

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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#### 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





#### **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 m  $\Omega$  typ. initial @2-4 V DC, 100 mA, for both silver and gold plated contacts.

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

DIELECTRIC STRENGTH: 1000 Vrms min. @sea level. OPERATING TEMPERATURE: -30°C to 85°C.

SOLDERABILITY: Per MIL-STD-202F method 208D, or EIA RS-186E method 9 (1 hour steam aging).

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

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 **Bushing** (STD.) .280 high, keyway **Contact Material** 7101 (STD.) SP On-None-On D Actuator -7103 (STD.) SP On-Off-On Н (STD.) .296 high, flat (STD.) Gold M (STD.) .200" high Q (STD.) Silver Seal 7105 SP Mom.-Off-Mom. (STD.).350 high, keyway P3 (STD.) Flatted, anti-rotation, E (STD.) Epoxy Gold, tin-lead 7107 SP On-Off-Mom. NONE No bushing .450" high 7108 SP On-None-Mom. choice required Silver, tin-lead Epoxy potted (STD.) .420" high 7109 SP None-On-Mom. **CW** Splashproof G Gold over silver hase (STD.) .687" high, 15/32 bushing 7201 (STD.) DP On-None-On D8 .280" high, flat Gold over silver, tin-lead K2 Locking lever, 704" high Actuator Color/Finish 7203 (STD.) DP On-Off-On .280" high, keyway K9 Locking lever, .704" high 7205 DP Mom.-Off-Mom. **H3** .315" high, keyway NONE (STD.) Bright chrome K12 Locking lever, .732" high 7207 DP On-Off-Mom. **H4** 8mm high, keyway (STD) Actuator finish K19 Locking lever, .732" high 7208 DP On-None-Mom. **Y**1 .378" high, keyway with black bushing .840" high **Y3** 7211 (STD.) DP On-On-On 8.9mm high, keyway White L1 .640" high **Y**4 7213 DP On-On-Mom. .378" high, flat 2 Black L1P Anti-rotation, .640" high 7215 DP Mom.-On-Mom. **Y9** .350" high, keyway 3 Red L2 .550" high 7301 (STD.) 3P On-None-On S Satin chrome L2P Anti-rotation, .550" high **Terminations** 7303 3P On-Off-On KXX Actuator Color/Finish L3 Plastic, .840" high (STD.) Right angle, PC thru-hole 7305 3P Mom - Off-Mom NONE (STD.) Natural aluminum L3P Plastic, anti-rotation. ΔV2 (STD.) Vert. right angle, PC thru-hole **7307** 3P On-Off-Mom. (STD) Natural aluminum .840" high (STD.) PC Thru-hole 7308 3P On-None-Mom. with black bushing L40 Lever handle without cap V3 (STD.) .460 high, V-bracket 7401 (STD.) 4P On-None-On Black anodized aluminum L41 .531" high lever handle with cap Z (STD.) Solder lug 7403 4P On-Off-On Red anodized aluminum L42 .838" high lever handle with cap **A2** Right angle, PC thru-hole 7405 4P Mom.-Off-Mom. MP Anti-rotation, .200" high Blue anodized aluminum **A3** Right angle, PC thru-hole 7407 4P On-Off-Mom. **Bushing Finish** P1 Flatted, anti-rotation, Right angle, PC thru-hole 7408 4P On-None-Mom. .840" high NONE (STD.) Nickel on all AV3 Vert. right angle, PC thru-hole 7411 4P On-On-On P4 Flatted, anti-rotation, AW1 Right angle, extended, PC thru-hole 7413 4P On-On-Mom. .250" high AW3 Right angle, extended, PC thru-hole 7415 4P Mom.-On-Mom. Anti-rotation, .420" high AW4 Right angle, extended, PC thru-hole Note: UL/CSA models available. T1 .487" high, 15/32 bushing **V2** .555" high, V-bracket V61 .460" high, snap-in V-bracket see pages F-4 & F-5. T1P Anti-rotation, .487" high, V4 .630" high, V-bracket V71 .630" high, snap-in V-bracket

