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# **Electroswitch Offers New Toggle Combinations to Cross Competition.**

Electroswitch is pleased to present this new expanded toggle brochure created to provide many additional crosses against competition:

C&K 7000 and E Series
Alco A and MTA Series
NKK M2T and M Series
Apem ST and 5000 Series
E-Switch 100 and 100A Series

All the new toggle switch combinations are produced at our plant in Raleigh, NC and you get the value of over 55 years of Electroswitch quality.

In the coming months we plan to further expand our miniature switch line to include competitive crosses for rockers and washables.

For information on all of our miniature and rotary switches, please check our web site at www.electro-nc.com



## **MINIATURE SWITCHES**



## **Ordering Table - Standard Toggle Switches**

Following the table from left to right, the designer is able to specify the options wanted. The options are described and illustrated. 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	<i>#</i>	Poles	+ Circuits		rcuit	+ Lever Options	Leve		Leve		+	Terminal Type Terminal/Mounting Options		Contact Material  Contact Material		• Other Options	
Series	No.	Code	7	Keyway_	Z	Code	Туре	Code	Finish	Code	Туре	Code	Туре	Code	Туре	Code	Туре	Code
A	1 Pole 2 Pole 3 Pole 4 Pole	1 2 3 4	ON ON ON ON ON ON ON NONE ON* NONE	OFF NONE NONE OFF OFF ON ON ON ON	Pos. "C" ON ON ON* ON* ON* ON ON* ON	21 23 26 27 31 32 33 33 34 35 53	.410 Bat (Std.) .200 Bat (Std.) Flatted Bats .840 Flat .450 (Std.) .250 Flat  Longer Bats .840 Bat .640 Bat .550 Bat  Plastic Bats .840 Plastic .571 Plastic  Large Bats 15/32" Bushing .468 Large .687 Large .610 Flatted  Lever Locking Actuators Std. taper threaded Dome unthreaded Taper unthreaded Taper unthreaded	S M P1 P3 P4 L0 L1 L2 L3 L4 K1 K2 K9 K12 K19		1 2 3 3	.350 Threaded (Std.) .370 Threaded High Torque .370 Threaded High Torque w/ Flat .437 Threaded .350 Smooth with Keyway .350 Smooth .280 Threaded (Std.) .280 Smooth with keyway .280 Smooth with Flat .350 Flatted with Shoulder (Std.) .350 Keyway with Shoulder .315 Threaded High Torque 8mm Threaded High Torque Splashproof lever & Bushing Seal Splashproof lever Seal Only CX  15/32" Bushing Options for Large Bats 15/32 Dia. (Std.) Splashproof Lever & Panel Seal 15/32 Splashproof Lever Seal Only For Locking Lever Only	Y Y1 Y4 Y5 Y91 Y9 D D91 D9 D8 H H3 H31 H4 CW	Solder Lugs (Std.) Quick Connect Right Angle PC (Std.) Right Angle PC (Std.) Right Angle PC / Snap-in Right Angle PC .156 Right Angle PC .156 Right Angle PC .200 Vertical PC .150 Spacing Vertical PC .150 Spacing (Std.) Vertical PC .150 Snap-in Right Angle extended PC Right Angle Same Throw Loss PC Support Bracket Loss PC Snap-In Bracket HD Loss PC Support Bracket Loss PC Snap-In Bracket HD Loss PC Support Bracket L	Z Z33 A A3 A2 A7 AV AV2 AV3 AW AW1 C R R2 V20 V21 V30 V31 V40 V61 V70 V80 V81 W91 W91 W W1 W3 W4	Gold/Nickel/Brass Gold/Nickel/Silver Coin Silver  Optional Platings Same as B, G, Q, respectively Terminals tin-lead alloy Terminals tin-lead alloy Terminals tin-lead alloy K,L,M not available with Z&Z3	B G Q K L M	Epoxy Sealed Terminals Anti-Rotation	Std.



## **MINIATURE SWITCHES**

#### **SPECIFICATOINS:**

#### Contact Ratings -

Letter codes G,L and Q,M - 6 amp at 125 VAC, 3 amp @ 250 VAC (U.L. recognized, CSA certified) or 6 amp at 28 VDC resistive. Letter codes B,K and G,L - 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 initial at 3 VDC, 100 ma for both silver and gold plated contacts.

Insulation Resistance - 1,000 megohms, min.

Dielectric Strength - 1,000 volts RMS minimum at sea level.

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

#### **STANDARD MATERIALS:**

Base (body) - Diallyl Phthalate (DAP).

