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C&K 7000 Series
Miniature Toggle Switches

Features/Benefits

- ***Multi-pole and multi-position***
- ***Wide variety of actuator and termination options***
- ***Epoxy sealed terminals prevent contamination during soldering***

Typical Applications

- ***Telecommunications***
- ***Instrumentation***
- ***Medical equipment***



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

INSULATION RESISTANCE: 10^9 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: 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

- 7101 **(STD.) SP On-None-On**
- 7103 **(STD.) SP On-Off-On**
- 7105 SP Mom.-Off-Mom.
- 7107 SP On-Off-Mom.
- 7108 SP On-None-Mom.
- 7109 SP None-On-Mom.
- 7201 **(STD.) DP On-None-On**
- 7203 **(STD.) DP On-Off-On**
- 7205 DP Mom.-Off-Mom.
- 7207 DP On-Off-Mom.
- 7208 DP On-None-Mom.
- 7211 **(STD.) DP On-On-On**
- 7213 DP On-On-Mom.
- 7215 DP Mom.-On-Mom.
- 7301 **(STD.) 3P On-None-On**
- 7303 3P On-Off-On
- 7305 3P Mom.-Off-Mom.
- 7307 3P On-Off-Mom.
- 7308 3P On-None-Mom.
- 7401 **(STD.) 4P On-None-On**
- 7403 4P On-Off-On
- 7405 4P Mom.-Off-Mom.
- 7407 4P On-Off-Mom.
- 7408 4P On-None-Mom
- 7411 4P On-On-On
- 7413 4P On-On-Mom.
- 7415 4P Mom.-On-Mom.

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

Actuator

- M **(STD.) .200" high**
- P3 **(STD.) Flatted, anti-rotation, .450" high**
- S **(STD.) .420" high**
- T **(STD.) .687" high, 15/32 bushing**
- K2 Locking lever, .704" high
- K9 Locking lever, .704" high
- K12 Locking lever, .732" high
- K19 Locking lever, .732" high
- L .840" high
- L1 .640" high
- L1P Anti-rotation, .640" high
- L2 .550" high
- L2P Anti-rotation, .550" high
- L3 Plastic, .840" high
- L3P Plastic, anti-rotation, .840" high
- L40 Lever handle without cap
- L41 .531" high lever handle with cap
- L42 .838" high lever handle with cap
- MP Anti-rotation, .200" high
- P1 Flatted, anti-rotation, .840" high
- P4 Flatted, anti-rotation, .250" high
- SP Anti-rotation, .420" high
- T1 .487" high, 15/32 bushing
- T1P Anti-rotation, .487" high, 15/32 bushing
- T2P Flatted, anti-rotation, .610" high, 15/32 bushing,
- TP Anti-rotation, .687" high, 15/32 bushing

Bushing

- D **(STD.) .280" high, keyway**
- H **(STD.) .296" high, flat**
- Y **(STD.) .350" high, keyway**
- NONE No bushing choice required
- CW Splashproof
- D8 .280" high, flat
- D9 .280" high, keyway
- H3 .315" high, keyway
- H4 8mm high, keyway
- Y1 .378" high, keyway
- Y3 8.9mm high, keyway
- Y4 .378" high, flat
- Y9 .350" high, keyway

Terminations

- A **(STD.) Right angle, PC thru-hole**
- AV2 **(STD.) Vert. right angle, PC thru-hole**
- C **(STD.) PC Thru-hole**
- V3 **(STD.) .460" high, V-bracket**
- Z **(STD.) Solder lug**
- A2 Right angle, PC thru-hole
- A3 Right angle, PC thru-hole
- A4 Right angle, PC thru-hole
- AV3 Vert. right angle, PC thru-hole
- AW1 Right angle, extended, PC thru-hole
- AW3 Right angle, extended, PC thru-hole
- AW4 Right angle, extended, PC thru-hole
- V2 .555" high, V-bracket
- V4 .630" high, V-bracket
- V6 .460" high, V-bracket
- V7 .630" high, V-bracket
- V8 .953" high, V-bracket
- V9 1.150" high, V-bracket
- V21 .555" high, snap-in V-bracket
- V31 .460" high, snap-in V-bracket
- V41 .630" high, snap-in V-bracket
- V61 .460" high, snap-in V-bracket
- V71 .630" high, snap-in V-bracket
- V81 .953" high, snap-in V-bracket
- W .750" long, wire wrap
- W1 .964" long, wire wrap
- W3 .425" long, wire wrap
- W4 1.062" long, wire wrap
- W5 1.305" long, wire wrap
- Z3 Quick connect

Contact Material

- B **(STD.) Gold**
- Q **(STD.) Silver**
- K Gold, tin-lead
- M Silver, tin-lead
- G Gold over silver
- L Gold over silver, tin-lead

Seal

- E **(STD.) Epoxy**
- I Epoxy potted base

Actuator Color/Finish

- NONE **(STD.) Bright chrome**
- 0 **(STD.) Actuator finish with black bushing**
- 1 White
- 2 Black
- 3 Red
- S Satin chrome

KXX Actuator Color/Finish

- NONE **(STD.) Natural aluminum**
- 0 **(STD.) Natural aluminum with black bushing**
- 2 Black anodized aluminum
- 3 Red anodized aluminum
- 7 Blue anodized aluminum

Bushing Finish

- NONE **(STD.) Nickel on all bushings (except D8, satin chrome)**
- 2 Black

F Toggle

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C&K 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-16 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.

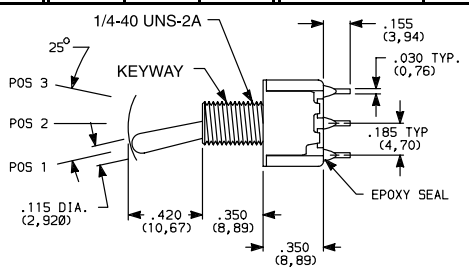
NOTE: Materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

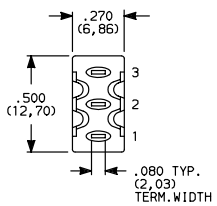
SWITCH FUNCTION

NO. POLES	MODEL NO.	UL/CSA** MODEL NO.	SWITCH FUNCTION POS. 1	SWITCH FUNCTION POS. 2	SWITCH FUNCTION POS. 3	CONNECTED TERMINALS POS. 1	CONNECTED TERMINALS POS. 2	CONNECTED TERMINALS POS. 3	SCHEMATIC
			KEYWAY	KEYWAY	KEYWAY	KEYWAY	KEYWAY	KEYWAY	
SP	7101 (STD.)	U11	ON	NONE	ON	2-3	N/A	2-1	
	7103 (STD.)	U13	ON	OFF	ON	2-3	OPEN	2-1	
	7105	U15	MOM.	OFF	MOM.				
	7107	U17	ON	OFF	MOM.				
	7108	U18	ON	NONE	MOM.	2-3	N/A	2-1	
	7109	U19	NONE	ON	MOM.	N/A	2-3	2-1	SPDT



