

### FEATURES

- Dry circuit through power ratings.
- Compact size SPST momentary and alternate action models with numerous options.
- Panel, panel & p.c. and p.c. mounting models, lighted and unlighted.

#### **SPECIFICATIONS**

Contact ratings & life:	<ul> <li>(Q) power models - coin silver: 1 Amp at 125 VAC or 28 VDC or 0.5 Amps at 250 VAC - electric life 250,000 cycles min. 3 Amps at 125 VAC or 28 VDC, or 1.5 Amps at 250 VAC - electric life 10,000 cycles min. (All previous loads are resistive).</li> <li>(B) dry circuit models - gold over nickel over brass: 0.4 VA max. at 20 V maxelectric life 250,000 cycles min.</li> <li>UL models - coin silver: 1 Amp at 125 VAC or 0.5 Amps at 250 VAC (75% power factor). UL file no. E66367.</li> </ul>
Initial contact resistance:	10 milliohms max. at 3 VDC, 0.1 Amp.
Insulation resistance:	Greater than 10,000 megohms.
Dielectric strength:	1000 Volts RMS min. at sea level.
Operating temperature range:	-30°C to +85°C

#### MATERIALS

Contacts:	Coin silver for power & UL models. Gold over nickel over brass for dry circuit models.
Actuator:	Nylon. Black color is standard for 300 Series. White is standard for 400 Series.
Bushing:	Nickel plated brass
Base:	DAP, color blue.
Terminal seal:	Epoxy (standard)
Support bracket:	Brass or steel, tin plated
Spring mounting bracket:	Stainless steel
Bezel & cap:	Nylon. Available in black, red or white. Consult factory for other colors.
Hardware:	See Miscellaneous section.
LED:	Intensity: 2.0 mcd at 10 mA. Forward voltage: 2.0V (3.0V max.). Max. contin- uous forward current: 30 mA at 25°C. Red standard - yellow & green are op- tional. Specifications are subject to change without notice - consult factory.

AGENCY RECOGNITION

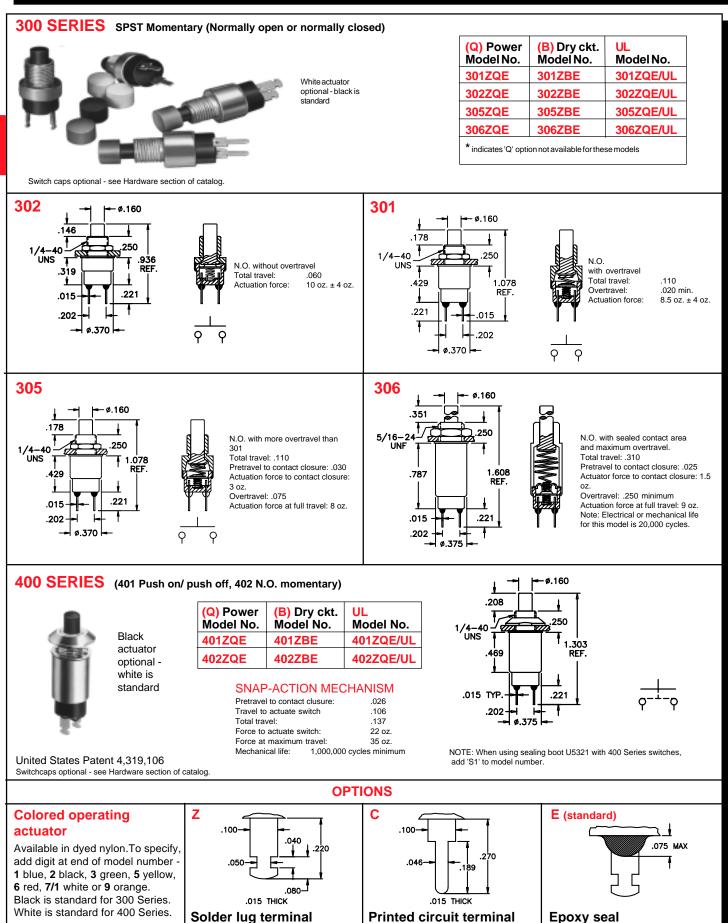
UL Marking: Switches ordered with '/UL' added at end of model no. are supplied with recognized mark.

