

### **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.

<b>T</b>			D - I		loggie Switch Selection Guide													
Swi Ser	Toggle Switch Series		Poles and Throw		(	Circuit	Lever Options			Lever Finish	Bushing Options		Terminal Type		l Conta			
	] -	+ [		+			] + [		+ [		+		+		+		+	
							/		/			,						
$\Box$	Poles an	d Throw		Cir	cuits 🕡		Lev	ver Optio	ons and Finishes		Bushing Option	ns	Terminal Options	<b>7</b>	Contact Mat	erial	Other Opt	ion
Series	No.	Code	¥	Keyw	ay	Code	Туре	Code	Finish	Code	Туре	Code	Туре	Code	Туре	Code	Туре	Code
A	SPDT DPDT 3PDT 4PDT	1 2 3 4	ON ON	OFF NONE OFF OFF ON ON ON	POS. "C"  ON  ON  ON*  ON*  ON*  ON*  ON*  ON*	21 23 26 27 31 32 33 34 <b>⑤</b> 35	Lever Lock K Bushing Only .840 Bat .640 Bat .550 Bat Long Mod Cap Short Mod Cap .200 Bat .840 Flat .450 Flat .410 Bat .468 Large (\$\frac{1}{4}\$)	K1 L0 L1 L2 L3 L4 M P1 P3 P4 S T1 T	Bright Chrome 13 Stain Chrome Black 11 Black Nylon 13 Red Nylon 13 White Nylon 13	1 2 3 4 5 6	Splashproof Lever  & Bushing Seal Splashproof Lever Seal Only .280 Threaded .280 Smooth .350 Flatted With Shoulder .350 Keyway With Shoulder Locking K1 Lever Only 15/32 Dia29 Splashproof Lever .15/32 Splashproof .20 Lever Seal Only .350 Threaded .437 Threaded .437 Threaded .437 Threaded .437 Only) .350 Smooth	CW CX D D9 H H3 K T TW TX Y Y5 Y9	Right Angle PC  Vertical PC .100 Spacing  Vertical PC .150 Spacing  Printed Circuit Terminals  Right Angle Same Throw  Right Angle Copposite Throw  PC & Support PC & Support PC & Support Town	A AV AV2 C R R2 V30 V40 V60 W W1 W3 W4	Gold/Nickel/Brass Gold/Nickel/Silver Coin Silver  15 15	B G Q K L	Epoxy Sealed Terminals Anti-Rotation Anti-Jam Bushing 4	P
													Solder Lugs Quick Connect	Z Z3				

Toggle Switch Selection Guide

- \*Momentary Contact
- Available on S, M and P3 only.
- Add .070 to lever length when using these bushings.
- 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.
- 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.
- Epoxy seal standard on all terminal options.

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

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

# (3) Available only with L3 and L4 levers.

- Available in 1 pole only.
- See page 58 for construction detail, wiring and electrical diagrams.
- 1, 2 and 3 pole only.
- 2 Available on T or T1 lever options only.
- (Bright chrome only.)
- Not available on K1 lever.
- Same as B, G and Q respectively except terminals brass with tin nickel alloy over nickel plate. Consult plant for availability.

#### **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

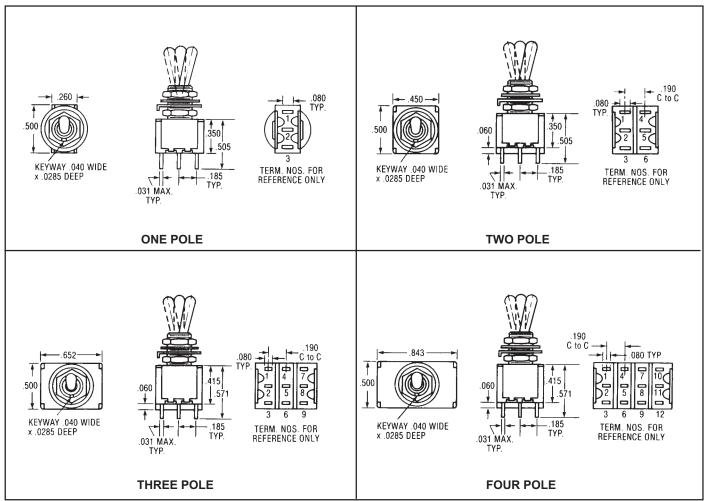
Letter Code Q — Silver plated brass.

Hardware — See page 55-57.