SPDT

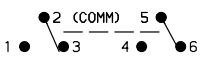




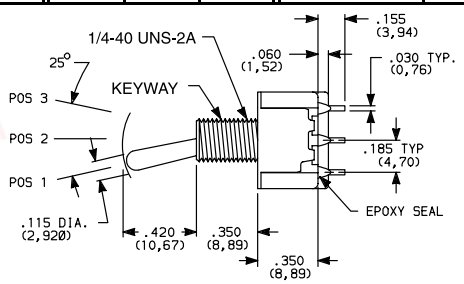
Terminal Numbers For Reference Only

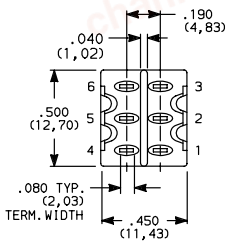
Part number shown: 7101SYZBE

DP	7201 (STD.)	U21	ON	NONE	ON	2-3,5-6	N/A	2-1,5-4	
	7203 (STD.)	U23	ON	OFF	ON	2-3,5-6	OPEN	2-1,5-4	
	7205	U25	MOM.	OFF	MOM.				
	7207	U27	ON	OFF	MOM.				
	7208	U28	ON	NONE	MOM.	2-3,5-6	N/A	2-1,5-4	
	7211 (STD.)*	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





Terminal Numbers For Reference Only

Part number shown: 7201SYZQE

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.

Third Angle Projection

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

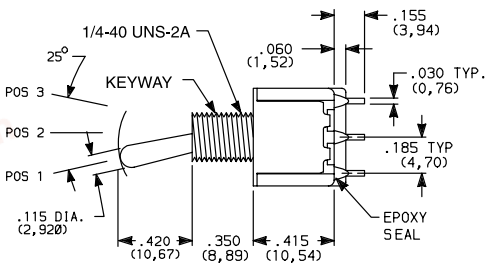
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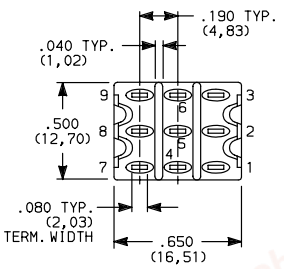
C&K 7000 Series
Miniature Toggle Switches

SWITCH FUNCTION

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

3PDT



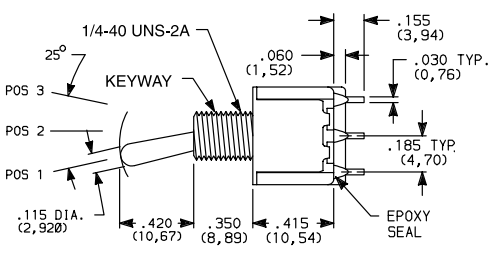


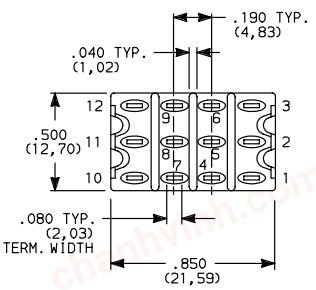
Part number shown: 7301SYZQE

Terminal Numbers For Reference Only

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				
	7405	U45	MOM.	OFF	MOM.	2-3,5-6,8-9,11-12	OPEN	2-1,5-4,8-7,11-10	
	7407	U47	ON	OFF	MOM.				
	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

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, L, M or Q contact material.

F Toggle

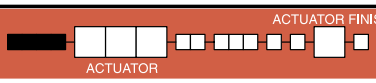
Third Angle Projection

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

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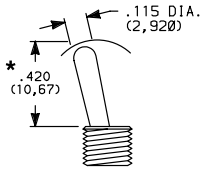
C&K 7000 Series
Miniature Toggle Switches

ACTUATOR



S **(STD.) .420" HIGH** [1]

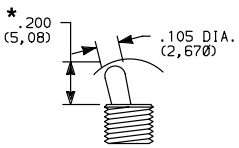
SP ANTIROTATION, .420" HIGH [2, 3]



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]

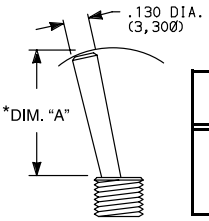
MP ANTIROTATION, .200" HIGH [2, 3]



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]

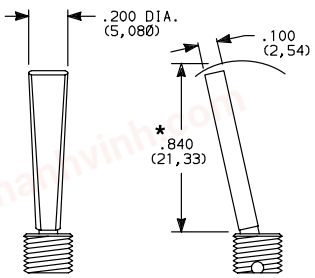
L1P, L2P ANTIROTATION, .840", .640", .550" HIGH [2, 3]



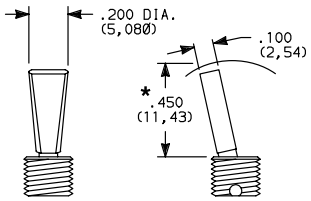
OPTION CODE	DIM. "A"
L	.840 (21,34)
L1, L1P	.640 (16,26)
L2, L2P	.550 (13,97)

Caps are available separately, see page F-16.

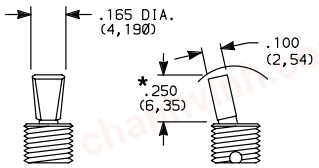
P1 FLATTED WITH ANTIROTATION, .840" HIGH [2, 3]



P3 **(STD.) FLATTED WITH ANTIROTATION, .450" HIGH** [2, 3]



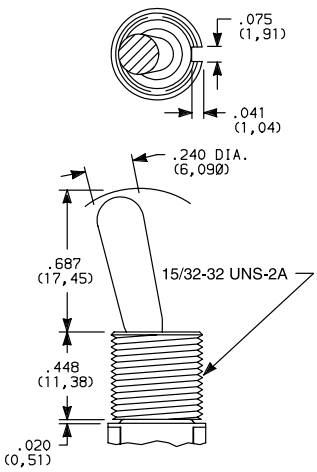
P4 FLATTED WITH ANTIROTATION, .250" HIGH [2, 3]



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

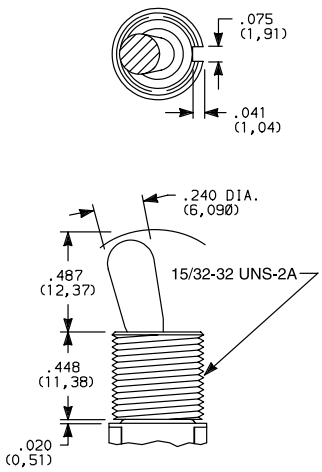
T **(STD.) .687" HIGH** [1, 2]

TP ANTIROTATION, .687" HIGH, 15/32 BUSHING [1, 2, 3]



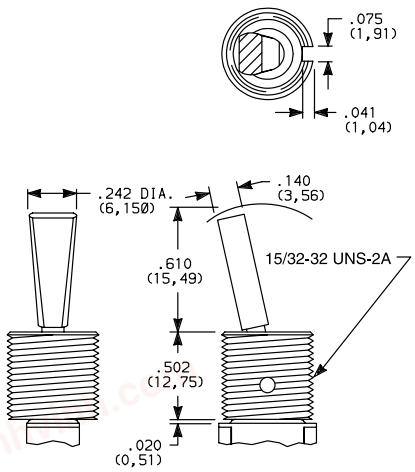
T1 .487" HIGH [1, 2]

T1P ANTIROTATION, .487" HIGH, 15/32 BUSHING [1, 2, 3]



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.

