

7000 Series Miniature Toggle Switches

Features/Benefits

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

Typical Applications

- Telecommunications
- Instrumentation
- Medical equipment



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 F-15 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 Ω typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 10⁹ Ω 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.

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.

Switch Function		Actuator		Bushing		Contact Material		Seal		Actuator Color/Finish		KXX Actuator Color/Finish		Bushing Finish	
7101	SP On-None-On	M	.200" high	D	.280 high, keyway	B	Gold	E	Epoxy	NONE	Bright chrome	NONE	Natural aluminum	NONE	Nickel on all bushings (except D8, satin chrome)
7103	SP On-Off-On	P3	Flatted, anti-rotation, .450" high	H	.296 high, flat	P	Gold, matte-tin	I	Epoxy potted base	2	Black	2	Black anodized aluminum	2	Black
7105	SP Mom.-Off-Mom.	S	.420" high	Y	.350 high, keyway	Q	Silver			3	Red	3	Red anodized aluminum		
7107	SP On-Off-Mom.	T	.687" high, 15/32 bushing	NONE	No bushing choice required	S	Silver, matte-tin			S	Satin chrome	7	Blue anodized aluminum		
7108	SP On-None-Mom.	K2	Locking lever, .704" high	CW	Splashproof	G	Gold over silver								
7109	SP None-On-Mom.	K9	Locking lever, .704" high	D8	.280" high, flat	R	Gold over silver, matte-tin								
7201	DP On-None-On	K12	Locking lever, .732" high	D9	.280" high, keyway										
7203	DP On-Off-On	K19	Locking lever, .732" high	H3	.315" high, keyway										
7205	DP Mom.-Off-Mom.	L	.840" high	H4	8mm high, keyway										
7207	DP On-Off-Mom.	L1	.640" high	Y1	.378" high, keyway										
7208	DP On-None-Mom.	L1P	Anti-rotation, .640" high	Y3	8.9mm high, keyway										
7211	DP On-On-On	L2	.550" high	Y4	.378" high, flat										
7213	DP On-On-Mom.	L2P	Anti-rotation, .550" high	Y9	.350" high, keyway										
7215	DP Mom.-On-Mom.	L3	Plastic .940" inch												
7301	3P On-None-On	L40	Lever handle without cap												
7303	3P On-Off-On	L41	.531" high lever handle with cap												
7305	3P Mom.-Off-Mom.	L42	.838" high lever handle with cap												
7308	3P On-None-Mom.	MP	Anti-rotation, .200" high												
7401	4P On-None-On	P1	Flatted, anti-rotation, .840" high												
7403	4P On-Off-On	P4	Flatted, anti-rotation, .250" high												
7405	4P Mom.-Off-Mom.	SP	Anti-rotation, .420" high												
7408	4P On-None-Mom.	T1	.487" high, 15/32 bushing												
7411	4P On-On-On	T1P	Anti-rotation, .487" high, 15/32 bushing												
7413	4P On-On-Mom.	T2P	Flatted, anti-rotation, .610" high, 15/32 bushing												
7415	4P Mom.-On-Mom.	TP	Anti-rotation, .687" high, 15/32 bushing												

Note: UL models available, see pages F-4 & F-5.



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



7000 Series

Miniature Toggle Switches

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.

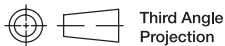
SWITCH FUNCTION										
NO. POLES	MODEL NO.	UL** MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC	
			POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3		
			KEYWAY	KEYWAY	KEYWAY	KEYWAY	KEYWAY	KEYWAY		
SP	7101	U11	ON	NONE	ON	2-3	N/A	2-1		
	7103	U13	ON	OFF	ON	2-3	OPEN	2-1		
	7105	U15	MOM.	OFF	MOM.					
	7107	U17	ON	OFF	MOM.	2-3	N/A	2-1		
	7108	U18	ON	NONE	MOM.					
	7109	U19	NONE	ON	MOM.	N/A	2-3	2-1		
SPDT										
SPDT Part number shown: 7101SYZBE										
DP	7201	U21	ON	NONE	ON	2-3,5-6	N/A	2-1,5-4		
	7203	U23	ON	OFF	ON	2-3,5-6	OPEN	2-1,5-4		
	7205	U25	MOM.	OFF	MOM.					
	7207	U27	ON	OFF	MOM.	2-3,5-6	N/A	2-1,5-4		
	7208	U28	ON	NONE	MOM.					
	7211 *	U211*	ON	ON	ON	2-3,5-6	2-3,5-4	2-1,5-4		
	7213*	U213*	ON	ON	MOM.					
	7215*	U215*	MOM.	ON	MOM.					
DPDT										
DPDT Part number shown: 7201SYZQE										

MOM. = Momentary

** U11-U415 model nos.

* Wiring for 3-way switch, see Section N.

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



Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

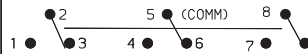


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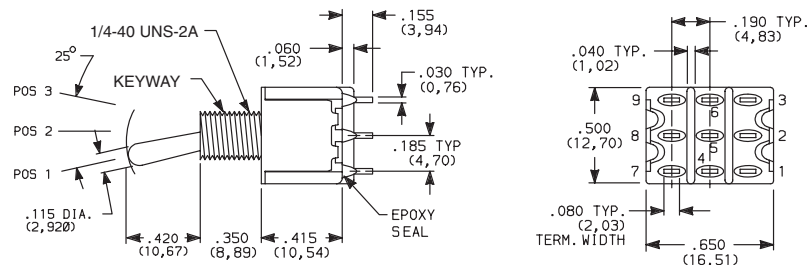


7000 Series Miniature Toggle Switches

SWITCH FUNCTION

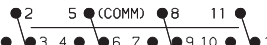
NO. POLES	MODEL NO.	UL** MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC
			POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3	
			KEYWAY 	KEYWAY 	KEYWAY 	KEYWAY 	KEYWAY 	KEYWAY 	
3P	7301	U31	ON	NONE	ON	2-3,5-6,8-9	N/A	2-1,5-4,8-7	
	7303	U33	ON	OFF	ON	2-3,5-6,8-9	OPEN	2-1,5-4,8-7	
	7305	U35	MOM.	OFF	MOM.				
	7307	U37	ON	OFF	MOM.				
	7308	U38	ON	NONE	MOM.				

