Features/Benefits

- Compact size—small footprint
- Single and double pole models
- PC and panel mount options available
- RoHS compliant models available

Typical Applications

- Hand-held telecommunications
- Instrumentation
- Medical equipment



Specifications

CONTACT RATING: B contact material: 0.4 VA max. @ 20 V AC or DC max. Q contact material (TX01 models): 3 AMPS @ 120 V AC or 28 V DC. All other models: 2 AMPS @ 120 V AC or 28 V DC. See page G-42 for additional ratings.

ELECTRICAL LIFE: TX01 models: 60,000 make-and-break cycles at full load. All other models: 30,000 cycles.

CONTACT RESISTANCE: Below 20 m Ω 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).

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

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

Materials

CASE: Glass filled nylon 6/6, flame retardant, heat stabilized or diallyl phthalate (DAP), (UL 94V-0) or glass filled nylon 4/6, flame retardant, heat stabilized.

ACTUATOR: Brass, chrome plated. BUSHING: Brass, nickel plated. HOUSING: Stainless steel.

SWITCH SUPPORT: Brass, matte-tin plated.

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

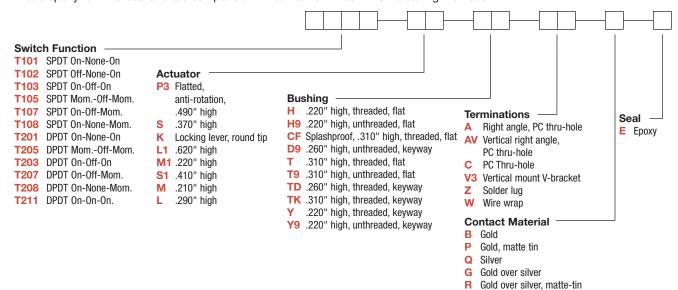
CENTER CONTACTS & TERMINALS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See page G-42 for additional contact materials.

TERMINAL SEAL: Epoxy.

HARDWARE: Nut & Locking Ring: Brass, nickel plated. Lockwasher: Steel, nickel plated. Additional hardware available separately, see Section O.

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 G-38 thru G-42. For additional options not shown in catalog, consult Customer Service Center. All models have epoxy terminal seal and are compatible with all "bottom-wash" PCB cleaning methods.



G-37



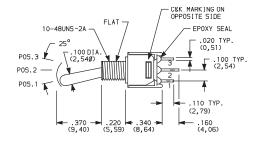
Dimensions are shown: Inch (mm) Specifications and dimensions subject to change

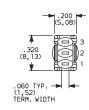
T Series

Subminiature Toggle Switches

			SWITCH FUNCTION			CONNECTED TERMINALS			
		POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3		
		1	_ ▲	4	1	1	4		
NO. POLES	MODEL NO.	C&K marking on opposite side			C&K marking on opposite side				SCHEMATIC
	T101	ON	NONE	ON	2-3	N/A	2-1		
	T103	ON	OFF	ON				- COMM)	
SP	T105	MOM.	OFF	мом.	2-3	OPEN	2-1		2 (COMM) 1 • 3
	T107	ON	OFF	мом.					
	T108	ON	NONE	мом.	2-3	NA	2-1	SPDT	
	T102	OFF	NONE	ON	OPEN	N/A	3-1	SPST	1 • 3

SPDT

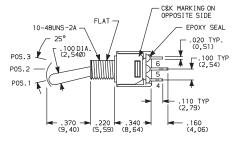


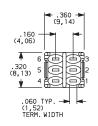


Part number shown: T101SHZQE

		sw	ITCH FUNCTI	ON	CONNECTED TERMINALS			
		POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3	
		1	1	4	7			
NO. POLES	MODEL NO.	C&K marking on opposite side			C&K marking on opposite side			SCHEMATIC
	T201	ON	NONE	ON	2-3,5-6	N/A	2-1,5-4	
	T203	ON	OFF	ON	0.05.0	OPEN	0.4.5.4	● 2 (COMM) 5 ●
DP	T205	мом.	OFF	мом.	2-3,5-6	OPEN	2-1,5-4	1 • 3 4 • 6
	T208	ON	NONE	мом.	2-3,5-6	N/A	2-1,5-4	
	T211*	ON	ON	ON.	2-3,5-6	2-3,5-4	2-1,5-4	DPDT

DPDT





Terminal Nos. For Reference Only

Part number shown: T201SHZQE

MOM. = Momentary

All models and with all options when ordered with G, L, R or Q contact material.

