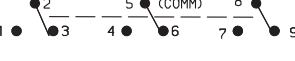


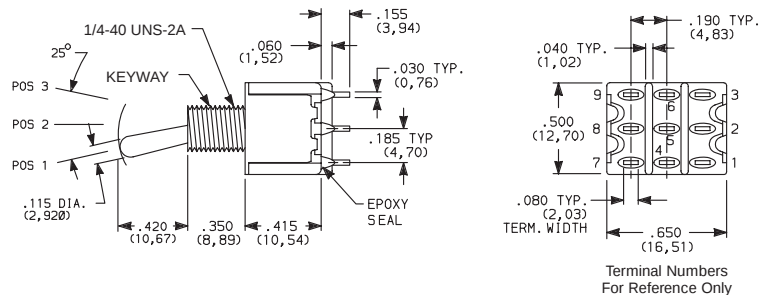
www.ittcannon.com

C&K 7000 Series Miniature Toggle Switches

SWITCH FUNCTION

NO. POLES	MODEL NO.	UL/CSA** 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 (STD.)	U31	ON	NONE	ON	2-3,5-6,8-9	N/A	2-1,5-4,8-7	 3PDT
	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.	2-3,5-6,8-9	N/A	2-1,5-4,8-7	

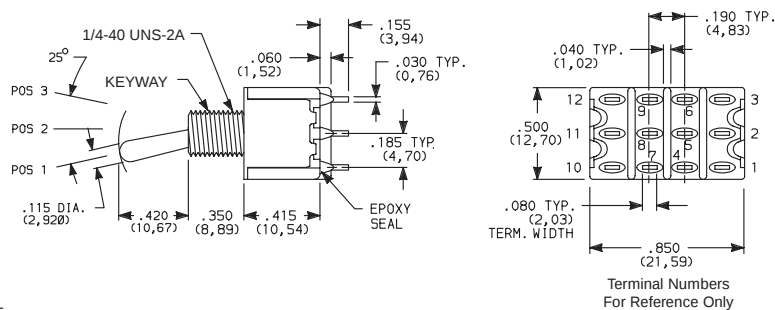
3PDT



4P	7401 (STD.)	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		2-3,5-6,8-9,11-12	OPEN		2-1,5-4,8-7,11-10
	7405	U45	MOM.	OFF	MOM.					
	7407	U47	ON	OFF	MOM.	2-3,5-6,8-9,11-12	N/A	2-1,5-4,8-7,11-10		
	7408	U48	ON	NONE	MOM.					
	7411*	U411*	ON	ON	ON					2-3,5-6,8-9,11-12
	7413*	U413*	ON	ON	MOM.					
	7415*	U415*	MOM.	ON	MOM.					

4PDT

4PDT



MOM. = Momentary

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

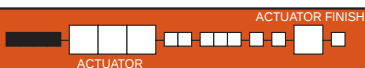
** U11-U415 model nos. with all options when ordered with G, L, M or Q contact material.



Toggle

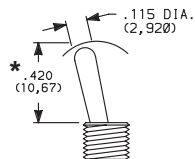
C&K 7000 Series Miniature Toggle Switches

ACTUATOR



S (STD.) .420" HIGH ¹

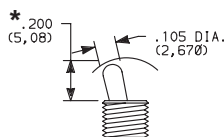
SP ANTIROTATION, .420" HIGH ^{2,3}



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

M (STD.) .200" HIGH ¹

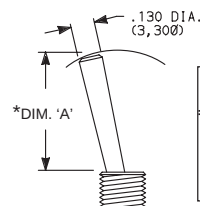
MP ANTIROTATION, .200" HIGH ^{2,3}



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

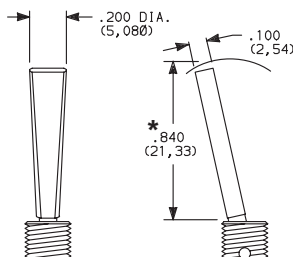
L1P, L2P ANTIROTATION, .840", .640", .550" HIGH ^{2,3}



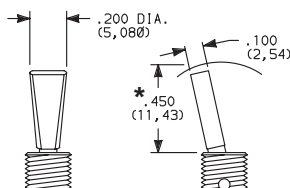
OPTION CODE	DIM 'A'
L	.840 (21, 34)
L1, L1P	.640 (16, 26)
L2, L2P	.550 (13, 97)

Caps are available separately, see page F-16.

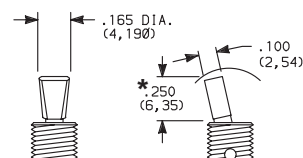
P1 FLATTED WITH ANTIROTATION, .840" HIGH ^{2,3}



P3 (STD.) FLATTED WITH ANTIROTATION, .450" HIGH ^{2,3}



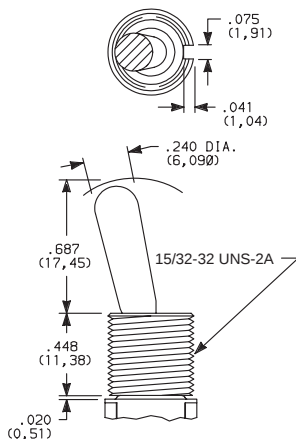
P4 FLATTED WITH ANTIROTATION, .250" HIGH ^{2,3}