T2P FLATTED, ANTIROTATION, .610" HIGH, 15/32 BUSHING [1, 2, 3]



Bushing option code not required. T2P actuator not available with CW splashproof bushing or single pole models with A-A7, AW-AW4, R 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	**(STD.) BRIGHT CHROME-With Nickel 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.

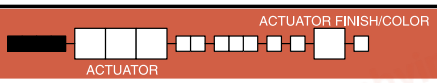
Third Angle Projection

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

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C&K 7000 Series
Miniature Toggle Switches

ACTUATOR

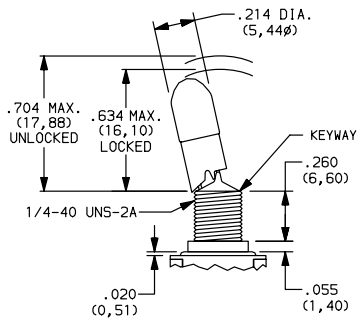


K2 LOCKING LEVER, .704" HIGH (threaded)

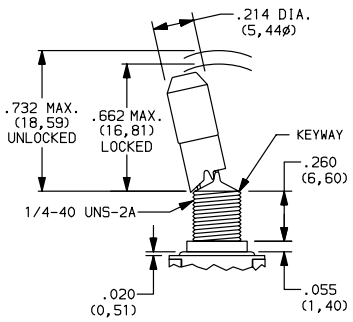
K9 LOCKING LEVER, .704" HIGH (unthreaded)

K12 LOCKING LEVER, .732" HIGH (threaded)

K19 LOCKING LEVER, .732" HIGH (unthreaded)



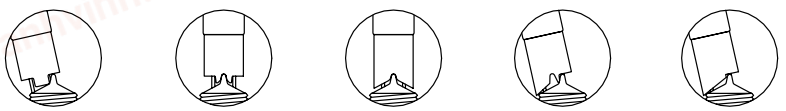
Replaces K, K8



Replaces K1, K18

OPTION CODE	ACTUATOR CAP FINISH
NONE	**(STD.) NATURAL ALUMINUM—With Nickel Plated Bushing**
0	**(STD.) NATURAL ALUMINUM—With Black Bushing**
2	BLACK ANODIZED ALUMINUM
3	RED ANODIZED ALUMINUM
7	BLUE ANODIZED ALUMINUM

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

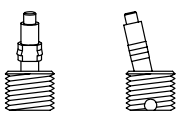
–08 Models
1 Position lock

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.

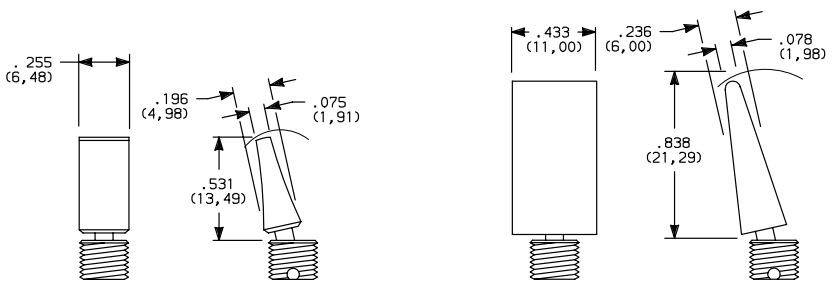
L40 LEVER HANDLE WITHOUT CAP



No color choice required.

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

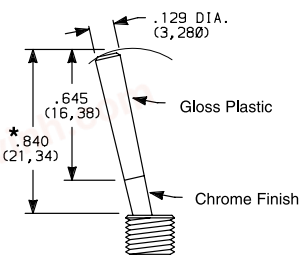
L42 PLASTIC LEVER HANDLE WITH ANTIROTATION AND CAP, P/N 4811



Finish: Matte (L41 & L42).

L3 PLASTIC, .840" HIGH

L3P ANTIROTATION, .840" HIGH



OPTION CODE	PLASTIC ACTUATOR COLORS
NONE	**(STD.) No Actuator Color (L40 option)**
2	**(STD.) BLACK**
1	WHITE
3	RED

NOTE: Lever handle for L41 & L42 actuators supplied, but not installed. For interchangeability, order L40 actuator option and lever handles separately, see page F-17. L4X actuators not available with H4, Y1, Y4 bushings. Antirotation: Provides anti-'push-in' feature on actuator.

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

Third Angle Projection

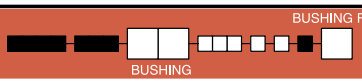
Dimensions are shown: IN (mm)
Dimensions subject to change

F Toggle

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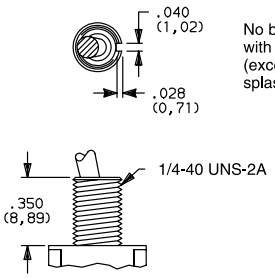
C&K 7000 Series
Miniature Toggle Switches

BUSHING



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

Y9 .350" HIGH, UNTHREADED, KEYWAY



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

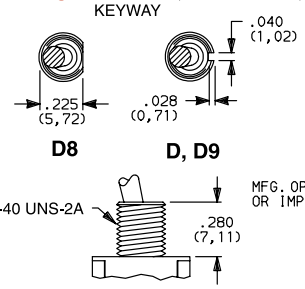
NONE NO BUSHING

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

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

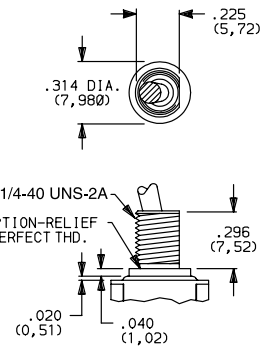
D8 .280" HIGH, UNTHREADED, FLAT [3]

D9 .280" HIGH, UNTHREADED, KEYWAY

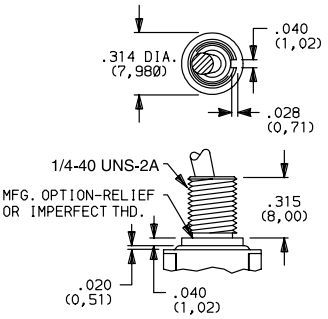


D9 bushing standard with all terminations except C, W-W5, Z or Z3. Add .070 (1,78) to all actuators lengths with D, D8 & D9 bushings.

H **(STD.) .296" HIGH, FLAT, THREADED, HIGH TORQUE [1, 2]**

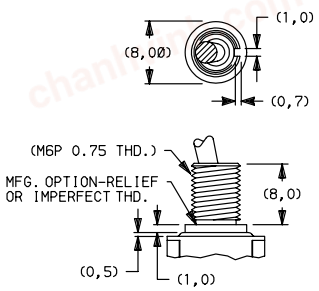


H3 .315" HIGH, KEYWAY, THREADED, HIGH TORQUE [1, 2]

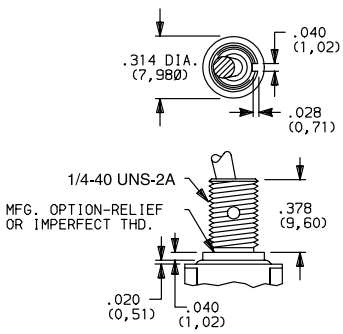


Subtract .020 (0,51) from all actuator lengths for H3 bushing.

