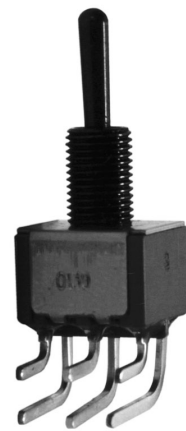
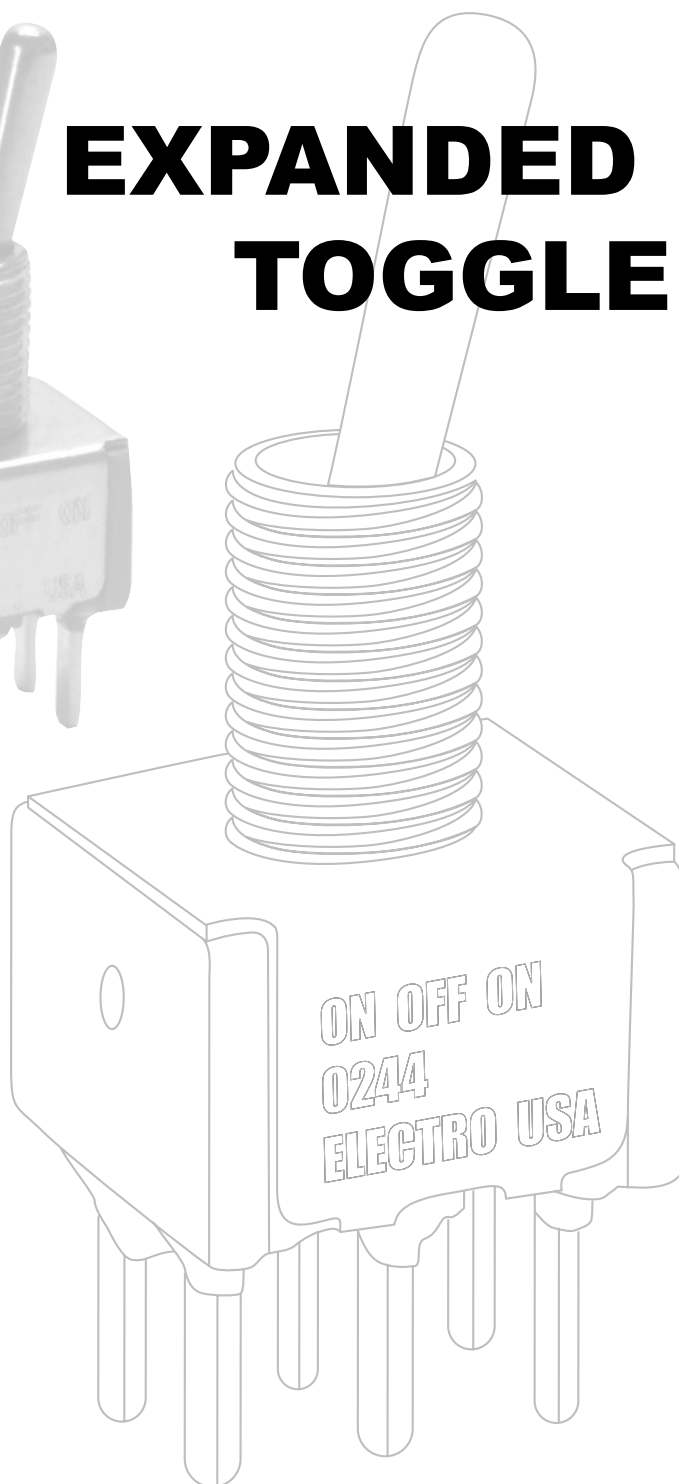




ELECTROSWITCH
• *ELECTRONIC PRODUCTS*
UNIT OF ELECTRO SWITCH CORP.

EXPANDED "A SERIES" TOGGLE SWITCHES



ISO 9001 Registered

Phone: 888-768-2797 or 919-833-0707

Fax: 800-909-9171 or 919-833-8016

Web site: <http://www.electro-nc.com>

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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**