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,K - gold/nickel/brass Letter Code G,L - gold/nickel/silver

Letter Code Q,M - Coin silver

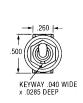
#### **Center Terminal**

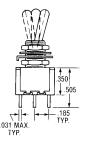
Letter Codes B,K, G,L - Gold flash/nickel/brass

Letter Code Q,M - Silver plated brass.

Epoxy sealed terminals are supplied as standard

## STANDARD DIMENSIONS & PART NUMBERS

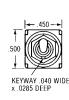


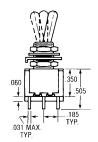


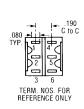


#### **ONE POLE**

١	Keywa	<b>4</b>	Code	Part Number
		POS. "C"		
ON	OFF	ON	21	A121S1YZQ
ON	NONE	ON	23	A123S1YZQ
ON	NONE	ON*	26	A126S1YZQ
ON*	OFF	ON*	27	A127S1YZQ

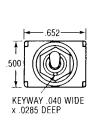


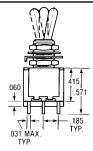


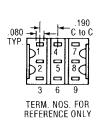


**TWO POLE** 

,	Keywa		Code	Part Number
		POS. "C"		
ON	OFF	ON	21	A221S1YZQ
ON	NONE	ON	23	A223S1YZQ
ON	NONE	ON*	26	A226S1YZQ
ON*	OFF	ON*	27	A227S1YZQ

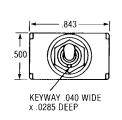


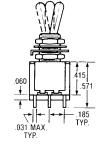


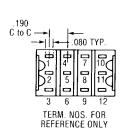


#### **THREE POLE**

,	Keywa		Code	Part Number
		POS. "C"		
ON	OFF	ON	21	A321S1YZQ
ON	NONE	ON	23	A323S1YZQ
ON	NONE	ON*	26	A326S1YZQ
ON*	OFF	ON*	27	A327S1YZQ





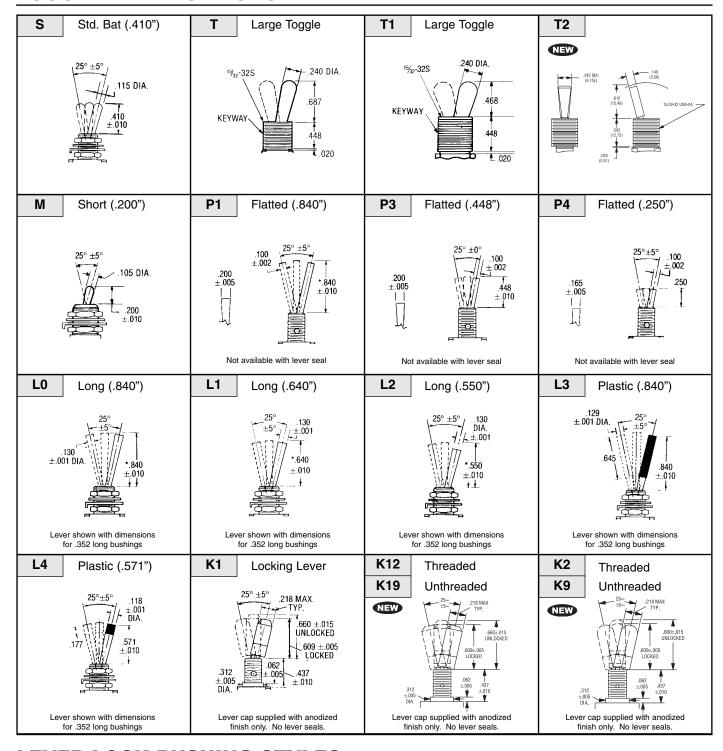


#### **FOUR POLE**

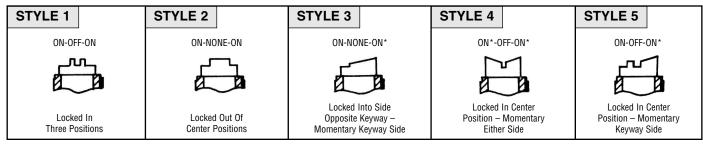
<u>,</u>	Keywa	-y	Code	Part Number
		POS. "C"		
ON	OFF	ON	21	A421S1YZQ
ON	NONE	ON	23	A423S1YZQ
ON	NONE	ON*	26	A426S1YZQ
ON*	OFF	ON*	27	A427S1YZQ