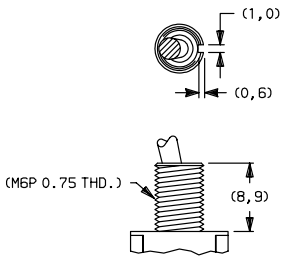
H4 8mm HIGH, KEYWAY, THREADED, METRIC HIGH TORQUE [1, 2, 3]



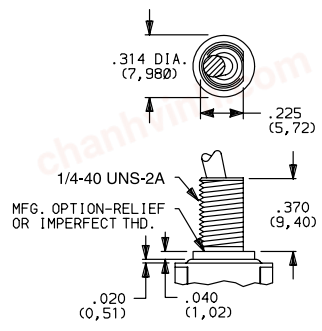
Y1 .378" HIGH, KEYWAY, THREADED, HIGH TORQUE [1, 2, 4]



Y3 8.9mm HIGH, KEYWAY, THREADED, METRIC

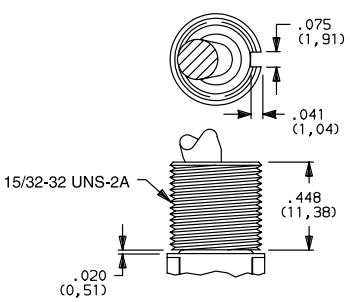


Y4 .378" HIGH, FLAT, THREADED, HIGH TORQUE [1, 2, 5]



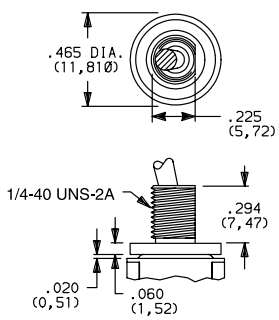
CW THREADED, SPLASHPROOF [1, 2]

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.

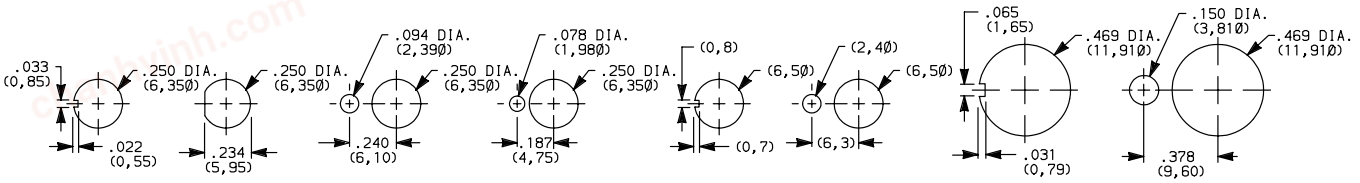
[4] Y1 bushing available only with LP, LXP, MP, PX & SP actuators.

[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

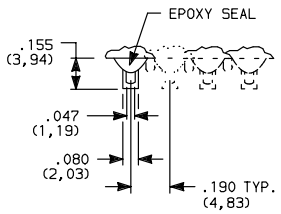
Dimensions are shown: IN (mm)
Dimensions subject to change

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C&K 7000 Series
Miniature Toggle Switches

TERMINATIONS

Z (STD.) SOLDER LUG

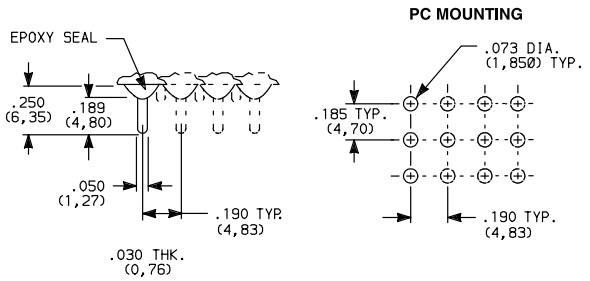


.030 (0,76) Thk.

SPDT thru 4PDT

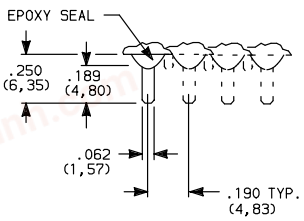
Not available with K, L or M contact materials.

C (STD.) PC THRU-HOLE



SPDT thru 4PDT

Z3 QUICK CONNECT

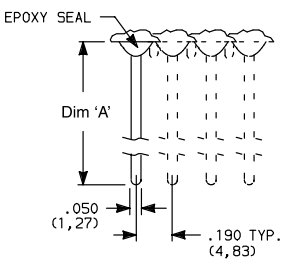


.030 (0,76) Thk.

SPDT thru 4PDT

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

W, W1, W3, W4, W5 WIRE WRAP

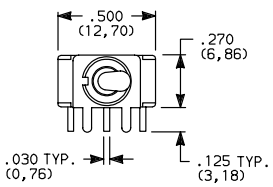


.030 (0,76) Thk.

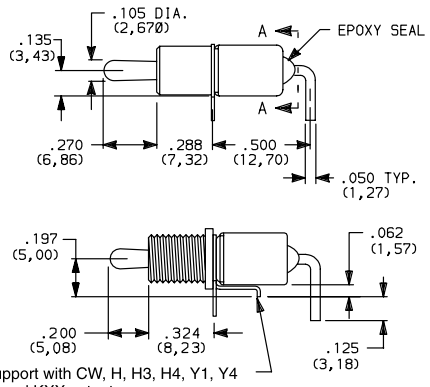
OPTION CODE	DIM 'A'
W	.750 (19,05)
W1	.964 (24,48)
W3	.425 (10,80)
W4	1.062 (26,97)
W5	1.305 (33,15)

SPDT thru 4PDT

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

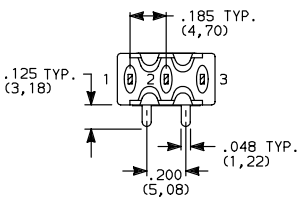


Actuator Shown
In Pos. 1



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

Part No. Shown: 7101MHABE



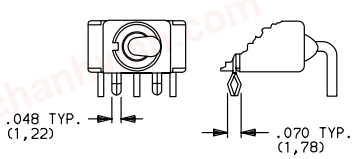
SECTION A-A

Terminal Nos.
For Reference Only

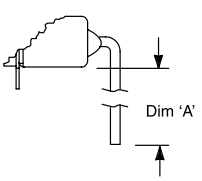


7101MD9ABE
Horizontal Actuation
SPDT

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

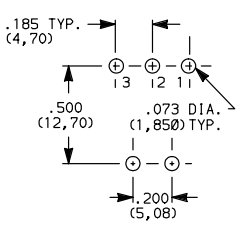


AW1, AW3, AW4 RIGHT ANGLE, EXTENDED, PC THRU-HOLE



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.