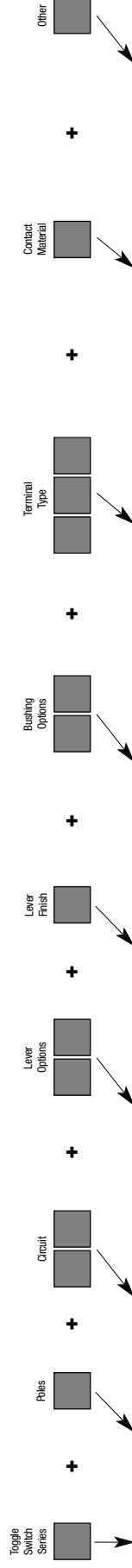


MINIATURE SWITCHES

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



	Poles		Circuits			Lever Options		Finishes		Bushing Options		Terminal/Mounting Options		Contact Material		Other Options		
Series	No.	Code				Code	Type	Finish	Code	Type	Code	Type	Code	Type	Code	Type	Code	
A	1 Pole	1	ON	OFF	Pos. "C"	21	.410 Bat (Std.)	S	1	.350 Threaded (Std.)	Y	Solder Lugs (Std.)	Z	Gold/Nickel/Brass	B	Epoxy Sealed Terminals	Std.	
	2 Pole	2	ON	NONE	ON	23	.200 Bat (Std.)	M	2	.370 Threaded High Torque	Y1	Quick Connect	Z3	Gold/Nickel/Silver	G	Anti-Rotation	P	
	3 Pole	3	ON	NONE	ON*	26	Flatted Bats	P1	3	.437 Threaded	Y5	Right Angle PC / Snap-in	A3	Coin Silver	Q			
	4 Pole	4	ON*	OFF	ON*	27		.840 Flat	P3	.350 Smooth with Keyway	Y91	Right Angle PC .156	A2					
			ON	OFF	ON	31	.450 (Std.)	P4	.350 Smooth	Y9	Right Angle PC .200	A7						
			ON	ON	ON*	32	.250 Flat		D	.280 Threaded (Std.)	D	Vertical PC .100 Spacing	AV	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				
			ON	ON	ON*	33	Longer Bats		D91	Vertical PC .150 Spacing (Std.)	AV2		K					
			ON	ON	ON*	34	.840 Bat	L0	.280 Smooth with Keyway	D9	Vertical PC .150 Snap-in	AV3			L			
			ON*	ON	ON*	35	.640 Bat	L1	.280 Smooth with Flat	D8	Right Angle extended PC	AW			M			
			NONE	ON	ON*	53	.550 Bat	L2	.350 Flatted with Shoulder (Std.)	H	Right Angle extended PC	AW1						
			NONE	ON	ON				.315 Threaded High Torque	H31	Right Angle extended PC	AW3						
			* Monetary Contact						8mm Threaded High Torque	H4	Printed Circuit Terminals (Std.)	C						
									Splashproof lever & Bushing Seal	CW	Right Angle Same Throw	R						
									Splashproof lever Seal Only CX		Right Angle Opposite Throw	R2						
							L3		Black Nylon	4	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							
							L4	L3 and L4 Colors	5									
								Red Nylon	6									
								White Nylon										
	</																	

SPECIFICATIONS:

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

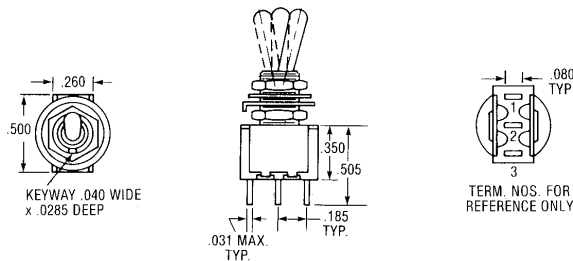
Center Terminal

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

Letter Code Q,M - Silver plated brass.

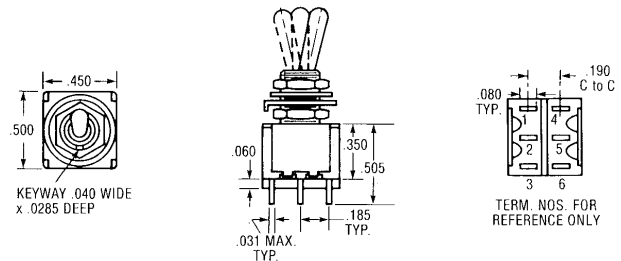
Epoxy sealed terminals are supplied as standard

STANDARD DIMENSIONS & PART NUMBERS



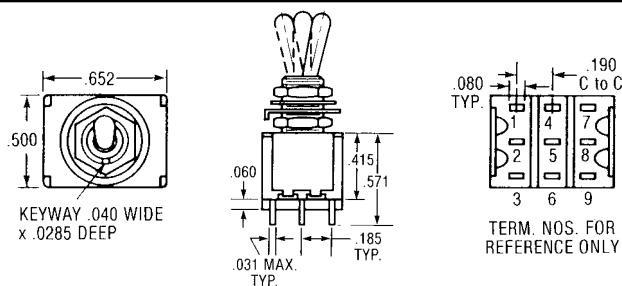
ONE POLE

Keyway			Code	Part Number
ON	OFF	POS. "C"		
ON	OFF	ON	21	A121S1YZQ
ON	NONE	ON	23	A123S1YZQ
ON	NONE	ON*	26	A126S1YZQ
ON*	OFF	ON*	27	A127S1YZQ



