



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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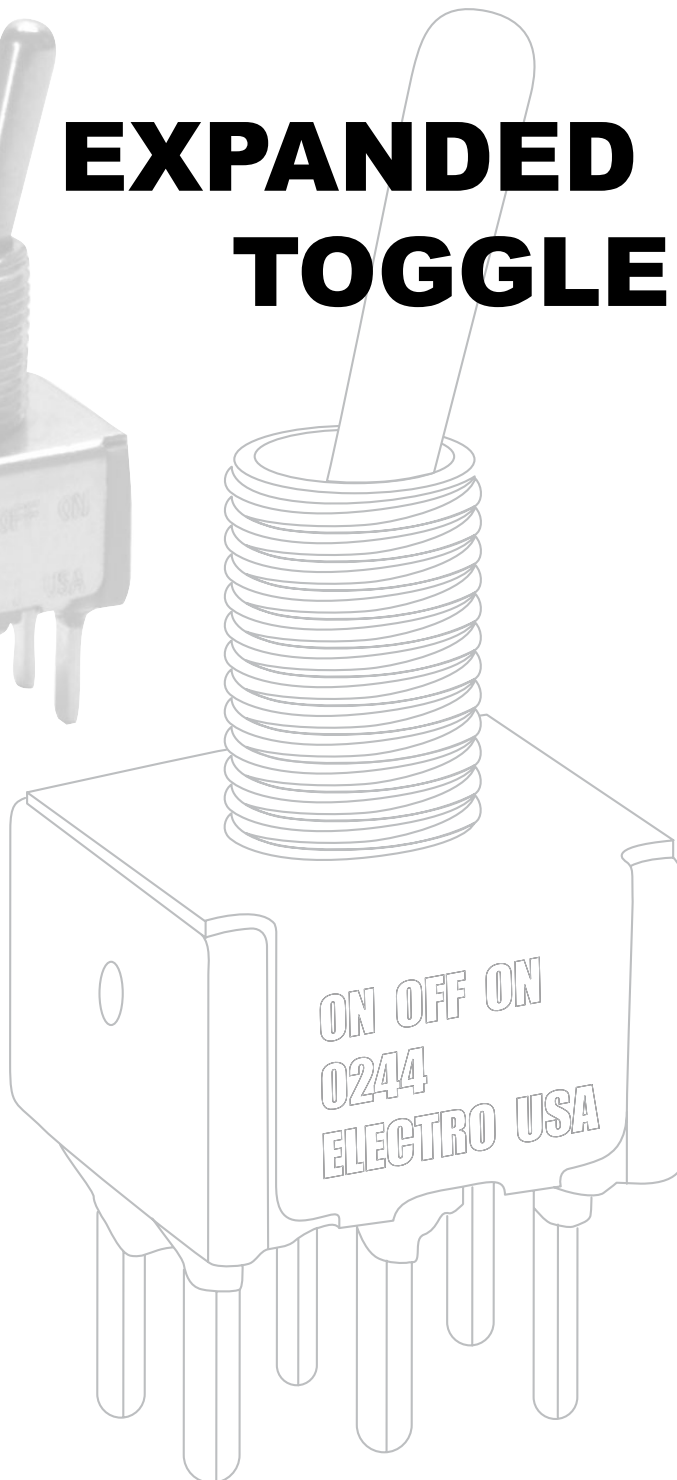