#### **ABOUT THIS SERIES**

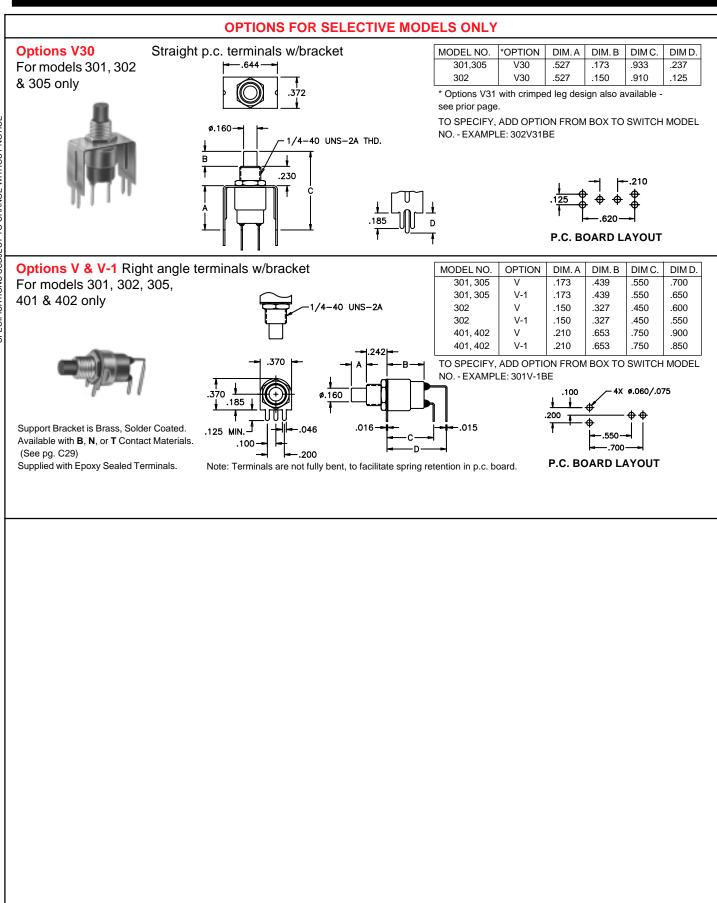
The material in this series is organized in the following sequence:

- a. Completely specified switch models & options b. 'build your own switch' order format
- c. Additional options & panel cut-outs

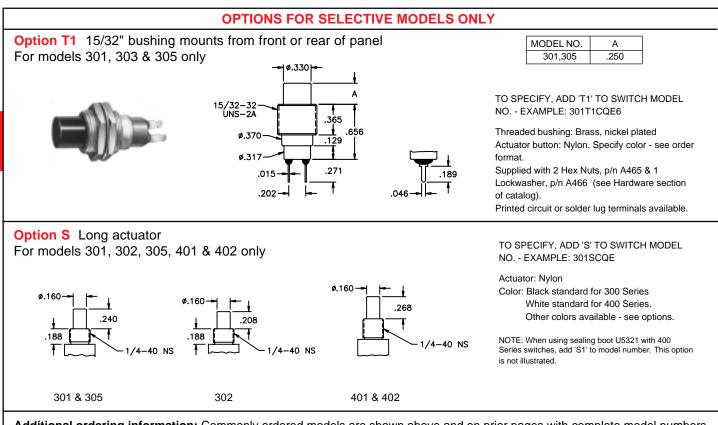
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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



L26 APEM, 63 NECK ROAD, HAVERHILL, MA USA 01835 TOLL FREE: (877) 246-7890 FAX: (978) 372-3534 E-mail: info@apem.com



Additional ordering information: Commonly ordered models are shown above and on prior pages with complete model numbers and specifications. Below is an order format that enables you to 'build your own switch' and specify the correct switch model number by simply selecting from all available options shown and filling in the boxes.