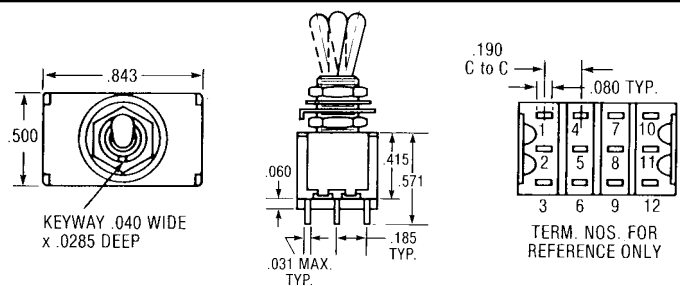
TWO POLE

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



THREE POLE

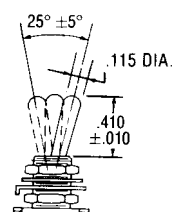
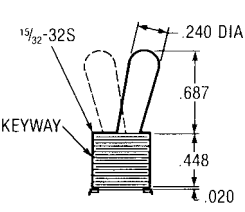
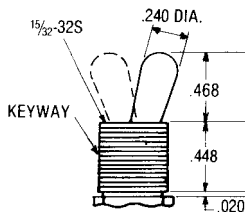
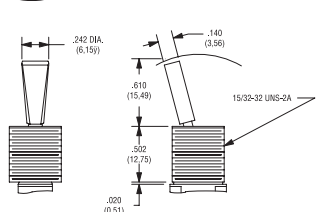
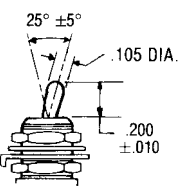
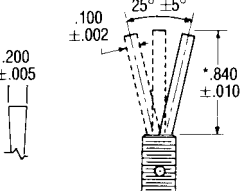
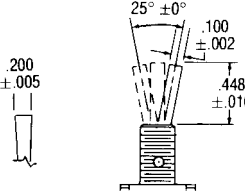
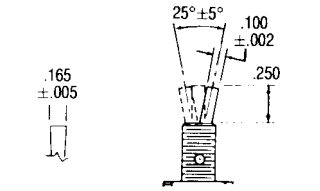
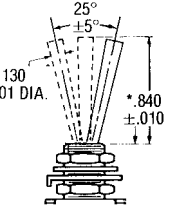
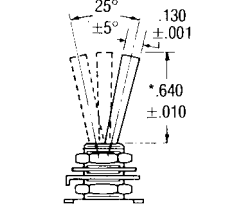
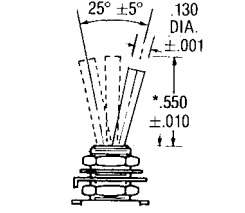
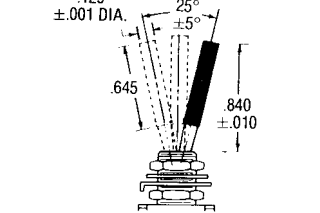
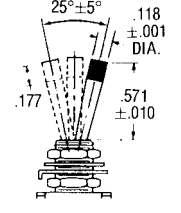
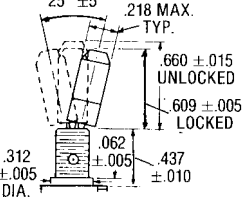
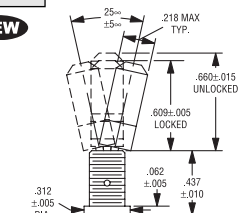
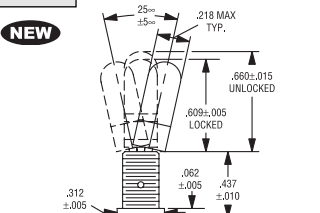
Keyway			Code	Part Number
ON	OFF	POS. "C"		
ON	OFF	ON	21	A321S1YZQ
ON	NONE	ON	23	A323S1YZQ
ON	NONE	ON*	26	A326S1YZQ
ON*	OFF	ON*	27	A327S1YZQ



FOUR POLE

Keyway			Code	Part Number
ON	OFF	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

S Std. Bat (.410") 	T Large Toggle 	T1 Large Toggle 	T2 NEW 
M Short (.200") 	P1 Flatted (.840")  Not available with lever seal	P3 Flatted (.448")  Not available with lever seal	P4 Flatted (.250")  Not available with lever seal
L0 Long (.840")  Lever shown with dimensions for .352 long bushings	L1 Long (.640")  Lever shown with dimensions for .352 long bushings	L2 Long (.550")  Lever shown with dimensions for .352 long bushings	L3 Plastic (.840")  Lever shown with dimensions for .352 long bushings
L4 Plastic (.571")  Lever shown with dimensions for .352 long bushings	K1 Locking Lever  Lever cap supplied with anodized finish only. No lever seals.	NEW K12 Threaded K19 Unthreaded  Lever cap supplied with anodized finish only. No lever seals.	NEW K2 Threaded K9 Unthreaded  Lever cap supplied with anodized finish only. No lever seals.