Third Angle Projection

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

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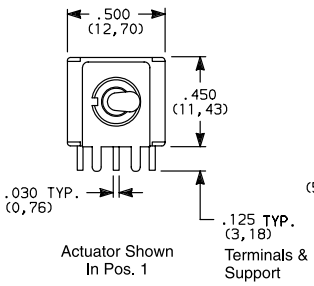
C&K 7000 Series
Miniature Toggle Switches

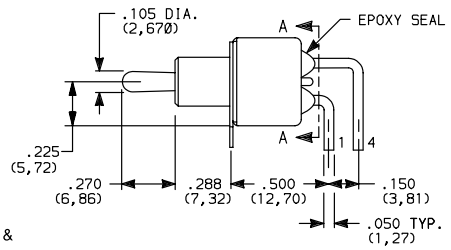
TERMINATIONS

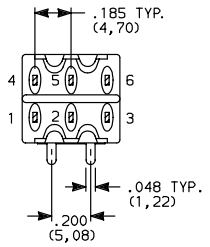
A (STD.) RIGHT ANGLE, PC THRU-HOLE



7201MD9ABE
Horizontal Actuation
DPDT

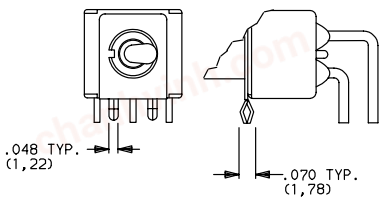




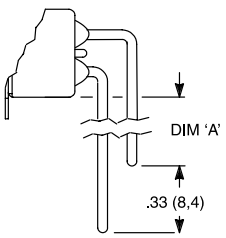


SECTION A-A

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

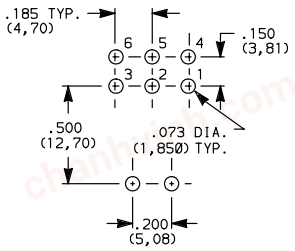


AW1, AW4 RIGHT ANGLE, EXTENDED, PC THRU-HOLE



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

PC MOUNTING

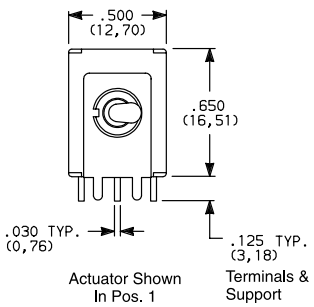


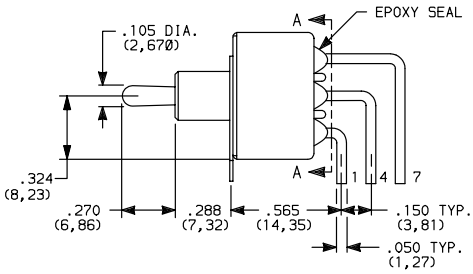
Not available with I seal option.
Terminal bend radii and lead-in manufacturing option.

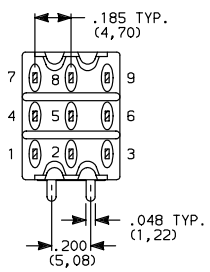
A (STD.) RIGHT ANGLE, PC THRU-HOLE



7301MD9ABE
Horizontal Actuation
3PDT

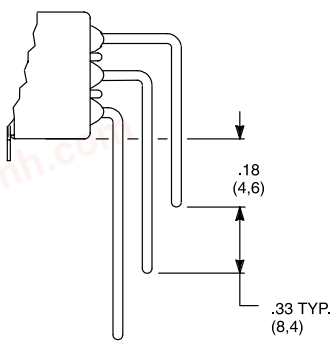




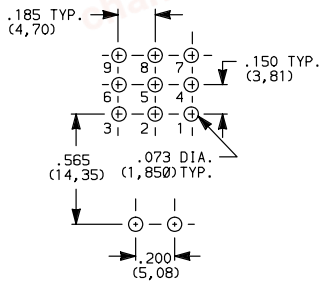


SECTION A-A

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

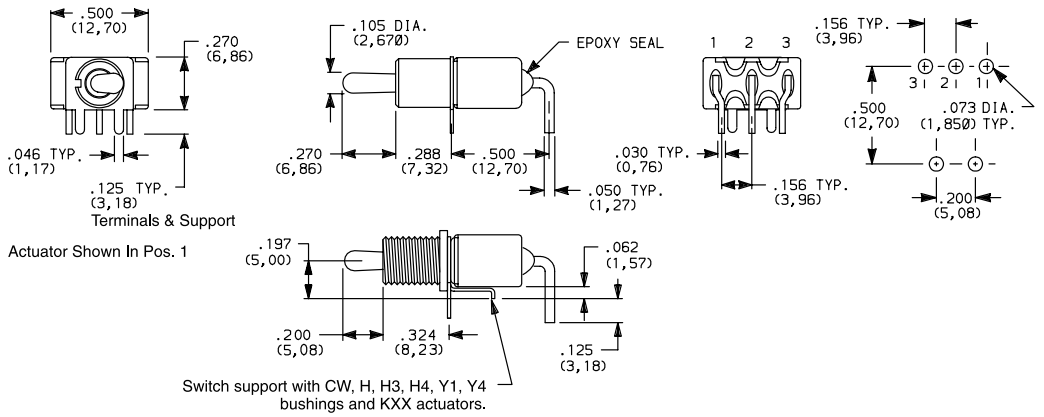
Dimensions are shown: IN (mm)
Dimensions subject to change

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C&K 7000 Series
Miniature Toggle Switches

TERMINATIONS

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



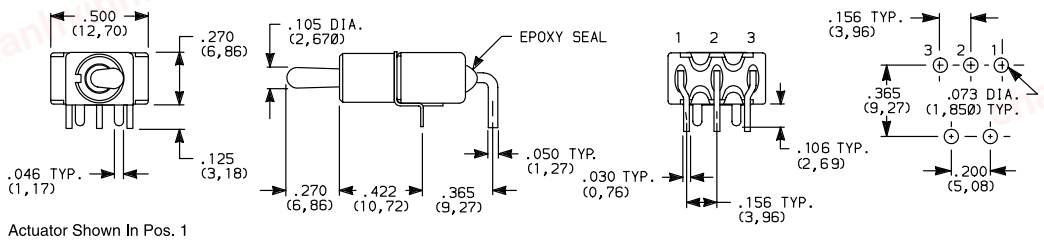
Part No. Shown: 7101MHA2BE



7101MHA2BE
Horizontal Actuation
SPDT

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

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



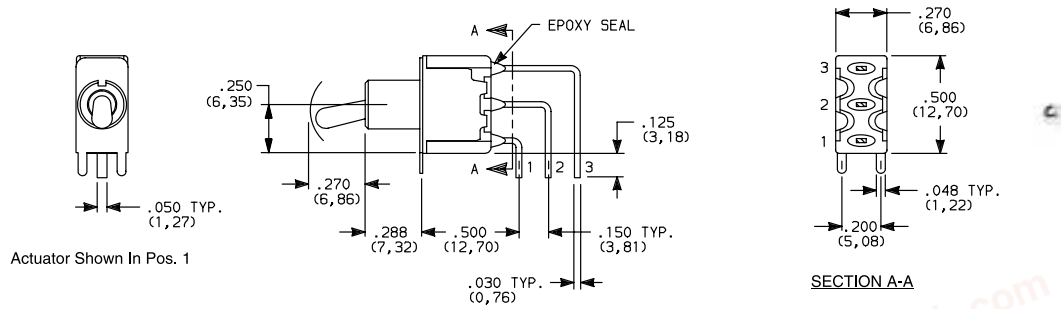


7101MD9A4BE
Horizontal Actuation
SPDT

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.

