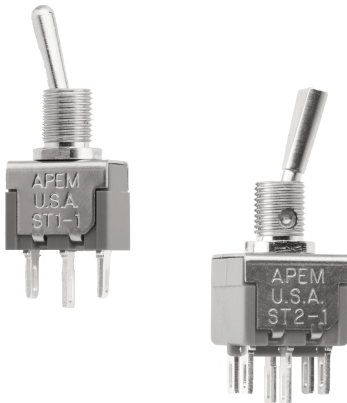


# ST series

## Miniature toggle switches

Distinctive features and specifications



- ☐ Dry circuit through power ratings.
- ☐ Ultra-rugged construction SPDT & DPDT models with numerous options.
- ☐ PC and panel mount models.

### ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load :
  - gold over nickel plated brass contacts : 0.4VA - 20V Max.
  - coin silver contacts: 6A 125VAC, 3A 250VAC, 7A 30VDC
- Initial contact resistance: 3 milliohms max. at 3VDC, 0.1 Amp.
- Insulation resistance: 2,000 MΩ min. between terminals & case ground.
- Dielectric strength: 2,000 VAC for 1 minute between terminals & case ground.
- Electrical life: 100,000 cycles at full load for ST1-1 and ST2-1, all other models 40,000 cycles

### MATERIALS

- Case : Diallylphthalate (DAP), color blue
- Actuator : Brass, bright nickel or chrome plated.
- Bushing: nickel plated brass
- Strap: stainless steel
- Contacts
  - B: Gold
  - Q: Coin silver
  - G: Gold over silver
- Terminal seal: epoxy

### GENERAL SPECIFICATIONS

- Operating temperature : -30°C to +85°C

### AGENCY APPROVAL



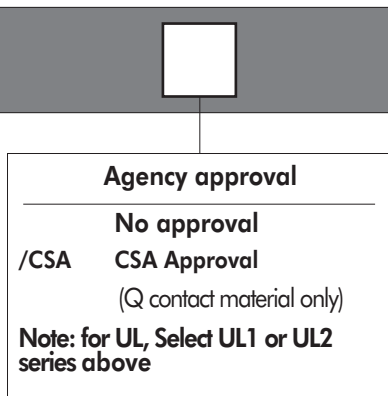
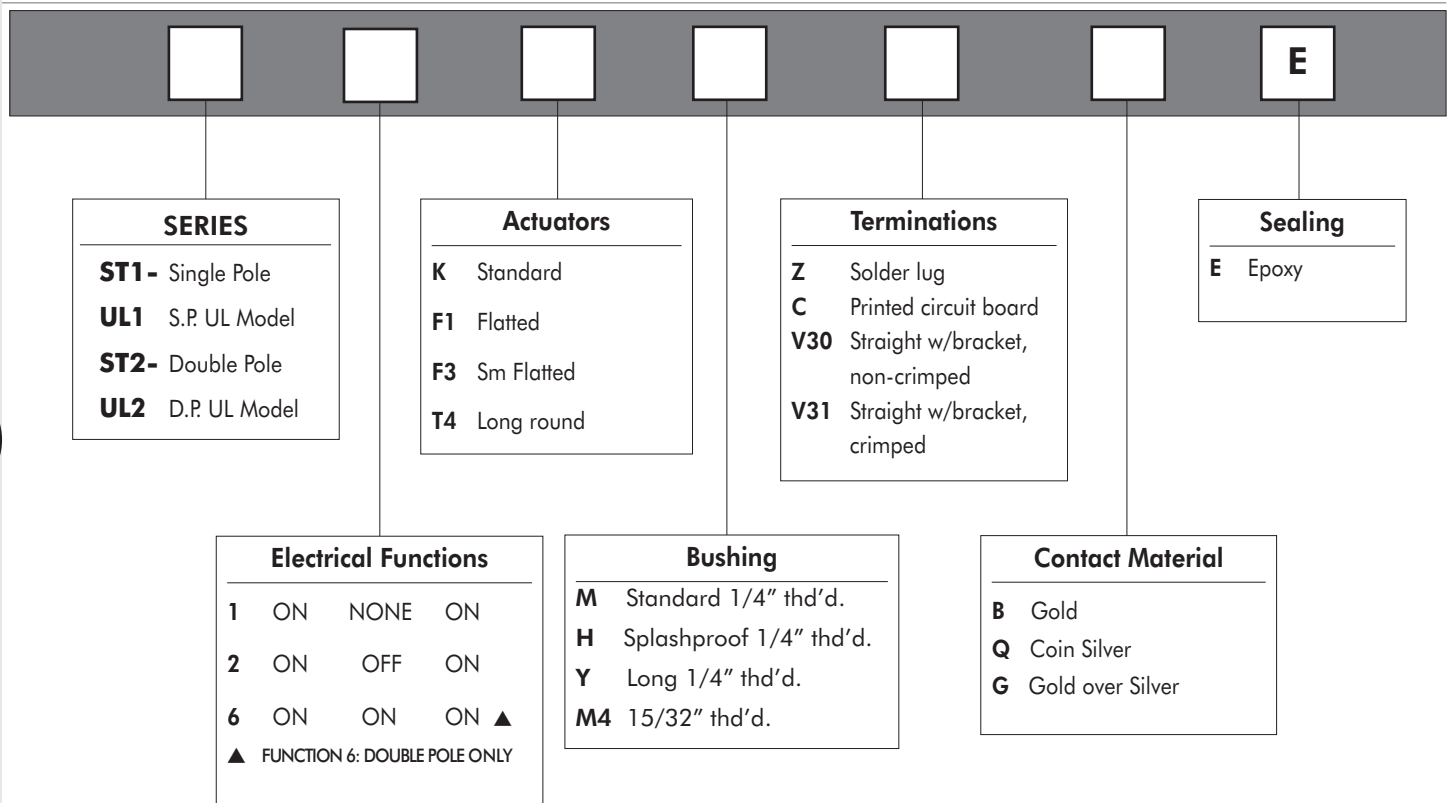
**Availability:** All models with coin silver contacts (Q) only.

