Ordering Table — Standard Toggle Switches

HOW TO ORDER YOUR DESIGN (**Bold** Face Type indicates items normally in Distributor Stock)

Following the table from left to right, the designer is able to specify the options wanted. The options are described and illustrated on pages 24-31. Refer to page 57 for mounting hardware.

To determine a part number select the options desired and fill in the boxes in the selection guides illustrated below.

Toggle Switch Selection Guide

Toggle Switch Series + Poles and Throw + Circuit + Lever Options + Lever Finish + Bushing Options + Terminal Type + Contact Material + Other

Series	Poles and Throw		Circuits ⑩				Lever Options and Finishes				Bushing Options		Terminal Options ⑦		Contact Material		Other Option	
	No.	Code	Keyway		POS. "C"	Code	Type	Code	Finish	Code	Type	Code	Type	Code	Type	Code	Type	Code
A	SPDT	1					Lever Lock K Bushing Only	K1	Bright Chrome ⑭	1	Splashproof Lever ③ & Bushing Seal	CW	Right Angle PC ⑪	A	Gold/Nickel/Brass	B	Epoxy Sealed ⑦ Terminals	
	DPDT	2	ON	OFF	ON	21	.840 Bat	L0	Stain Chrome	2	Splashproof ③ Lever Seal Only	CX	Vertical PC .100 Spacing	AV	Gold/Nickel/Silver	G	Anti-Rotation Anti-Jam Bushing ④	P
	3PDT	3	ON	NONE	ON	23	.640 Bat	L1	Black ①	3	.280 Threaded ②	D	Vertical PC .150 Spacing	AV2	Coin Silver ⑮	Q		
	4PDT	4	ON	NONE	ON*	26	.550 Bat	L2			.280 Smooth ②	D9	Printed Circuit Terminals	C	⑮	K		
			ON*	OFF	ON*	27	Long Mod Cap	L3	Black Nylon ⑧	4	.350 Flatted	H	Right Angle ⑨ Same Throw	R	⑮	L		
			ON	OFF	ON*	31	Short Mod Cap	L4	Red Nylon ⑧	5	With Shoulder .350 Keyway	H3	Right Angle ⑨ Opposite Throw	R2		M		
			ON	ON	ON	32	.200 Bat	M	White Nylon ⑧	6	With Shoulder	K	PC & Support ⑥	V30				
			ON	ON	ON*	33	.840 Flat	P1			Locking K1 Lever Only	T	PC & Support ⑥	V40				
			NONE	ON	ON*	34 ⑤	.450 Flat	P3			15/32 Dia. ⑫	TW	PC & Support ⑥	V60				
			ON*	ON	ON*	35	.250 Flat	P4			Splashproof Lever ⑫ 15/32 & Panel Seal	TX	PC & Support ⑥	V70				
			NONE	ON	ON	53 ⑤	.410 Bat	S			15/32 Splashproof ⑫ Lever Seal Only	Y	.750 Wire Wrap	W				
							.468 Large ⑬	T1			.350 Threaded	Y5	.964 Wire Wrap	W1				
							.687 Large ⑬	T			.437 Threaded (With P3 Only)	Y9	.425 Wire Wrap	W3				
											.350 Smooth		1.062 Wire Wrap	W4				
													Solder Lugs	Z				
													Quick Connect	Z3				

*Momentary Contact

① Available on S, M and P3 only.

② Add .070 to lever length when using these bushings.

③ Available with S, M, L0, L1, L2, L3, L4 lever options. Consult factory for availability.

④ Standard on P1, P3, P4 and K1 lever options. Available on all other levers except T & T1.

⑤ These circuits are **NOT** available with the following 3 and 4 pole options: A, AV, AV2, V30, V40, V60 and V70.

⑥ 1 and 2 pole only.

⑦ Epoxy seal standard on all terminal options.

⑧ Available only with L3 and L4 levers.

⑨ Available in 1 pole only.

⑩ See page 58 for construction detail, wiring and electrical diagrams.

⑪ 1, 2 and 3 pole only.

⑫ Available on T or T1 lever options only.