3PDT

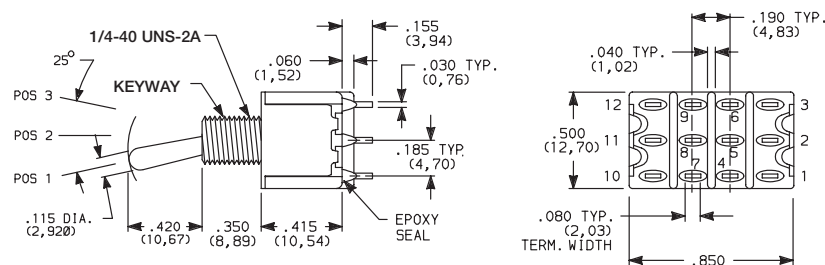


Part number shown: 7301SYZQE

Terminal Numbers
For Reference Only

4P	7401	U41	ON	NONE	ON	2-3,5-6,8-9,11-12	N/A	2-1,5-4,8-7,11-10	
	7403	U43	ON	OFF	ON				
	7405	U45	MOM.	OFF	MOM.	2-3,5-6,8-9,11-12	OPEN	2-1,5-4,8-7,11-10	
	7408	U48	ON	NONE	MOM.	2-3,5-6,8-9,11-12	N/A	2-1,5-4,8-7,11-10	
	7411*	U411*	ON	ON	ON				
	7413*	U413*	ON	ON	MOM.	2-3,5-6,8-9,11-12	2-3,5-4,8-9,11-10	2-1,5-4,8-7,11-10	
	7415*	U415*	MOM.	ON	MOM.				

4PDT



Part number shown: 7401SYZQE

Terminal Numbers
For Reference Only

MOM. = Momentary

Wiring for 3-way switch, see Section N.

** U11-U415 model nos. with all options when ordered with G, Q, R or S contact material.

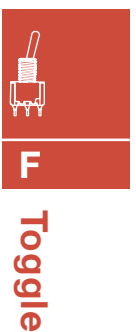
C&K



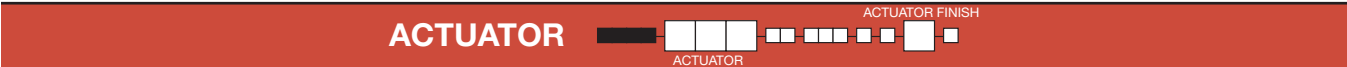
Third Angle
Projection

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

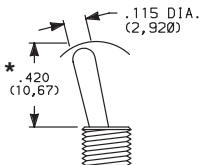
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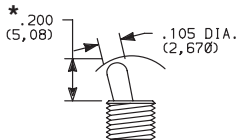


S .420" HIGH ¹
SP ANTIROTATION, .420" HIGH ^{2,3}



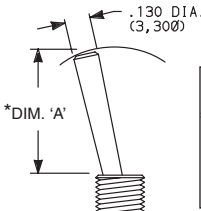
S actuator standard when ordered with C, W-W5, Z & Z3 terminations. Caps are available separately, see page F-16.

M .200" HIGH ¹
MP ANTIROTATION, .200" HIGH ^{2,3}



M actuator standard when ordered with all terminations except C, W-W5, Z & Z3. Caps are available separately, see page F-16.

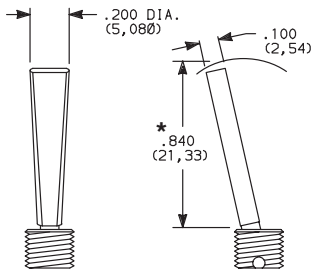
L, L1, L2 .840", .640", .550" HIGH ¹
L1P, L2P ANTIROTATION, .840", .640", .550" HIGH ^{2,3}



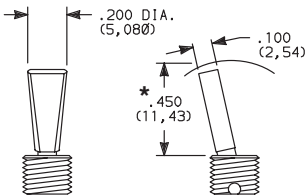
OPTION CODE	DIM 'A'
L	.840 (21,34)
L1, L1P	.640 (16,26)
L2, L2P	.550 (13,97)

Caps are available separately, see page F-16.

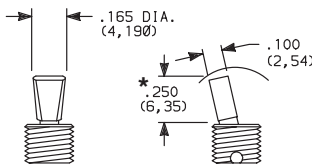
***P1** FLATTED WITH ANTIROTATION, .840" HIGH ^{2,3}



***P3** FLATTED WITH ANTIROTATION, .450" HIGH ^{2,3}

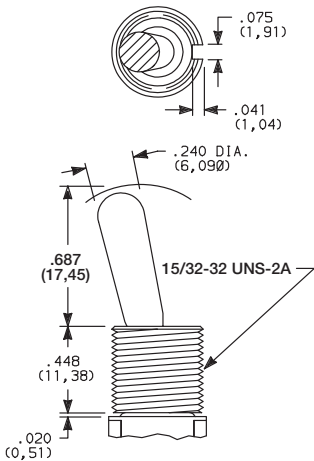


***P4** FLATTED WITH ANTIROTATION, .250" HIGH ^{2,3}

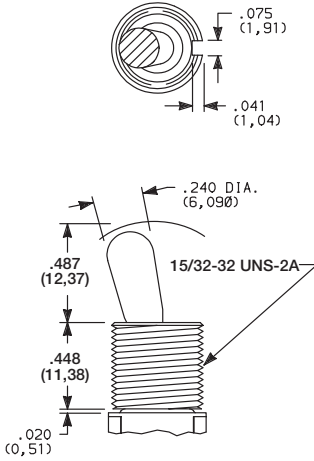


*Dress nut part number 709901201 supplied standard with threaded bushing. (Part number 709903201 with metric threaded bushings.)

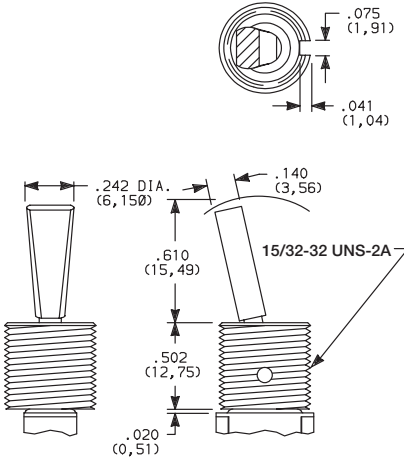
T .687 (17,45) HIGH ^{1,2}
TP ANTIROTATION, .687 (17,45) HIGH, 15/32 BUSHING ^{1,2,3}



T1 .487 (12,37) HIGH ^{1,2}
T1P ANTIROTATION, .487 (12,37) HIGH, 15/32 BUSHING ^{1,2,3}



T2P FLATTED, ANTIROTATION, .610" HIGH, 15/32 BUSHING ^{1,2,3}



Bushing option code not required unless CW splashproof bushing ordered. TP & T1P actuators not available with CW splashproof bushing. All TXX actuators not available on single pole models with A-A4, AW1-AW4 terminations.