V6

**V7** 

**V8** 

V9

V21

.460" high, V-bracket

.630" high, V-bracket

.953" high, V-bracket

1.150" high, V-bracket

V31 460" high, snap-in V-bracket

V41 .630" high, snap-in V-bracket

F-3

.555" high, snap-in V-bracket

**ITT** Industries

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

15/32 bushing

T2P Flatted, anti-rotation,

15/32 bushing

.610" high, 15/32 bushing,

Anti-rotation, .687" high,

bushings (except D8

satin chrome)

V81 .953" high, snap-in V-bracket

.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

W

## **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.

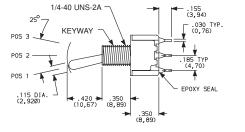
**NOTE:** Materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

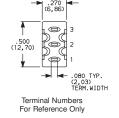
## **SWITCH FUNCTION**

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			sw	ITCH FUNCT	ION	CON	NECTED TERMI	NALS	
			POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3	
NO.		UL/CSA** MODEL	KEYWAY 7	KEYWAY 7	KEYWAY 7	KEYWAY 7	KEYWAY 7	KEYWAY 7	
POLES	MODEL NO.	NO.							SCHEMATIC
	7101 (STD.)	U11	ON	NONE	ON	2-3	N/A	2-1	
	7103 (STD.)	U13	ON	OFF	ON				
SP	7105	U15	мом.	OFF	MOM.	2-3	OPEN	2-1	●2 (COMM)
58	7107	U17	ON	OFF	MOM.				1 • • 3
	7108	U18	ON	NONE	MOM.	2-3	N/A	2-1	
	7109	U19	NONE	ON	MOM.	N/A	2-3	2-1	SPDT

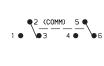
**SPDT** 



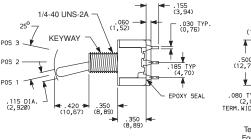


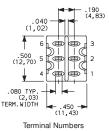
Part number shown: 7101SYZBE

	7201 (STD.)	U21	ON	NONE	ON	2-3,5-6	N/A	2-1,5-4	
	7203 (STD.)	U23	ON	OFF	ON				
	7205	U25	мом.	OFF	MOM.	2-3,5-6	OPEN	2-1,5-4	
D.D.	7207	U27	ON	OFF	MOM.				
DP	7208	U28	ON	NONE	MOM.	2-3,5-6	N/A	2-1,5-4	1 (
	7211 (STD.)*	U211*	ON	ON	ON				
	7213*	U213*	ON	ON	MOM.	2-3,5-6	2-3,5-4	2-1,5-4	
	7215*	U215*	MOM.	ON	MOM.				DPDT



**DPDT** 





Part number shown: 7201SYZQE

MOM. = Momentary

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

**ITT Industries** 

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



F-4





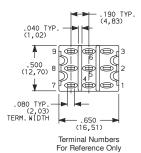
Dimensions are shown: IN (mm)
Dimensions subject to change



Cannon

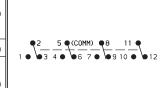
			SWI	TCH FUNCT	TION	CON	NECTED TERMIN	ALS	
			POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3	
NO. POLES	MODEL NO.	UL/CSA** MODEL NO.	KEYWAY	KEYWAY 7	KEYWAY 7	KEYWAY 7	KEYWAY 7	KEYWAY 7	SCHEMATIC
	7301 (STD.)	U31	ON	NONE	ON	2-3,5-6,8-9	N/A	2-1,5-4,8-7	
	7303	U33	ON	OFF	ON				•2 5 • (COMM) 8 •
3P	7305	U35	мом.	OFF	мом.	2-3,5-6,8-9	OPEN	2-1,5-4,8-7	1 • 3 4 • 6 7 • 9
	7307	U37	ON	OFF	мом.				
	7308	U38	ON	NONE	MOM.	2-3,5-6,8-9	N/A	2-1,5-4,8-7	3PDT