ELECTROSWITCH
• **ELECTRONIC PRODUCTS**

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>

E-mail: sales@electro-nc.com

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

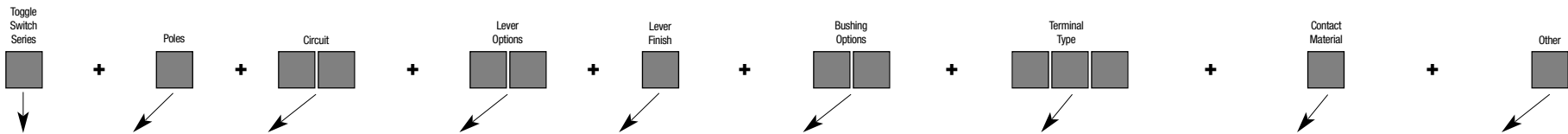


MINIATURE SWITCHES

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



Series	Poles		Circuits			Lever Options		Finishes		Bushing Options		Terminal/Mounting Options		Contact Material		Other Options		
	No.	Code	Keyway Pos. "C"			Type	Code	Finish	Code	Type	Code	Type	Code	Type	Code	Type	Code	
A	1 Pole	1	ON	OFF	ON	21	.410 Bat (Std.)	S	Bright Chrome	1	.350 Threaded (Std.)	Y	Solder Lugs (Std.)	Z	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	Epoxy Sealed Terminals Anti-Rotation	Std. P
	2 Pole	2	ON	NONE	ON	23	.200 Bat (Std.)	M	Satin Chrome	2	.370 Threaded High Torque	Y1	Quick Connect	Z3				
	3 Pole	3	ON	NONE	ON*	26	Flatted Bats		Black	3	.370 Threaded High Torque w/ Flat	Y4	Right Angle PC (Std.)	A				
	4 Pole	4	ON*	OFF	ON*	27	.840 Flat	P1			.437 Threaded	Y5	Right Angle PC / Snap-in	A3				
			ON	OFF	ON*	31	.450 (Std.)	P3			.350 Smooth with Keyway	Y91	Right Angle PC .156	A2				
			ON	ON	ON	32	.250 Flat	P4			.350 Smooth	Y9	Right Angle PC .200	A7				
			ON	ON	ON*	33					.280 Threaded (Std.)	D	Vertical PC .100 Spacing	AV				
			NONE	ON	ON*	34	Longer Bats				.280 Smooth with keyway	D91	Vertical PC .150 Spacing (Std.)	AV2				
			ON*	ON	ON*	35	.840 Bat	L0			.280 Smooth	D9	Vertical PC .150 Snap-in	AV3				
			NONE	ON	ON	53	.640 Bat	L1			.280 Smooth with Flat	D8	Right Angle extended PC	AW				
							.550 Bat	L2			.350 Flatted with Shoulder	H	Right Angle extended PC	AW1				
									L3 and L4 Colors		.350 Keyway with Shoulder	H3	Right Angle extended PC	AW3				
									Black Nylon		.315 Threaded High Torque	H31	Right Angle extended PC	AW4				
									Red Nylon		8mm Threaded High Torque	H4	Printed Circuit Terminals (Std.)	C				
									White Nylon		Splashproof lever & Bushing Seal	CW	Right Angle Same Throw	R				
											Splashproof lever Seal Only CX		Right Angle Opposite Throw	R2				
													.555 PC Support Bracket	V20				
													.555 PC Snap-In Bracket HD	V21				
													.460 PC Support Bracket (Std.)	V30				
													.460 PC Snap-In Bracket	V31				
													.630 PC Support Bracket	V40				
													.630 PC Snap-In Bracket	V41				
													.460 PC Support Bracket	V60				
													.460 PC Snap-In Bracket HD	V61				
												.630 PC Support Bracket	V70					
												.630 PC Snap-In Bracket HD	V71					
												.953 PC Support Bracket	V80					
												.953 PC Snap-In Bracket HD	V81					
												1.150 PC Support Bracket	V90					
												1.150 PC Snap-In Bracket	V91					
												.750 Wire Wrap	W					
												.964 Wire Wrap	W1					
												.425 Wire Wrap	W3					
												1.062 Wire Wrap	W4					

* Momentary Contact

Large Bats
15/32" Bushing
.468 Large
.687 Large
.610 Flatted

Lever Locking Actuators
Std. taper threaded
Dome threaded
Dome unthreaded
Taper threaded
Taper unthreaded

Plastic Bats
.840 Plastic
.571 Plastic

15/32" Bushing Options for Large Bats
15/32 Dia. (Std.)
Splashproof Lever & Panel Seal
15/32 Splashproof Lever Seal Only

Lever Locking Actuators
K1
K2
K9
K12
K19

For Locking Lever Only

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

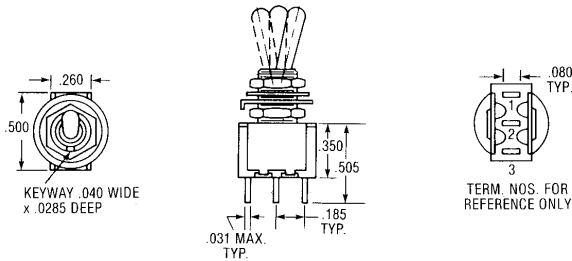
Center Terminal

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

Letter Code Q,M - Silver plated brass.