Bushing option code not required. T2P actuator not available with CW splashproof bushing or single pole models with A-A4, AW1-AW4 terminations.

¹ L, L1, L2, M, S & TXX actuators not available with Y1 bushing.
² L1P, L2P, MP, P1, P3, P4, SP & TXX actuators not available with D8 & H4 bushing.
³ Antirotation: Provides anti-'push-in' feature on actuator.
* Add .070 (1,78) for D, D8 & D9 bushings, subtract .020 (0,51) for H3 bushing.

OPTION CODE	ACTUATOR FINISH
NONE	BRIGHT CHROME-With Nickel Plated Bushing
2	BLACK
S	SATIN CHROME

NOTE: Black hardware is supplied when either black actuators or bushings are specified. For additional hardware, see Section N.



Third Angle Projection

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

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Toggle

F



7000 Series Miniature Toggle Switches

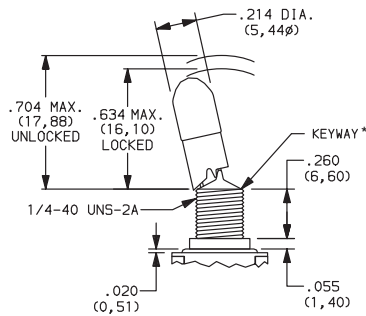
ACTUATOR

ACTUATOR FINISH/COLOR

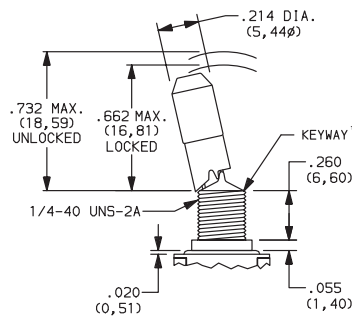
ACTUATOR

- K2** LOCKING LEVER, .704" HIGH
(threaded)
K9 LOCKING LEVER, .704" HIGH
(unthreaded)

- K12** LOCKING LEVER, .732" HIGH
(threaded)
K19 LOCKING LEVER, .732" HIGH
(unthreaded)



Replaces K, K8



Replaces K1, K18

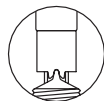
OPTION CODE	ACTUATOR CAP FINISH
NONE	NATURAL ALUMINUM-With Nickle Plated Bushing
2	BLACK ANODIZED ALUMINUM
3	RED ANODIZED ALUMINUM
7	BLUE ANODIZED ALUMINUM

* All KXX models including KXXCW have a keyway

Locking Positions



-01 Models
2 Position lock



-03 & -11 Models
3 Position lock



-05, -09 & -15 Models
1 Position lock



-07 & -13 Models
2 Position lock



-08 Models
1 Position lock

NOTE: To prevent accidental actuation, toggle must be lifted before being actuated. When released, toggle will lock in place. Overtightening mounting nut may cause actuator to bind.

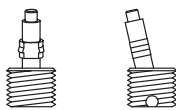
Locking levers supplied with bushing shown.

Bushing option code not required unless CW splashproof bushing ordered.

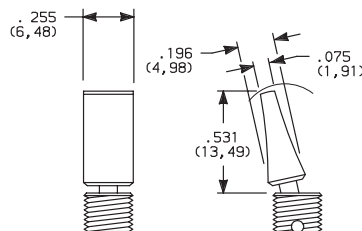
- L40** LEVER HANDLE WITHOUT CAP

- L41** PLASTIC LEVER HANDLE WITH
ANTIROTATION AND CAP, P/N 4810

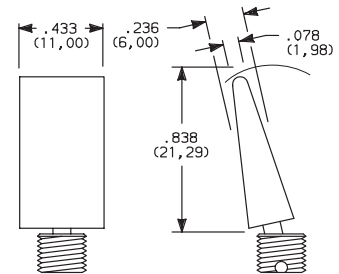
- L42** PLASTIC LEVER HANDLE WITH
ANTIROTATION AND CAP, P/N 4811



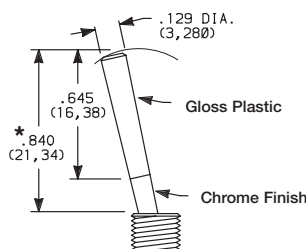
No color choice required



Finish: Matte (L41 & L42).



- L3** PLASTIC .940" HIGH



OPTION CODE	PLASTIC ACTUATOR COLORS
NONE	No Actuator Color (L40 option)
2	BLACK
3	RED

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

NOTE: Lever handle for L41 & L42 actuators supplied, but not installed. For interchangeability, order L40 actuator option and lever handles separately, see page F-16. L4X actuators not available with H4, Y1, Y4 bushings. Antirotation: Provides anti-'push-in' feature on actuator.



Third Angle
Projection

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

C&K



Toggle

7000 Series Miniature Toggle Switches

BUSHING

BUSHING FINISH

BUSHING

Y .350" HIGH, THREADED, KEYWAY
Y9 .350" HIGH, UNTHREADED, KEYWAY

NONE NO BUSHING

D .280" HIGH, THREADED, KEYWAY
D8 .280" HIGH, UNTHREADED, FLAT³
D9 .280" HIGH, UNTHREADED, KEYWAY

H .296" HIGH, FLAT THREADED, HIGH TORQUE 1,2

H3 .315" HIGH, KEYWAY THREADED, HIGH TORQUE 1,2

No bushing choice required with KXX, TXX actuators. (exception: Specify CW if splashproof bushing desired).

D9 bushing standard with all terminations except C, W-W5, Z or Z3. Add .070 (1,78) to all actuators lengths with D, D8 & D9 bushings.

Y bushing standard with C, W-W5, Z or Z3 terminations.

Subtract .020 (0,51) from all actuator lengths for H3 bushing.

H4 8mm HIGH, KEYWAY, THREADED, METRIC HIGH TORQUE 1,2,3

Y1 .378" HIGH, KEYWAY, THREADED, HIGH TORQUE 1,2,4

Y3 8.9mm HIGH, KEYWAY, THREADED, METRIC

Y4 .378" HIGH, FLAT, THREADED, HIGH TORQUE 1,2,5

CW THREADED, SPLASHPROOF 1,2
For T & T1 actuators.

For actuators other than T, T1 and KXX.

OPTION CODE	BUSHING FINISH
NONE	NICKEL on all bushings except 'D8' satin chrome.
2	BLACK

- 1 Will withstand 12 in.-lbs. of torque with no distortion.
2 CW, H, H3, H4, Y1 & Y4 bushings not available on single pole models with A4 terminations.
3 D8 & H4 bushings available only with L, L1, L2, M & S actuators.
4 Y1 bushing available only with LXP, MP, PX & SP actuators.
5 Y4 bushing not available with L4X actuators.
- NOTE:** Two mounting nuts, locking ring and lockwasher supplied standard with threaded bushings. Black hardware is supplied when either black bushings or actuators are specified. Optional mounting nut and locking ring styles and finishes available, see Section N.