3PDT 1/4-40 UNS-2A -.030 TYP. (0,76) KEYWAY EPOXY SEAL .115 DIA. .350 **4** .415 **3** (8,89) (10,54)

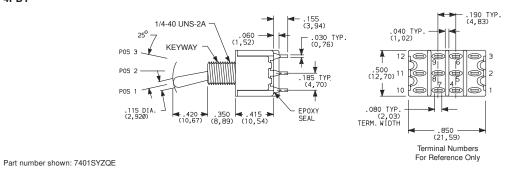


Part number shown: 7301SYZQE

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	мом.	OFF	мом.	2-3,5-6,8-9,11-12	OPEN	2-1,5-4,8-7,11-10
7407	U47	ON	OFF	мом.			
7408	U48	ON	NONE	мом.	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	мом.	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*	мом.	ON	мом.			
	7403 7405 7407 7408 7411* 7413*	7403 U43 7405 U45 7407 U47 7408 U48 7411* U411* 7413* U413*	7403 U43 ON 7405 U45 MOM. 7407 U47 ON 7408 U48 ON 7411* U411* ON 7413* U413* ON	7403 U43 ON OFF 7405 U45 MOM. OFF 7407 U47 ON OFF 7408 U48 ON NONE 7411* U411* ON ON 7413* U413* ON ON	7403         U43         ON         OFF         ON           7405         U45         MOM.         OFF         MOM.           7407         U47         ON         OFF         MOM.           7408         U48         ON         NONE         MOM.           7411*         U411*         ON         ON         ON           7413*         U413*         ON         ON         MOM.	7403         U43         ON         OFF         ON           7405         U45         MOM.         OFF         MOM.           2-3,5-6,8-9,11-12           7407         U47         ON         OFF         MOM.           7408         U48         ON         NONE         MOM.         2-3,5-6,8-9,11-12           7411*         U411*         ON         ON         ON           7413*         U413*         ON         ON         MOM.         2-3,5-6,8-9,11-12	7403         U43         ON         OFF         ON           7405         U45         MOM.         OFF         MOM.           2-3,5-6,8-9,11-12         OPEN           7407         U47         ON         OFF         MOM.           7408         U48         ON         NONE         MOM.         2-3,5-6,8-9,11-12         N/A           7411*         U411*         ON         ON         ON         ON         2-3,5-6,8-9,11-12         2-3,5-4,8-9,11-10



4PDT



MOM. = Momentary

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

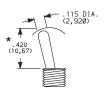
\*\* U11–U415 model nos. \*\* With all options when ordered with G, L, M or Q contact material.





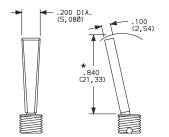


Dimensions subject to change



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

FLATTED WITH ANTIROTATION, .840" HIGH <sup>2,3</sup>



M (STD.) .200" HIGH <sup>1</sup>

ACTUATOR \_\_\_\_

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.

.450" HIGH 2,3

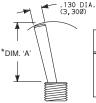


\_\_\_\_

L, L1, L2 L1P, L2P

.840", .640", .550" HIGH 1

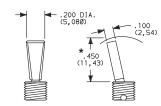
ANTIROTATION, .840", .640", .550" HIGH <sup>2,3</sup>



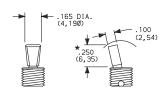
OPTION CODE	DIM 'A'
L	.840 (21,34)
L1, L1P	.640 (16,26)
L2, L2P	.550 (13,97)

Caps are available separately, see page F-16.

