

# 800 series

## Snap-action momentary pushbutton switches

*Distinctive features and specifications*



- ☐ Panel and PC mount models
- ☐ Snap-in panel mounting version
- ☐ Tactile feedback

### 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 : 20 mΩ max.
- Insulation resistance : 2,000 MΩ min. between terminals & case ground.
- Dielectric strength : 1,500 VAC for 1 minute between terminals & case ground.
- Electrical life : 60.000 cycles at full load

### MATERIALS

- Case : DAP
- Actuator : polyamide, glass filled
- Bushing : brass, nickel plated
- Strap : stainless steel
- Bracket : tin plated steel or brass
- Contacts
  - B**: Gold
  - Q** : Coin Silver
- Terminal seal : epoxy

### GENERAL SPECIFICATIONS

- Total travel : 0.9mm (.035)
- Actuation force:
  - Single pole: 290+/- 75g
  - Double pole: 550+/- 75g
- Operating temperature : -30°C to +85°C
- Soldering : 300°C, 3 sec. max.

### AGENCY APPROVAL



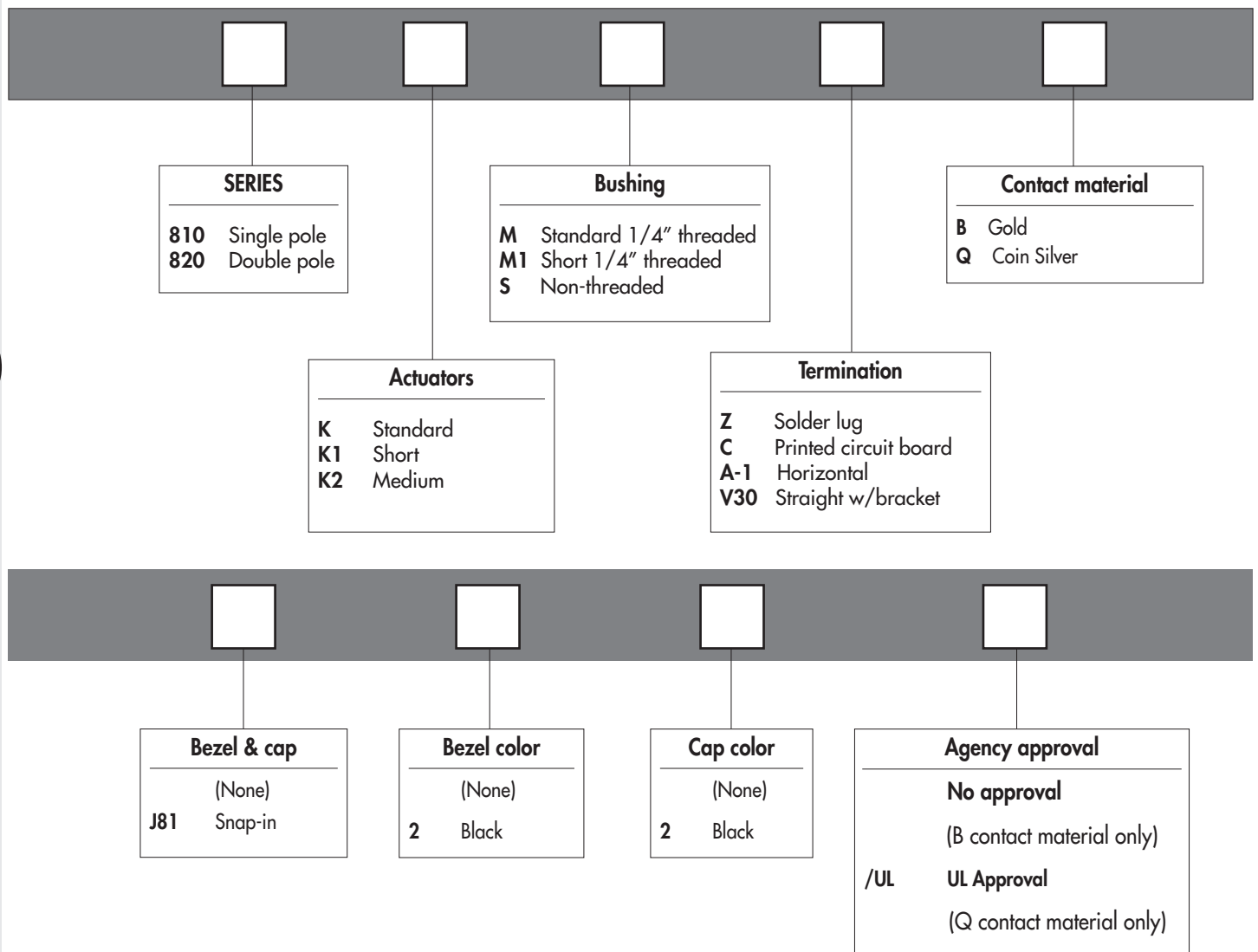
**Availability:** All models with coin silver contacts (Q) only.