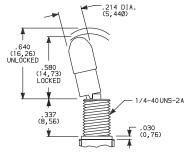


Dimensions are shown: Inch (mm) Specifications and dimensions subject to change



ACTUATOR ---.210" HIGH .370" HIGH .220" HIGH .410" HIGH (with "T" bushing) (with "T" bushing) .100 DIA. .100 DIA. (2,540) Standard with A, AV or V3 terminations. Standard with Z, C or W terminations. L1 .290" HIGH .620" HIGH ANTI-ROTATION, FLATTED, .450" HIGH .100 DIA. (2,540) 2 ¹ Actuator shown with standard H bushing. Subtract .040 (1,02) for TD and D9 bushings, subtract .090 (2,29) for T, T9, TK, K9 & CF bushings. .640 (16,26) 2 Actuators shown with T, T9, TK & CF bushings, add .050 (1,27) for TD and D9 bushings, add .090 (2,29) for H, H9, Y & Y9 bushings.

K LOCKING LEVER



Not available with CF bushing option.

Bushing option code not required. Not available with TX05 & TX07 models.

Locking Positions

Available with T & T9 bushings only. Dress nut part number 709901201 supplied standard with threaded bushing.







-01 & -02 Models 2 Position lock

-03 & -11 Models 3 Position lock

-08 Models

K actuators have natural aluminum finish.

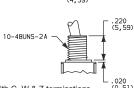
Keyway on right side. To prevent accidental actuation, toggles must be lifted before being actuated. When released, toggles again lock in place. Overtightening mounting nut may cause actuator to bind.

BUSHING ----

H .220" HIGH THREADED, FLAT

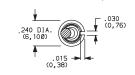


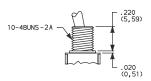
.220" HIGH UNTHREADED, FLAT



H standard with C, W & Z terminations. H9 standard with A, AV & V3 terminations. Y .220" HIGH THREADED, KEYWAY

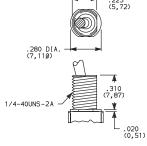




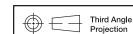


T .310" HIGH THREADED, FLAT

T9 .310" HIGH UNTHREADED, FLAT



All actuators have chrome finish (except K).

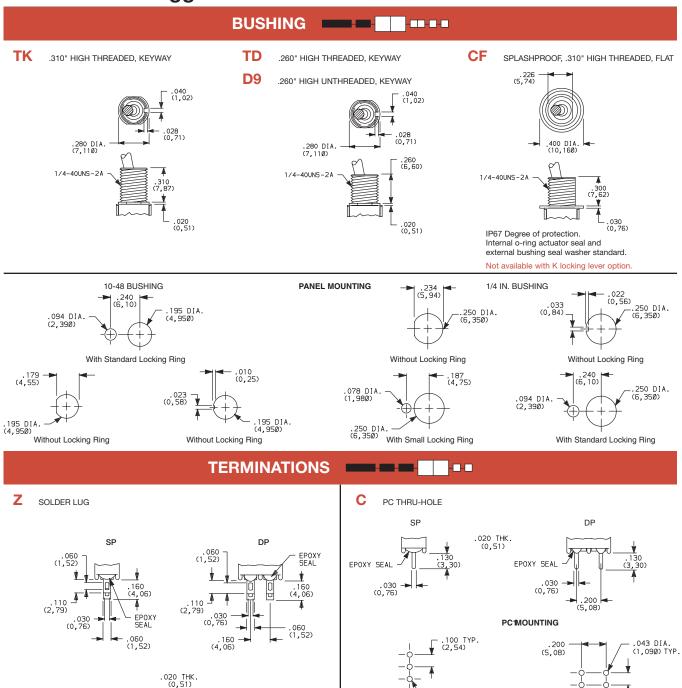


Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change



H9

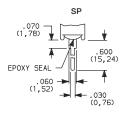


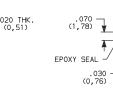


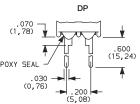
W WIRE WRAP

Not available with P or R contact materials.







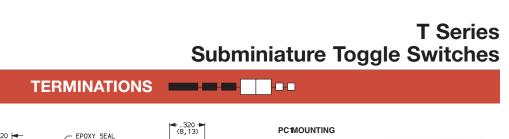


.043 DIA. (1.090) TYP.