FLATTED WITH ANTIROTATION, .250" HIGH <sup>2,3</sup>



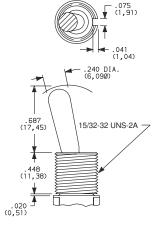
(STD.) FLATTED WITH ANTIROTATION,



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

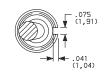
(STD.) .687" HIGH 1,2

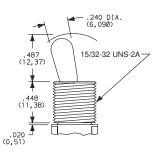
ANTIROTATION, .687" HIGH, 15/32 BUSHING 1,2,3



.487" HIGH 1,2

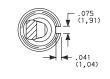
T<sub>1</sub>P ANTIROTATION, .487" HIGH, 15/32 BUSHING 1,2,3

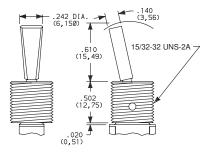




Bushing option code not required unless CW splashproof bushing ordered. TP & T1P actuators not available with CW splashproof bushing. All TXX actuators not available on single pole models with A-A7, AW-AW4, R terminations. T<sub>2</sub>P

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.

- <sup>1</sup> L, L1, L2, M, S & TXX actuators not available
- $^2$  L1P, L2P, MP, P1, P3, P4, SP & TXX actuators not available with D8 & H4 bushing.
- <sup>3</sup> Antirotation: Provides anti-'push-in' feature on
- \* 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

F-6

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



Cannon

.634 MAX

UNI OCKED

1/4-40 UNS-2A

(16, 10)

LOCKED

.020-

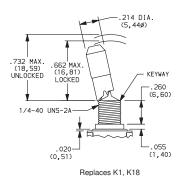
(threaded) K9 LOCKING LEVER, .704" HIGH (unthreaded)

.214 DIA. (5,44ø)

KEYWAY

(6,60)

(1.40)



ACTUATOR -

(threaded)

(unthreaded)

LOCKING LEVER, .732" HIGH

LOCKING LEVER, .732" HIGH

**K12** 

K19

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

## **Locking Positions**





LEVER HANDLE WITHOUT CAP

Replaces K, K8





-07 & -13 Models



-08 Models

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.

+ .433 + (11,00)

Bushing option code not required unless CW splashproof bushing ordered.

L40

-01 Models 2 Position lock

-03 & -11 Models 3 Position lock

-05, -09 & -15 Models

PLASTIC LEVER HANDLE WITH

ANTIROTATION AND CAP, P/N 4810



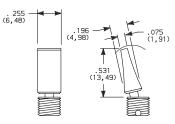
PLASTIC LEVER HANDLE WITH ANTIROTATION AND CAP, P/N 4811

.838 (21,29)





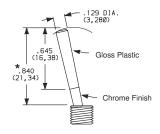
No color choice required.



Finish: Matte (L41 & L42).

#### L3 PLASTIC. .840" HIGH

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.

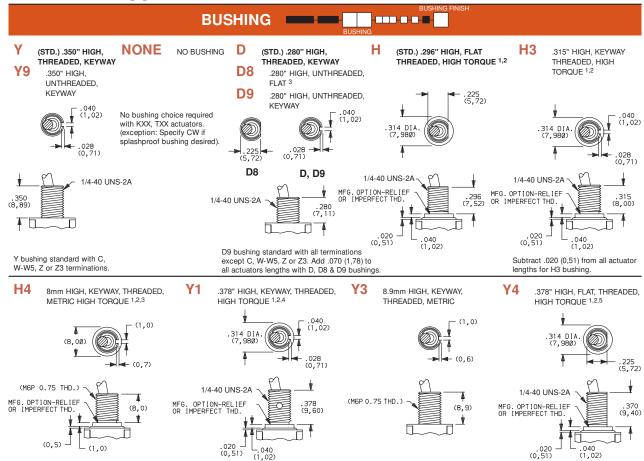


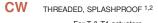


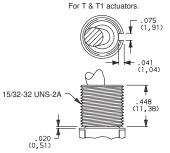
.078 (1,98)

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

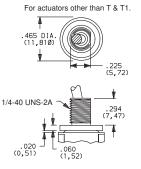
F-7







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.