#### 'BUILD YOUR OWN SWITCH' ORDER FORMAT

Fill in boxes with selections shown for Model Structure, then add Options selections for complete model number. Allowable options are shown below each respective box with brief description - see option dwgs. & info. following. Notes: 'NONE' indicates box may be left empty. Not all combinations can be made - see other pages of Series.

#### Model Structure:

	Series	Actuators	Bushings	Terminations 	Contact materials Sealing
	3       0       1         3       0       2         3       0       5         3       0       6         4       0       1         4       0       2	(NONE) S Long (see dwg specify for all models with bezels- not available for 306). S 1 For 400 Series switches used with sealing boot U5321 only.	(NONE) T 1 15/32" thd'd. (see dwg - for 301, 303 & 305 only).	<ul> <li>Z Solder lug</li> <li>C Printed circuit</li> <li>V Right angle p.c. term-</li> <li>V 1 inals for 301, 302, 305, 401 &amp; 402 only (see dwg.)</li> <li>V 3 0 Straight p.c. terminals</li> </ul>	B Gold Epoxy Q Coin silver terminal (Not avail- seal is able with standard 303 & 304) N Economy gold T Economy silver
	Recognition	S			Switch caps for switches without bezels also available - see Hardware section of catalog.
	(NONE) /UL				Example of completely specified model number: <b>301SZQE/UL</b>
Although	n most combir	nations of options	are available, some may re	esult in incompatibilities. Consult factor	y if there is any question.

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	CONTACT MATERIAL OPTIONS					
	В	Dry circuit - gold over nickel over brass. RATING: 0.4 Volt-Amps (VA) max. at 20 V max. ELECTRIC LIFE: 250,000 cycles minimum.				
DTICE	Q	Power circuit - coin silver. RATING: 1 Amp at 120 VAC or 28 VDC or 0.5 Amps at 250 VAC. ELECTRIC LIFE: 250,000 cycles minimum at full load. Also - 3 Amps at 120 VAC or 28 VDC or 1.5 Amps at 250 VAC. ELECTRIC LIFE: 10,000 cycles minimum at full load.				
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE	G	Dry circuit or power circuit - gold over nickel over coin silver RATINGS & ELECTRIC LIFE: Same as B & Q above -i.e can be used in either dry circuit or power circuit, however or used in power circuit, switch cannot be re-used in dry circuit. This option permits customers to inventory one switch to satisfy either application,				
CT TO CHANGE	N	Satisfy either application, Dry circuit - gold over nickel over coin silver. RATING: 0.4 Volt-Amps (VA) max. at 20 V max. Note- less gold than B option. ELECTRIC LIFE: 10,000 cycles min. at 13 cycles per minute.				
IONS SUBJEC	т	Power circuit - Silver plate over brass. RATING: 0.5 Amps at 120 VAC or 0.25 Amps at 250 VAC (resistive loads). ELECTRIC LIFE: 10,000 cycles min. at 13 cycles per minute.				
ECIFICAT		Solder dipped terminals and custom contact plating available - contact factory.				
<u>ч</u>		UL OPTION				
	/UL For power circuits - coin silver RATING: 1.0 Amps at 125 VAC or 0.5 Amps at 250 VAC (75% power factor). Underwriter Laboratories file no. E66367. Note - applicable only to terminations with coin silver contacts (Q or G options).					
F		HARDWARE				
	HARD	NARE SUPPLIED				
	(See H	ardware section of catalog)				
	Panel mounted 300 Series switches with threaded 1/4" bushing are supplied with 1 Hex Nut A112 and 1 Lockwasher A115.					
	Panel mounted 300 Series switches with threaded 15/32" bushing are supplied with 2 Hex Nuts A465 and 1 Lockwasher A466.					
	Panel mounted 306 Series switches with threaded 5/16" bushing are supplied with 1 Hex Nut A713 and 1 Lockwasher A734.					
	Panel mounted 400 Series switches with threaded bushing are supplied with 1 Panel Dress Nut A274 and 1 Lockwasher A115.					
	PANEL CUT-OUTS					
		Ø.250±.003				
	Accepts all 1/4" threaded bushings Accepts all 15/32" threaded bushings					