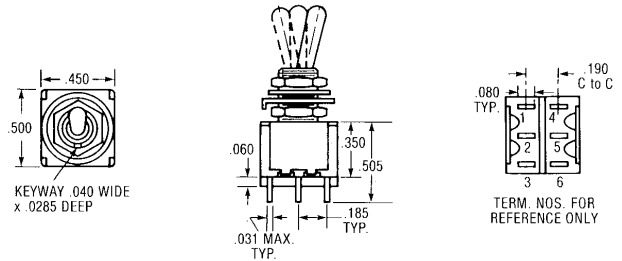
Epoxy sealed terminals are supplied as standard

STANDARD DIMENSIONS & PART NUMBERS



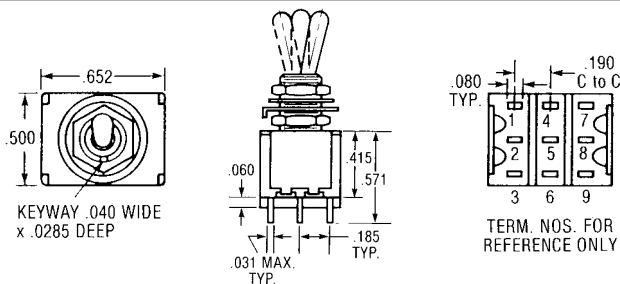
ONE POLE

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



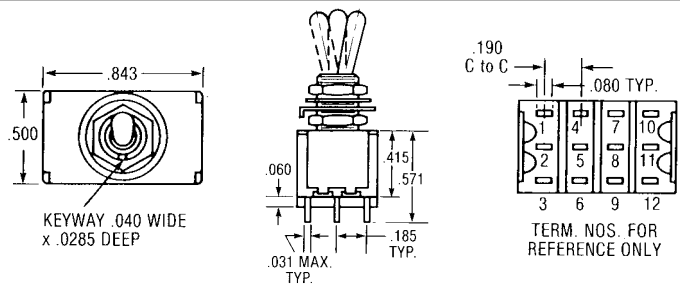
TWO POLE

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

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

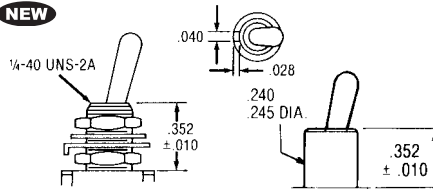
LEVER LOCK BUSHING STYLES

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

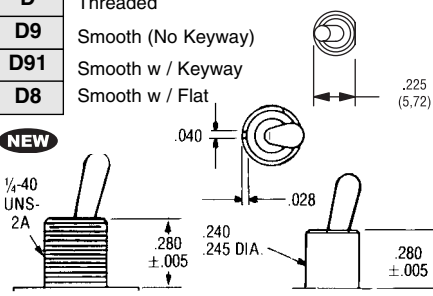
CX	Threaded with Lever Seal
Y	Threaded
Y9	Smooth (No Keyway)
Y91	Smooth w / Keyway

NEW



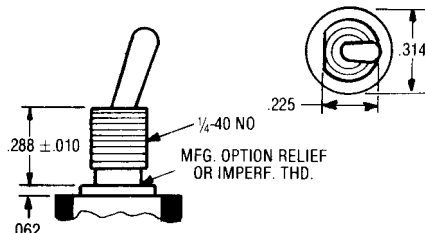
D	Threaded
D9	Smooth (No Keyway)
D91	Smooth w / Keyway
D8	Smooth w / Flat

NEW



Add 0.070 to actuator length when using a .280 long bushing.