**Marking:** To order switches marked UL use "UL" prefix for series designation. For CSA marking, complete appropriate box on ordering format.

# ST series

## Miniature toggle switches

### Overview



#### ABOUT THIS SERIES

On the following pages, you will find successively :

- model structure of switches
- options in the same order as in above chart

**Dimensions** : first dimensions are in mm while inches are shown as bracketed numbers.



**Sealing boots** are available to protect the switches against dust and water. They are presented in section H



**Mounting accessories** : standard hardware supplied with all models with Ø 6,35 (1/4) threaded bushing : 2 - 5/16" hex nuts , 1 locking ring and 1 lockwasher.  
Standard and special hardware available are presented in section I.



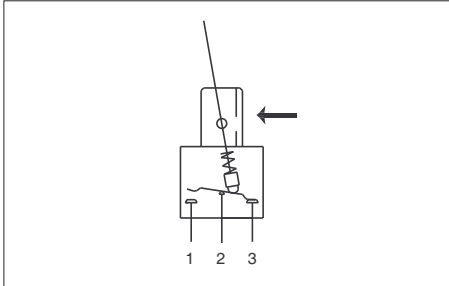
**Packaging unit** : 25 pieces for double pole  
50 pieces for single pole



**NOTICE** : please note that not all combinations of above numbers are available. Refer to the following pages for further information.