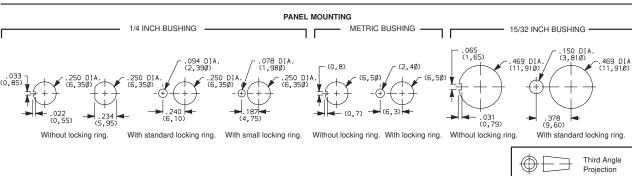


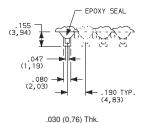
IP67 Degree of protection, totally protected against dust, full-scale voltage protection, temporary immersion. Internal actuator seal and external bushing seal washer standard.

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

- <sup>1</sup> 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.
- <sup>3</sup> D8 & H4 bushings available only with L, L1, L2, L3, M & S actuators.
- <sup>4</sup> Y1 bushing available only with LP, LXP, MP, PX & SP actuators.
- $^{\rm 5}$  Y4 bushing not available with L4X actuators.

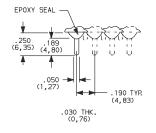
NOTE: Two mounting nuts, locking ring and lockwasher supplied standard with threaded bushings. Black hardware is supplied when either black bushings or actuators are specified. Optional mounting nut and locking ring styles and finishes available, see section N.



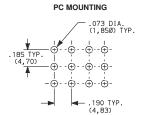


.030 (0,76) Thk.

(STD.) PC THRU-HOLE



-0-0-



SPDT thru 4PDT

QUICK CONNECT

EPOXY SEAL

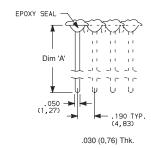
.250 (6,35)

**Z**3

Not available with K, L or M contact materials

SPDT thru 4PDT

W, W1, W3, W4, W5



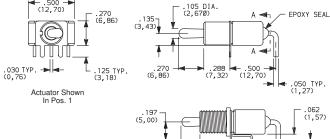
OPTION CODE	DIM 'A'
W	.750 (19,05)
W1	.964 (24,48)
W3	.425 (10,80)
W4	1.062 (26,97)
W5	1.305 (33,15)

SPDT thru 4PDT

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

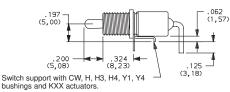
SPDT thru 4PDT

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



.070 TYP.

.190 TYP. (4,83)



.185 TYP. .125 TYP. .048 TYP. 200 (5,08) SECTION A-A



Terminal Nos. For Reference Only

Horizontal Actuation **SPDT** 

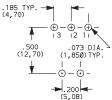
Part No. Shown: 7101MHABE

**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)



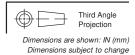






.048 TYP. (1,22)

Cannon



www.ittcannon.com

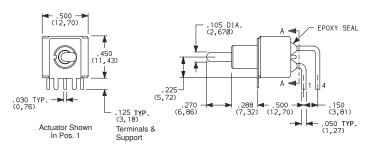
Dim 'A'

(STD.) RIGHT ANGLE, PC THRU-HOLE

## TERMINATIONS ----



7201MD9ABE Horizontal Actuation **DPDT** 

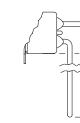


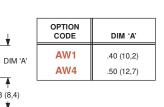
**A3** RIGHT ANGLE, SNAP-IN, PC THRU-HOLE

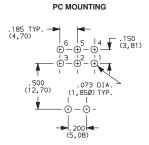
**AW1, AW4** 

RIGHT ANGLE, EXTENDED, PC THRU-HOLE

.33 (8,4)







SECTION A-A

.185 TYP. (4,70)

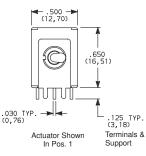
Not available with I seal option. Terminal bend radii and lead-in manufacturing option.