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

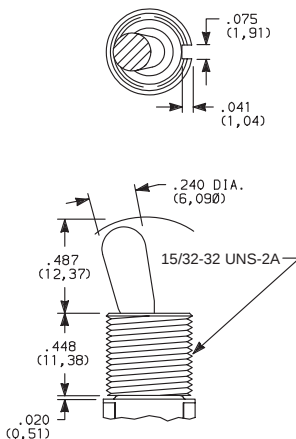
T (STD.) .687" HIGH ^{1,2}

TP ANTIROTATION, .687" HIGH, 15/32 BUSHING ^{1,2,3}

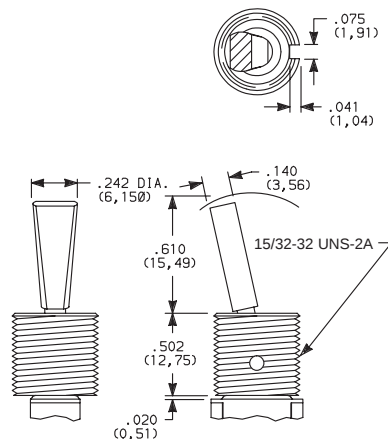


T1 .487" HIGH ^{1,2}

T1P ANTIROTATION, .487" 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-A7, AW-AW4, R terminations.

Bushing option code not required. T2P actuator not available with CW splashproof bushing or single pole models with A-A7, AW-AW4, R terminations.

Toggle

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	(STD.) BRIGHT CHROME-With Nickle Plated Bushing
2	(STD.) BLACK
0	BRIGHT CHROME-With Black Bushing
S	SATIN CHROME

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



Dimensions are shown: IN (mm)
Dimensions subject to change

C&K 7000 Series Miniature Toggle Switches

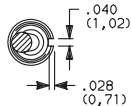
BUSHING

BUSHING FINISH

BUSHING

Y (STD.) .350" HIGH, THREADED, KEYWAY

Y9 .350" HIGH, UNTHREADED, KEYWAY



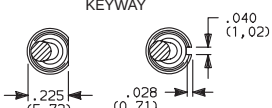
NONE NO BUSHING

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

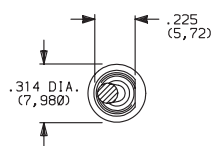
D (STD.) .280" HIGH, THREADED, KEYWAY

D8 .280" HIGH, UNTHREADED, FLAT ³

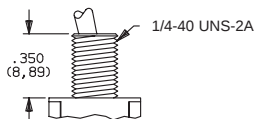
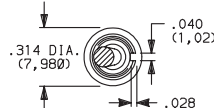
D9 .280" HIGH, UNTHREADED, KEYWAY



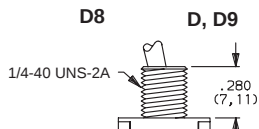
H (STD.) .296" HIGH, FLAT THREADED, HIGH TORQUE ^{1,2}



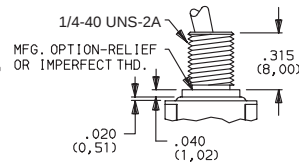
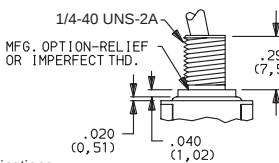
H3 .315" HIGH, KEYWAY THREADED, HIGH TORQUE ^{1,2}



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

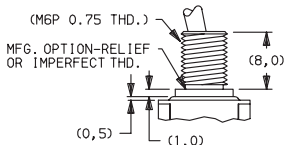
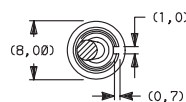


D9 bushing standard with all terminations except C, W-W5, Z or Z3. Add .070 (1,78) to all actuators lengths with D, D8 & D9 bushings.

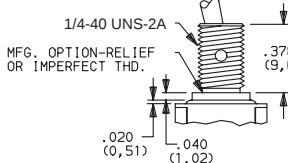
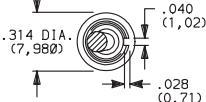


Subtract .020 (0,51) from all actuator lengths for H3 bushing.

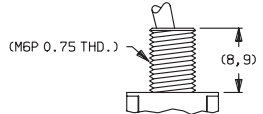
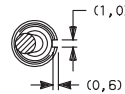
H4 8mm HIGH, KEYWAY, THREADED, METRIC HIGH TORQUE ^{1,2,3}



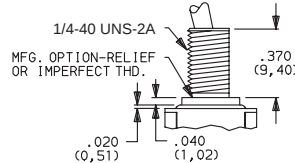
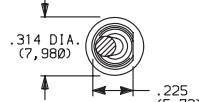
Y1 .378" HIGH, KEYWAY, THREADED, HIGH TORQUE ^{1,2,4}



Y3 8.9mm HIGH, KEYWAY, THREADED, METRIC

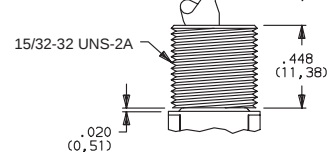
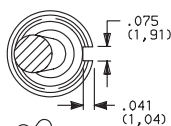


Y4 .378" HIGH, FLAT, THREADED, HIGH TORQUE ^{1,2,5}



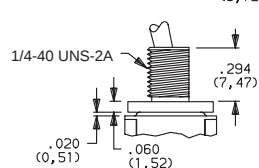
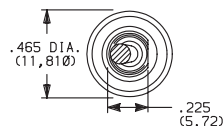
CW THREADED, SPLASHPROOF ^{1,2}

For T & T1 actuators.