## **TOGGLE LEVER OPTIONS**



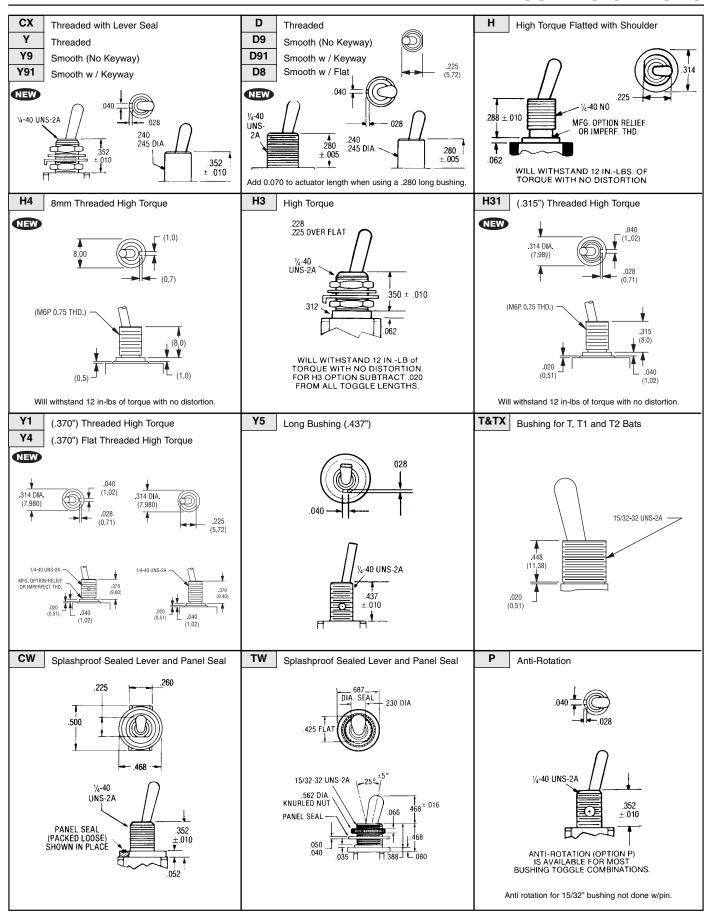


## LEVER LOCK BUSHING STYLES



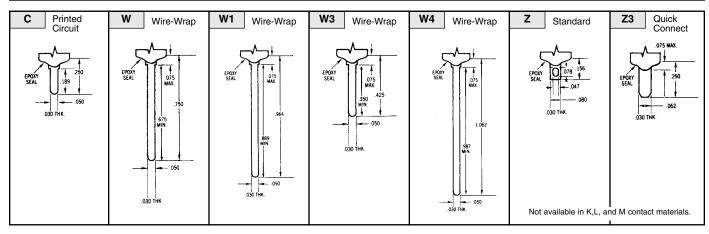


## **BUSHING OPTIONS**

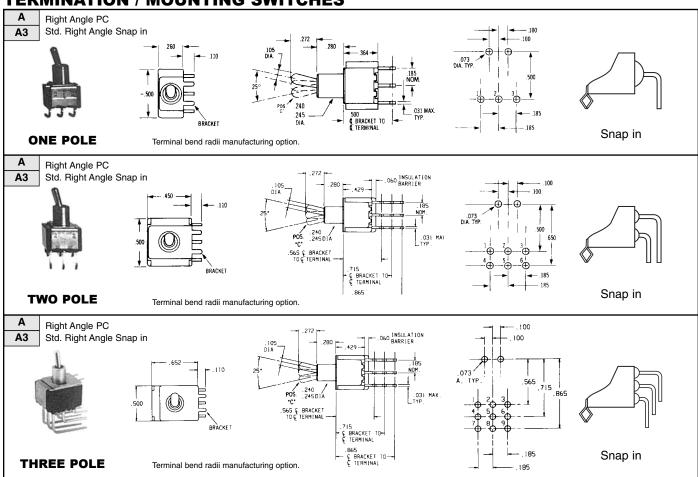


## **TERMINATION SWITCHES**

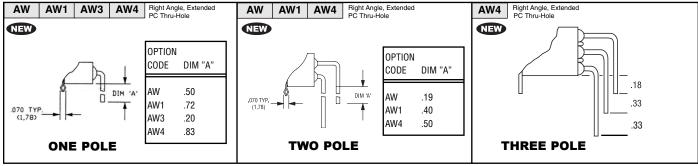




## **TERMINATION / MOUNTING SWITCHES**



## **EXTENDED TERMINAL OPTIONS** (Right Angle PC Terminals)

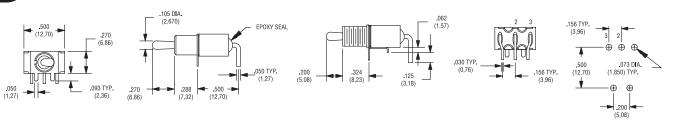




## **TERMINATION / MOUNTING OPTIONS**

#### A2 Right Angle PC .156" Spacing

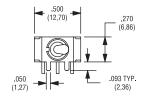


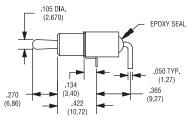


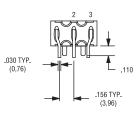
Not available w/ CW, H, H3, T, TX, TW, T1, K2, K9, K19, H4, Y1, & Y4. Large bushing and shoulders interfere with printed circuit board.