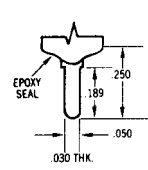
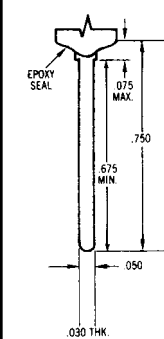
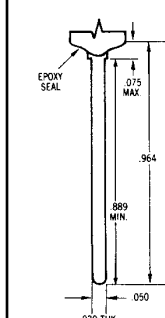
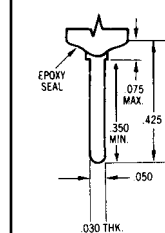
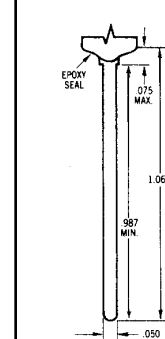
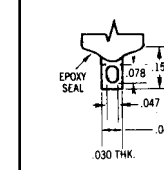
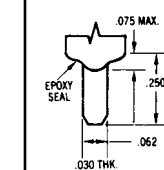
LEVER LOCK BUSHING STYLES

STYLE 1 ON-OFF-ON  Locked In Three Positions	STYLE 2 ON-NONE-ON  Locked Out Of Center Positions	STYLE 3 ON-NONE-ON*  Locked Into Side Opposite Keyway – Momentary Keyway Side	STYLE 4 ON*-OFF-ON*  Locked In Center Position – Momentary Either Side	STYLE 5 ON-OFF-ON*  Locked In Center Position – Momentary Keyway Side
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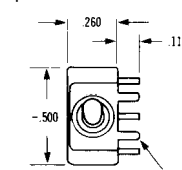
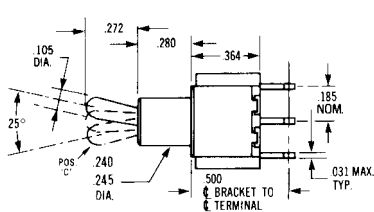
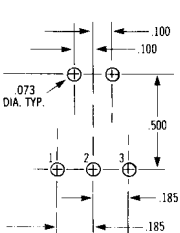
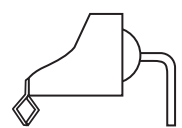
BUSHING OPTIONS

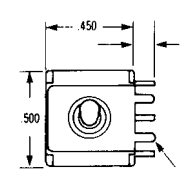
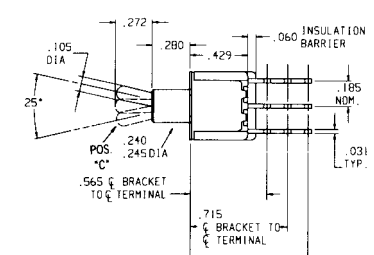
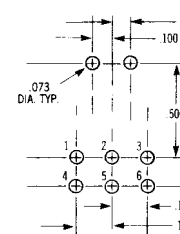
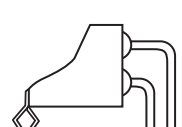
CX Threaded with Lever Seal Y Threaded Y9 Smooth (No Keyway) Y91 Smooth w / Keyway NEW	D Threaded D9 Smooth (No Keyway) D91 Smooth w / Keyway D8 Smooth w / Flat NEW	H High Torque Flatted with Shoulder
H4 8mm Threaded High Torque NEW	H3 High Torque	H31 (.315") Threaded High Torque NEW
Y1 (.370") Threaded High Torque Y4 (.370") Flat Threaded High Torque NEW	Y5 Long Bushing (.437")	T&TX Bushing for T, T1 and T2 Bats
CW Splashproof Sealed Lever and Panel Seal	TW Splashproof Sealed Lever and Panel Seal	P Anti-Rotation

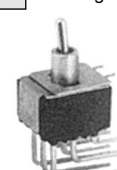
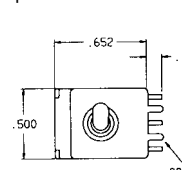
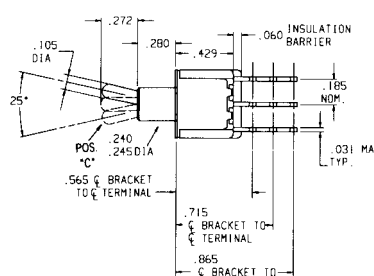
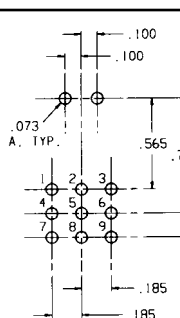
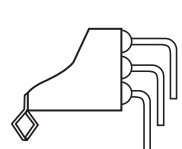
TERMINATION SWITCHES

C	Printed Circuit	W	Wire-Wrap	W1	Wire-Wrap	W3	Wire-Wrap	W4	Wire-Wrap	Z	Standard	Z3	Quick Connect
													
											Not available in K, L, and M contact materials.		

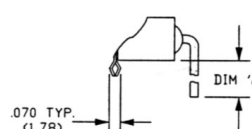
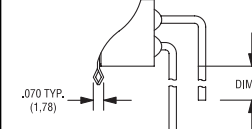
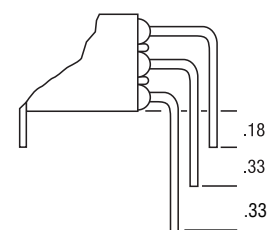
TERMINATION / MOUNTING SWITCHES

A	Right Angle PC
A3	Std. Right Angle Snap in
	   
ONE POLE	Terminal bend radii manufacturing option.