IP67 Degree of protection, totally protected against dust, full-scale voltage protection, temporary immersion. Internal actuator seal standard. External bushing seal washer available separately, order from: Multi-Flex Seals, Inc., Hackensack, NJ. Part number: MFS-60064.

For actuators other than T & T1.



IP67 Degree of protection, totally protected against dust, full-scale voltage protection, temporary immersion. Internal actuator seal and external bushing seal washer standard.

OPTION CODE	BUSHING FINISH
NONE	(STD.) 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, R terminations.

³ D8 & H4 bushings available only with L, L1, L2, L3, M & S actuators.

⁴ Y1 bushing available only with LP, LXP, MP, PX & SP actuators.

⁵ Y4 bushing not available with L4X actuators.

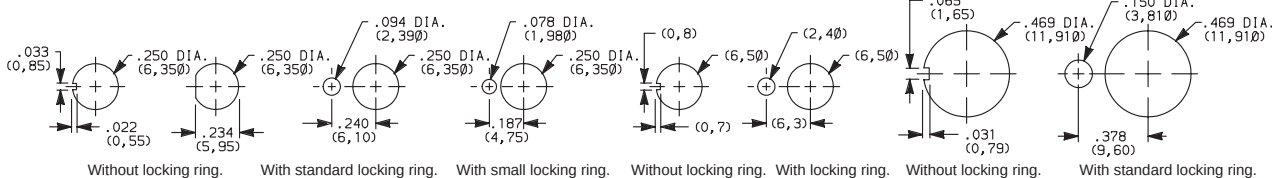
NOTE: Two mounting nuts, locking ring and lockwasher supplied standard with threaded bushings. Black hardware is supplied when either black bushings or actuators are specified. Optional mounting nut and locking ring styles and finishes available, see section N.

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.



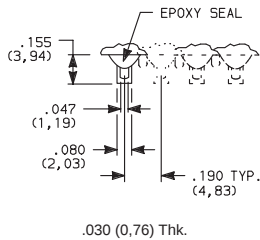
Third Angle Projection

Dimensions are shown: IN (mm)
Dimensions subject to change

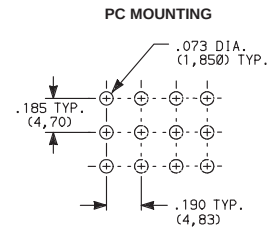
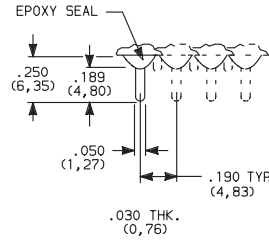
C&K 7000 Series Miniature Toggle Switches

TERMINATIONS

Z (STD.) SOLDER LUG



C (STD.) PC THRU-HOLE

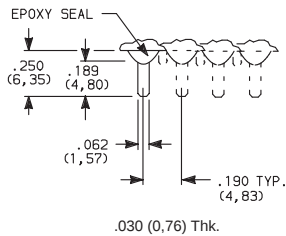


SPDT thru 4PDT

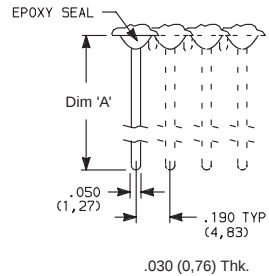
Not available with K, L or M contact materials.

SPDT thru 4PDT

Z3 QUICK CONNECT



W, W1, W3, W4, W5 WIRE WRAP



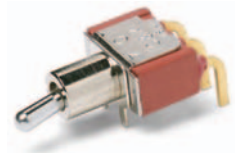
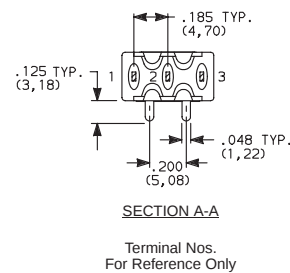
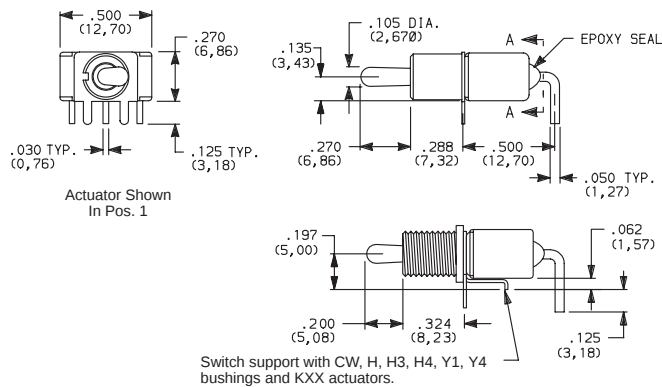
OPTION CODE	DIM 'A'
W	.750 (19,05)
W1	.964 (24,48)
W3	.425 (10,80)
W4	1.062 (26,97)
W5	1.305 (33,15)

SPDT thru 4PDT

Not available with K, L or M contact materials.
Mating quick connector available, order part number 530100000, page F-17.