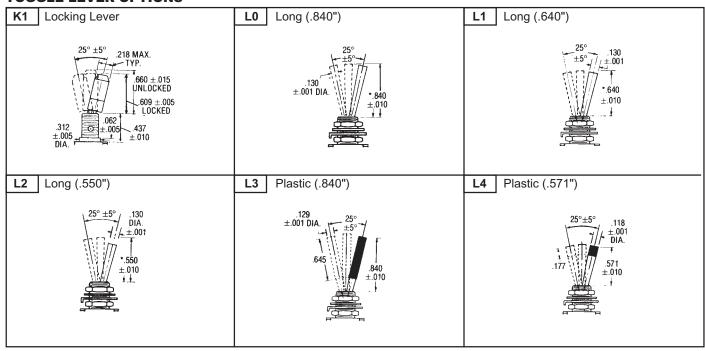


#### **Toggle Switches — Base Dimensions and Lever Options**

#### **APPROXIMATE BASE DIMENSIONS**



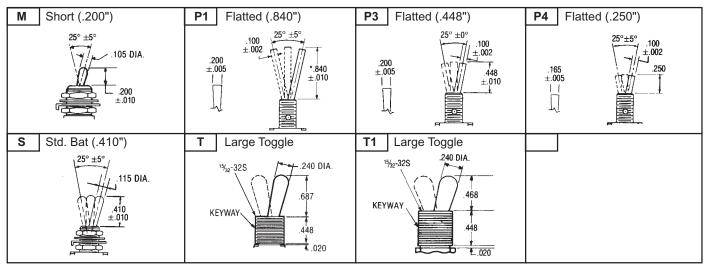
#### **TOGGLE LEVER OPTIONS**



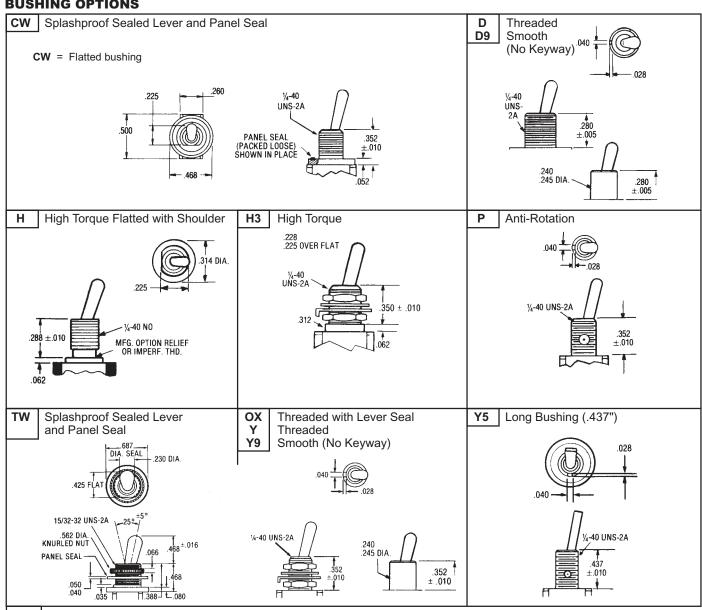
Litho in U.S.A GG



#### - Contd. Toggle Lever Options -



#### **BUSHING OPTIONS**



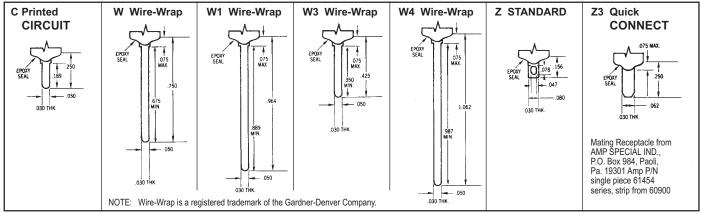
Κ Refer to K1 lever drawing for dimensions.

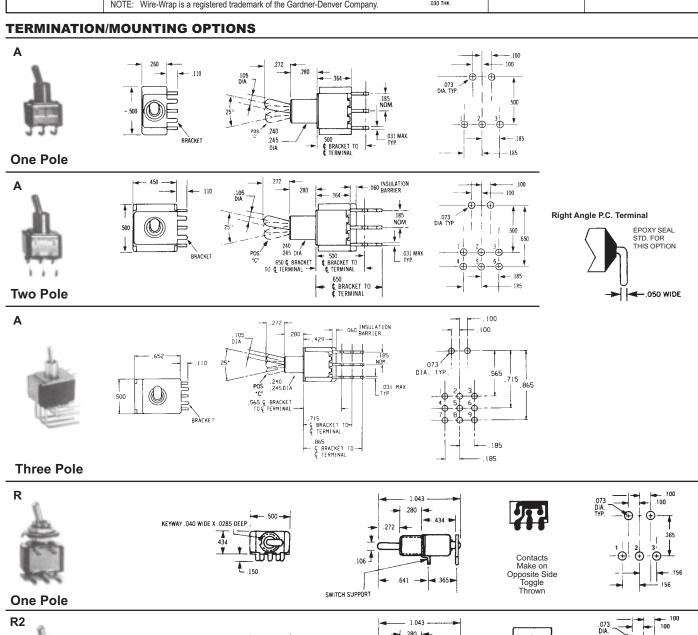
T&TX Refer to T or T1 lever drawing for dimensions. Note: For hardware refer to pages 55-57.



