

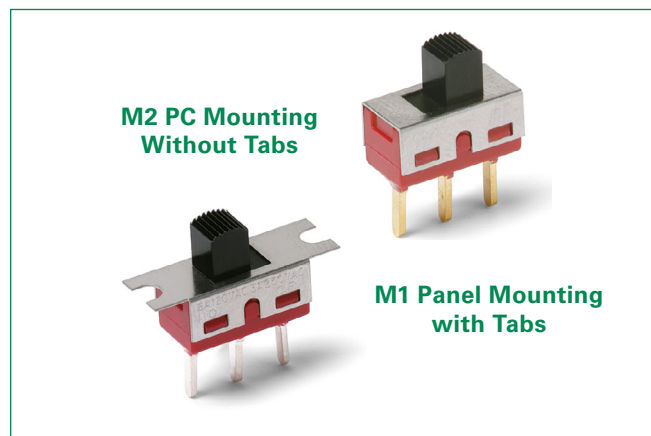


**THE DATASHEET OF  
1101M2S3AQE2**



# 1000 Series

## Miniature Slide Switches



### Agency Approvals

| Agency | Agency File Number |
|--------|--------------------|
|        | E42363             |

### Specifications

|                              |   |
|------------------------------|---|
| <b>Contact Rating</b>        | B contact material: 0.4 VA max. @ 20 V AC or DC max.<br>Q contact material: 6 amps @ 125 V AC or 28 V DC, 3 amps @ 250 V AC.              |
| <b>Electrical Life</b>       | 100,000 make-and-break cycles at full load on models with B, P contact material; 40,000 cycles on models with G, Q or S contact material. |
| <b>Contact Resistance</b>    | Below 10 m Ω typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.   |
| <b>Insulation Resistance</b> | 10 <sup>9</sup> Ω min.  |
| <b>Dielectric Strength</b>   | 1,000 Vrms min. @ sea level.  |
| <b>Operating Temperature</b> | -30°C to 65°C.  |
| <b>Solderability</b>         | Per MIL-STD-202F method 208D, or EIA RS-186E method 9.  |

#### Notes:

Any models supplied with Q, B, G, P or S contact material are RoHS compliant. Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

### Description

The 1000 series miniature slide switches are typically found in applications in the test & measurement equipment, telecommunications, and computers & peripherals industries. The 1000 series come in a variety of actuators and terminations, are epoxy terminal-seal compatible with bottom wash cleaning, and come with optional panel mount tabs.

### Features & Benefits

- Variety of actuators and terminations
- Panel mount tabs available
- Epoxy terminal seal—compatible with bottom-wash cleaning
- RoHS compliant

### Applications

- Test & measurement equipment
- Telecommunications
- Computer & peripherals

### Materials

|  |  |
|--|--|
| <b>Case</b>                                | Diallyl phthalate (DAP) (UL 94 V-0).   |
| <b>Actuator</b>                            | Nylon, black, standard.  |
| <b>Housing</b>                             | Stainless steel.   |
| <b>Switch Support</b>                      | Brass or steel, matte-tin plated.  |
| <b>End Contacts</b>                        | B contact material: Copper alloy, with gold plate over nickel plate.<br>Q contact material: Coin silver, silver plated.  |
| <b>Center Contacts &amp; All Terminals</b> | B contact material: Copper alloy, with gold plate over nickel plate.<br>Q contact material: Copper alloy, silver plated. |
| <b>Terminal Seal</b>                       | Epoxy.   |

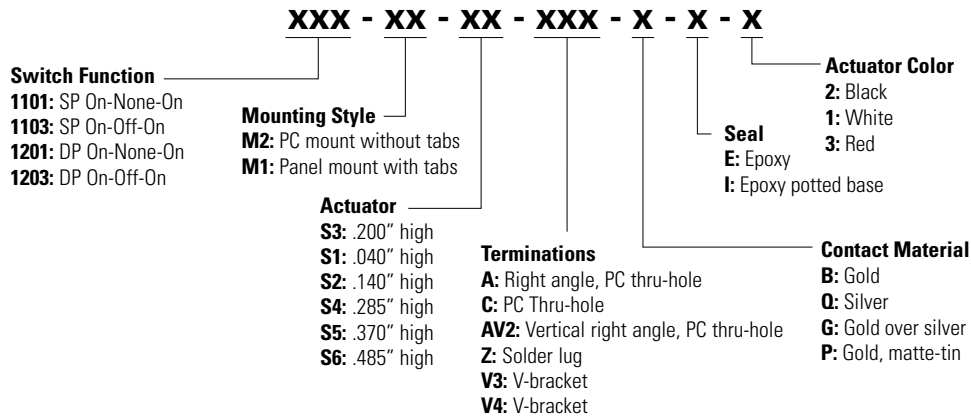
# 1000 Series

## Miniature Slide Switches



### Ordering Number

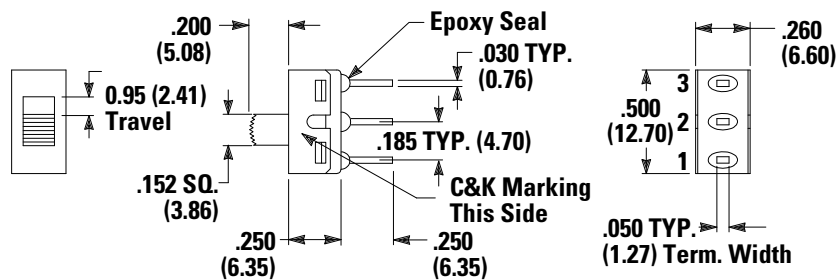
To order, simply select desired option from each category and place in the appropriate box. For additional options not shown in catalog, consult Customer Service Center. All models have epoxy terminal seal and are compatible with all "bottom-wash" PCB cleaning methods.



