

# 300 & 400 series

## Miniature pushbutton switches

Distinctive features and specifications



- Dry circuit through power ratings .
- Compact size.
- Panel, panel & PC and PC mounting models.

### ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load :
  - gold over nickel plated brass contacts : 0.4VA - 20V Max.
  - coin silver contacts : 1A 125VAC or 28VDC, 0.5A 250VAC, 3A 125VAC or 28VDC,
- Initial contact resistance : 10 milliohms max. at 3VDC, 0.1 Amp.
- Insulation resistance : 10,000 MΩ min.
- Dielectric strength : 1,000 Vrms min at sea level.
- Electrical life :

Model	Contacts	Rating	Number of cycles
300	(Q) coin silver	1A 125VAC or 28 VDC	250,000
300	(Q) coin silver	3A 125VAC or 28VDC	10,000
300	(B) gold	0.4VA max. at 20V	250,000
400	(Q) coin silver	1A 125VAC or 28 VDC	40,000
400	(Q) coin silver	3A 125VAC or 28VDC	10,000
400	(B) gold	0.4VA max. at 20V	40,000

### MATERIALS

- Base: diallyphthalate (DAP)
- Actuator: nylon
- Bushing: nickel plated brass
- Contacts
  - B:** Gold
  - Q:** Coin silver
- Terminal seal: epoxy
- Spring bracket: stainless steel
- Support bracket: brass or tin plated steel
- Bezel and cap: nylon

### GENERAL SPECIFICATIONS

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

### AGENCY APPROVAL



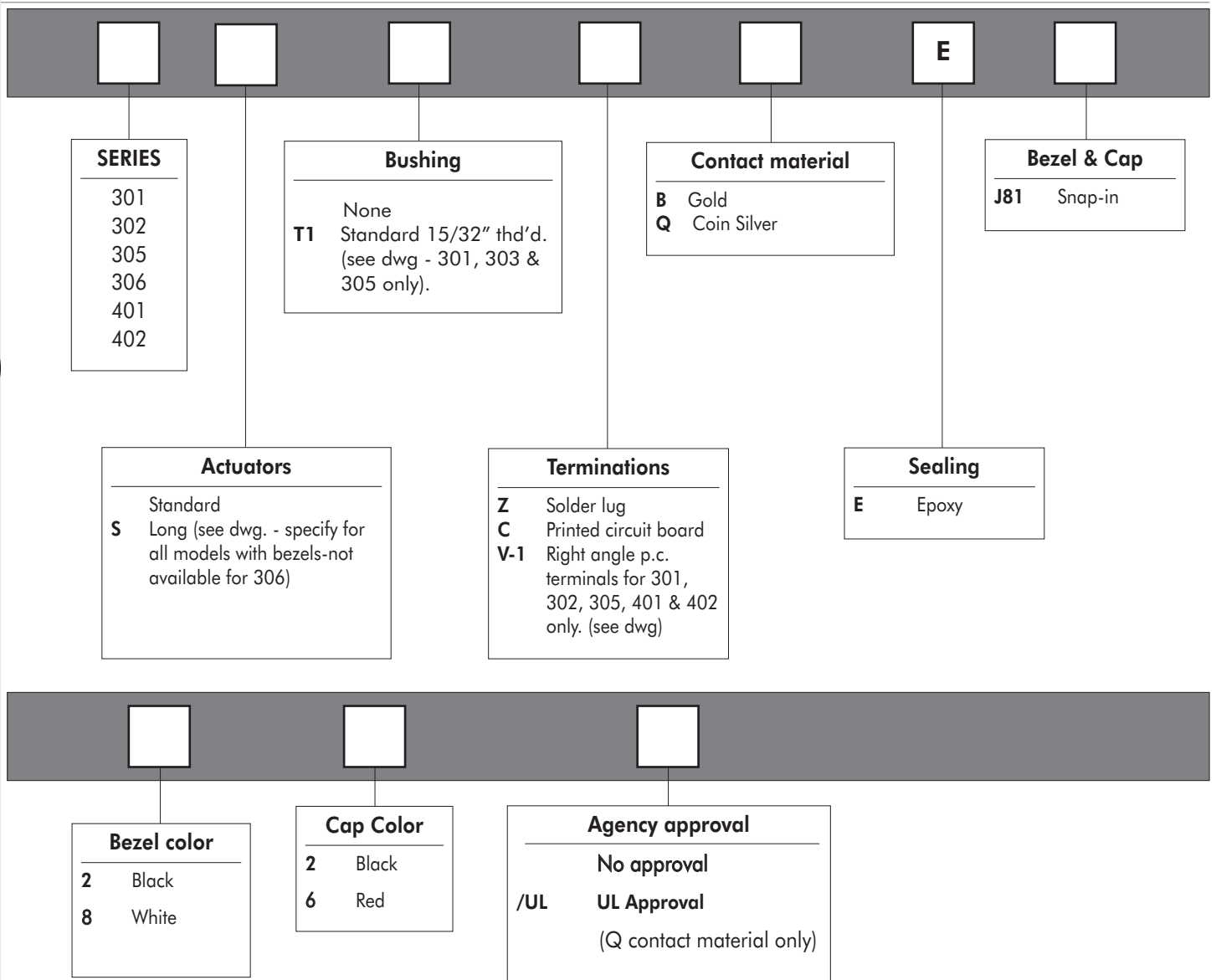
**Availability:** All models with coin silver contacts (Q) only.