T102 - omit center hole



Third Angle



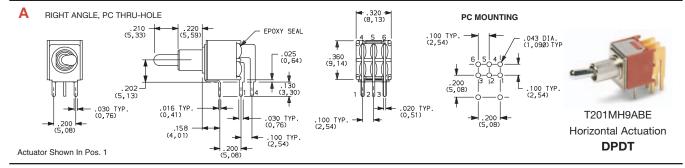
RIGHT ANGLE, PC THRU-HOLE EPOXY SEAL .210 .025 (0,64) .120 (3,05) .158 (4,01) (5,08) Actuator Shown In Pos. 1

.200 (5,08) .200 .200 (5,08)

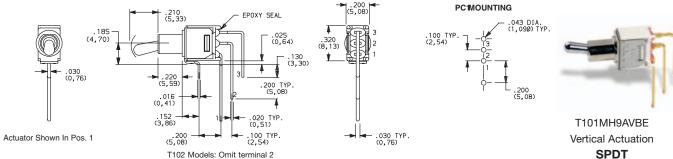


T101MH9ABE Horizontal Actuation **SPDT**

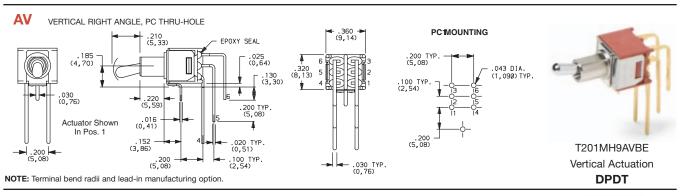
Not available with T102 model.

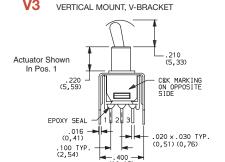




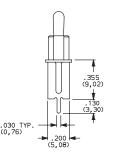


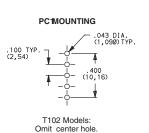
NOTE: Terminal bend radii and lead-in manufacturing option.













T101MH9V3BE **SPDT**



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

T Series

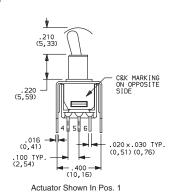
Subminiature Toggle Switches

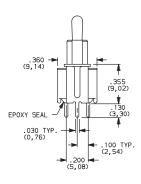
TERMINATIONS ----

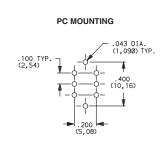
V3 VERTICAL MOUNT, V-BRACKET



T201MH9V3BE **DPDT**







CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS				
В	GOLD ¹	GOLD ¹	LOW LEVEL/	0.4 VA MAX. @ 20 V AC OR DC MAX.			
Р	40LD -		DRY CIRCUIT	U.4 VA MAA. @ 2U V AC OR DC MAA.			
Q	SILVER ^{4,5}	SILVER ⁵	POWER	TX01 MODELS: 3 AMPS @ 120 V AC OR 28 V DC. ALL OTHER MODELS: 2 AMPS @ 120 V AC OR 28 V DC.			
G R	GOLD OVER SILVER ^{2,3}	GOLD ³ MATTE-TIN ⁶	LOW LEVEL/DRY CIRCUIT OR POWER	TX01 MODELS: 0.4 VA MAX @ 20 V AC OR DC MAX. OR 3 AMPS @ 120 V AC OR 28 V DC. ALL OTHER MODELS: 0.4 VA MAX @ 20 V AC OR DC MAX. OR 2 AMPS @ 120 V AC OR 28 V DC.			

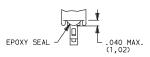
^{*} Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

NOTE: Any models supplied with P, R, Q, B or G contact material are RoHS compliant. For the latest information regarding RoHS compliance, please go to: www.ittcannon.com/rohs.

All models with all options when ordered with R, G, L or Q contact material. B contact material standard with A, AV, V3 & W terminations.

Q contact material standard with C & Z terminations.

K, L and M options represent Non RoHS tin lead product and are not recommended for new designs. For additional information please contact Customer Service.



SEAL

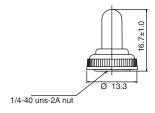
EPOXY SEAL

AVAILABLE HARDWARE



SEALING BOOT





^{*} Note: For use with S1 actuator style when combined with T, TK, and CF bushings.



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



¹ CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.

² END CONTACTS: Coin silver, with gold plate over nickel plate.

³ CENTER CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.

⁴ END CONTACTS: Coin silver, silver plated.

⁵ CENTER CONTACT & ALL TERMINALS: Copper alloy, silver plated.

⁶ TERMINALS: Copper alloy, with matte-tin over nickel plate.