-.070 TYP.

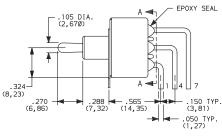
## (STD.) RIGHT ANGLE, PC THRU-HOLE

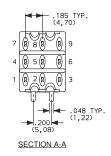


7301MD9ABE Horizontal Actuation 3PDT



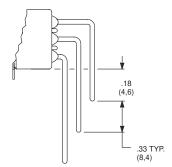
Cannon

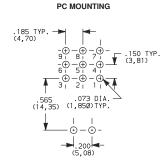






AW4 RIGHT ANGLE, EXTENDED, PC THRU-HOLE





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

**ITT Industries** 

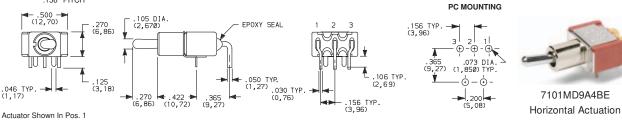


PC MOUNTING

Terminals & Support Actuator Shown In Pos. 1 (5,00) .324 (8,23) 125 (3, 18)Switch support with CW, H, H3, H4, Y1, Y4

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

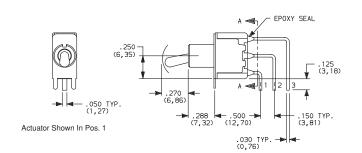
RIGHT ANGLE, PC THRU-HOLE .156" PITCH

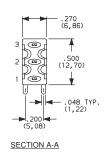


Not available with KXX & TXX actuators, CW, H, H3, H4, Y1 & Y4 bushings, and I seal. Terminal bend radii and lead-in manufacturing option.

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.

#### AV<sub>2</sub> (STD.) VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH







**SPDT** 

7101MHA2BE

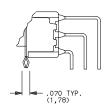
Horizontal Actuation

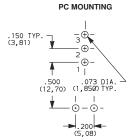
**SPDT** 

7101MD9AV2BE Horizontal Actuation **SPDT** 

#### AV<sub>3</sub> VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, .150" PITCH







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



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Dimensions subject to change

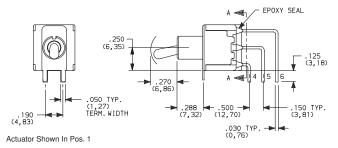
## TERMINATIONS ----

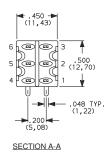
AV2

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



7201MD9AV2BE Vertical Actuation DPDT

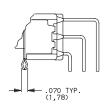


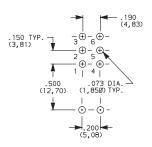


AV3

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







PC MOUNTING

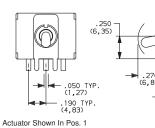
Not available with I seal option. Terminal bend radii and lead-in manufacturing option.

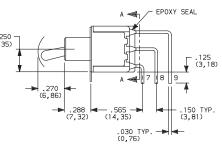
AV2

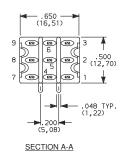
(STD.) VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH



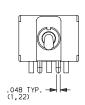
7301MD9AV2BE Vertical Actuation 3PDT

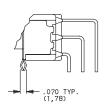


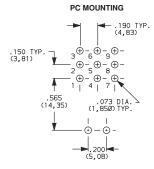




VERTICAL RIGHT ANGLE, SNAP-IN, .150" PITCH







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



Cannon

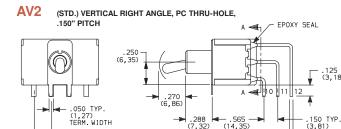


Dimensions are shown: IN (mm) Dimensions subject to change





.125 (3,18)



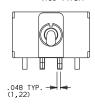
12 (B) B .048 TYP. SECTION A-A

-0-0-



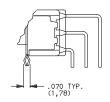
7401MD9AV2BE Vertical Actuation **4PDT** 

AV3 VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



Actuator Shown In Pos. 1

.190 TYP.