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

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B



### 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.



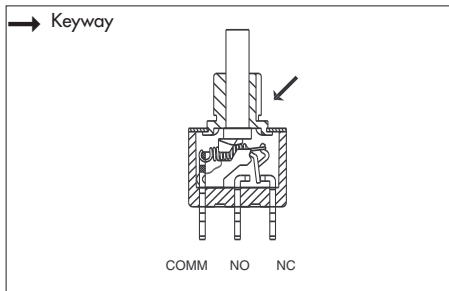
**Packaging unit** : 25 pieces for double pole  
50 pieces for single pole



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

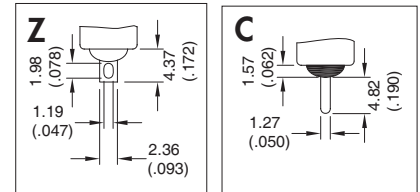
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## Terminations

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

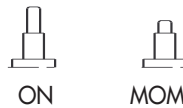


Shown with standard plunger (K)

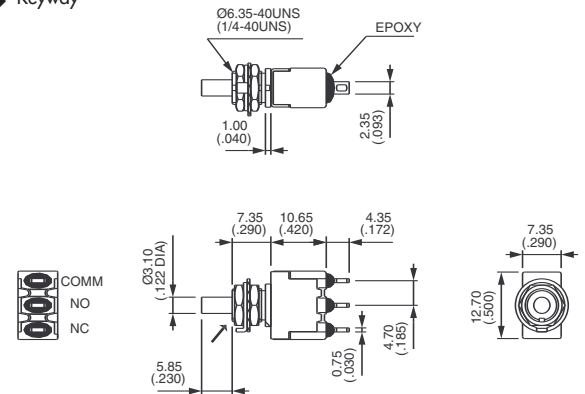
## Solder lug terminals



810KMZ



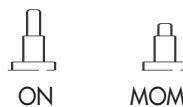
→ Keyway



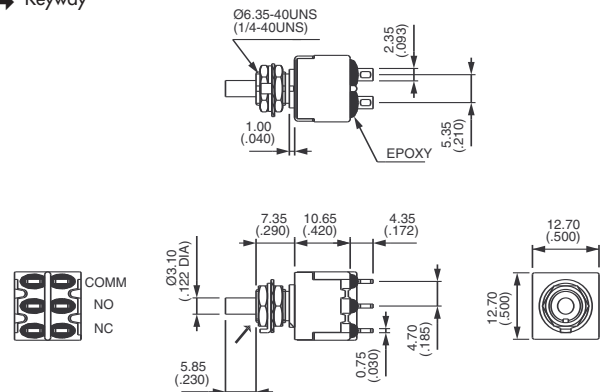
## Solder lug terminals



820KMZ