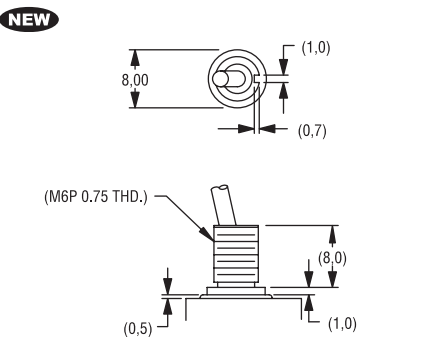
H	High Torque Flatted with Shoulder
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WILL WITHSTAND 12 IN.-LBS. OF TORQUE WITH NO DISTORTION

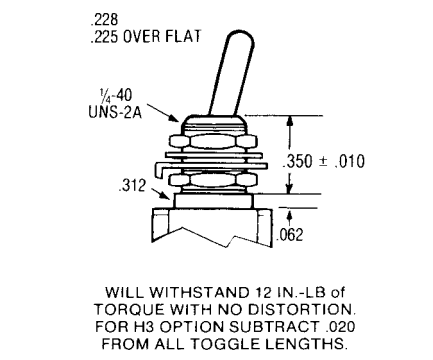
H4	8mm Threaded High Torque
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NEW



Will withstand 12 in-lbs of torque with no distortion.

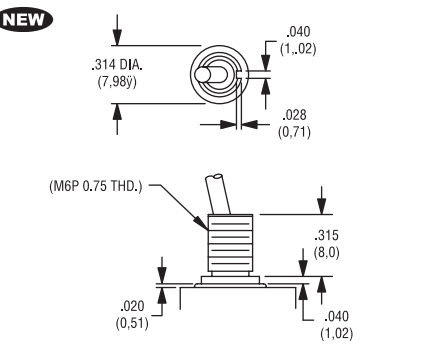
H3	High Torque
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WILL WITHSTAND 12 IN.-LB OF TORQUE WITH NO DISTORTION. FOR H3 OPTION SUBTRACT .020 FROM ALL TOGGLE LENGTHS.

H31	(.315") Threaded High Torque
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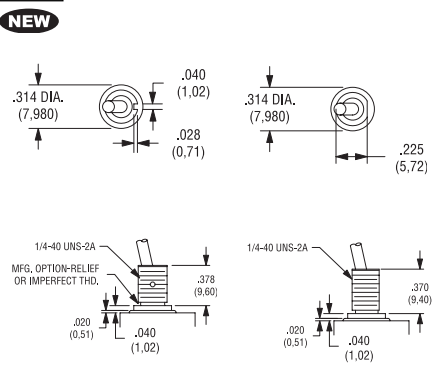
NEW



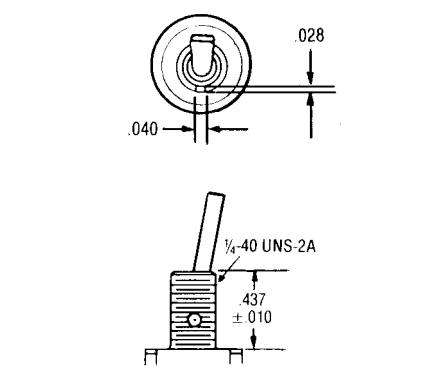
Will withstand 12 in-lbs of torque with no distortion.

Y1	(.370") Threaded High Torque
Y4	(.370") Flat Threaded High Torque

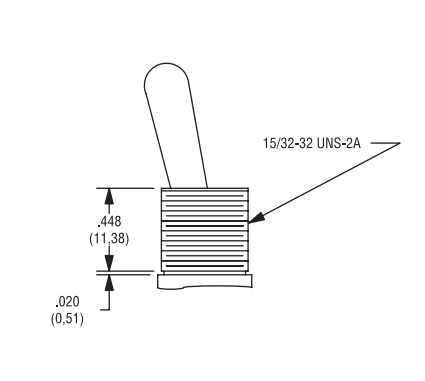
NEW



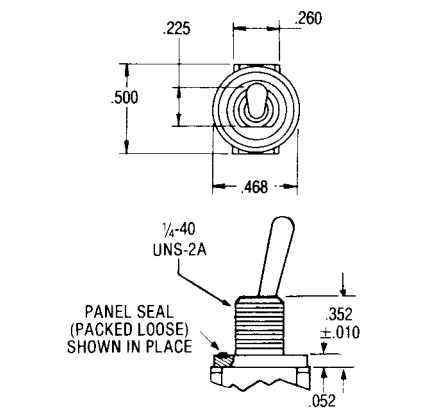
Y5	Long Bushing (.437")
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T&TX	Bushing for T, T1 and T2 Bats
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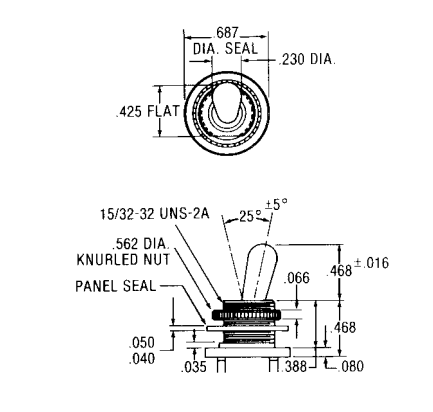