**Marking:** To order switches marked UL, complete appropriate box on ordering format.

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### 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

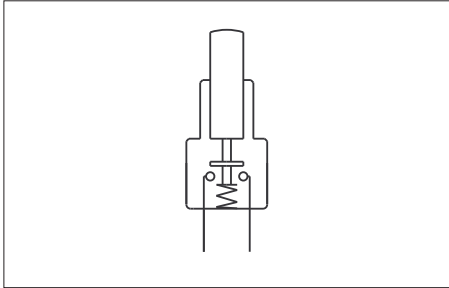
**Dimensions** : first dimensions are in mm while inches are shown as bracketed numbers.



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

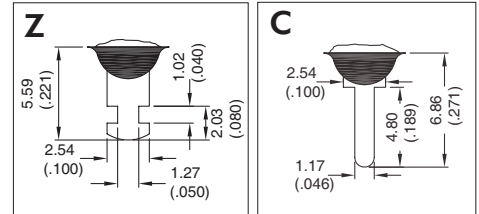
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### Terminations

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




### Normally open with overtravel: 301





#### Solder lug terminals

301ZQE  Normally Open

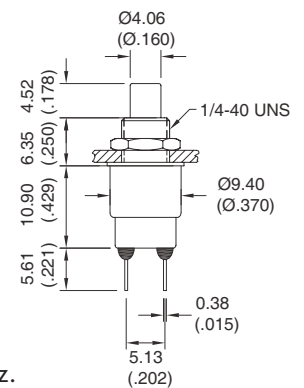
301ZBE  Normally Open

#### PC terminals

301CQE  Normally Open

301CBE  Normally Open


Total travel: 2.7 (.110)  
Over travel: 0.51 (.020)  
Actuation force: 8.5oz. ± 4oz.




### Normally open no overtravel: 302





#### Solder lug terminals

302ZQE  Normally Open

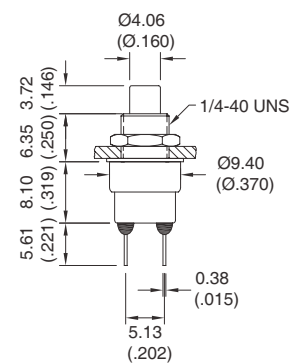
302ZBE  Normally Open

#### PC terminals

302CQE  Normally Open

302CBE  Normally Open


Total travel: 1.52 (.060)  
Actuation force: 10oz. ± 4oz.




### Normally open with greater overtravel: 305





#### Solder lug terminals

305ZQE  Normally Open

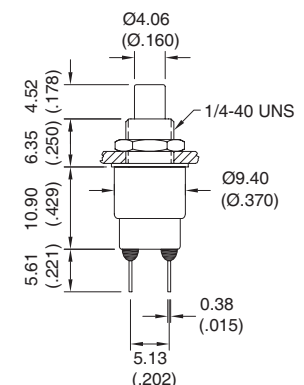
305ZBE  Normally Open

#### PC terminals

305CQE  Normally Open

305CBE  Normally Open

Total travel: 2.7 (.110)  
Over travel: 1.20 (.075)  
Actuation force: 8oz. ± 4oz.







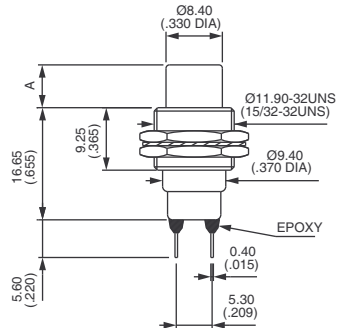
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### T1 option with 15/32 bushing

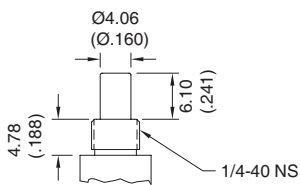


Model no.	Dim A
301	6.35 (.250)
305	6.35 (.250)

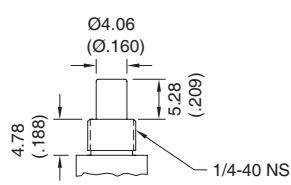


T1 option available only for 301 and 305 models

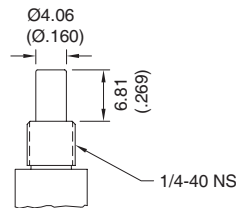
### Option S long actuator



301 & 305

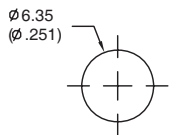


302

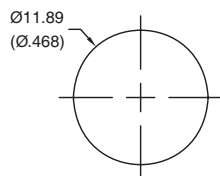


401 & 402

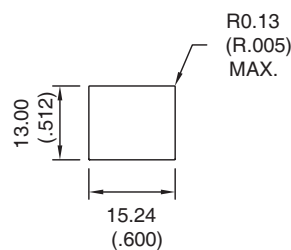
### Panel cut-outs



1/4" threaded bushings



15/32" threaded bushings



Snap-in bezel

### UL option



**UL** For power circuits - coin silver  
 RATING: 0.5 Amps at 125 VAC (75% power factor).  
 Underwriter Laboratories file no. E66367. Note - applicable only to terminations with coin silver contacts (Q option).