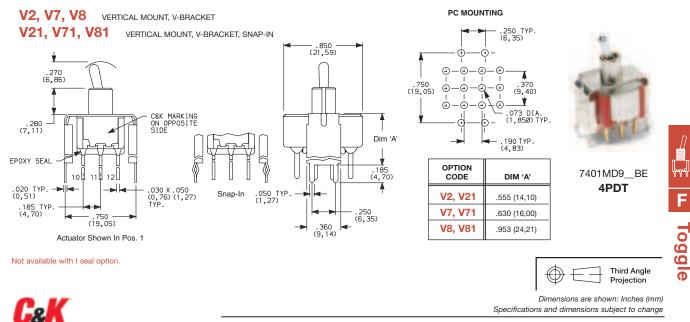
.953 (24,21)



7201MD9\_BE DPDT

V2, V7, V8 VERTICAL MOUNT, V-BRACKET

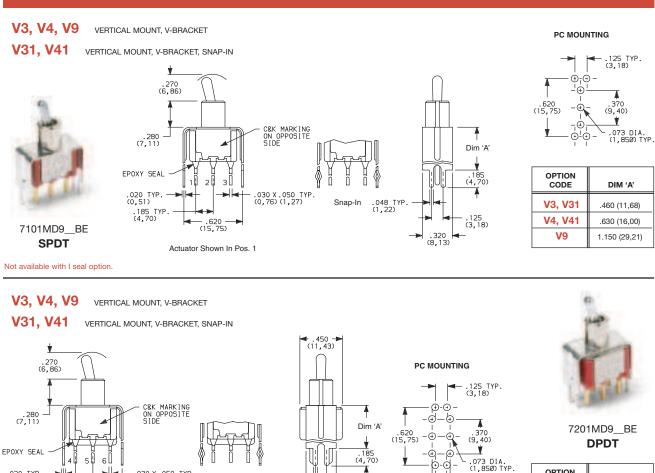




Downloaded from Datasheet.su

.030 X.050 TYP. (0,76)(1,27)

#### TERMINATIONS



4

.125 (3,18)

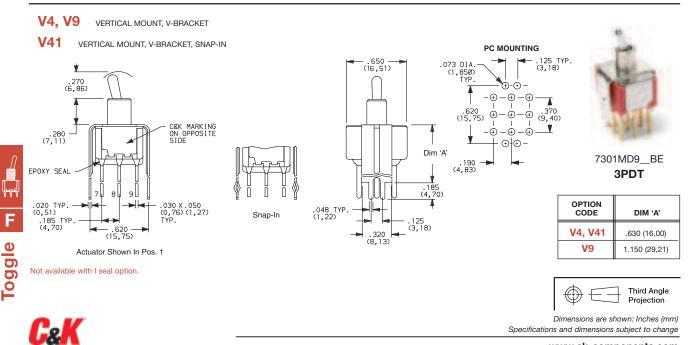
.320 (8,13)

.190

.048 TYP (1,22)

Snap-In





.020 TYP. (0,51)

.185 TYP (4,70)

Not available with I seal option.

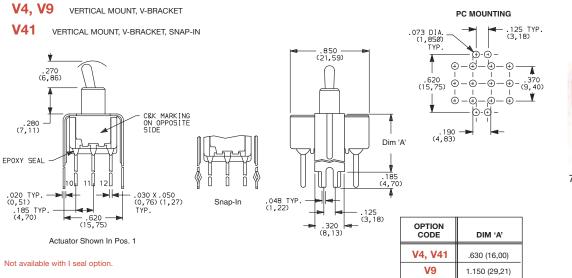
- .620 -(15,75)

Actuator Shown In Pos. 1

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#### TERMINATIONS







7401MD9\_\_BE 4PDT

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS		
В	GOLD <sup>1</sup>	GOLD 1	LOW LEVEL/		
Р	GOLD .		DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.	
Q	0111/50.4.5	SILVER 5	DOWED		
S	SILVER <sup>4,5</sup>	MATTE-TIN <sup>6</sup>	POWER	5 AMPS @ 120 V AC OR 28 V DC; 2 AMPS @ 250 V AC.	
G	GOLD OVER	GOLD <sup>3</sup>	LOW LEVEL/DRY	0.4 VA MAX @ 20 V AC OR DC MAX. OR 5 AMPS @ 120 V AC	
R	SILVER 2,3	MATTE-TIN <sup>6</sup>	CIRCUIT OR POWER	OR 28 V DC; 2 AMPS @ 250 V AC.	

\* 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 alloy nickel plate.

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

U11-U415 model numbers  $_{_{\odot}}$   ${}^{\textcircled{}}_{\bullet}$   ${}^{\textcircled{}}_{\bullet}$  with all options when ordered with G,

S, R, or Q contact material.

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

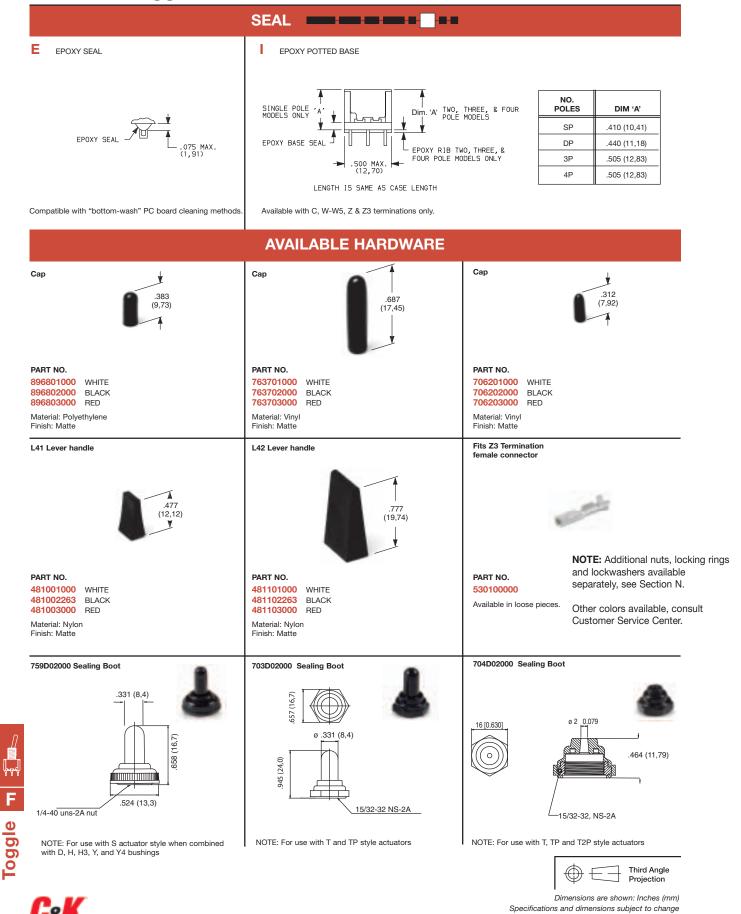
Q contact material standard with C, Z & Z3 terminations.

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



Specifications and dimensions subject to change





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