⑬ Available on T, TW, and TX bushing options. (Bright chrome only.)

⑭ Not available on K1 lever.

⑮ Same as B, G and Q respectively except terminals brass with tin nickel alloy over nickel plate. Consult plant for availability.

EXAMPLES:

A232L01YW1B = DPDT toggle switch with an ON-ON-ON circuit, .840" long lever in a bright chrome finish, .350 threaded bushing, .964" long wire wrap terminals, gold/brass contacts and epoxy sealed terminals.

SPECIFICATIONS:

Contact Ratings —
Letter codes G and Q — 6 amp at 125 VAC, 3 amp @ 250 VAC (U.L. recognized, CSA certified) or 6 amp at 28 VDC resistive.
Letter codes B and G – 0.5. volt-amp (VA) maximum @ 28 V maximum (AC or DC).

Life Under Load — 60,000 make-and-break cycles — resistive load only.

Initial Contact Resistance — 10 milliohms maximum 3 VDC, 100 ma for both silver and gold plated contacts.

Insulation Resistance — 1 & 2 pole —1,000 megohms, min.
3 & 4 pole —1,000 megohms, min.

Dielectric Strength — 1,000 volts rms at sea level.

Bushing Strength — 12 pound-inches without physical damage to switch.

Weight (including hardware) — SP 0.19 oz.; DP 0.23 oz.; 3-pole 0.28 oz.; 4-pole 0.32 oz.

MATERIALS:

Base (body) — 1- and 2-pole —Diallyl Phthalate (DAP).
3- and 4-pole — high strength phenolic.

Lever (toggle) — Brass, chrome plated.

Flat Lever — Brass, satin chrome finish.

Locking lever cap — Anodized aluminum.

Bushing — Brass, nickel plated.

Clamp (frame) — Stainless steel.

Support brackets — Steel, tin plated.

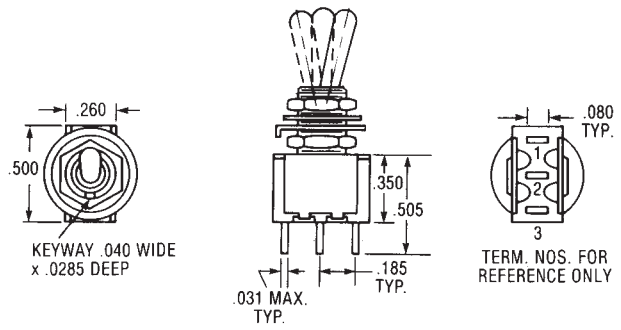
Switching Contacts and Rockers —
Letter Code B — gold/nickel/brass
Letter Code G — gold/nickel/silver
Letter Code Q — Coin silver

Center Terminal
Letter Codes B, G — Gold flash/nickel/brass
Letter Code Q — Silver plated brass.

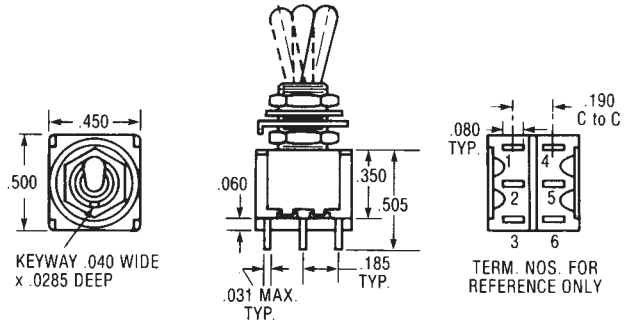
Hardware — See page 55-57.