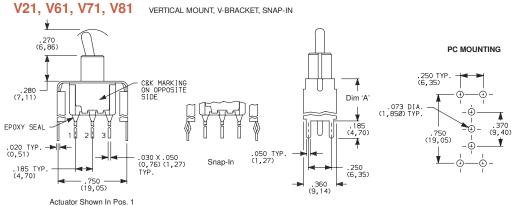


- .565 -(14,35)

PC MOUNTING .150 TYP. . ⊙ – ⊙ -▶. 200 ◄ (5,08)

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

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



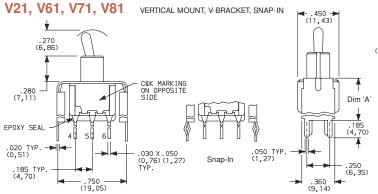


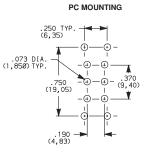
7101MD9 BE **SPDT** 

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



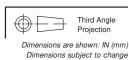




OPTION CODE	DIM 'A'
V2, V21	.555 (14,10)
V6, V61	.460 (11,68)
V7, V71	.630 (16,00)
V8, V81	.953 (24,21)



7201MD9\_BE **DPDT** 



**ITT Industries** 

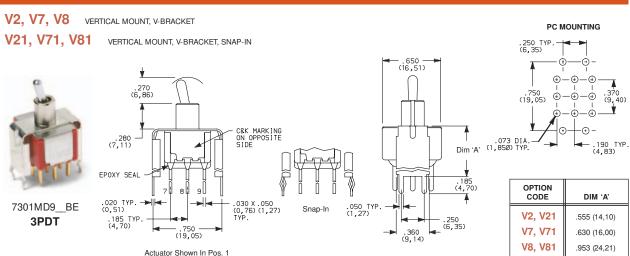
Not available with I seal option.

Actuator Shown In Pos. 1

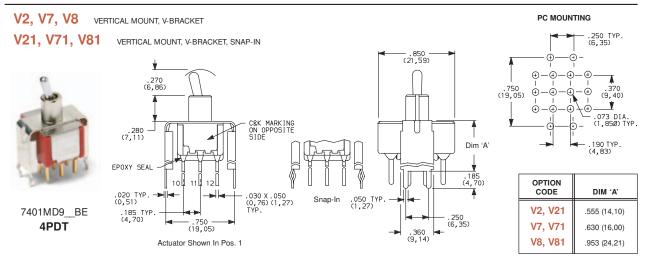
Cannon

F-13

# TERMINATIONS ----



Not available with I seal option.

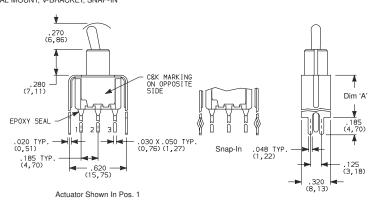


Not available with I seal option

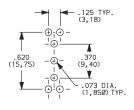




7101MD9\_\_BE **SPDT** 



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.



Cannon

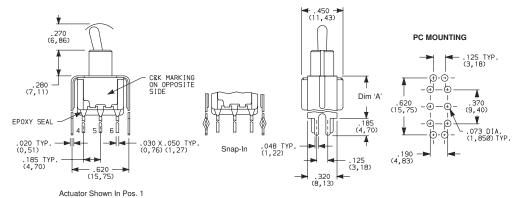


Dimensions are shown: IN (mm)
Dimensions subject to change

# TERMINATIONS ----









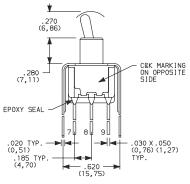
7201MD9\_\_BE **DPDT** 

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

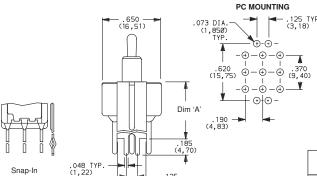
Not available with I seal option.