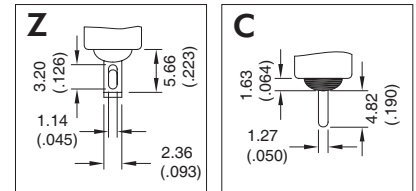
# ST series

## Miniature toggle switches



### Terminations:

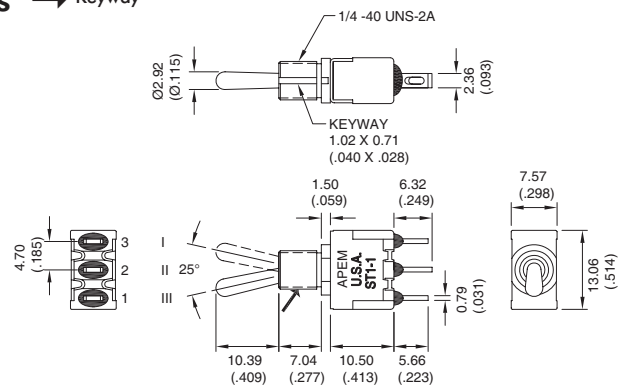
- Solder lug or straight PC terminals
- Epoxy sealed terminals standard



### Single pole panel mount with solder lug terminals → Keyway



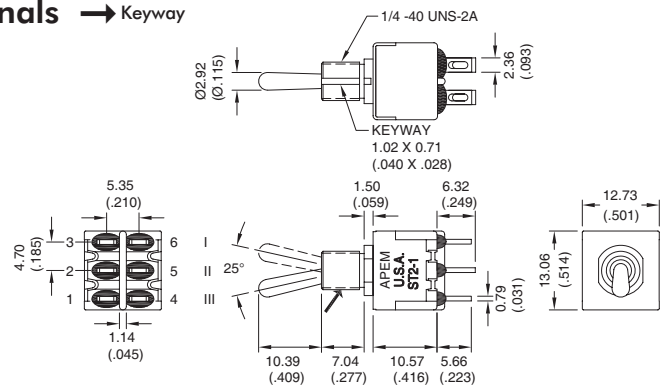
MODEL NO.	UL NO.	I	II	III
		1-2		2-3
<b>ST1-1KMZQE</b>	<b>UL11KMZQE</b>	ON	-	ON
<b>ST1-2KMZQE</b>	<b>UL12KMZQE</b>	ON	OFF	ON



### Double pole panel mount with solder lug terminals → Keyway



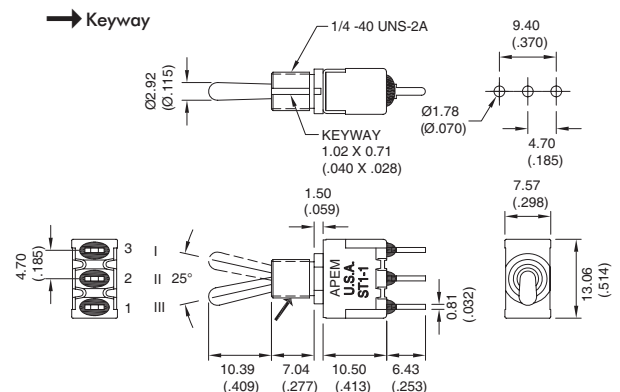
MODEL NO.	UL NO.	I	II	III
		1-2	1-2	2-3
		4-5	5-6	5-6
<b>ST2-1KMZQE</b>	<b>UL21KMZQE</b>	ON	-	ON
<b>ST2-2KMZQE</b>	<b>UL22KMZQE</b>	ON	OFF	ON
<b>ST2-6KMZQE</b>	<b>UL26KMZQE</b>	ON	ON	ON



### Single pole straight PC terminals



MODEL NO.	UL NO.	I	II	III
		1-2		2-3
<b>ST1-1KMCBE</b>	<b>UL11KMCQE</b>	ON	-	ON
<b>ST1-2KMCBE</b>	<b>UL12KMCQE</b>	ON	OFF	ON