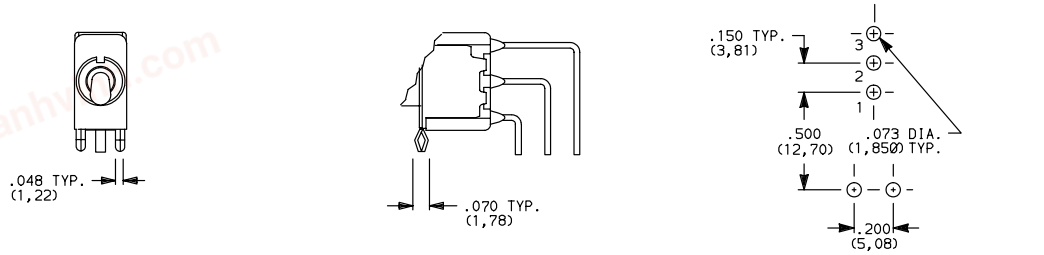
AV2 (STD.) VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH





7101MD9AV2BE
Vertical 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

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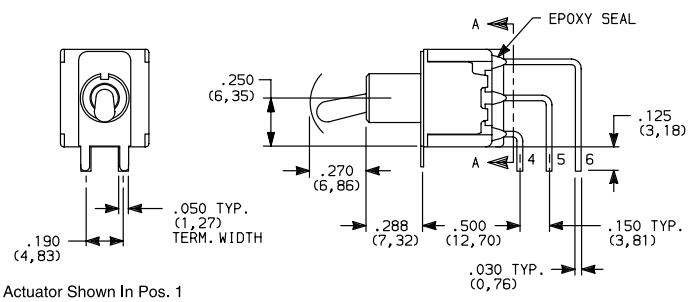
C&K 7000 Series
Miniature Toggle Switches

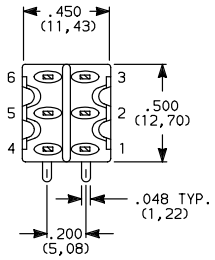
TERMINATIONS

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



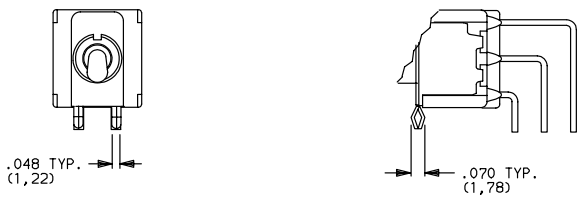
7201MD9AV2BE
Vertical Actuation
DPDT



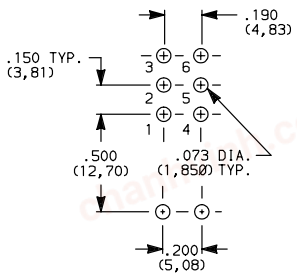


SECTION A-A

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



PC MOUNTING

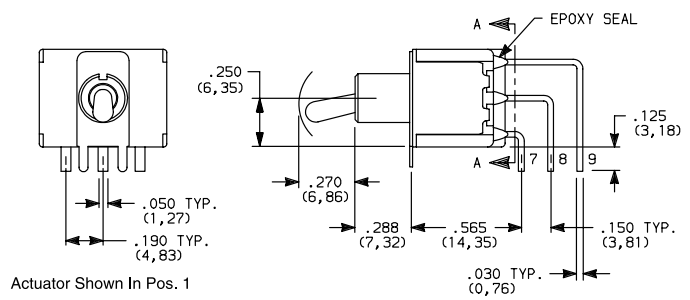


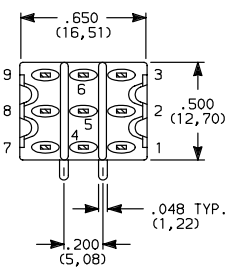
Not available with I seal option.
Terminal bend radii and lead-in manufacturing option.

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



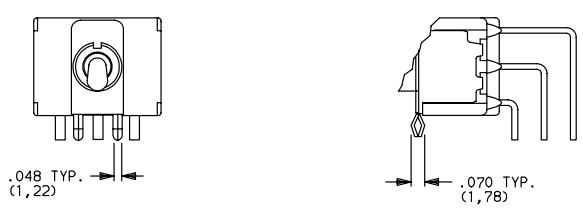
7301MD9AV2BE
Vertical Actuation
3PDT



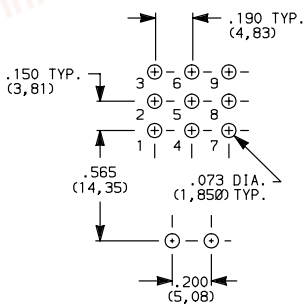


SECTION A-A

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



PC MOUNTING



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

Third Angle Projection

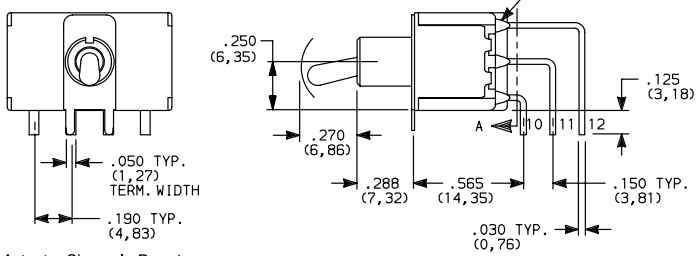
Dimensions are shown: IN (mm)
Dimensions subject to change

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C&K 7000 Series
Miniature Toggle Switches

TERMINATIONS

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



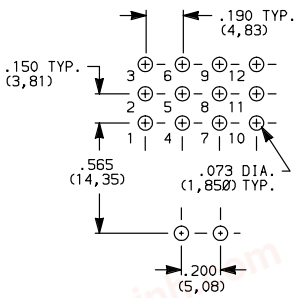


7401MD9AV2BE
Vertical Actuation
4PDT

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

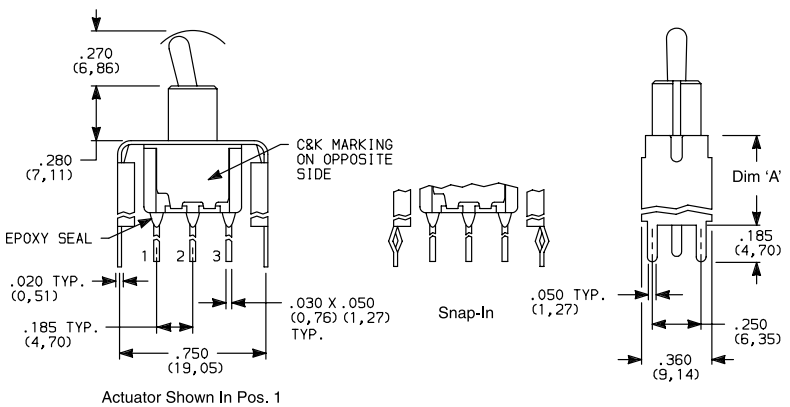


PC MOUNTING

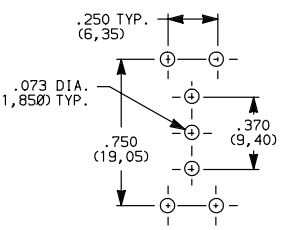


Not available with I seal option.
Terminal bend radii and lead-in manufacturing option.