Toggle Switches — Base Dimensions and Lever Options

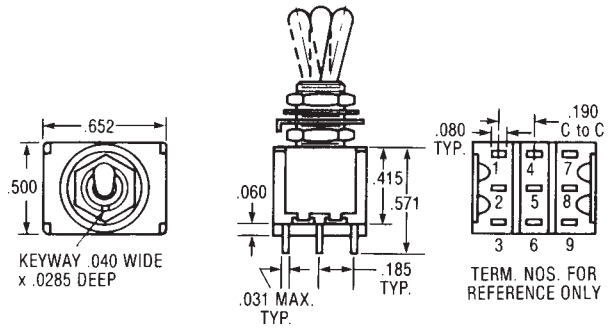
APPROXIMATE BASE DIMENSIONS



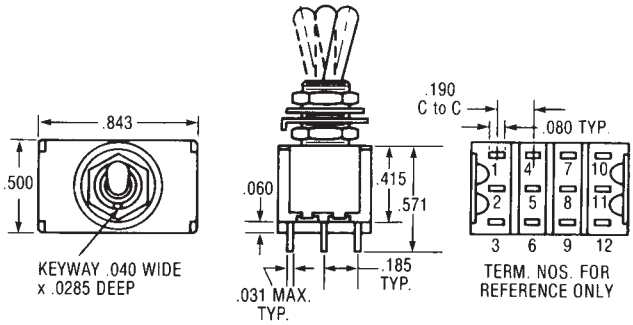
ONE POLE



TWO POLE



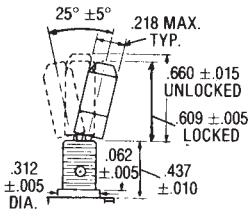
THREE POLE



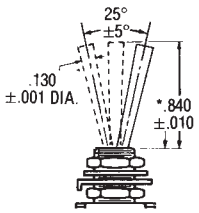
FOUR POLE

TOGGLE LEVER OPTIONS

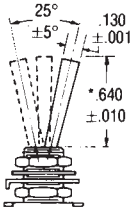
K1 Locking Lever



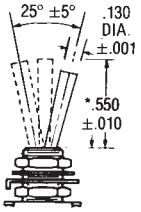
L0 Long (.840")



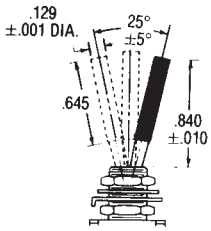
L1 Long (.640")



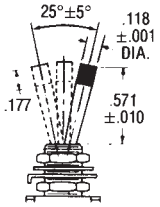
L2 Long (.550")



L3 Plastic (.840")

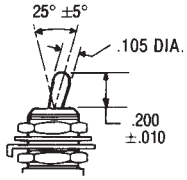


L4 Plastic (.571")

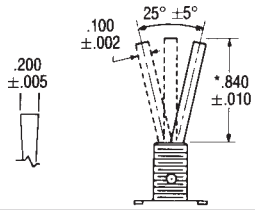


Toggle Lever Options — Contd.

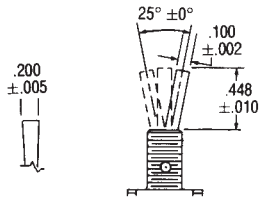
M Short (.200")



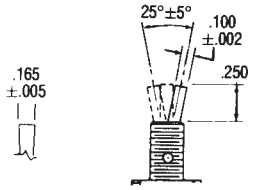
P1 Flatted (.840")



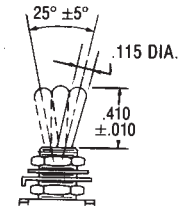
P3 Flatted (.448")



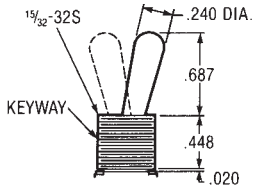
P4 Flatted (.250")



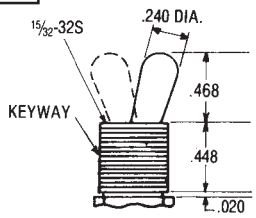
S Std. Bat (.410")