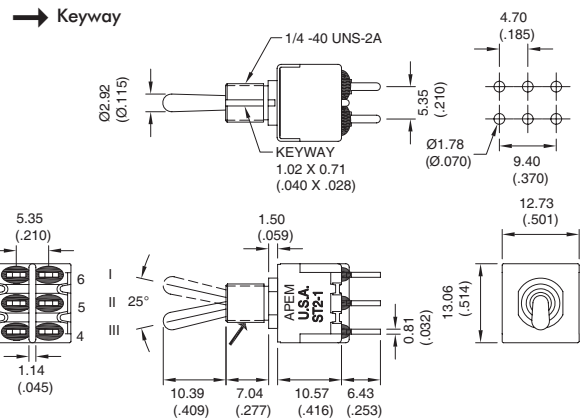


## A

**ST2-1KMCBE    UL21KMCQE**

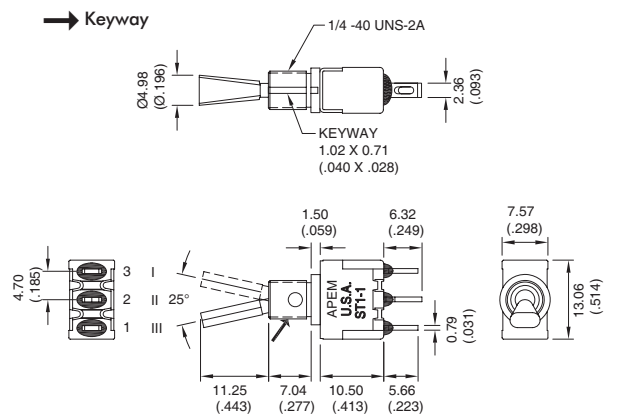
**ST2-2KMCBE UL22KMCQE**

**ST2-6KMCBE UL26KMCQE**



**ST1-1F1MZQE UL11F1MZQE**

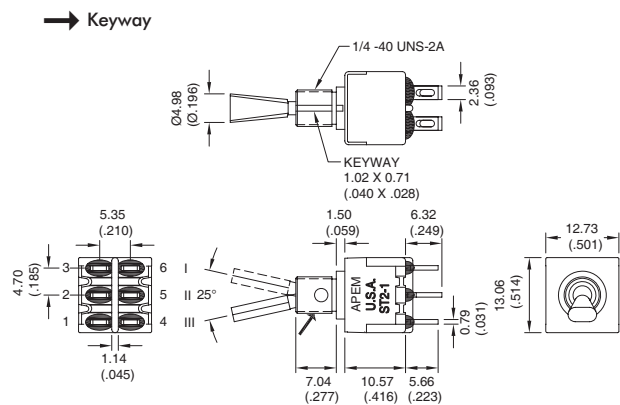
**ST1-2F1MZQE UL12F1MZQE**



**ST2-1F1MZQE UL21F1MZQE**

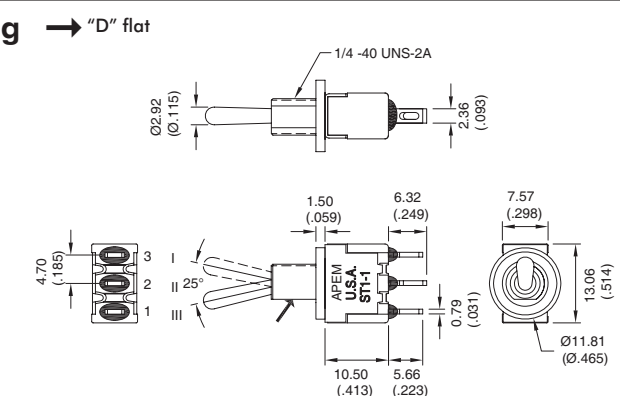
**ST2-2F1MZQE UL22F1MZQE**

**ST2-6F1MZQE UL26F1MZQE**



**ST1-1KHZQE UL11KHZQE**

**ST1-2KHZQE UL12KHZQE**





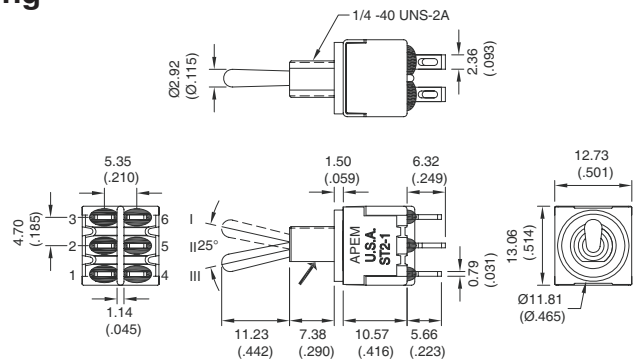
# ST series

## Miniature toggle switches

### Double pole panel mount with splashproof bushing → "D" flat

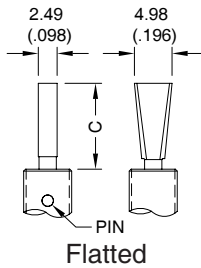


MODEL NO.	UL NO.	I	II	III
		1-2	1-2	2-3
		4-5	5-6	5-6
<b>ST2-1KHZQE</b>	<b>UL21KHZQE</b>	ON	-	ON
<b>ST2-2KHZQE</b>	<b>UL22KHZQE</b>	ON	OFF	ON
<b>ST2-6KHZQE</b>	<b>UL26KHZQE</b>	ON	ON	ON