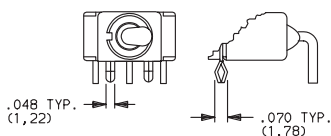
SPDT thru 4PDT

A (STD.) RIGHT ANGLE, PC THRU-HOLE

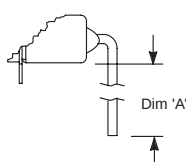


7101MD9ABE
Horizontal Actuation
SPDT

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

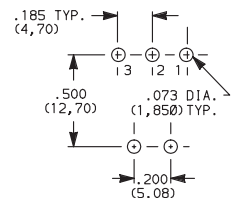


AW1, AW3, AW4 RIGHT ANGLE, EXTENDED, PC THRU-HOLE



OPTION CODE	DIM 'A'
AW1	.72 (18,3)
AW3	.20 (5,1)
AW4	.83 (21,1)

PC MOUNTING



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



F

Toggle

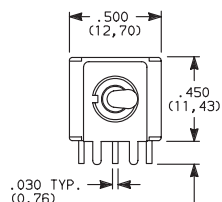
C&K 7000 Series Miniature Toggle Switches

TERMINATIONS

A (STD.) RIGHT ANGLE, PC THRU-HOLE

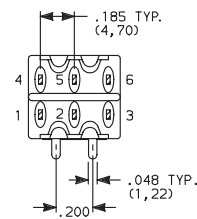
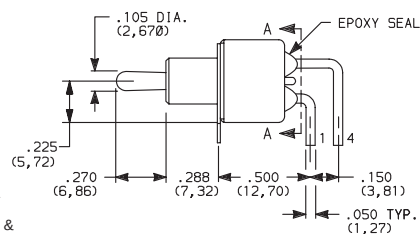


7201MD9ABE
Horizontal Actuation
DPDT



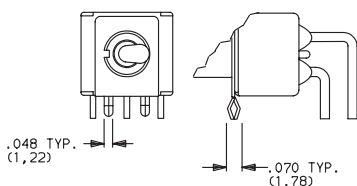
Actuator Shown
In Pos. 1

Terminals &
Support



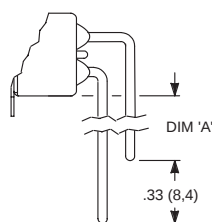
SECTION A-A

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



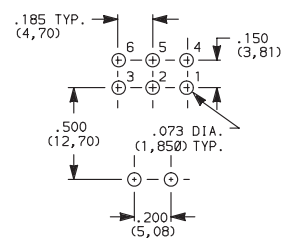
AW1, AW4

RIGHT ANGLE, EXTENDED,
PC THRU-HOLE



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

PC MOUNTING

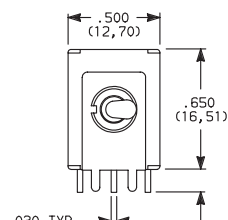


Not available with I seal option.
Terminal bend radii and lead-in manufacturing option.

A (STD.) RIGHT ANGLE, PC THRU-HOLE

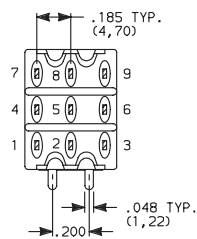
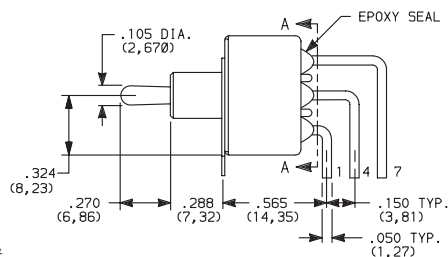