#### **MINIATURE SWITCHES**

#### **Termination Options**





.106

SWITCH SUPPORT

**One Pole** 

KEYWAY .040 WIDE X .0285 DEEP

1.150

2 3

Contacts

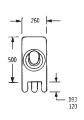
Make on Opposite Side Toggle Thrown

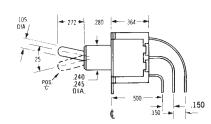


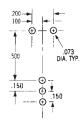
## **Termination/Mounting Options**

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





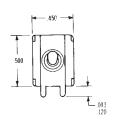


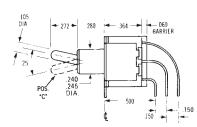


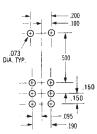
**ONE POLE** Epoxy sealed P.C. terminals are supplied as standard for these options.

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





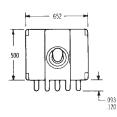


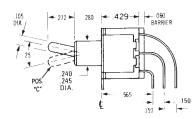


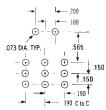
TWO POLE Epoxy sealed P.C. terminals are supplied as standard for these options.

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





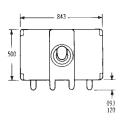


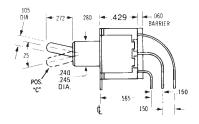


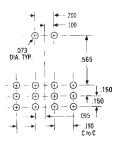
THREE POLE Epoxy sealed P.C. terminals are supplied as standard for these options.

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





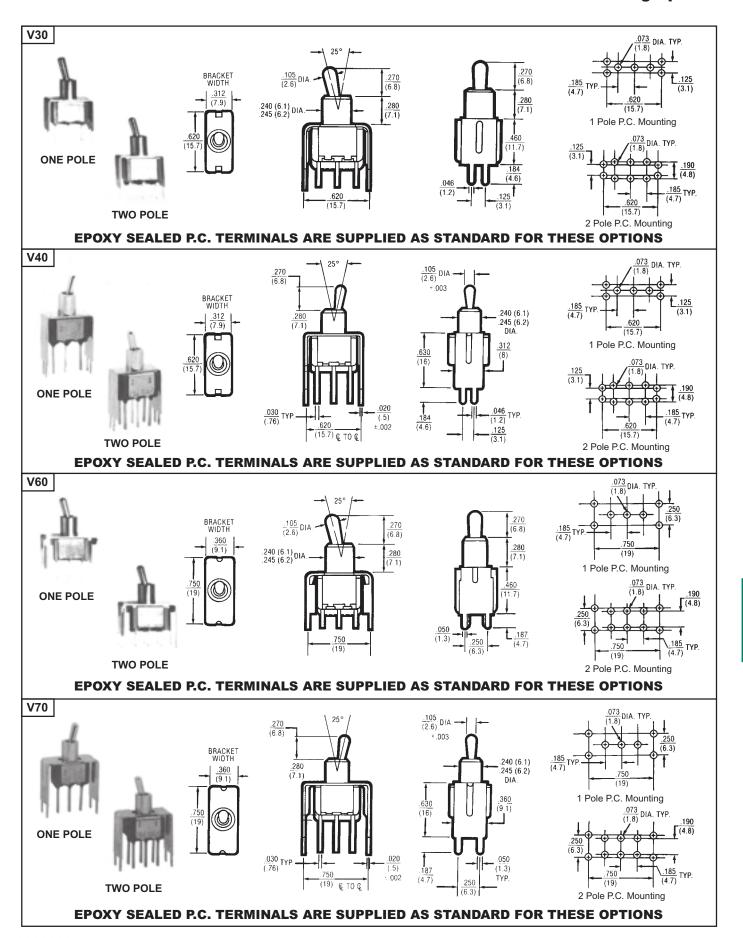




**FOUR POLE** Epoxy sealed P.C. terminals are supplied as standard for these options.



#### **Termination/Mounting Options**



Litho in U.S.A GG