T Large Toggle



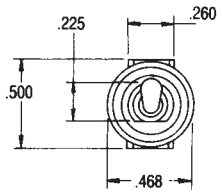
T1 Large Toggle

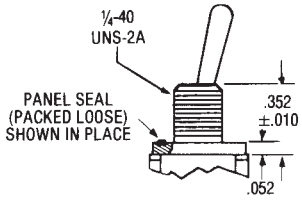


BUSHING OPTIONS

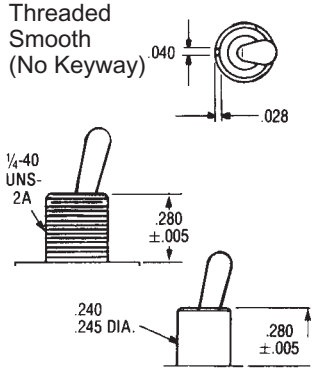
CW Splashproof Sealed Lever and Panel Seal

CW = Flatted bushing

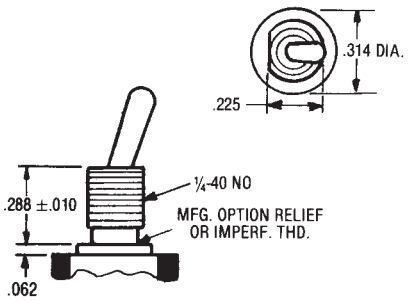




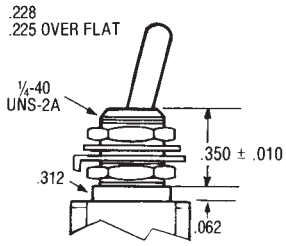
D **D9** Threaded Smooth (No Keyway)



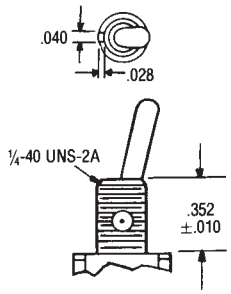
H High Torque Flatted with Shoulder



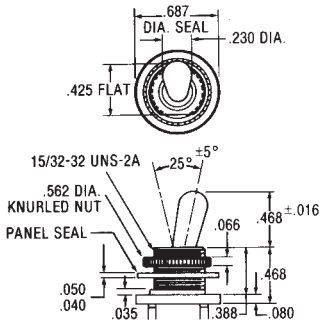
H3 High Torque



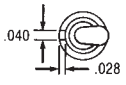
P Anti-Rotation

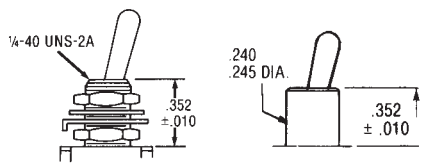


TW Splashproof Sealed Lever and Panel Seal

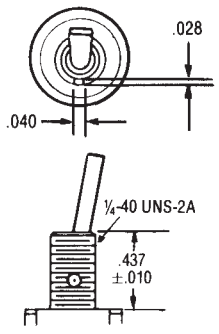


OX **Y** **Y9** Threaded with Lever Seal Threaded Smooth (No Keyway)





Y5 Long Bushing (.437")

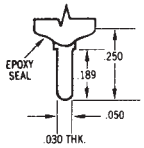


K Refer to K1 lever drawing for dimensions.

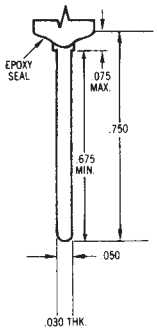
T&TX Refer to T or T1 lever drawing for dimensions.

Note: For hardware refer to pages 55-57.

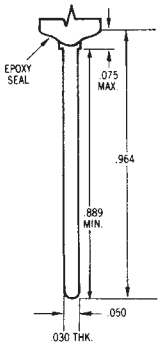
C Printed CIRCUIT



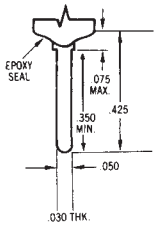
W Wire-Wrap



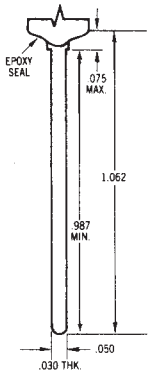
W1 Wire-Wrap



W3 Wire-Wrap

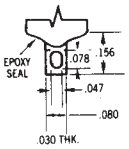


W4 Wire-Wrap

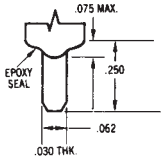


NOTE: Wire-Wrap is a registered trademark of the Gardner-Denver Company.