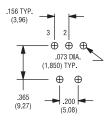
#### A4 Right Angle PC .156" Spacing

NEW





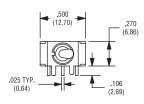


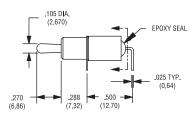


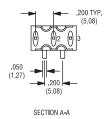
Not available w/ CW, H, H3, T, TX, TW, T1, K2, K9, K19, H4, Y1, & Y4. Large bushing and shoulders interfere with printed circuit board.

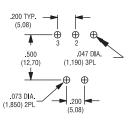
#### A7 Right Angle PC .200" Spacing

NEW





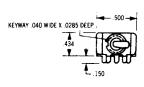


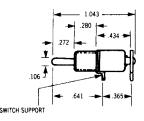


Not available w/ CW, H, H3, T, TX, TW, T1, K2, K9, K19, H4, Y1, & Y4. Large bushing and shoulders interfere with printed circuit board.

#### R Right Angle Same Throw

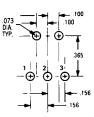








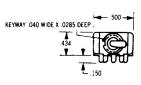
Contacts Make on Same Side Toggle Thrown

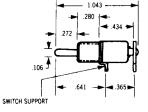


Not available w/ CW, H, H3, T, TX, TW, T1, K2, K9, K19, H4, Y1, & Y4. Large bushing and shoulders interfere with printed circuit board. Not UL or CSA recognized.

#### R2 Right Angle Opposite Throw

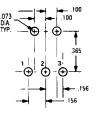








Thrown



**ONE POLE** 

Not available w/ CW, H, H3, T, TX, TW, T1, K2, K9, K19, H4, Y1, & Y4. Large bushing and shoulders interfere with printed circuit board.



## **TERMINATION / MOUNTING OPTIONS**

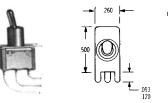
AV w/.100" Terminal Spacing

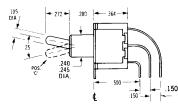
w/.150" Terminal Spacing (pictured below)

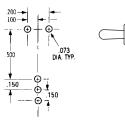
w/.150" Terminal Spacing Snap in Bracket

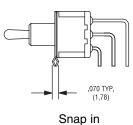
AV3

AV2









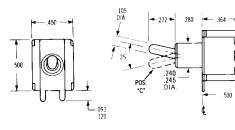
**ONE POLE** 

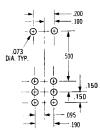
Terminal bend radii manufacturing option.

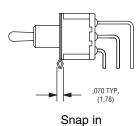
AV	w/.100" Terminal Spacing
AV2	w/.150" Terminal Spacing (pictured below)
AV3	w/.150" Terminal Spacing Snap in Bracket

NEW









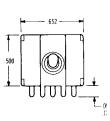
**TWO POLE** 

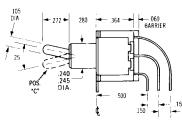
Terminal bend radii manufacturing option.

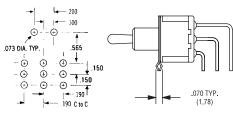
AV	w/.100" Terminal Spacing
AV2	w/.150" Terminal Spacing (pictured below)
AV3	w/.150" Terminal Spacing Snap in Bracket

NEW









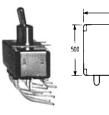
Snap in

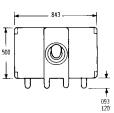
**THREE POLE** 

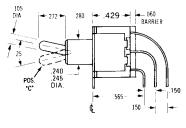
Terminal bend radii manufacturing option.