PANEL MOUNTING

1/4 INCH BUSHING

METRIC BUSHING

15/32 INCH BUSHING

Without locking ring. With standard locking ring. With small locking ring. Without locking ring. With locking ring. Without locking ring. With standard locking ring.



Third Angle Projection

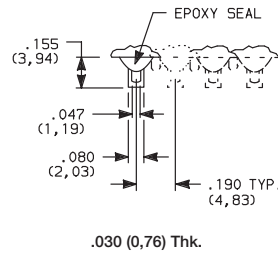
Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change

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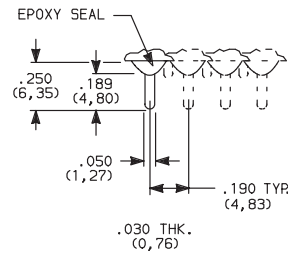
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TERMINATIONS

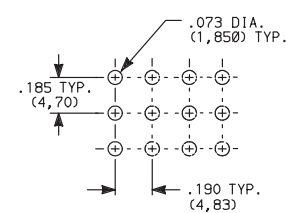
Z SOLDER LUG



C PC THRU-HOLE



PC MOUNTING

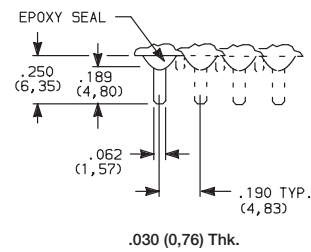


SPDT thru 4PDT

Not available with P, R or S contact materials.

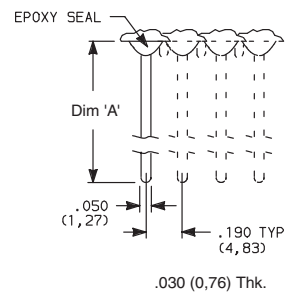
SPDT thru 4PDT

Z3 QUICK CONNECT



W, W1, W3, W4, W5

WIRE WRAP



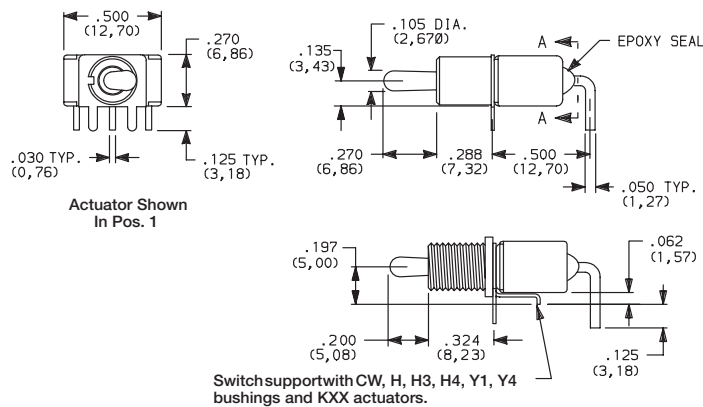
OPTION CODE	DIM 'A'
W	.750 (19,05)
W1	.964 (24,48)
W3	.425 (10,80)
W4	1.062 (26,97)
W5	1.305 (33,15)

SPDT thru 4PDT

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

SPDT thru 4PDT

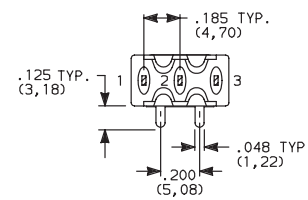
A RIGHT ANGLE, PC THRU-HOLE



Actuator Shown
In Pos. 1

Switch support with CW, H, H3, H4, Y1, Y4
bushings and KXX actuators.

Part No. Shown: 7101MHABE



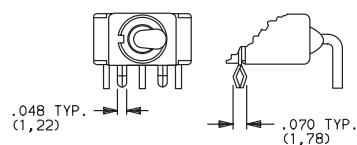
SECTION A-A

Terminal Nos.
For Reference Only



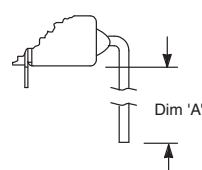
7101MD9ABE
Horizontal Actuation
SPDT

A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



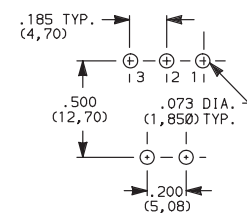
AW1, AW4

RIGHT ANGLE, EXTENDED,
PC THRU-HOLE



OPTION CODE	DIM 'A'
AW1	.72 (18,3)
AW4	.83 (21,1)

PC MOUNTING



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



Third Angle
Projection

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

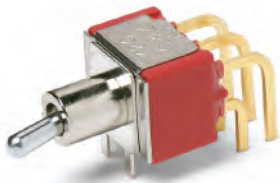
www.ck-components.com

C&K

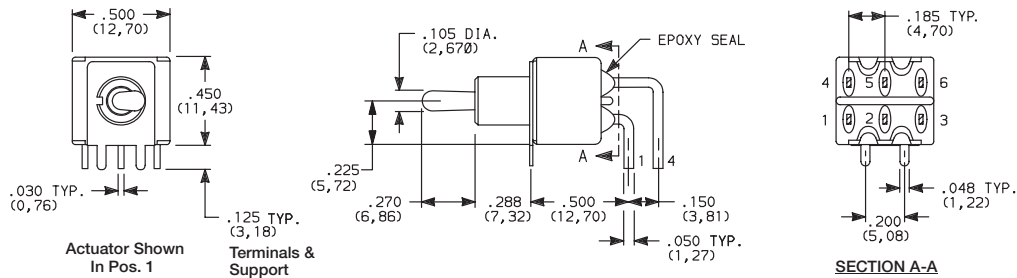
7000 Series Miniature Toggle Switches

TERMINATIONS

A RIGHT ANGLE, PC THRU-HOLE

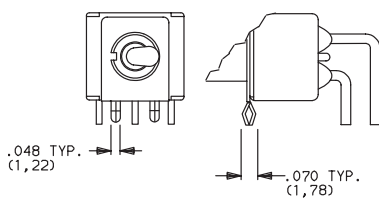


7201MD9ABE
Horizontal Actuation
DPDT



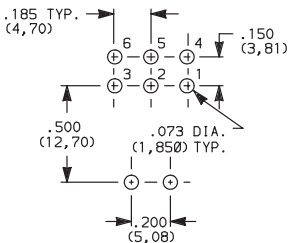
A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE

AW1, AW4 RIGHT ANGLE, EXTENDED, PC THRU-HOLE



OPTION CODE	DIM 'A'
AW1	.40 (10,2)
AW4	.50 (12,7)

PC MOUNTING

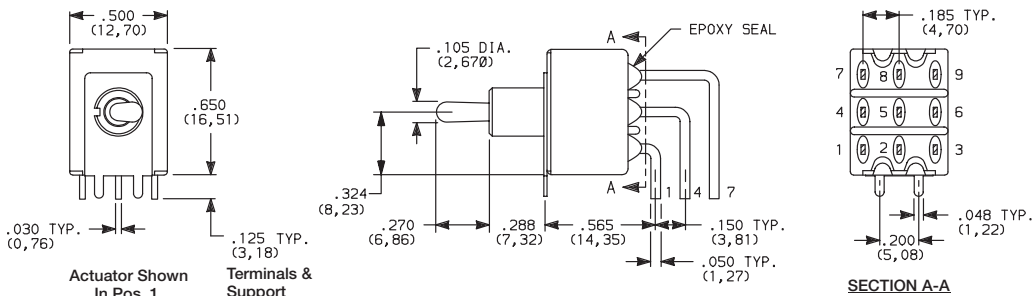


Not available with I seal option.
Terminal bend radii and lead-in manufacturing option.

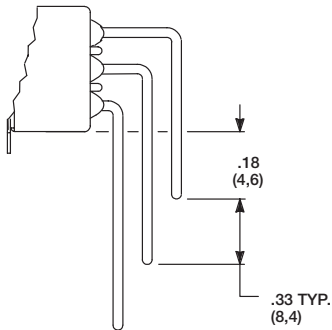
A RIGHT ANGLE, PC THRU-HOLE



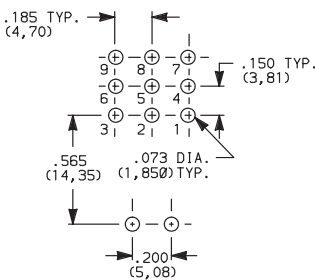
7301MD9ABE
Horizontal Actuation
3PDT



AW4 RIGHT ANGLE, EXTENDED, PC THRU-HOLE



PC MOUNTING



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



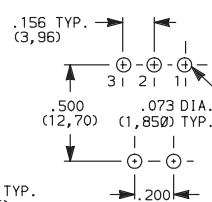
Toggle



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

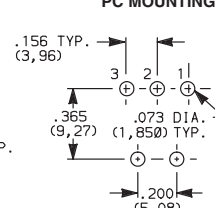
TERMINATIONS

PC MOUNTING



Not available with TXX actuators and I seal. Part No. Shown: 7101MHA2BE
Terminal bend radii and lead-in manufacturing option.

PC MOUNTING

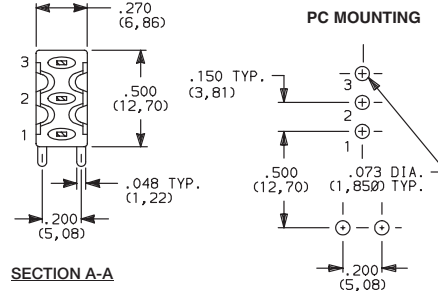


Actuator Shown In Pos. 1

Not available with KXX & TXX actuators, CW, H, H3, H4, Y1 & Y4 bushings, and I seal. Terminal bend radii and lead-in manufacturing option.

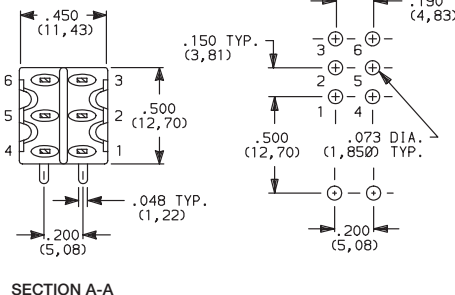
NOTE: The A4 option is available with any contact material and can be UL recognized and CSA certified. The PC pattern must clear switch support legs.

PC MOUNTING



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

PC MOUNTING



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



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

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Toggle

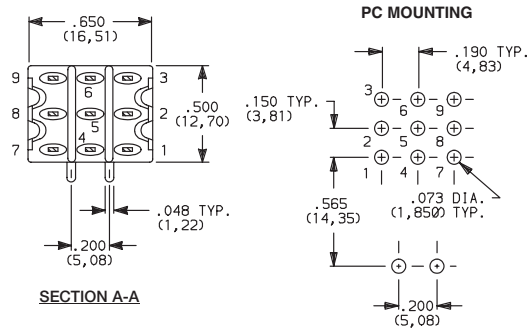
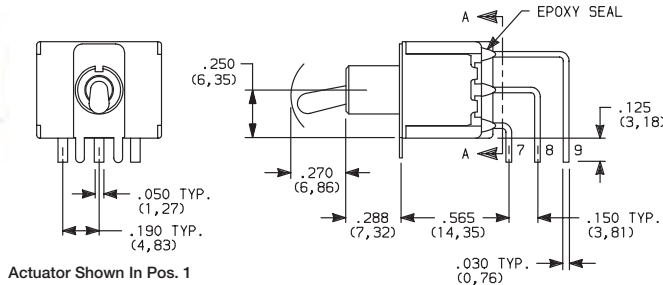
7000 Series Miniature Toggle Switches

TERMINATIONS

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



7301MD9AV2BE
Vertical Actuation
3PDT

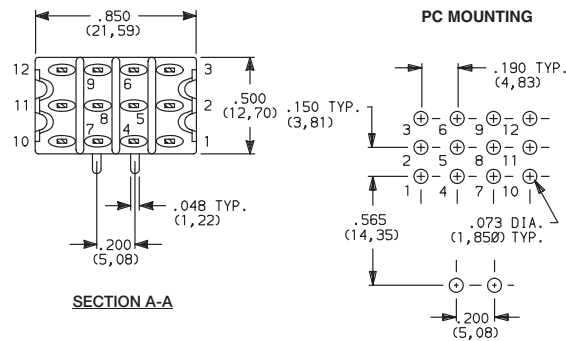
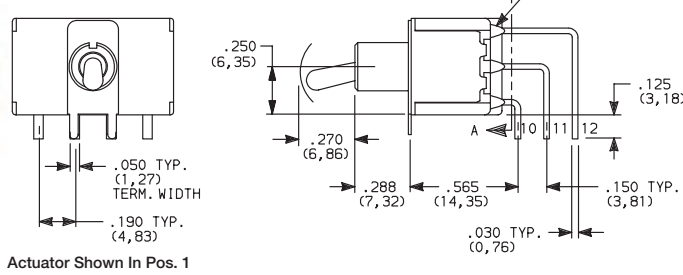


Not available with I seal option.
Terminal bend radii and lead-in manufacturing option.