V2, V6, V7, V8 VERTICAL MOUNT, V-BRACKET
V21, V61, V71, V81 VERTICAL MOUNT, V-BRACKET, SNAP-IN



PC MOUNTING



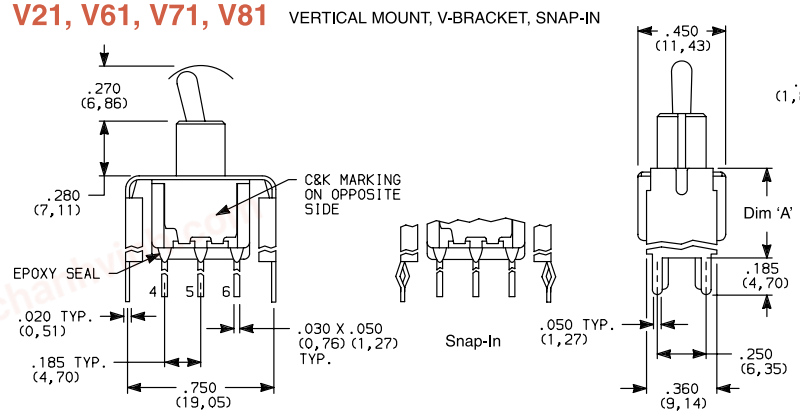


7101MD9__BE
SPDT

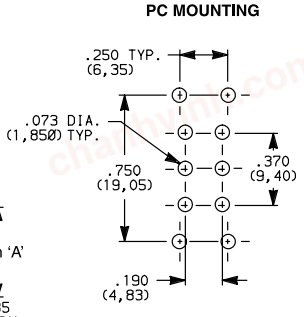
OPTION CODE	DIM 'A'
V2, V21	.555 (14,10)
V6, V61	.460 (11, 68)
V7, V71	.630 (16, 00)
V8, V81	.953 (24, 21)

Not available with I seal option.

V2, V6, V7, V8 VERTICAL MOUNT, V-BRACKET
V21, V61, V71, V81 VERTICAL MOUNT, V-BRACKET, SNAP-IN



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

Not available with I seal option.

Third Angle Projection

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

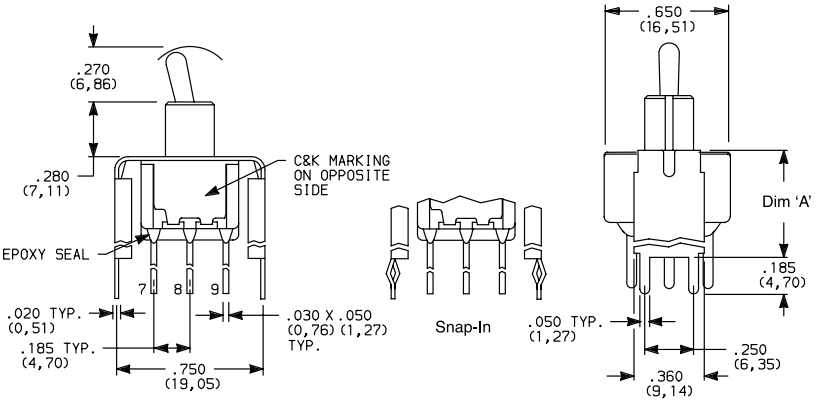
C&K 7000 Series
Miniature Toggle Switches

TERMINATIONS

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

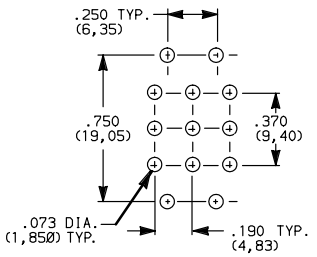


7301MD9__BE
3PDT



Actuator Shown In Pos. 1

PC MOUNTING



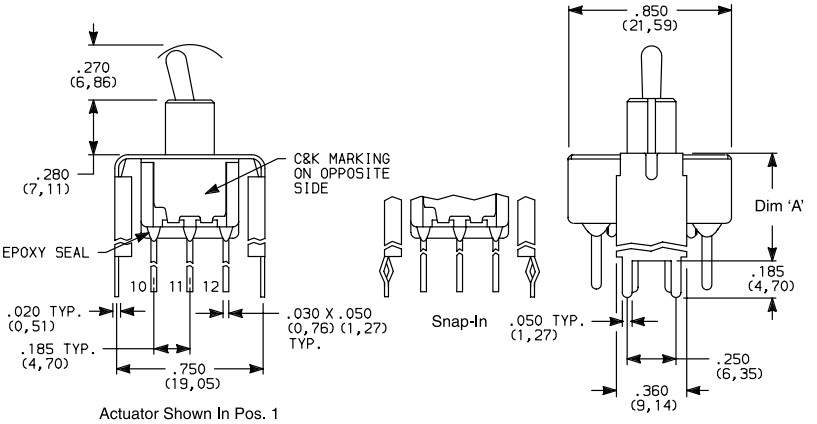
OPTION CODE	DIM 'A'
V2, V21	.555 (14,10)
V7, V71	.630 (16, 00)
V8, V81	.953 (24, 21)

Not available with I seal option.

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

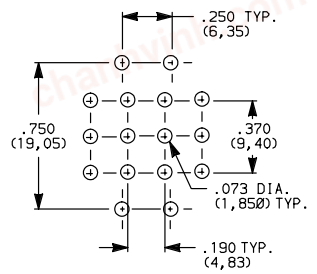


7401MD9__BE
4PDT



Actuator Shown In Pos. 1

PC MOUNTING



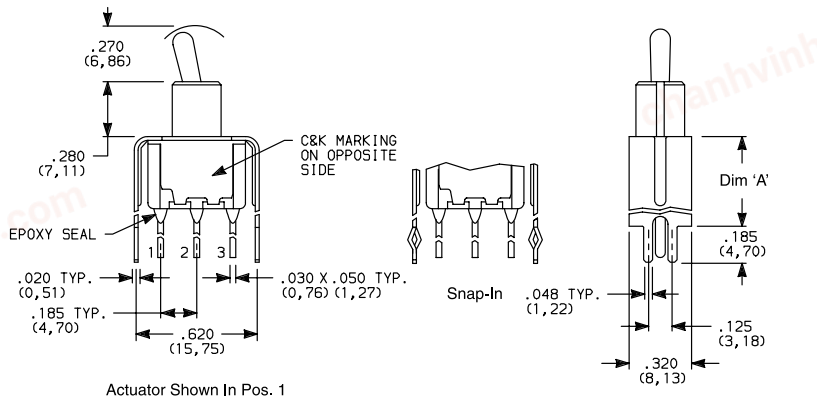
OPTION CODE	DIM 'A'
V2, V21	.555 (14,10)
V7, V71	.630 (16, 00)
V8, V81	.953 (24, 21)

Not available with I seal option.