A	Right Angle PC
A3	Std. Right Angle Snap in
	   
TWO POLE	Terminal bend radii manufacturing option.

A	Right Angle PC
A3	Std. Right Angle Snap in
	   
THREE POLE	Terminal bend radii manufacturing option.

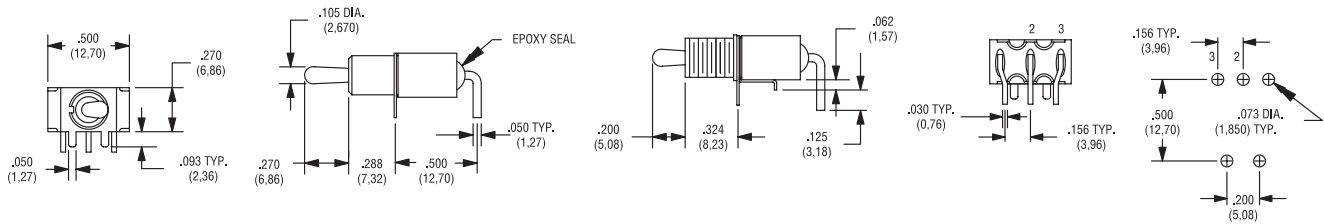
EXTENDED TERMINAL OPTIONS (Right Angle PC Terminals)

AW	AW1	AW3	AW4	Right Angle, Extended PC Thru-Hole	AW	AW1	AW4	Right Angle, Extended PC Thru-Hole	AW4	Right Angle, Extended PC Thru-Hole																								
NEW					NEW				NEW																									
																																		
ONE POLE					TWO POLE					THREE POLE																								
<table><tr><th>OPTION CODE</th><th>DIM "A"</th></tr><tr><td>AW</td><td>.50</td></tr><tr><td>AW1</td><td>.72</td></tr><tr><td>AW3</td><td>.20</td></tr><tr><td>AW4</td><td>.83</td></tr></table>				OPTION CODE	DIM "A"	AW	.50	AW1	.72	AW3	.20	AW4	.83		<table><tr><th>OPTION CODE</th><th>DIM "A"</th></tr><tr><td>AW</td><td>.19</td></tr><tr><td>AW1</td><td>.40</td></tr><tr><td>AW4</td><td>.50</td></tr></table>				OPTION CODE	DIM "A"	AW	.19	AW1	.40	AW4	.50		<table><tr><td></td><td>.18</td></tr><tr><td></td><td>.33</td></tr><tr><td></td><td>.33</td></tr></table>		.18		.33		.33
OPTION CODE	DIM "A"																																	
AW	.50																																	
AW1	.72																																	
AW3	.20																																	
AW4	.83																																	
OPTION CODE	DIM "A"																																	
AW	.19																																	
AW1	.40																																	
AW4	.50																																	
	.18																																	
	.33																																	
	.33																																	

TERMINATION / MOUNTING OPTIONS

A2 Right Angle PC .156" Spacing

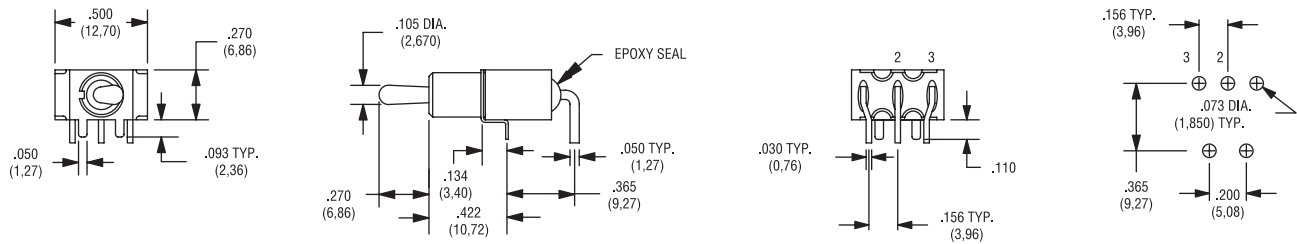
NEW



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.

A4 Right Angle PC .156" Spacing

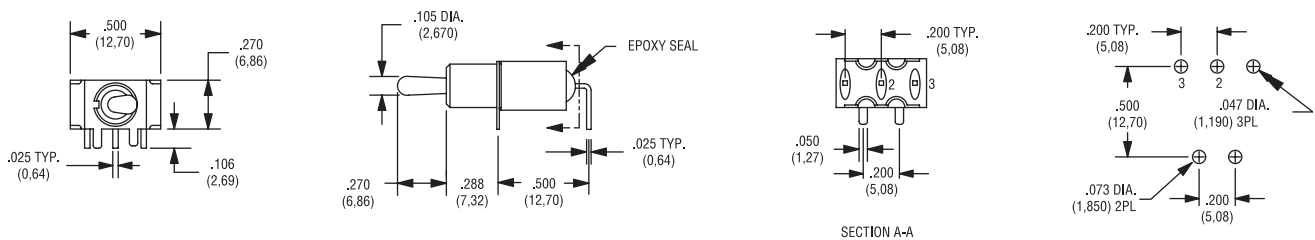
NEW



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

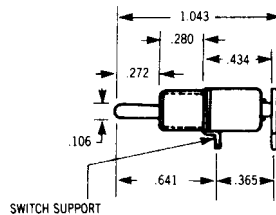
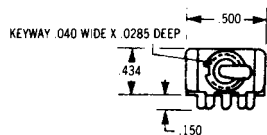
NEW