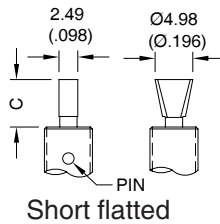


### Actuator

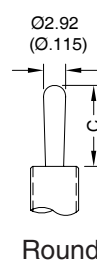
**F1**



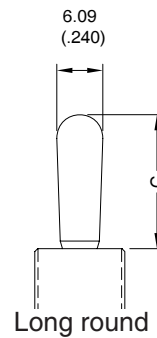
**F3**



**K**

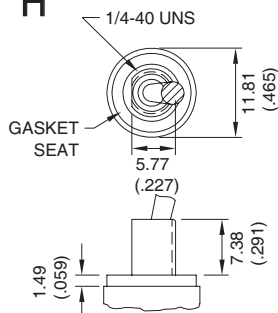


**T4**



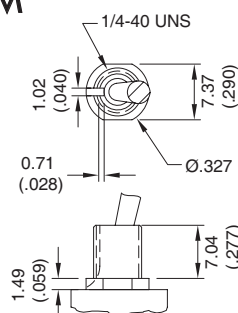
### Bushing options

**H**



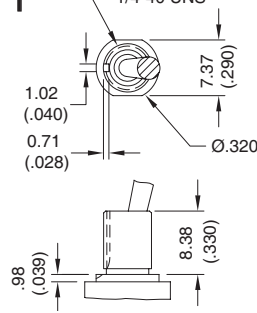
Splashproof

**M**



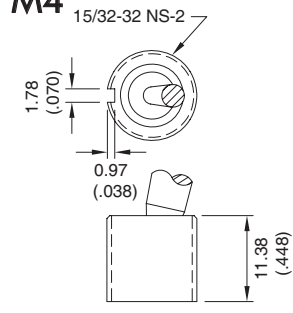
Threaded

**Y**

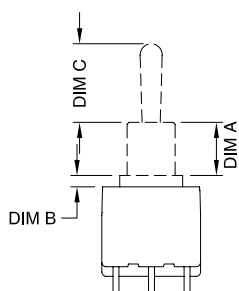


Long threaded

**M4**



15/32" threaded

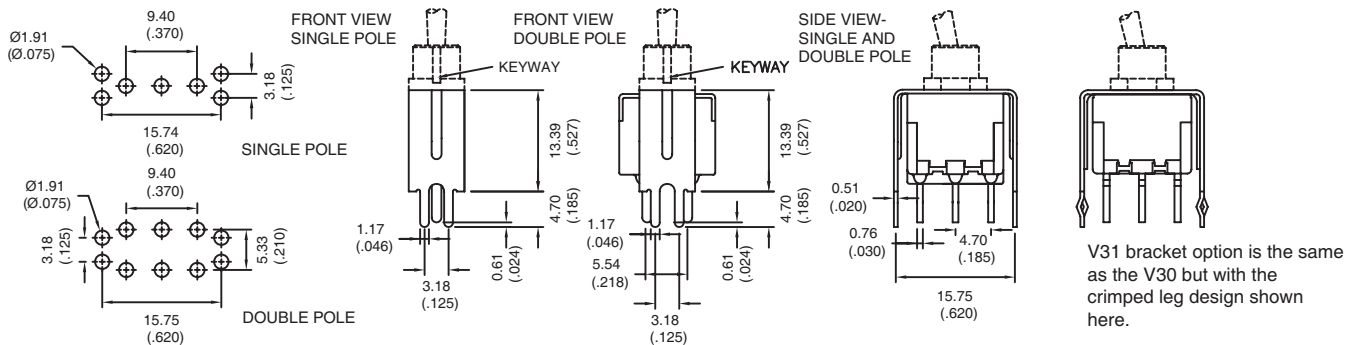


Bushing Option	Bushing Dims.		Actuator length Dim C			
	Dim A	Dim B	F1	F3	K	T4
H	7.37 (.290)	1.52 (.060)	N/A	N/A	10.41 (.410)	N/A
M	7.04 (.277)	1.52 (.060)	11.43 (.450)	6.35 (.250)	10.41 (.410)	N/A
Y	8.38 (.330)	1.02 (.040)	N/A	N/A	10.41 (.410)	N/A
M4	11.38 (.448)	-	N/A	N/A	N/A	17.45 (.687)