7301MD9ABE
Horizontal Actuation
3PDT



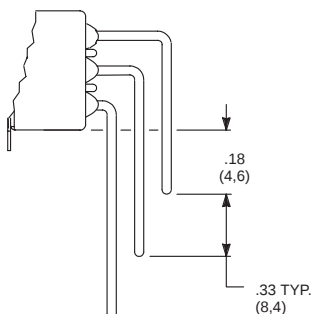
Actuator Shown
In Pos. 1

Terminals &
Support

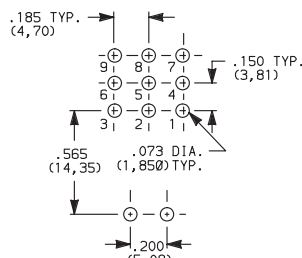


SECTION A-A

AW4 RIGHT ANGLE, EXTENDED, PC THRU-HOLE



PC MOUNTING



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



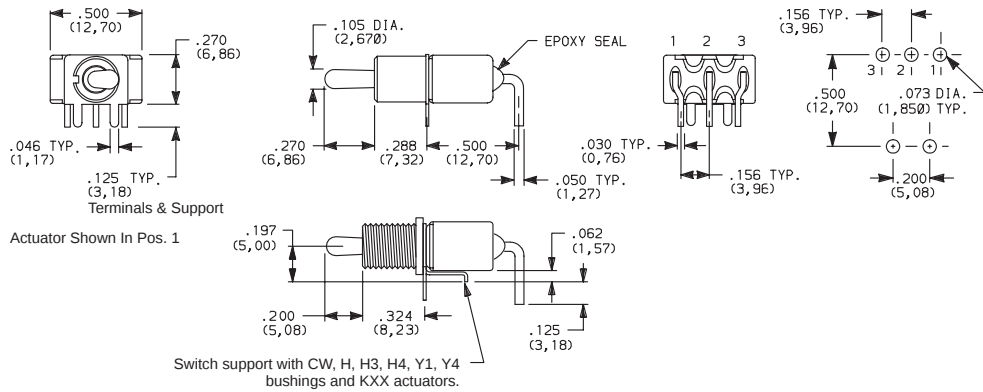
Third Angle
Projection

Dimensions are shown: IN (mm)
Dimensions subject to change

C&K 7000 Series Miniature Toggle Switches

TERMINATIONS

A2 RIGHT ANGLE, PC THRU-HOLE, .156" PITCH



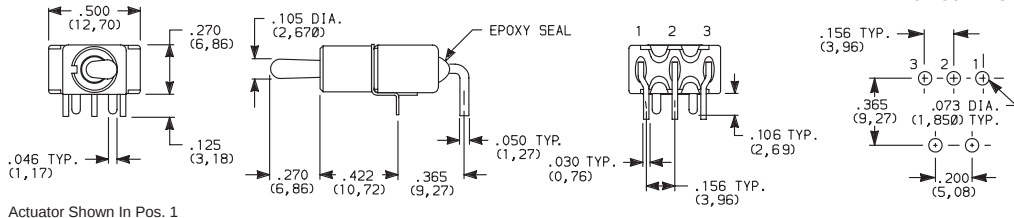
Not available with TXX actuators and I seal.
Terminal bend radii and lead-in manufacturing option.

Part No. Shown: 7101MHA2BE



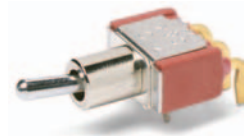
7101MHA2BE
Horizontal Actuation
SPDT

A4 RIGHT ANGLE, PC THRU-HOLE .156" PITCH



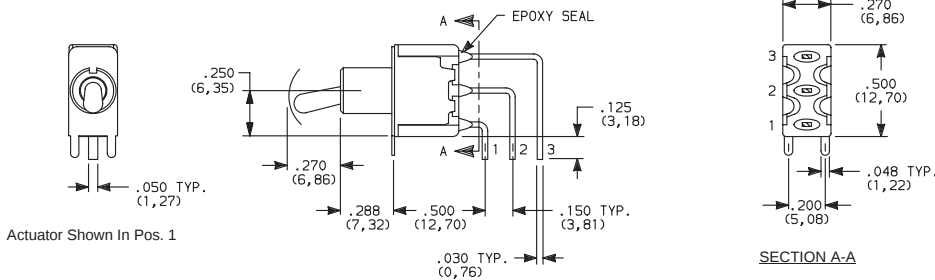
Not available with KXX & TXX actuators, CW, H, H3, H4, Y1 & Y4 bushings, and I seal. Terminal bend radii and lead-in manufacturing option.

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.



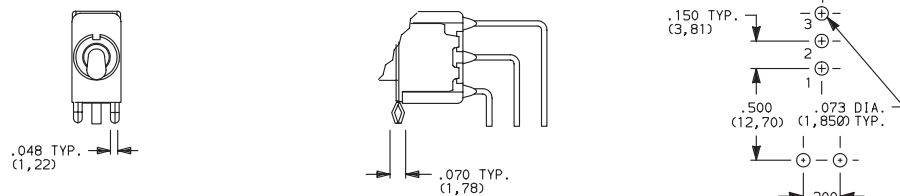
7101MD9A4BE
Horizontal Actuation
SPDT

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



7101MD9AV2BE
Horizontal Actuation
SPDT

AV3 VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, .150" PITCH



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

Third Angle Projection

Dimensions are shown: IN (mm)
Dimensions subject to change



F

Toggle

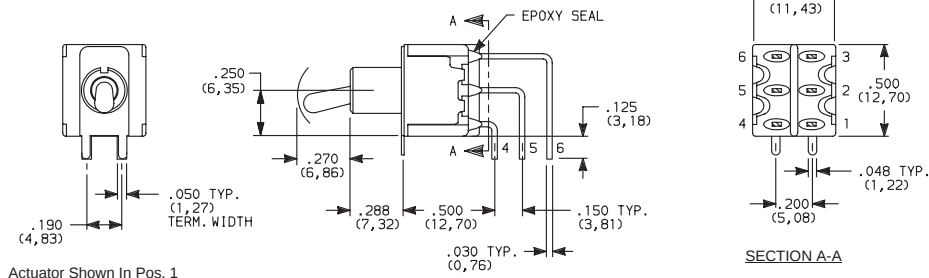
C&K 7000 Series Miniature Toggle Switches

TERMINATIONS

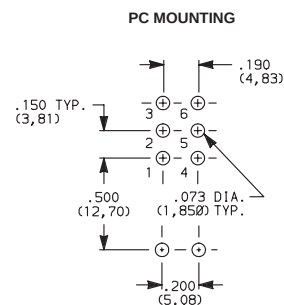
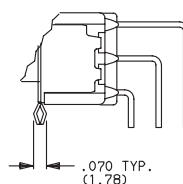
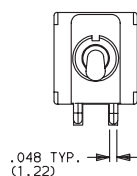
AV2 (STD.) VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH



7201MD9AV2BE
Vertical Actuation
DPDT



AV3 VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, .150" PITCH

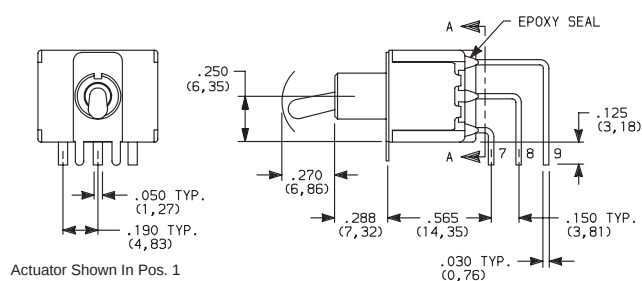


Not available with I seal option.
Terminal bend radii and lead-in manufacturing option.