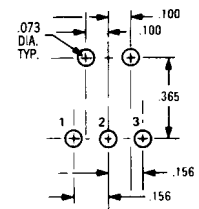
SECTION A-A

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



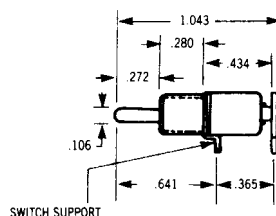
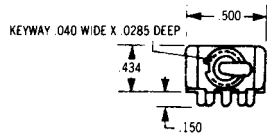
Contacts
Make on
Same Side
Toggle
Thrown



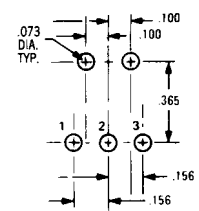
ONE POLE

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. Not UL or CSA recognized.

R2 Right Angle Opposite Throw



Contacts
Make on
Opposite Side
Toggle
Thrown



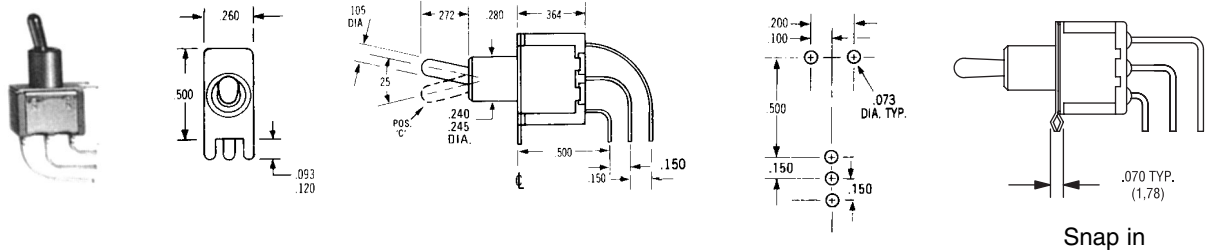
ONE POLE

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

NEW

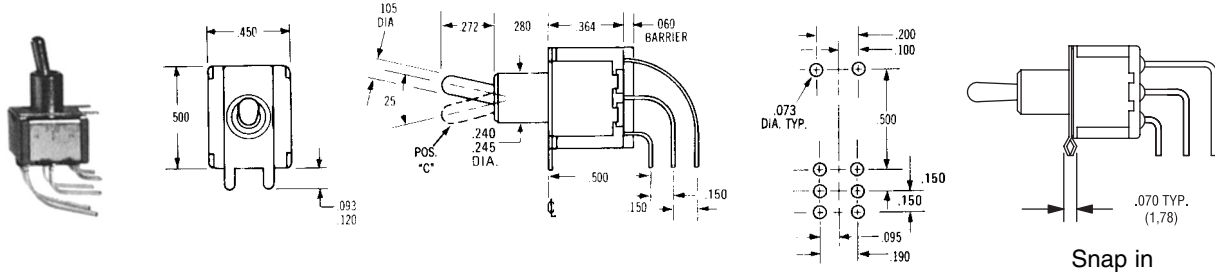


ONE POLE

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

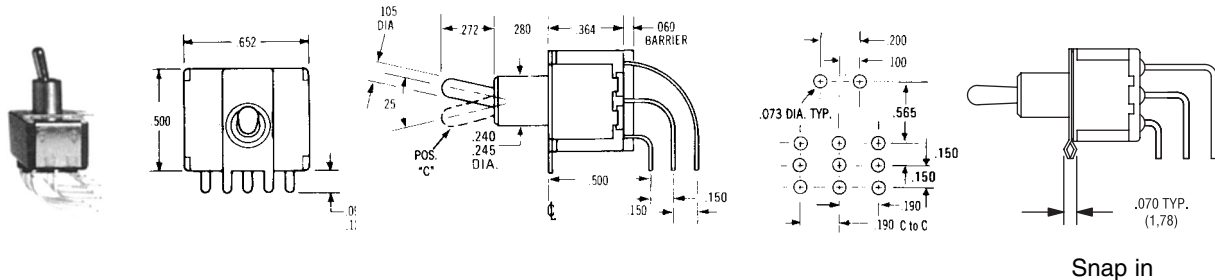


TWO POLE

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

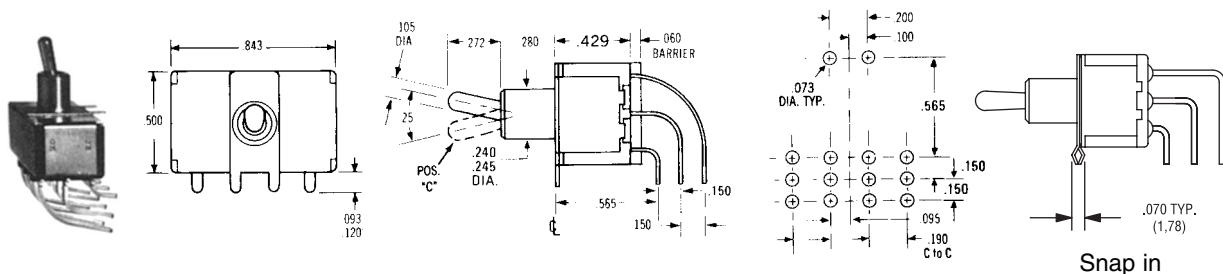


THREE POLE

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



FOUR POLE

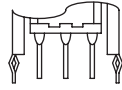
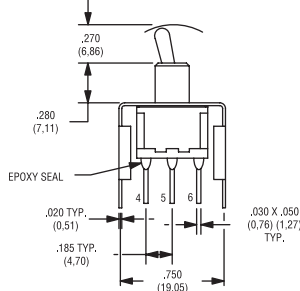
Terminal bend radii manufacturing option.

TERMINATION MOUNTING OPTIONS