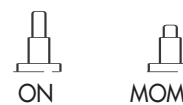
→ Keyway



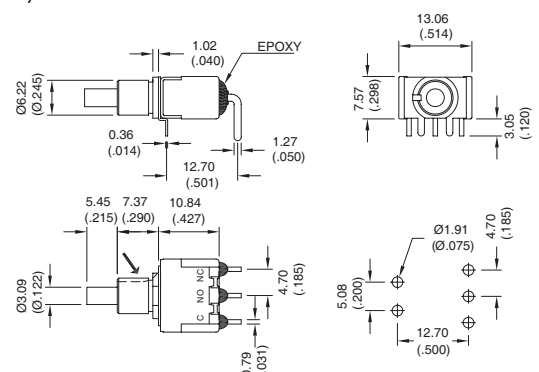
## Horizontal right angle



810KSA-1



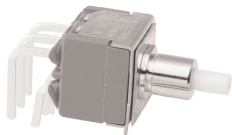
→ Keyway



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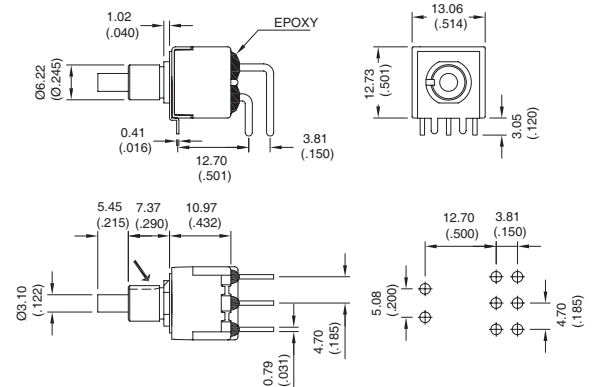
## Horizontal angle



820KSA-1



→ Keyway



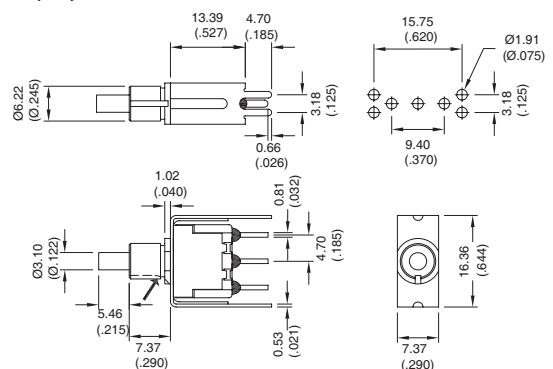
## Straight PC terminals with bracket



810KSV30



→ Keyway



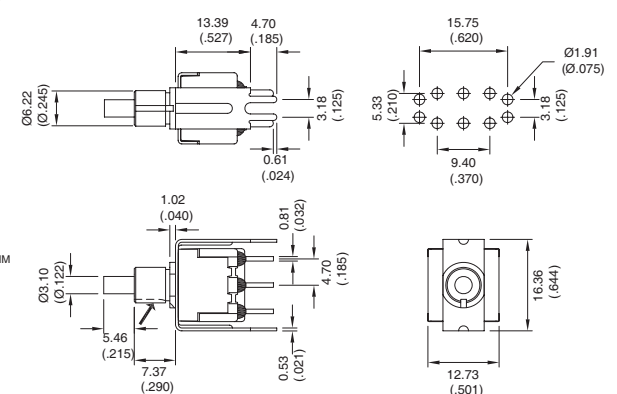
## Straight PC terminals with bracket



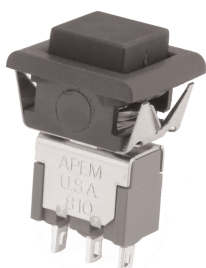
820KSV30



→ Keyway

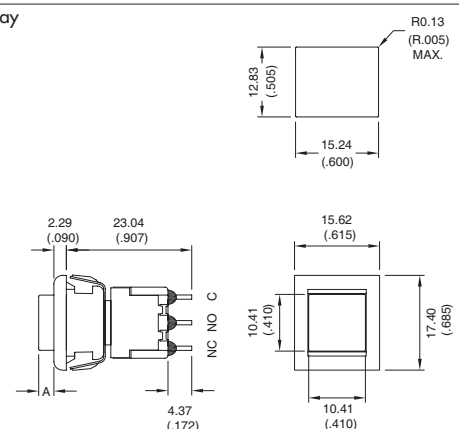


## Solder lug terminals with snap-in bezel



→ Keyway

| MODEL NUMBER   | DIM. A      |
|----------------|-------------|
| 810K2M1ZQJ8122 | 2.54 [.100] |
| 810K1M1ZQJ8122 | 0.25 [.010] |