CW	Splashproof Sealed Lever and Panel Seal
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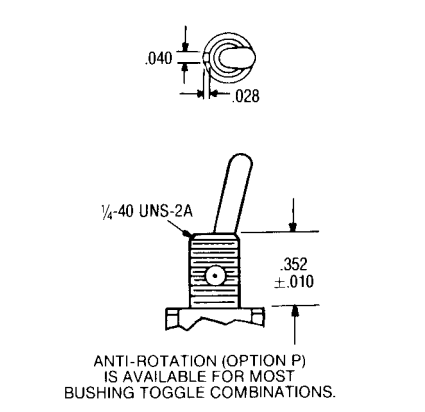


PANEL SEAL (PACKED LOOSE) SHOWN IN PLACE

TW	Splashproof Sealed Lever and Panel Seal
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P	Anti-Rotation
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ANTI-ROTATION (OPTION P) IS AVAILABLE FOR MOST BUSHING TOGGLE COMBINATIONS.

Anti rotation for 15/32" bushing not done w/pin.

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 A3	Right Angle PC Std. Right Angle Snap in						ONE POLE	Terminal bend radii manufacturing option.
A A3	Right Angle PC Std. Right Angle Snap in						TWO POLE	Terminal bend radii manufacturing option.
A A3	Right Angle PC 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		<table border="1"> <thead> <tr> <th>OPTION CODE</th> <th>DIM "A"</th> </tr> </thead> <tbody> <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> </tbody> </table>	OPTION CODE	DIM "A"	AW	.50	AW1	.72	AW3	.20	AW4	.83	ONE POLE	NEW		<table border="1"> <thead> <tr> <th>OPTION CODE</th> <th>DIM "A"</th> </tr> </thead> <tbody> <tr> <td>AW</td> <td>.19</td> </tr> <tr> <td>AW1</td> <td>.40</td> </tr> <tr> <td>AW4</td> <td>.50</td> </tr> </tbody> </table>	OPTION CODE	DIM "A"	AW	.19	AW1	.40	AW4	.50	TWO POLE	NEW		THREE POLE
OPTION CODE	DIM "A"																											
AW	.50																											
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AW4	.83																											
OPTION CODE	DIM "A"																											
AW	.19																											
AW1	.40																											
AW4	.50																											