Z STANDARD



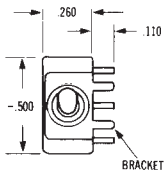
Z3 Quick CONNECT

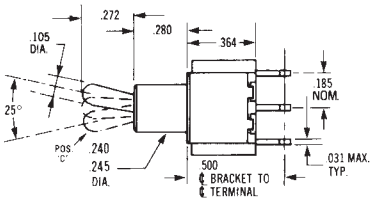


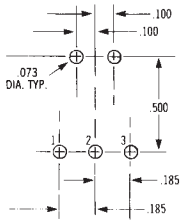
Mating Receptacle from AMP SPECIAL IND., P.O. Box 984, Paoli, Pa. 19301 Amp P/N single piece 61454 series, strip from 60900

TERMINATION/MOUNTING OPTIONS

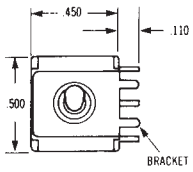
A — One Pole

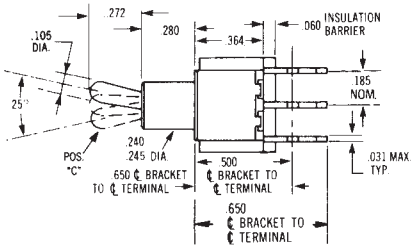


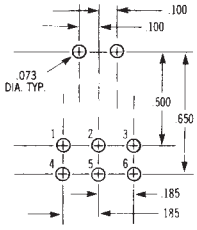




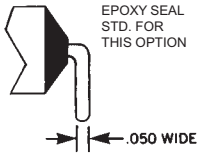
A — Two Pole



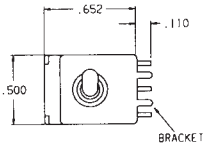


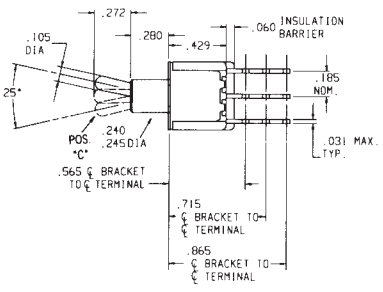


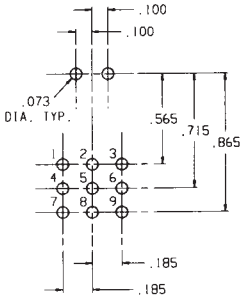
Right Angle P.C. Terminal



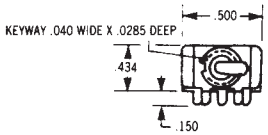
A — Three Pole

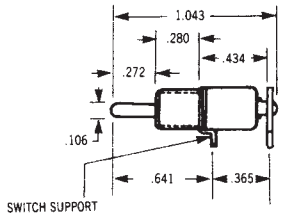




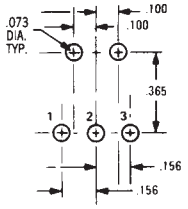


R — One Pole

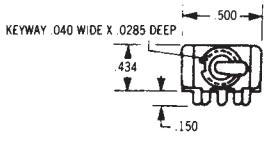


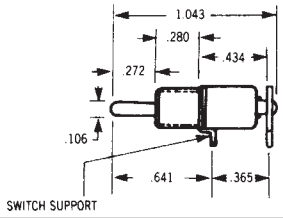


Contacts Make on Opposite Side Toggle Thrown

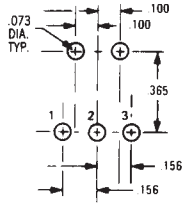


R2 — One Pole



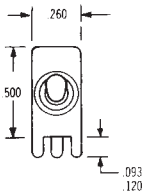


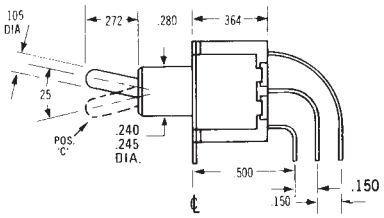
Contacts Make on Opposite Side Toggle Thrown