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



7401MD9AV2BE
Vertical Actuation
4PDT

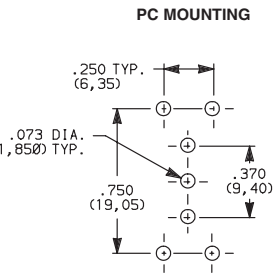
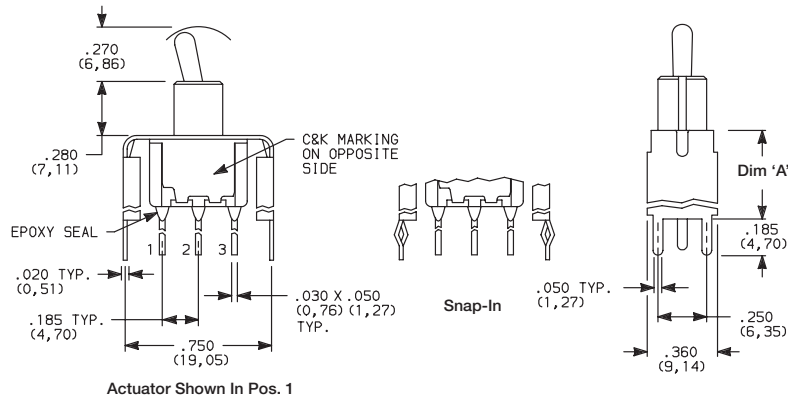


Not available with I seal option.
Terminal bend radii and lead-in manufacturing option.

V2, V6, V7, V8 VERTICAL MOUNT, V-BRACKET
V21, V71, V81 VERTICAL MOUNT, V-BRACKET, SNAP-IN



7101MD9_BE
SPDT



OPTION CODE	DIM 'A'
V2, V21	.555 (14,10)
V6	.460 (11,68)
V7, V71	.630 (16,00)
V8, V81	.953 (24,21)

Not available with I seal option.



Third Angle
Projection

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

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Toggle

F



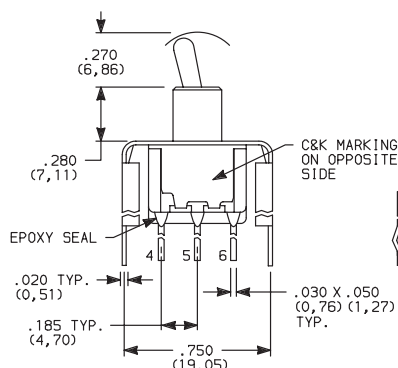
TERMINATIONS

V2, V6, V7, V8

VERTICAL MOUNT, V-BRACKET

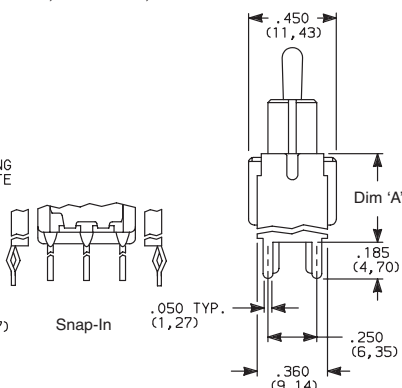
V21, V61, V71, V81

VERTICAL MOUNT, V-BRACKET, SNAP-IN

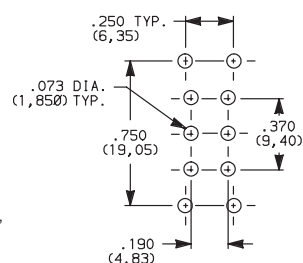


Actuator Shown In Pos. 1

Not available with I seal option.



PC MOUNTING



OPTION CODE	DIM 'A'
V2, V21	.555 (14,10)
V6, V61	.460 (11,68)
V7, V71	.630 (16,00)
V8, V81	.953 (24,21)



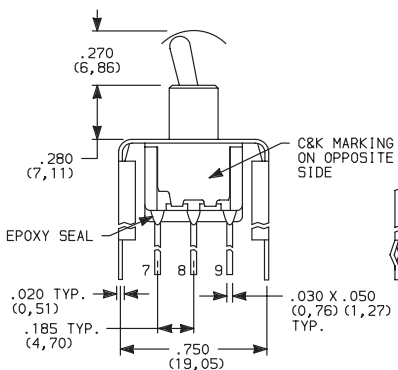
7201MD9__BE
DPDT

V2, V7, V8

VERTICAL MOUNT, V-BRACKET

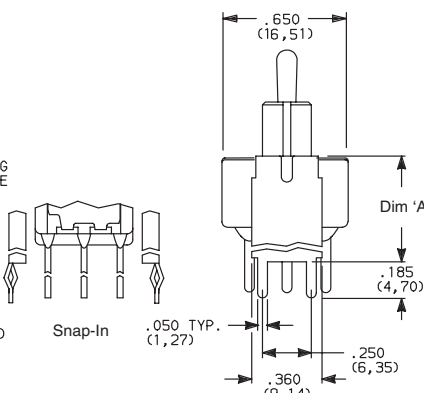
V21, V71, V81

VERTICAL MOUNT, V-BRACKET, SNAP-IN

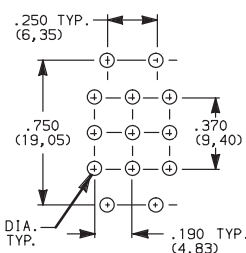


Actuator Shown In Pos. 1

Not available with I seal option.



PC MOUNTING



OPTION CODE	DIM 'A'
V2, V21	.555 (14,10)
V7, V71	.630 (16,00)
V8, V81	.953 (24,21)



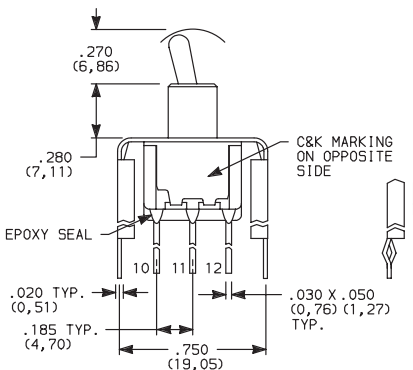
7301MD9__BE
3PDT

V2, V7, V8

VERTICAL MOUNT, V-BRACKET

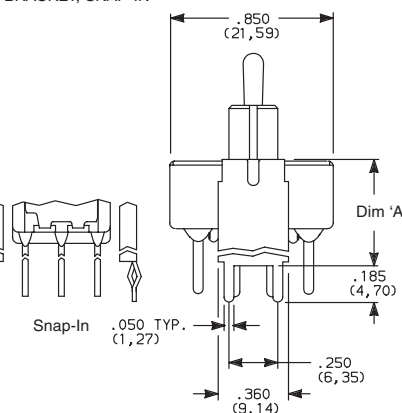
V21, V71, V81

VERTICAL MOUNT, V-BRACKET, SNAP-IN

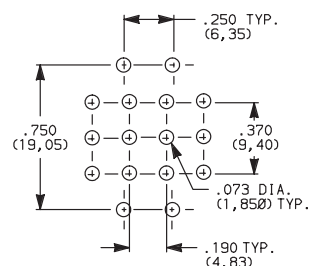


Actuator Shown In Pos. 1

Not available with I seal option.