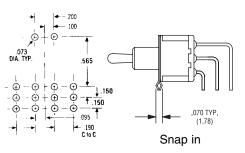
	w/.100" Terminal Spacing
	w/.150" Terminal Spacing (pictured below)
AV3	w/.150" Terminal Spacing Snap in Bracket

NEW







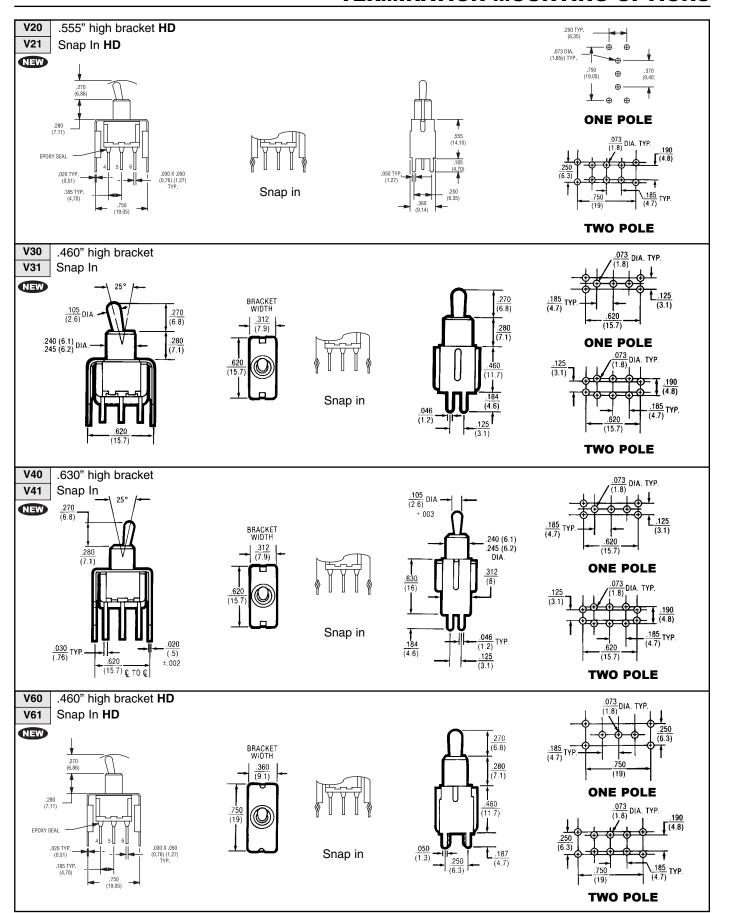


**FOUR POLE** 

Terminal bend radii manufacturing option.

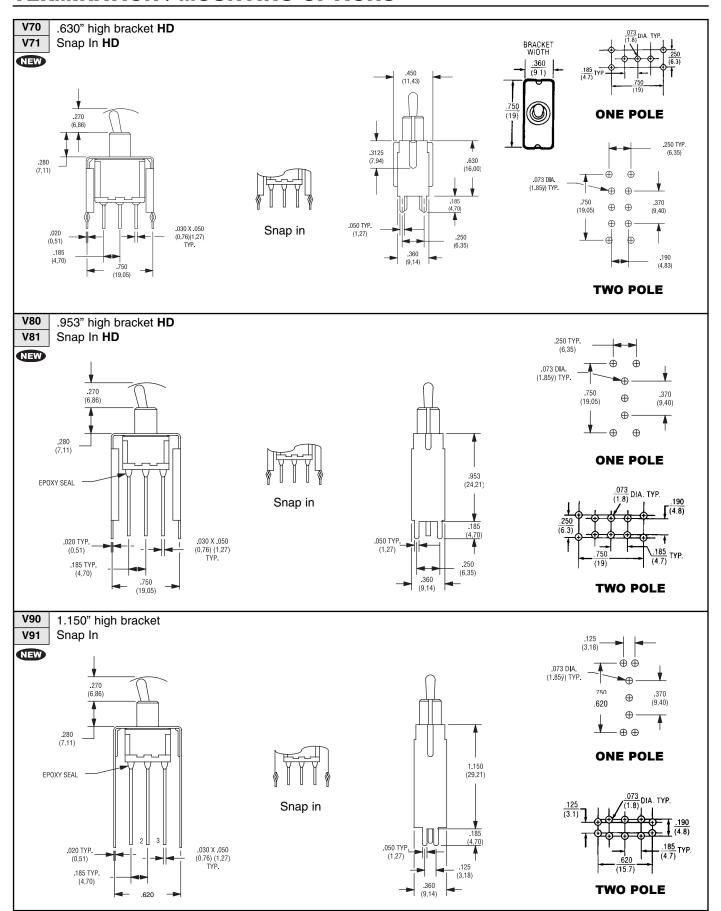


## **TERMINATION MOUNTING OPTIONS**





## **TERMINATION / MOUNTING OPTIONS**





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