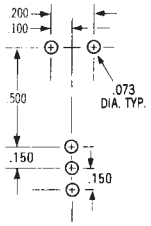


Termination/Mounting Options

AV1	w/.100" terminal spacing
AV2	w/.150" terminal spacing (pictured below)

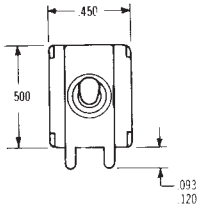


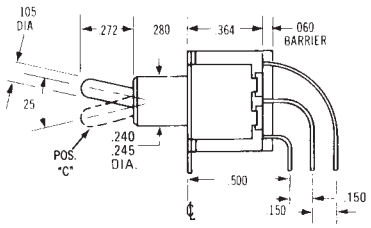


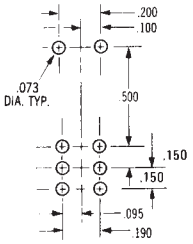


ONE POLE Epoxy sealed P.C. terminals are supplied as standard for these options.

AV1	w/.100" terminal spacing
AV2	w/.150" terminal spacing (pictured below)

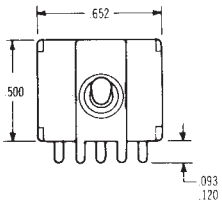


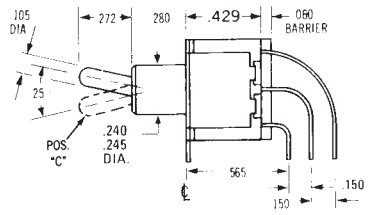


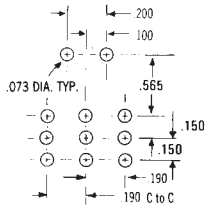


TWO POLE Epoxy sealed P.C. terminals are supplied as standard for these options.

AV	w/.100" terminal spacing
AV2	w/.150" terminal spacing (pictured below)

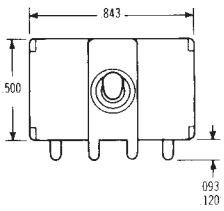


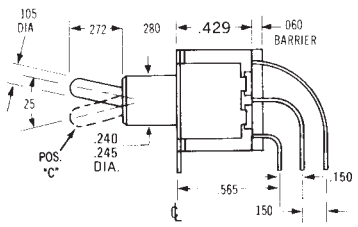


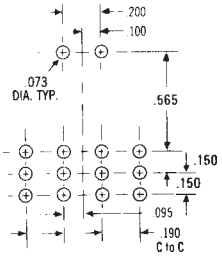


THREE POLE Epoxy sealed P.C. terminals are supplied as standard for these options.

AV	w/.100" terminal spacing
AV2	w/.150" terminal spacing (pictured below)

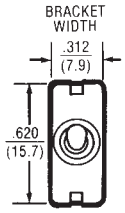


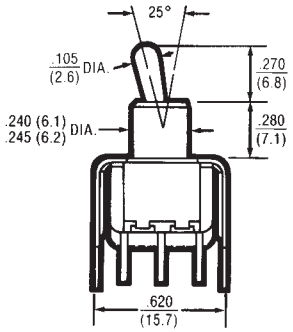


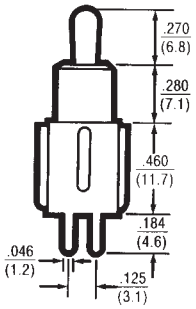


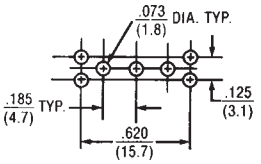
FOUR POLE Epoxy sealed P.C. terminals are supplied as standard for these options.