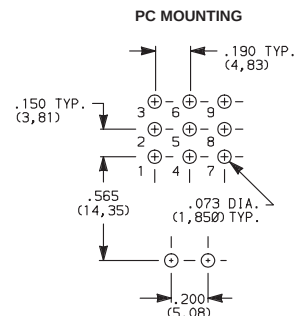
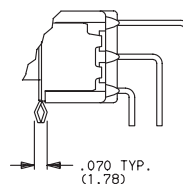
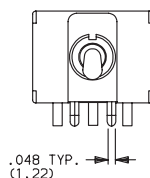
AV2 (STD.) VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH



7301MD9AV2BE
Vertical Actuation
3PDT



AV3 VERTICAL RIGHT ANGLE, SNAP-IN, .150" PITCH



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

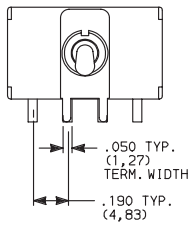


Dimensions are shown: IN (mm)
Dimensions subject to change

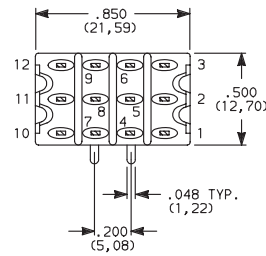
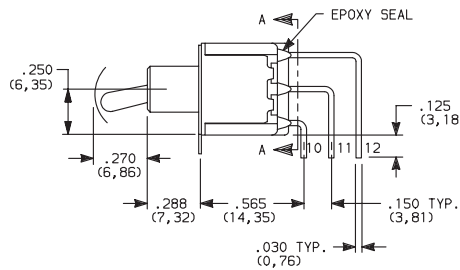
C&K 7000 Series Miniature Toggle Switches

TERMINATIONS

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



Actuator Shown In Pos. 1

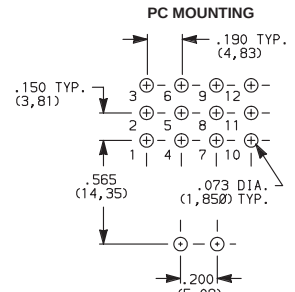
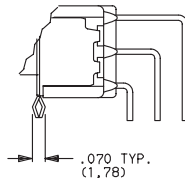
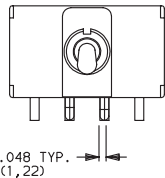


SECTION A-A



7401MD9AV2BE
Vertical Actuation
4PDT

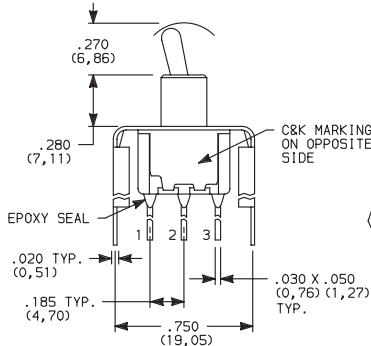
AV3 VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE .150" PITCH



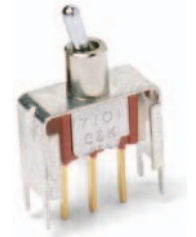
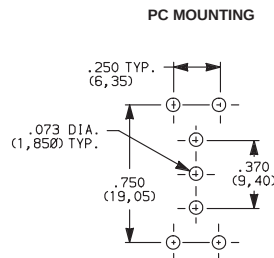
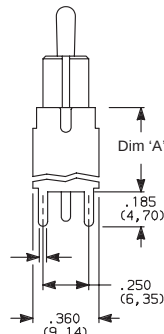
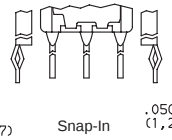
Not available with I seal option.
Terminal bend radii and lead-in manufacturing option.

V2, V6, V7, V8 VERTICAL MOUNT, V-BRACKET

V21, V61, V71, V81 VERTICAL MOUNT, V-BRACKET, SNAP-IN



Actuator Shown In Pos. 1



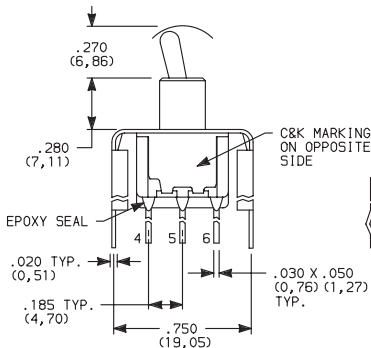
7101MD9_BE
SPDT

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

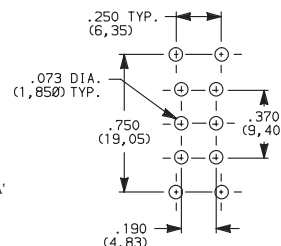
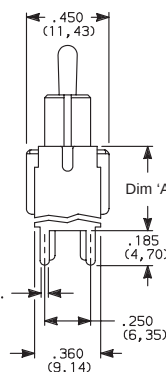
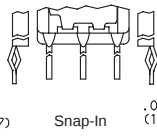
Not available with I seal option.

V2, V6, V7, V8 VERTICAL MOUNT, V-BRACKET

V21, V61, V71, V81 VERTICAL MOUNT, V-BRACKET, SNAP-IN



Actuator Shown In Pos. 1



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

Not available with I seal option.