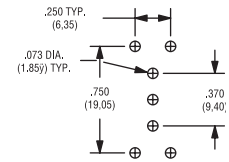
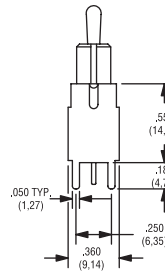
V20 .555" high bracket HD

V21 Snap In HD

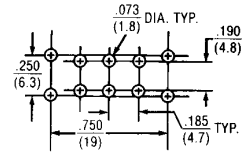
NEW



Snap in



ONE POLE

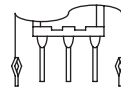
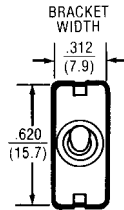
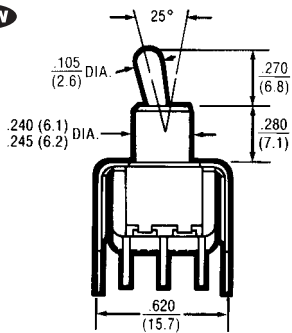


TWO POLE

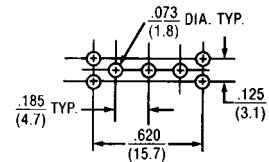
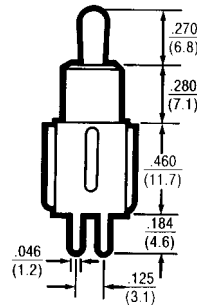
V30 .460" high bracket

V31 Snap In

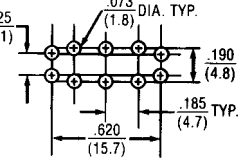
NEW



Snap in



ONE POLE

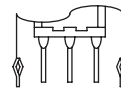
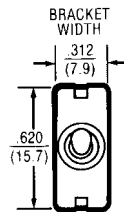
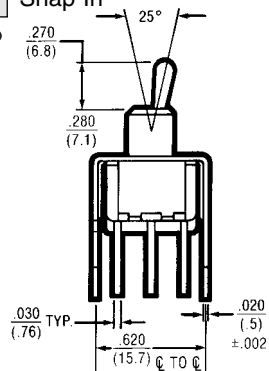


TWO POLE

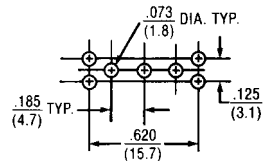
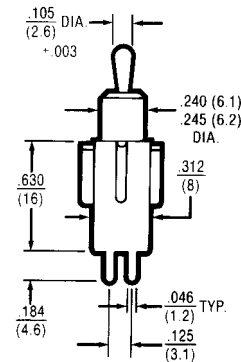
V40 .630" high bracket

V41 Snap In

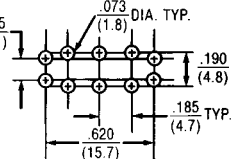
NEW



Snap in



ONE POLE

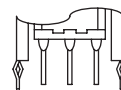
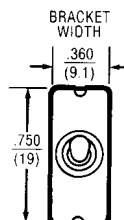
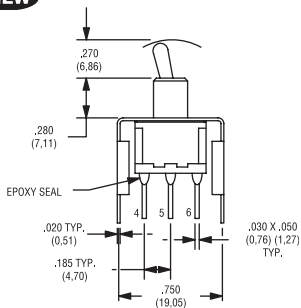


TWO POLE

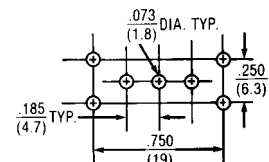
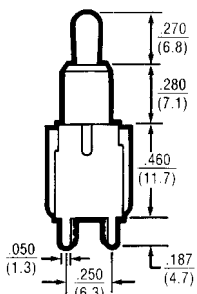
V60 .460" high bracket HD