V30

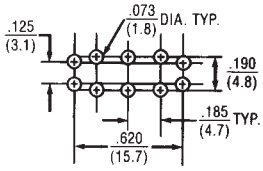








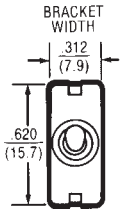
1 Pole P.C. Mounting

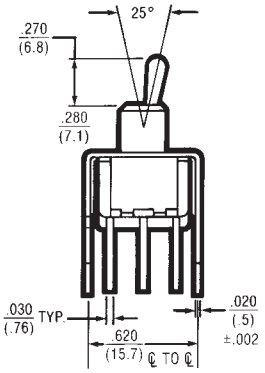


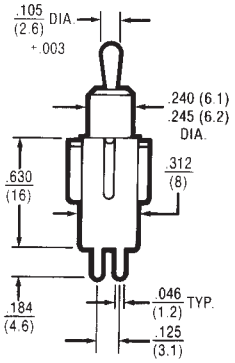
2 Pole P.C. Mounting

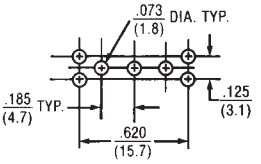
EPOXY SEALED P.C. TERMINALS ARE SUPPLIED AS STANDARD FOR THESE OPTIONS

V40

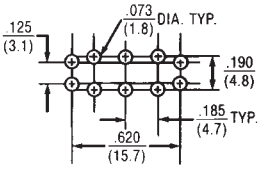








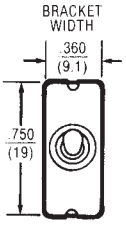
1 Pole P.C. Mounting

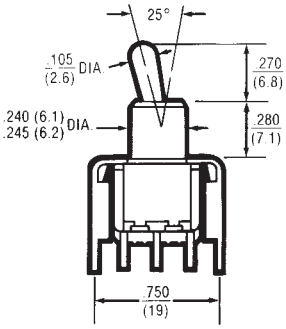


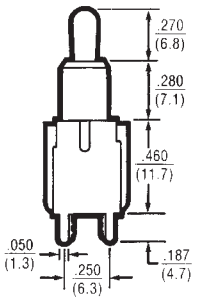
2 Pole P.C. Mounting

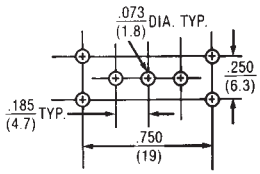
EPOXY SEALED P.C. TERMINALS ARE SUPPLIED AS STANDARD FOR THESE OPTIONS

V60

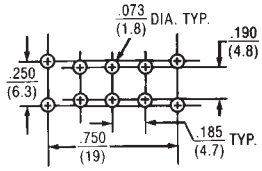








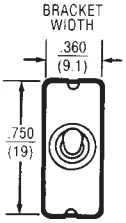
1 Pole P.C. Mounting

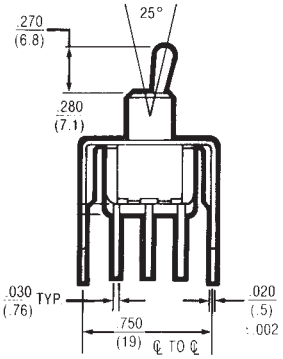


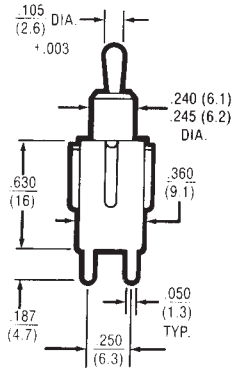
2 Pole P.C. Mounting

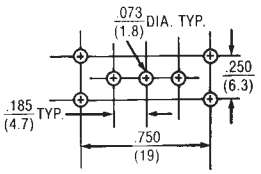
EPOXY SEALED P.C. TERMINALS ARE SUPPLIED AS STANDARD FOR THESE OPTIONS

V70

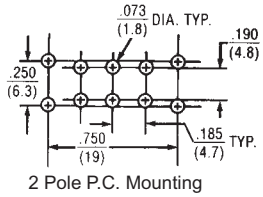








1 Pole P.C. Mounting



2 Pole P.C. Mounting

EPOXY SEALED P.C. TERMINALS ARE SUPPLIED AS STANDARD FOR THESE OPTIONS