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 Throw

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 Throw

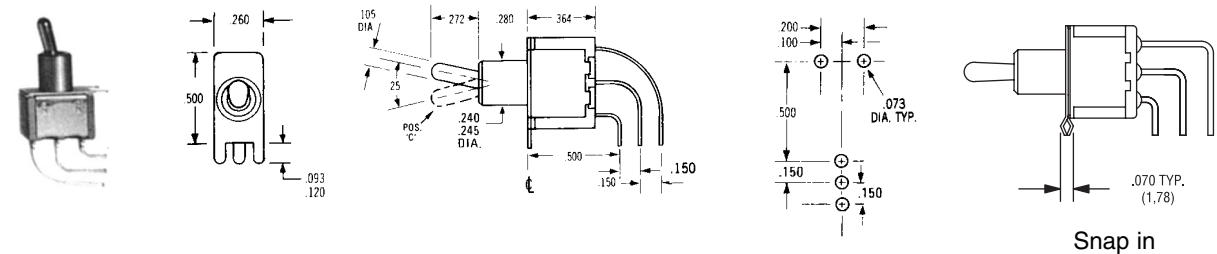
ONE POLE

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

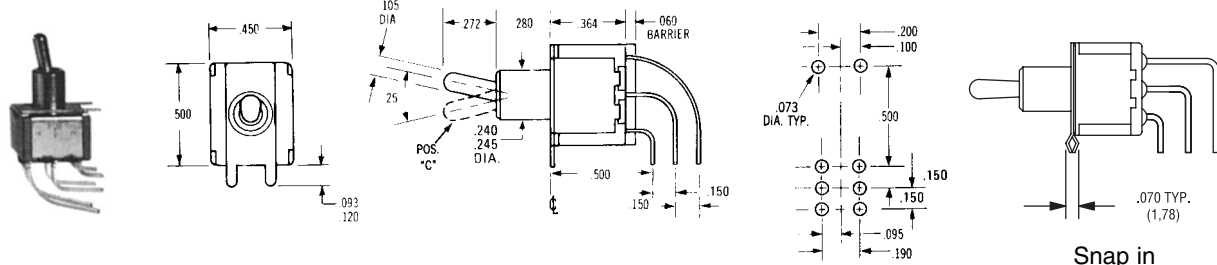


ONE POLE

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

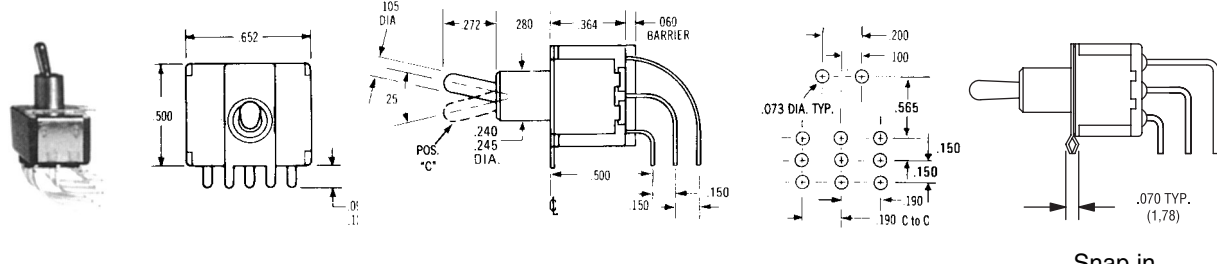


TWO POLE

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

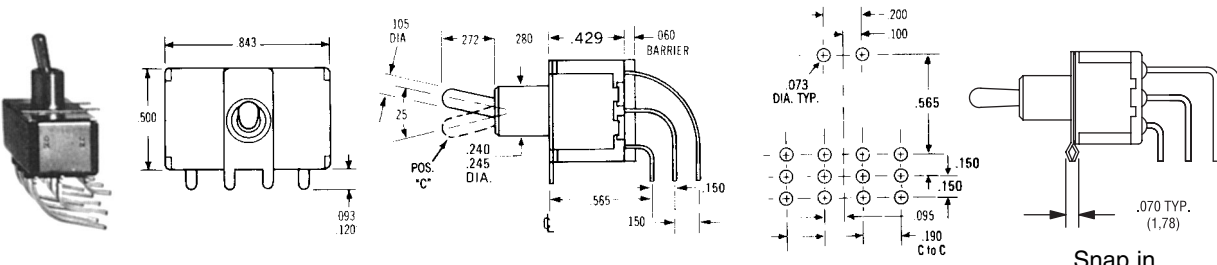


THREE POLE

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

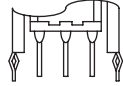
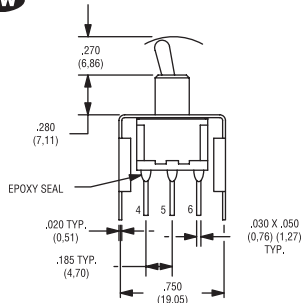
Terminal bend radii manufacturing option.

TERMINATION MOUNTING OPTIONS

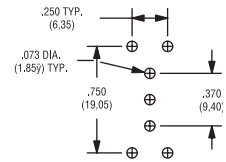
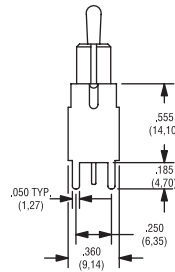
V20 .555" high bracket HD