PC MOUNTING



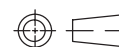
OPTION CODE	DIM 'A'
V2, V21	.555 (14,10)
V7, V71	.630 (16,00)
V8, V81	.953 (24,21)



7401MD9_BE
4PDT



Toggle



Third Angle Projection

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

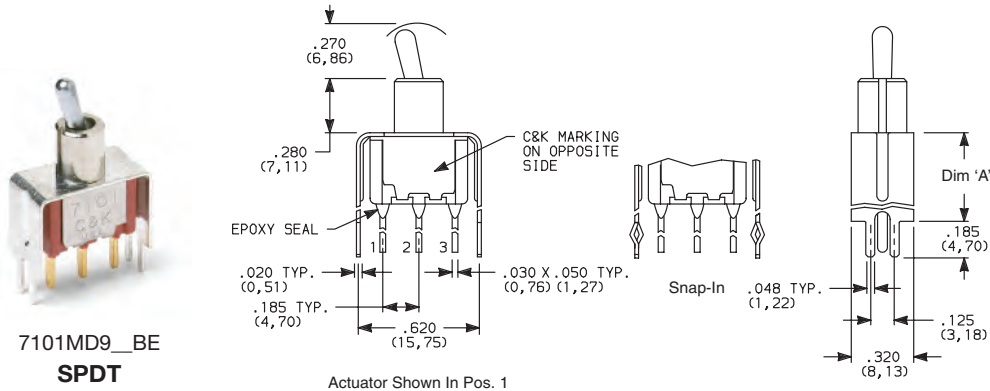
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7000 Series Miniature Toggle Switches

TERMINATIONS

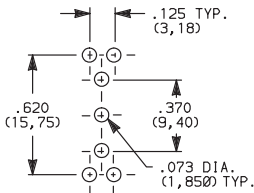
V3, V4, V9 VERTICAL MOUNT, V-BRACKET

V31, V41 VERTICAL MOUNT, V-BRACKET, SNAP-IN



Not available with I seal option.

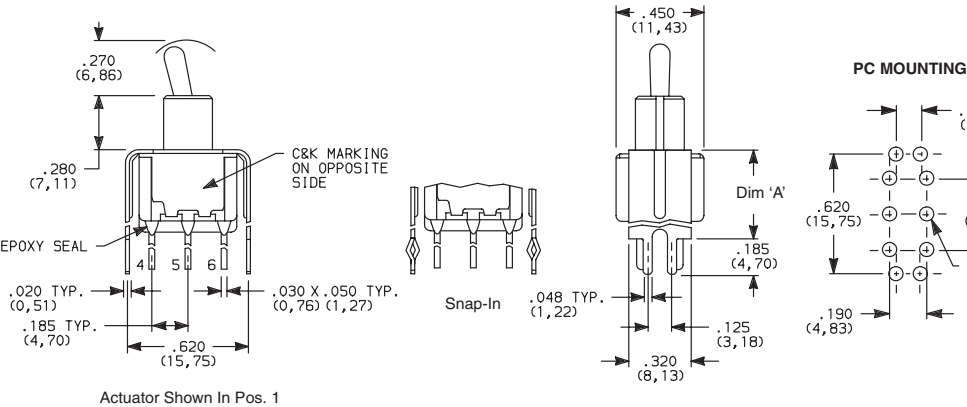
PC MOUNTING



OPTION CODE	DIM 'A'
V3, V31	.460 (11,68)
V4, V41	.630 (16,00)
V9	1.150 (29,21)

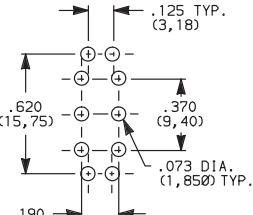
V3, V4, V9 VERTICAL MOUNT, V-BRACKET

V31, V41 VERTICAL MOUNT, V-BRACKET, SNAP-IN



Not available with I seal option.

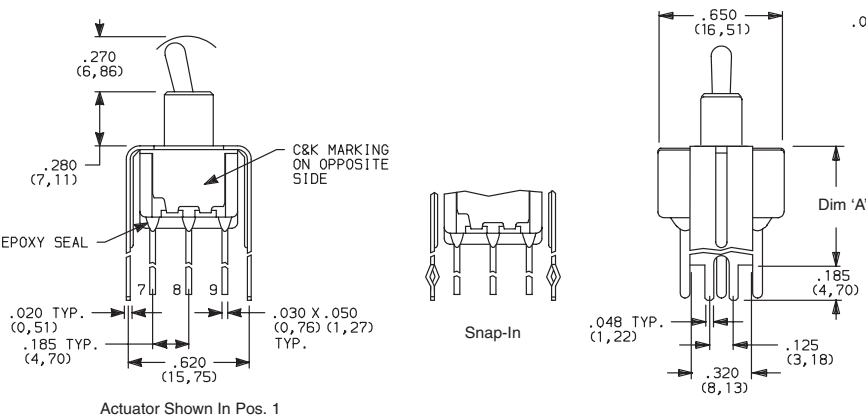
PC MOUNTING



OPTION CODE	DIM 'A'
V3, V31	.460 (11,68)
V4, V41	.630 (16,00)
V9	1.150 (29,21)

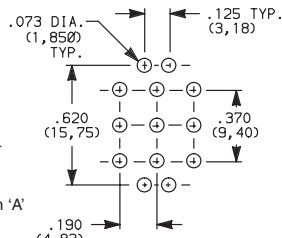
V4, V9 VERTICAL MOUNT, V-BRACKET

V41 VERTICAL MOUNT, V-BRACKET, SNAP-IN

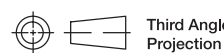


Not available with I seal option.