Cannon



F

Toggle

C&K 7000 Series Miniature Toggle Switches

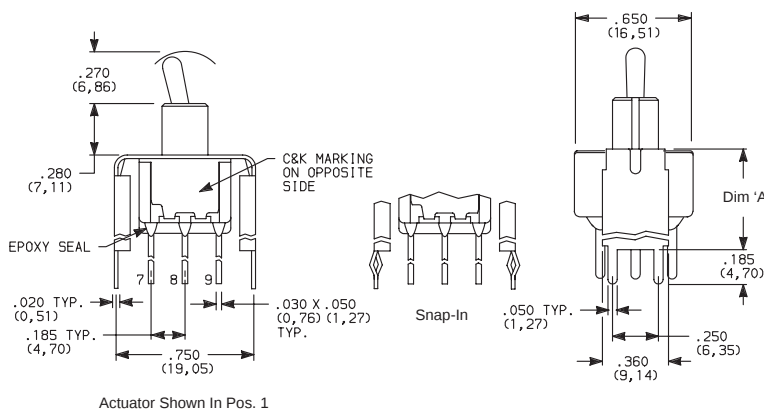
TERMINATIONS

V2, V7, V8 VERTICAL MOUNT, V-BRACKET

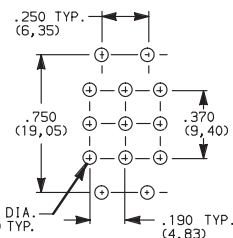
V21, V71, V81 VERTICAL MOUNT, V-BRACKET, SNAP-IN



7301MD9_BE
3PDT



PC MOUNTING



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

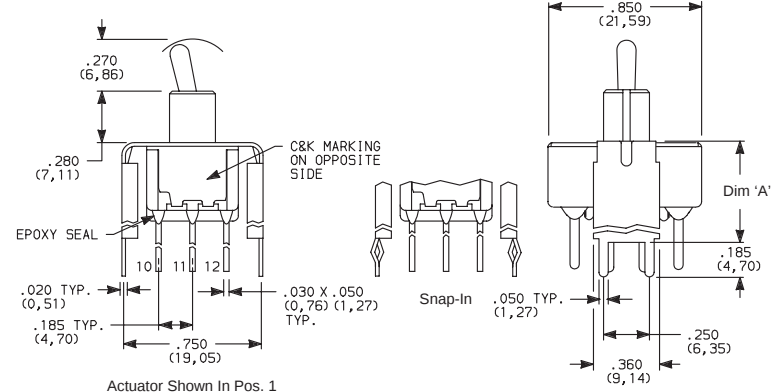
Not available with I seal option.

V2, V7, V8 VERTICAL MOUNT, V-BRACKET

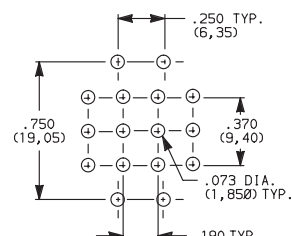
V21, V71, V81 VERTICAL MOUNT, V-BRACKET, SNAP-IN



7401MD9_BE
4PDT



PC MOUNTING



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

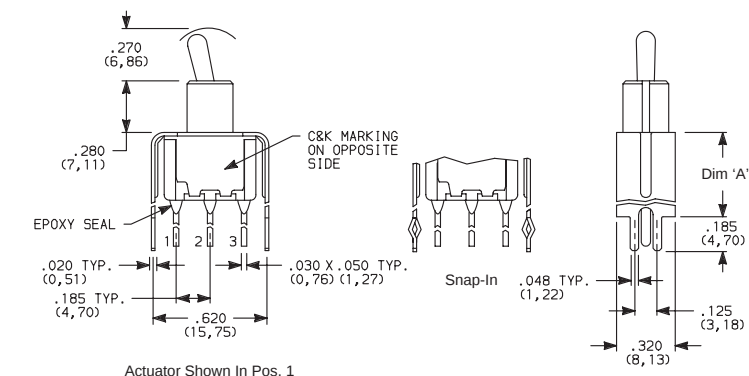
Not available with I seal option.

V3 (STD.), V4, V9 VERTICAL MOUNT, V-BRACKET

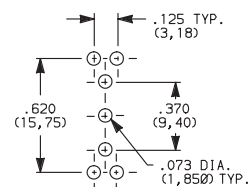
V31, V41 VERTICAL MOUNT, V-BRACKET, SNAP-IN



7101MD9_BE
SPDT



PC MOUNTING



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

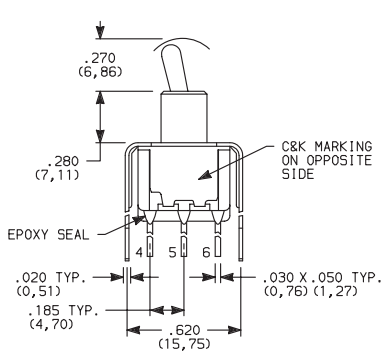
Not available with I seal option.