V21 Snap In HD

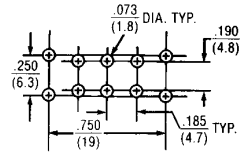
NEW



Snap in



ONE POLE

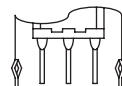
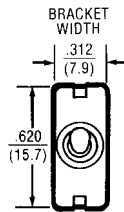
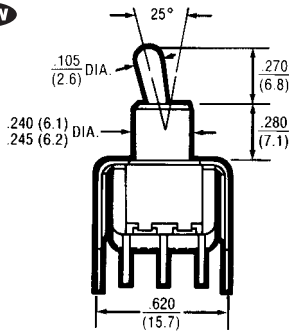


TWO POLE

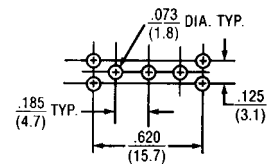
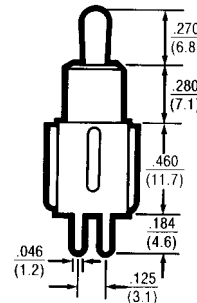
V30 .460" high bracket

V31 Snap In

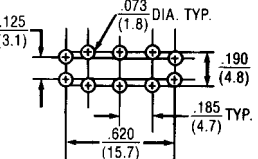
NEW



Snap in



ONE POLE

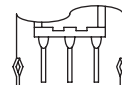
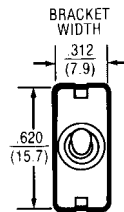
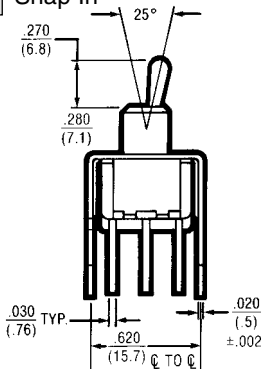


TWO POLE

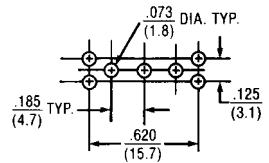
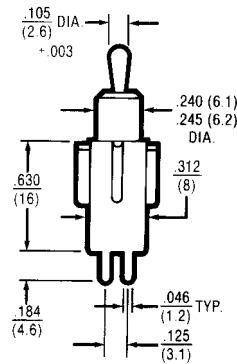
V40 .630" high bracket

V41 Snap In

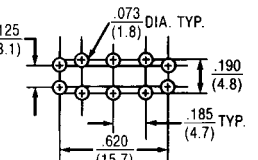
NEW



Snap in



ONE POLE

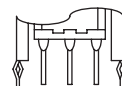
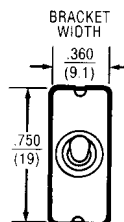
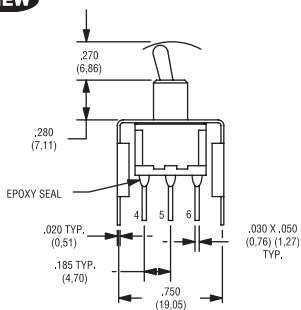


TWO POLE

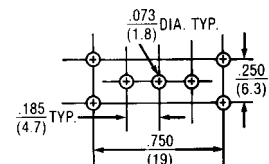
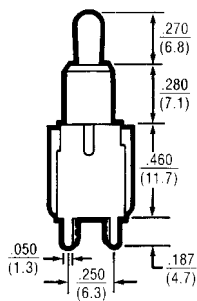
V60 .460" high bracket HD

V61 Snap In HD

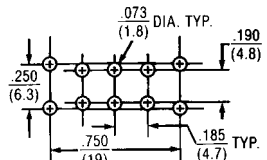
NEW



Snap in



ONE POLE

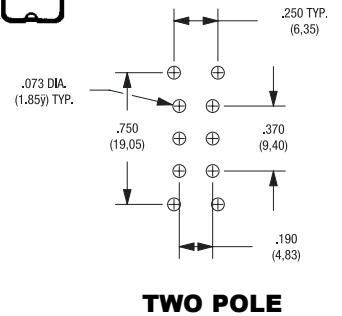
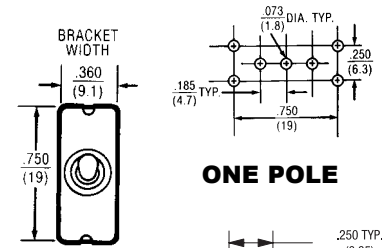
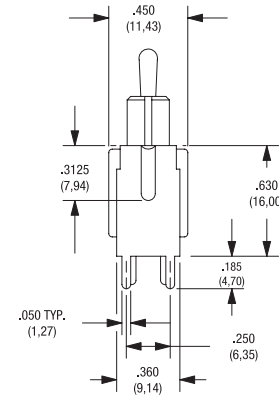
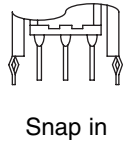
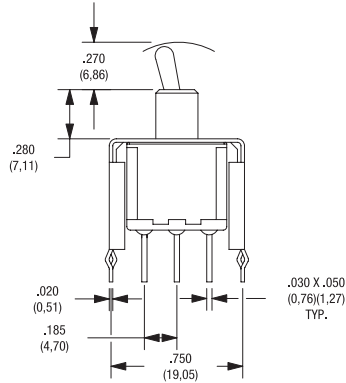