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



Actuator Shown In Pos. 1



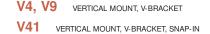
OPTION CODE	DIM 'A'
V4, V41	.630 (16,00)
V9	1.150 (29,21)

7301MD9\_\_BE

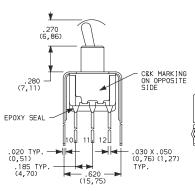
3PDT

Not available with I seal option.

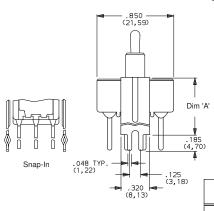


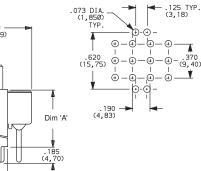


VERTICAL MOUNT, V-BRACKET



Actuator Shown In Pos. 1 Not available with I seal option.









7401MD9 BE **4PDT** 



PC MOUNTING



Third Angle Projection

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



Cannon



# C&K 7000 Series **Miniature Toggle Switches**

## CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
B (STD.)	GOLD <sup>1</sup>	GOLD <sup>1</sup>		
K	GOLD .	TIN-LEAD <sup>6</sup>	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @20 V AC OR DC MAX.
Q (STD.)	OII.VED 45	SILVER 5		5 AMPS @ 120 V AC OR 28 V DC: 2 AMPS @ 250 V AC.
M	SILVER <sup>4,5</sup>	TIN-LEAD <sup>6</sup>	POWER	5 ANNES @ 120 V AC OR 26 V DC, 2 ANNES @ 250 V AC.
G	001 0 01/50 011/50 23	GOLD 3 GOLD 3 0.4 VA MAX @ 20 V AC OR DC MAX OR 5 AMPS @	0.4 VA MAX @20 V AC OR DC MAX OR 5 AMPS @120 V AC OR	
L	GOLD OVER SILVER <sup>2,3</sup>	TIN-LEAD <sup>6</sup>	LOW LEVEL/DRY CIRCUIT OR POWER	28 V DC; 2 AMPS @ 250 V AC.

#### CONTACT MATERIAL/APPLICATION RECOMMENDATIONS-SEE SECTION N.

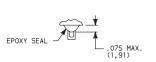
- <sup>1</sup> CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.
- <sup>2</sup> END CONTACTS: Coin silver, with gold plate over nickel plate.
- <sup>3</sup> CENTER CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.
- <sup>4</sup> END CONTACTS: Coin silver, silver plated.
- <sup>5</sup> CENTER CONTACT & ALL TERMINALS: Copper alloy, silver plated.
- <sup>6</sup> TERMINALS: Copper alloy, with tin-lead alloy over nickel plate.

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

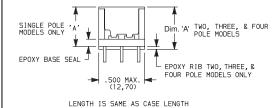
- B contact material standard with all terminations except C, Z & Z3.
- B contact material standard must be ordered with A7 & R terminations. Q contact material standard with C, Z & Z3 terminations.
- K, L & M contact materials not available with Z & Z3 terminations.

# 

(STD.) EPOXY SEAL



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





(17.45)

.312

PART NO.

896801000 WHITE 896802000 BLACK 896803000

Material: Polyethylene



PART NO. 763701000

Сар

WHITE 763702000 BLACK 763703000 RED

Material: Vinvl

PART NO.

Сар

706201000 WHITE 706202000 BLACK 706203000 RED

Material: Vinyl

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



Fits Z3 Termination female connector



PART NO. 481001000

WHITE 481002263 BLACK 481003000 RED

Material: Nylon Finish: Matte

PART NO. 481101000

WHITE 481102263 BLACK 481103000 RED

L42 Lever handle

Material: Nylon Finish: Matte

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.