PC MOUNTING



OPTION CODE	DIM 'A'
V4, V41	.630 (16,00)
V9	1.150 (29,21)



Third Angle
Projection

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

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Toggle

F

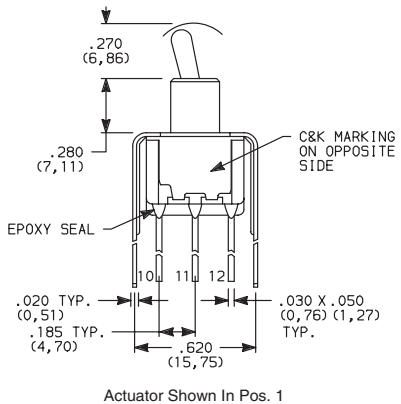


7000 Series Miniature Toggle Switches

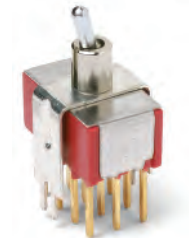
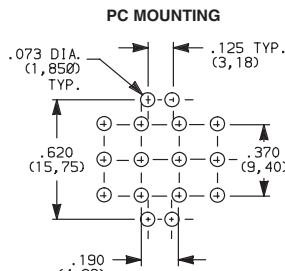
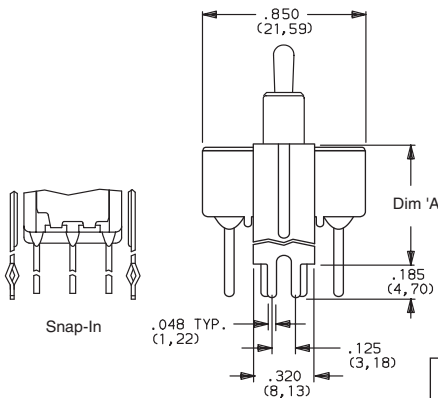
TERMINATIONS

V4, V9 VERTICAL MOUNT, V-BRACKET

V41 VERTICAL MOUNT, V-BRACKET, SNAP-IN



Not available with I seal option.



7401MD9_BE
4PDT

OPTION CODE	DIM 'A'
V4, V41	.630 (16,00)
V9	1.150 (29,21)

CONTACT MATERIAL

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

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

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

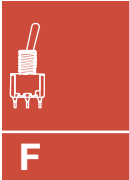
Q contact material standard with C, Z & Z3 terminations.

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



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

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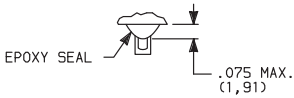


Toggle

7000 Series
Miniature Toggle Switches

SEAL

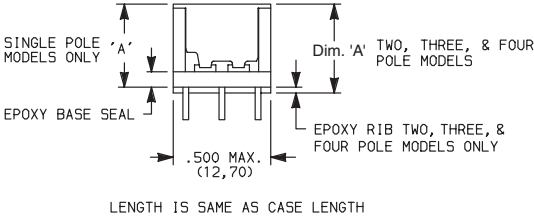
E EPOXY SEAL



EPOXY SEAL
.075 MAX.
(1,91)

Compatible with "bottom-wash" PC board cleaning methods.

I EPOXY POTTED BASE



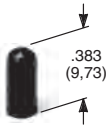
SINGLE POLE MODELS ONLY
Dim. 'A'
EPOXY BASE SEAL
.500 MAX.
(12,70)
LENGTH IS SAME AS CASE LENGTH
EPOXY RIB TWO, THREE, & FOUR POLE MODELS ONLY
Dim. 'A' TWO, THREE, & FOUR POLE MODELS

NO. POLES	DIM 'A'
SP	.410 (10,41)
DP	.440 (11,18)
3P	.505 (12,83)
4P	.505 (12,83)

Available with C, W-W5, Z & Z3 terminations only.

AVAILABLE HARDWARE

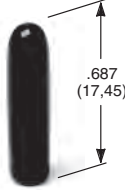
Cap



.383
(9,73)

PART NO.
896801000 WHITE
896802000 BLACK
896803000 RED
Material: Polyethylene
Finish: Matte

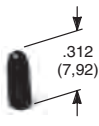
Cap



.687
(17,45)

PART NO.
763701000 WHITE
763702000 BLACK
763703000 RED
Material: Vinyl
Finish: Matte

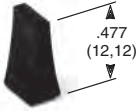
Cap



.312
(7,92)

PART NO.
706201000 WHITE
706202000 BLACK
706203000 RED
Material: Vinyl
Finish: Matte

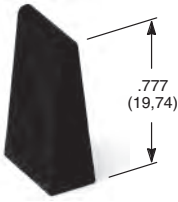
L41 Lever handle



.477
(12,12)

PART NO.
481001000 WHITE
481002263 BLACK
481003000 RED
Material: Nylon
Finish: Matte

L42 Lever handle



.777
(19,74)

PART NO.
481101000 WHITE
481102263 BLACK
481103000 RED
Material: Nylon
Finish: Matte

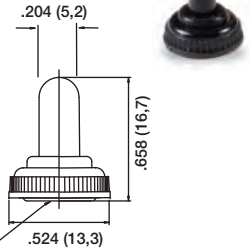
Fits Z3 Termination female connector



PART NO.
530100000
Available in loose pieces.

NOTE: Additional nuts, locking rings and lockwashers available separately, see Section N.
Other colors available, consult Customer Service Center.

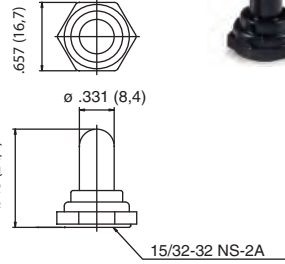
759D02000 Sealing Boot



.204 (5,2)
.658 (16,7)
.524 (13,3)
1/4-40 uns-2A nut

NOTE: For use with S actuator style when combined with D, H, H3, Y, and Y4 bushings

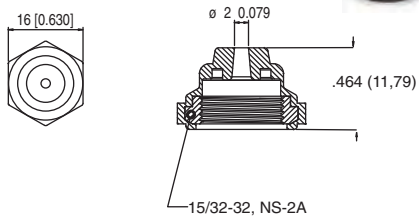
703D02000 Sealing Boot



.657 (16,7)
.331 (8,4)
.945 (24,0)
15/32-32 NS-2A

NOTE: For use with T and TP style actuators. **Cannot be used for Switch Functions: 7103, 7203, 7303, 7403, 7107, 7207, 7307, 7407.**

704D02000 Sealing Boot



16 [0,630]
ø 2 0,079
.464 (11,79)
15/32-32, NS-2A

NOTE: For use with T, TP and T2P style actuators. **Cannot be used for Switch Functions: 7103, 7203, 7303, 7403, 7107, 7207, 7307, and 7407.**



Third Angle
Projection

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

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