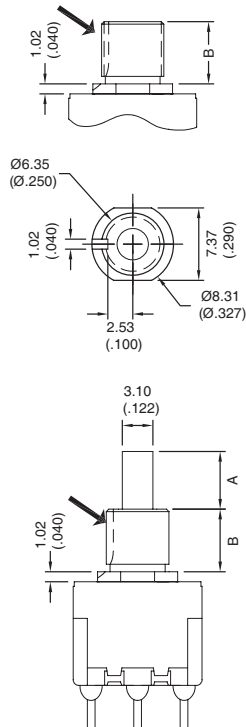


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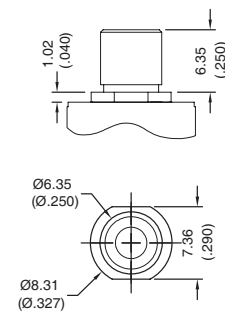
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## Actuator & bushing options

M & M1



S



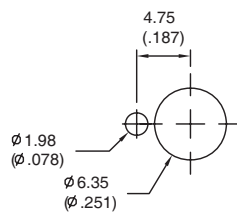
| BUSHING<br>OPTION | DIM.<br>B   | DIMENSION A<br>ACTUATOR OPTION |             |             |
|-------------------|-------------|--------------------------------|-------------|-------------|
|                   |             | K                              | K1          | K2          |
| M                 | 6.35 (.250) | 5.84 (.230)                    | .069 (1.75) | 4.27 (.168) |
| S                 | 6.35 (.250) | 5.84 (.230)                    | .069 (1.75) | 4.27 (.168) |
| M1                | 3.91 (.154) | 8.18 (.322)                    | 4.91 (.165) | 6.70 (.264) |

## Panel cut-outs

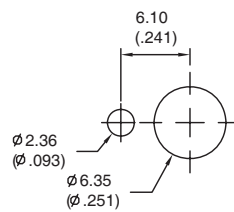
Ø 6.35  
(Ø .251)



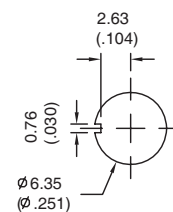
Without keying



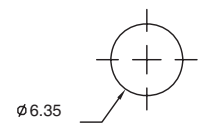
With A107 anti-rotate  
ring



With A158 anti-rotate  
ring



With slotted keyway



Accepts all 1/4" non-  
threaded bushings

## Contact materials

**B**

Dry circuit - gold over nickel over brass.

RATING: 0.4 Volt-Amps (VA) max. at 20 V max.

ELECTRIC LIFE: 60,000 cycles minimum. MECHANICAL LIFE: 500,000 cycles minimum.

**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: 60,000 cycles minimum at full load.

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### Approvals

**/UL**

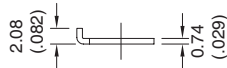
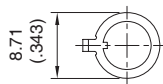
For power circuits - coin silver

RATING: 6 Amps at 125 VAC or 3 Amps at 250 VAC (75% power factor).

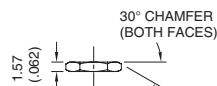
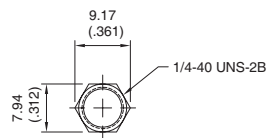
Underwriter Laboratories file no. E66367. Note - applicable only to terminations with coin silver contacts (Q option).

### Hardware

Anti-rotate ring A107  
Nickel plated brass 1/4



5/16" Hex nut A112  
Nickel plated brass 1/4-40



Anti-rotate ring A158  
Nickel plated brass 1/4