V3 (STD.), V4, V9 VERTICAL MOUNT, V-BRACKET
V31, V41 VERTICAL MOUNT, V-BRACKET, SNAP-IN

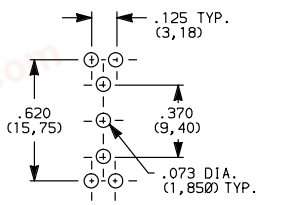


7101MD9__BE
SPDT



Actuator Shown In Pos. 1

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.

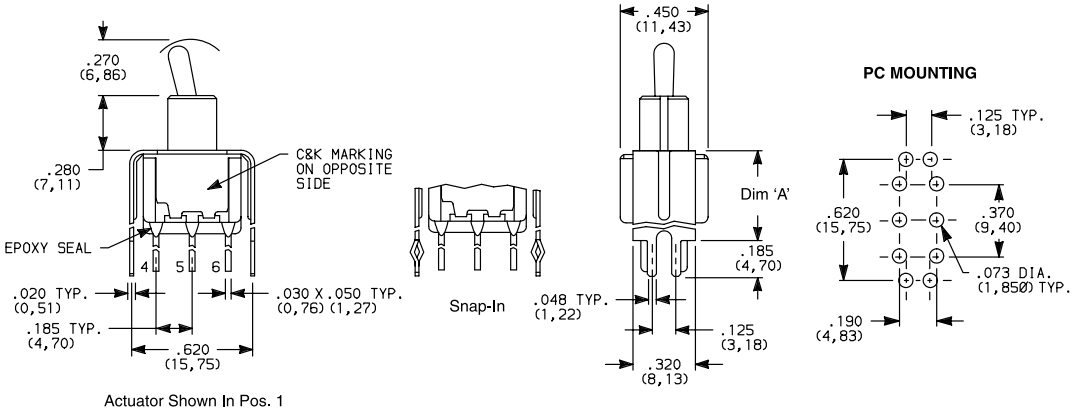
Third Angle Projection

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

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TERMINATIONS

V3 (STD.), V4, V9 VERTICAL MOUNT, V-BRACKET
V31, V41 VERTICAL MOUNT, V-BRACKET, SNAP-IN



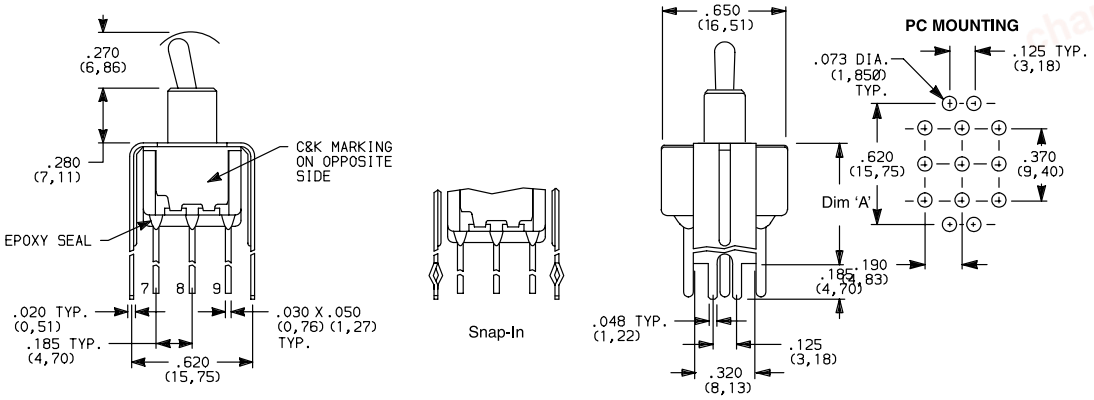


7201MD9__BE
DPDT

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



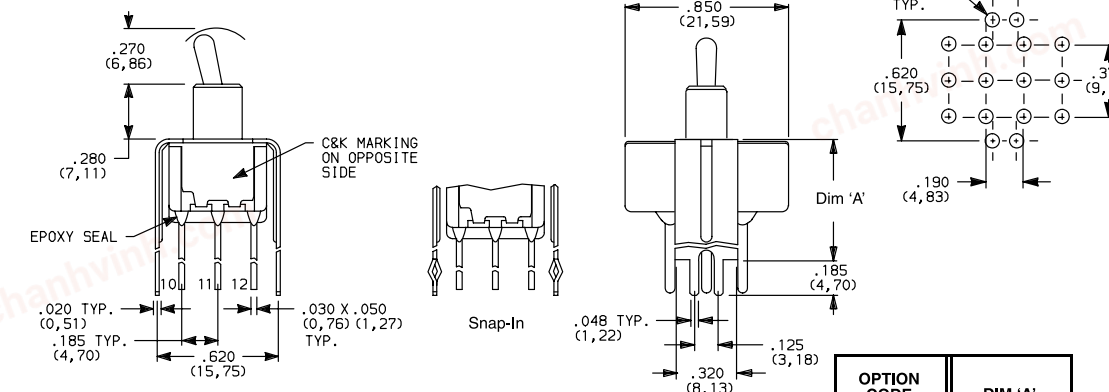


7301MD9__BE
3PDT

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





7401MD9__BE
4PDT

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

Not available with I seal option.

Third Angle Projection

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

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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.

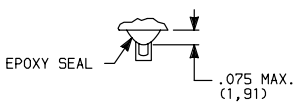
B contact material must be ordered with A7 & R terminations.

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

K, L & M contact materials not available with Z & Z3 terminations.

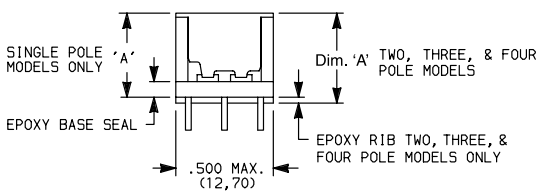
SEAL

E **(STD.) EPOXY SEAL**



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

I EPOXY POTTED BASE

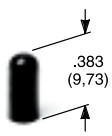


NO. POLES	DIM 'A'
SP	.410 (10,41)
DP	.440 (11,18)
3P	.505 (12,83)
4P	.505 (12,83)

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

AVAILABLE HARDWARE

Cap

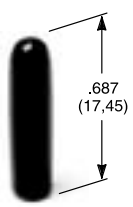


PART NO.

896801000 WHITE
896802000 BLACK
896803000 RED

Material: Polyethylene
Finish: Matte

Cap



PART NO.

763701000 WHITE
763702000 BLACK
763703000 RED

Material: Vinyl
Finish: Matte

Cap



PART NO.

706201000 WHITE
706202000 BLACK
706203000 RED

Material: Vinyl
Finish: Matte

F

Toggle

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AVAILABLE HARDWARE

L41 Lever handle

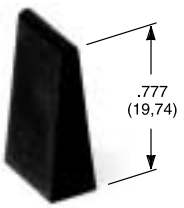


PART NO.

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.