C&K 7000 Series Miniature Toggle Switches

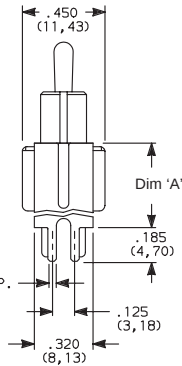
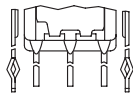
TERMINATIONS

V3 (STD.), V4, V9 VERTICAL MOUNT, V-BRACKET

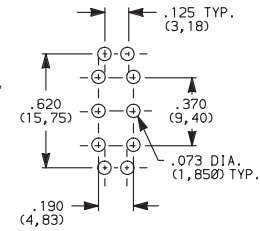
V31, V41 VERTICAL MOUNT, V-BRACKET, SNAP-IN



Actuator Shown In Pos. 1



PC MOUNTING



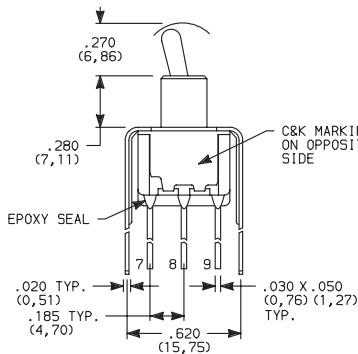
7201MD9_BE
DPDT

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

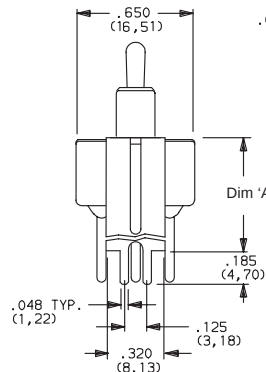
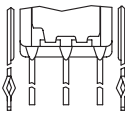
Not available with I seal option.

V4, V9 VERTICAL MOUNT, V-BRACKET

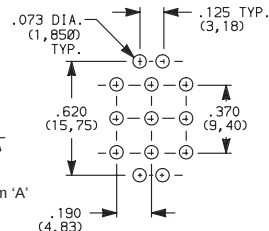
V41 VERTICAL MOUNT, V-BRACKET, SNAP-IN



Actuator Shown In Pos. 1



PC MOUNTING



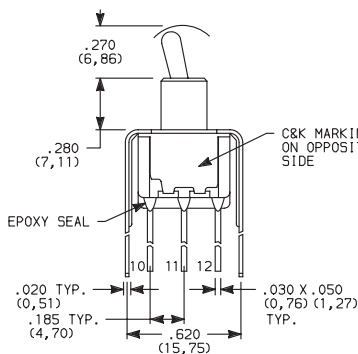
7301MD9_BE
3PDT

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

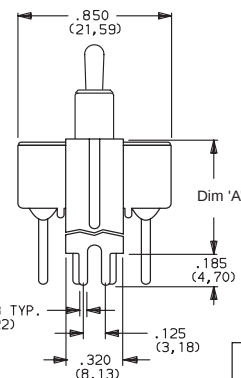
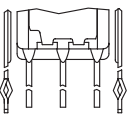
Not available with I seal option.

V4, V9 VERTICAL MOUNT, V-BRACKET

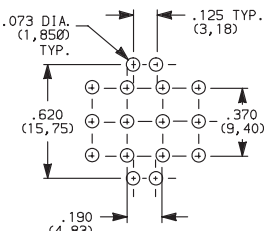
V41 VERTICAL MOUNT, V-BRACKET, SNAP-IN



Actuator Shown In Pos. 1



PC MOUNTING



7401MD9_BE
4PDT

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

Not available with I seal option.



Cannon



F

Toggle

C&K 7000 Series Miniature Toggle Switches

CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
B (STD.)	GOLD ¹	GOLD ¹	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.
K		TIN-LEAD ⁶		
Q (STD.)	SILVER ^{4,5}	SILVER ⁵	POWER	5 AMPS @ 120 V AC OR 28 V DC; 2 AMPS @ 250 V AC.
M		TIN-LEAD 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.
L		TIN-LEAD ⁶		

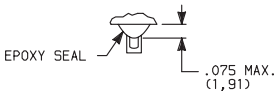
CONTACT MATERIAL/APPLICATION RECOMMENDATIONS-SEE SECTION N.

- 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.

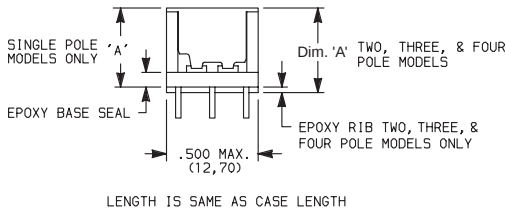
U11-U415 model numbers  with all options when ordered with G, L, M or Q contact material.
B contact material standard with all terminations except C, Z & Z3.
B contact material standard must be ordered with A7 & R terminations.
Q contact material standard with C, Z & Z3 terminations.
K, L & M contact materials not available with Z & Z3 terminations.

SEAL

E (STD.) EPOXY SEAL



I EPOXY POTTED BASE



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

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

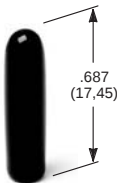
Available with C, W-W5, Z & Z3 terminations only.

AVAILABLE HARDWARE

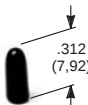
Cap



Cap



Cap



PART NO.
896801000 WHITE
896802000 BLACK
896803000 RED

Material: Polyethylene
Finish: Matte

PART NO.
763701000 WHITE
763702000 BLACK
763703000 RED

Material: Vinyl
Finish: Matte

PART NO.
706201000 WHITE
706202000 BLACK
706203000 RED

Material: Vinyl
Finish: Matte

C&K 7000 Series Miniature Toggle Switches

AVAILABLE HARDWARE

L41 Lever handle

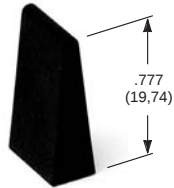


PART NO.

481001000 WHITE
481002263 BLACK
481003000 RED

Material: Nylon
 Finish: Matte

L42 Lever handle



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.



F

Toggle