V61 Snap In HD

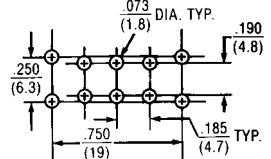
NEW



Snap in



ONE POLE



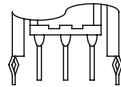
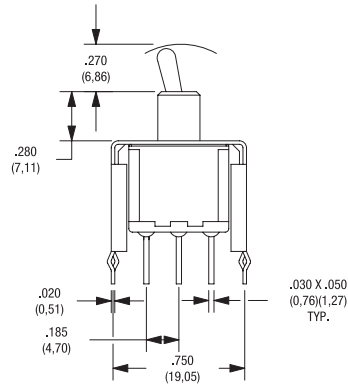
TWO POLE

TERMINATION / MOUNTING OPTIONS

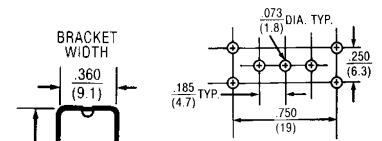
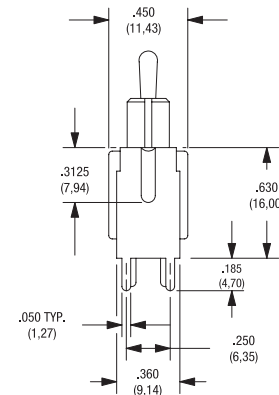
V70 .630" high bracket HD

V71 Snap In HD

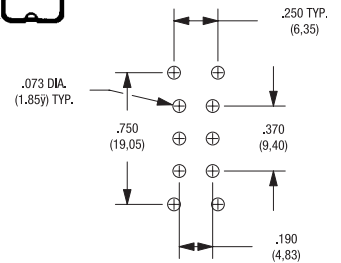
NEW



Snap in



ONE POLE

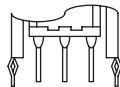
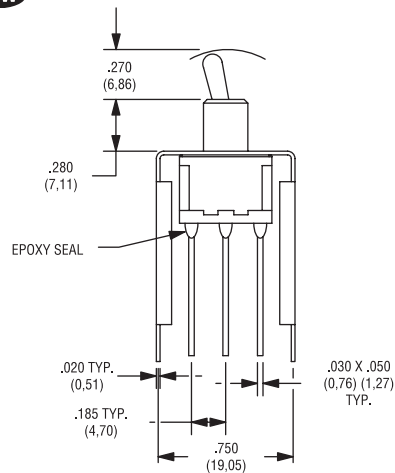


TWO POLE

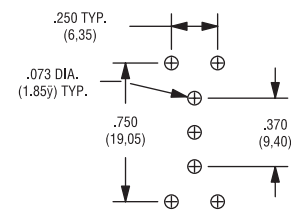
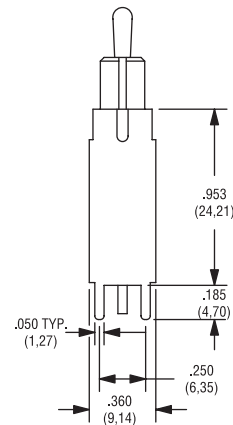
V80 .953" high bracket HD

V81 Snap In HD

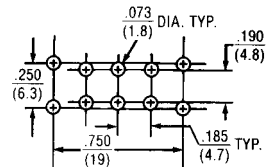
NEW



Snap in



ONE POLE

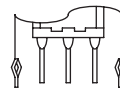
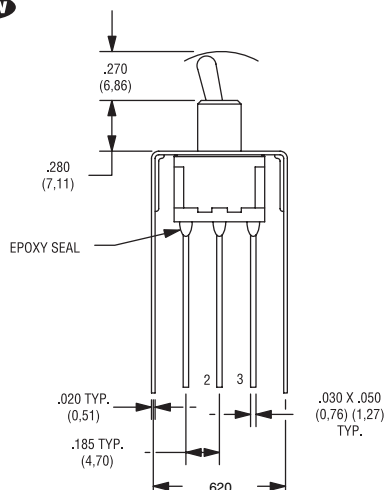


TWO POLE

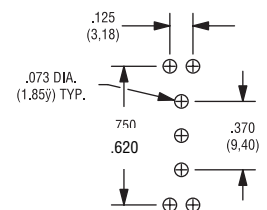
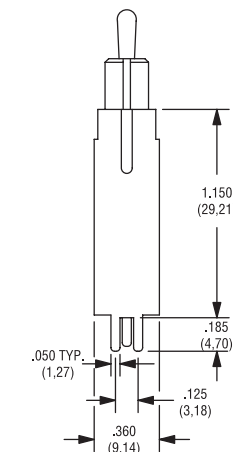
V90 1.150" high bracket

V91 Snap In

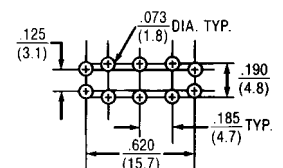
NEW



Snap in



ONE POLE



TWO POLE



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