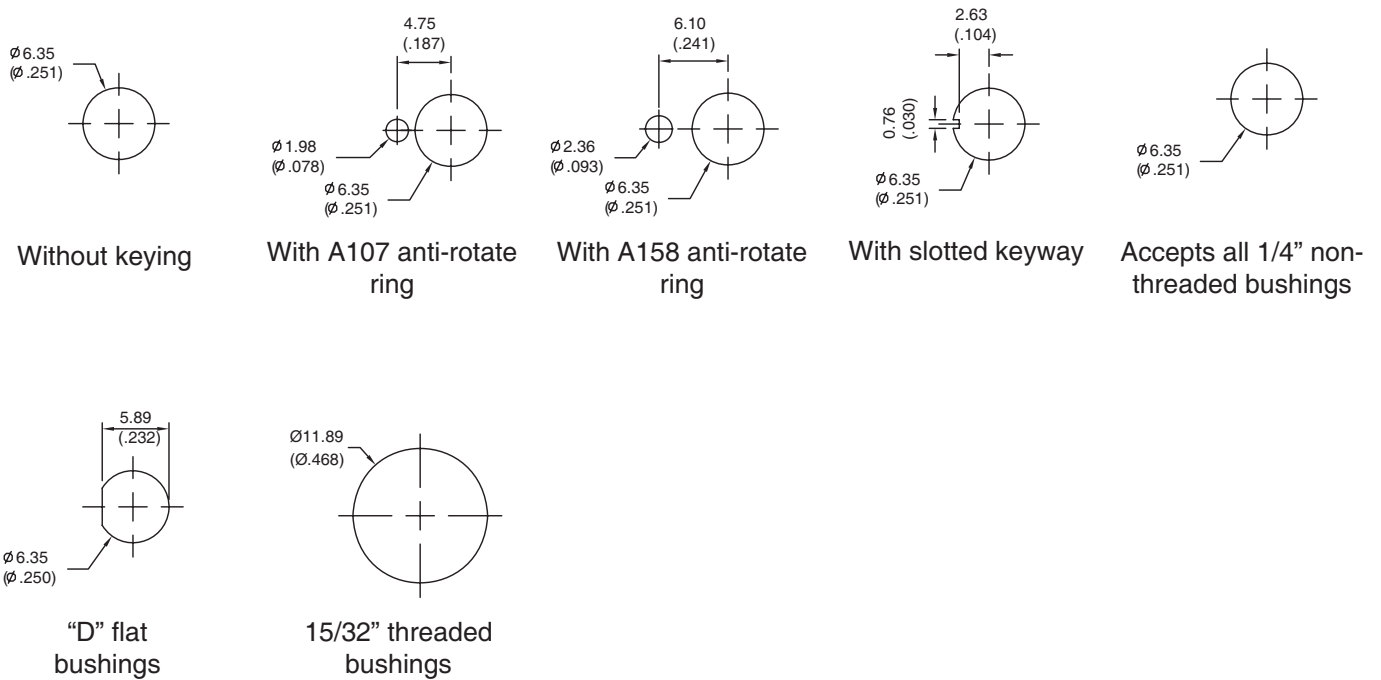
# ST series

## Miniature toggle switches

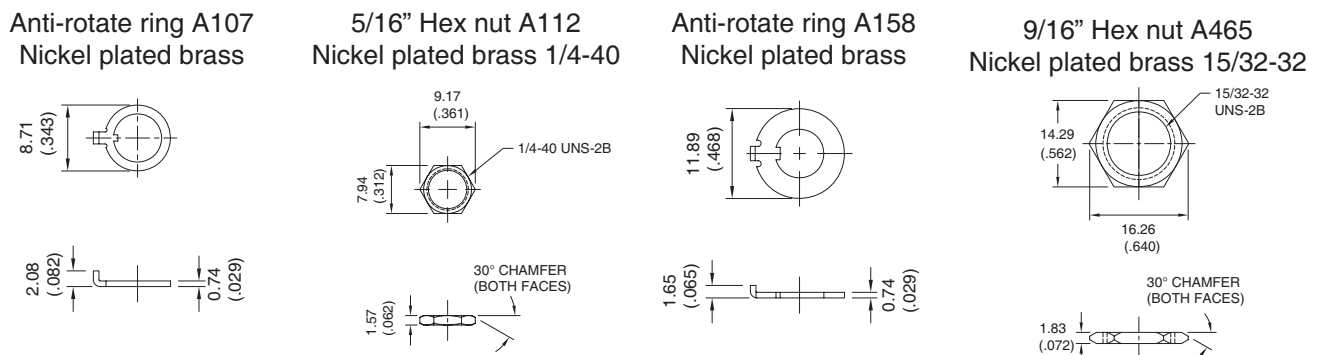
### V30 bracket option



### Panel cut-outs



### Hardware



# ST series

## Miniature toggle switches

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### Contact material specs.

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- B** Dry circuit - gold over nickel over brass.  
RATING: 0.4 Volt-Amps (VA) max. at 20 V max.  
ELECTRIC LIFE: 100,000 cycles min. (ST1-1 & ST2-1 only - other models 40,000 cycles min.)
- Q** Power circuit - coin silver.  
RATING: 6 Amps at 125 VAC, 3 Amps at 250 VAC or 7 Amps at 30 VDC (resistive loads).  
ELECTRIC LIFE: 100,000 cycles min. (ST1-1 & ST2-1 only - other models 40,000 cycles min.)
- 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 once used in power circuit, switch cannot be re-used in dry circuit. This option satisfies those customers who have both dry circuit and power circuit requirements, but prefer to inventory only one switch for both.

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### UL & CSA options

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- UL** For power circuits - coin silver  
RATING: 6 Amps at 125 VAC or 3 Amps at 250 VAC (75% power factor).  
Underwriter Laboratories file no. E66367. Note - applicable only to terminations with coin silver contacts (Q option).
- CSA** For power circuits - coin silver  
RATING: 6 Amps at 125 VAC or 3 Amps at 250 VAC (75% power factor). Canadian Standards Association file no. LR54592-1. Note - applicable only to terminations with coin silver contacts (Q option) as CSA recognizes switches for power applications only.  
Note- Double pole switches with solder lug terminals are not CSA recognized .