TWO POLE

TERMINATION / MOUNTING OPTIONS

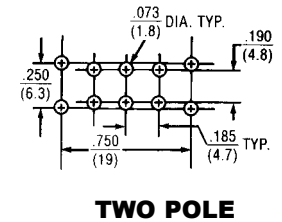
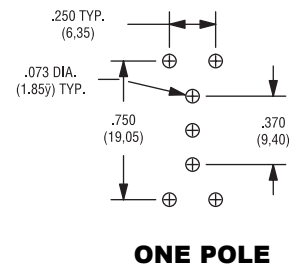
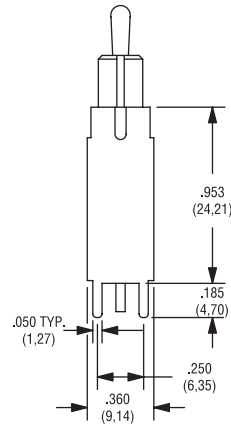
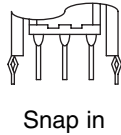
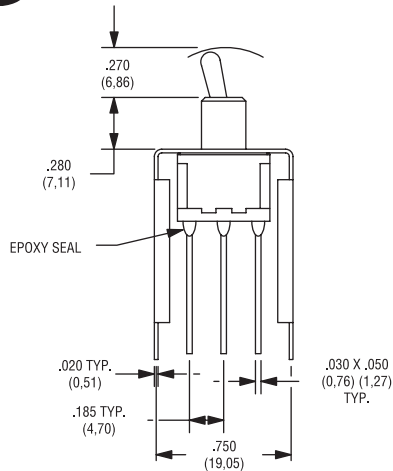
V70 .630" high bracket HD
V71 Snap In HD

NEW



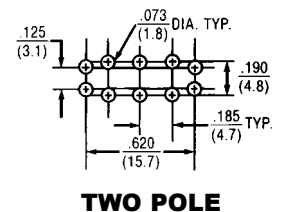
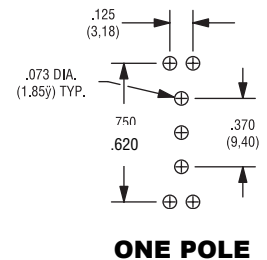
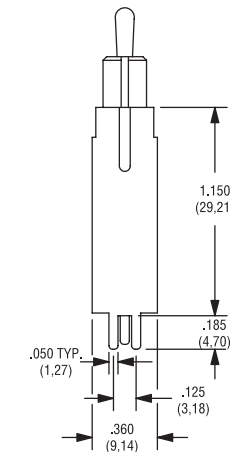
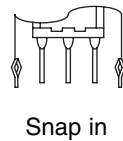
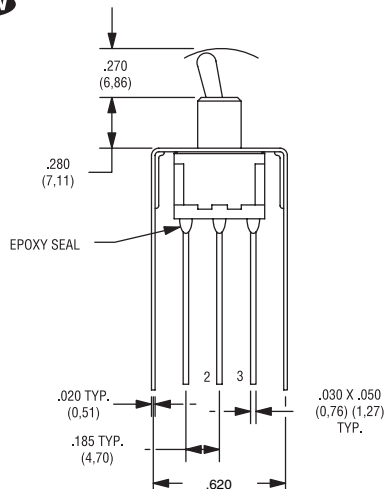
V80 .953" high bracket HD
V81 Snap In HD

NEW



V90 1.150" high bracket
V91 Snap In

NEW





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