### Switch Function

#### SPDT

| No. Poles | Model No. | Switch Function |        |        | Connected Terminals |        |        | Schematic |
|-----------|-----------|-----------------|--------|--------|---------------------|--------|--------|-----------|
|           |           | POS. 1          | POS. 2 | POS. 3 | POS. 1              | POS. 2 | POS. 3 |           |
| SP        | 1101      |                 | NONE   | ON     | 1-2                 | N/A    | 2-3    |           |
| SP        | 1103      | ON              | OFF    | ON     | 1-2                 | OPEN   | 2-3    |           |



Part number shown: 1101M2S3CQE2

**Notes:**  
 All models **C** **US** with all options when ordered with G, Q or S contact material.

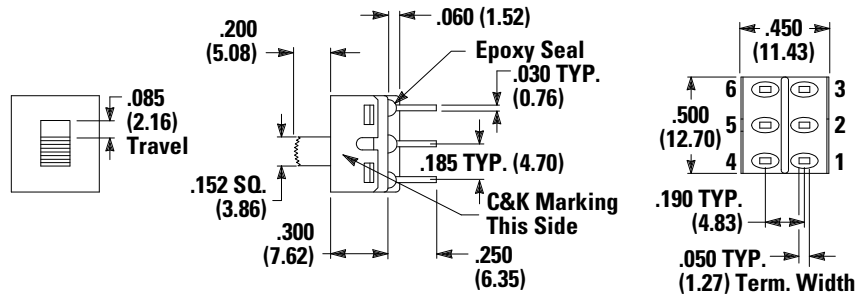
# 1000 Series

## Miniature Slide Switches



### DPDT

| No. Poles | Model No. | Switch Function |        |        | Connected Terminals |        |          | Schematic |
|-----------|-----------|-----------------|--------|--------|---------------------|--------|----------|-----------|
|           |           | POS. 1          | POS. 2 | POS. 3 | POS. 1              | POS. 2 | POS. 3   |           |
| DP        | 1201      | ON              | NONE   | ON     | 2-1, 5-4            | N/A    | 2-3, 5-6 |           |
|           | 1203      | ON              | OFF    | ON     | 2-1, 5-4            | OPEN   | 2-3, 5-6 |           |

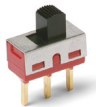


Part number shown: 1201M2S3CQE2

**Notes:**  
All models **C** **RU** **US** with all options when ordered with G, Q or S contact material.

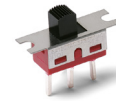
### Mounting Style

#### M2 PC Mounting Without Tabs



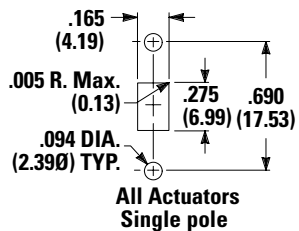
**Notes:** Available with A, AV2, C, V3, V4 terminations only.

#### M1 Panel Mounting With Tabs

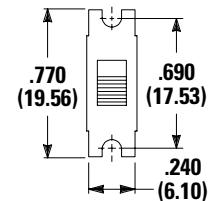


**Notes:** Available with C or Z terminations only. No mounting hardware supplied.

### Panel Mounting



### M1 Panel Metal Plate Mounting Option



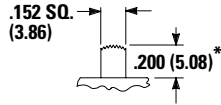
# 1000 Series

## Miniature Slide Switches

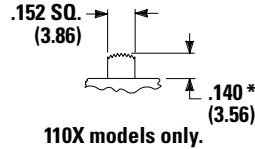


### Actuator

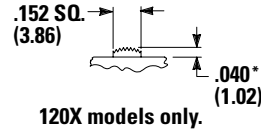
S3 0.200" high



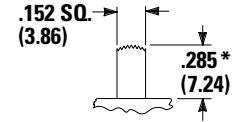
S2 0.140" High



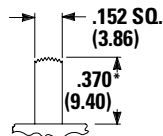
S1 0.040" High



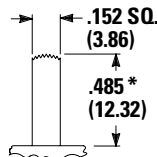
S4 0.285" High



S5 0.370" high



S6 0.485" High



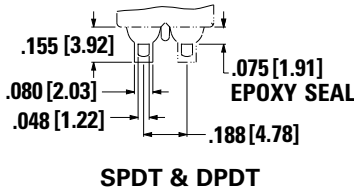
| Option Code | Actuator Color |
|-------------|----------------|
| 2           | Black          |
| 1           | White          |
| 3           | Red            |

Notes:  
Other colors available, consult Customer Service Center.

Notes: Subtract 0.014 (0.36) from actuator height, all models with A, AV2 - 2 pole, V3, V4 terminations.

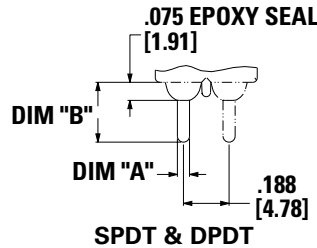
### Terminations

Z Solder Lug

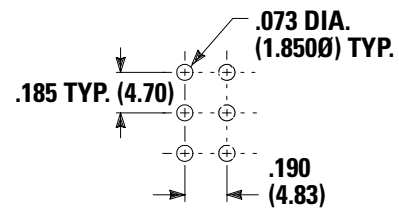


Notes: Not available with P contact materials.

C PC Thru-hole



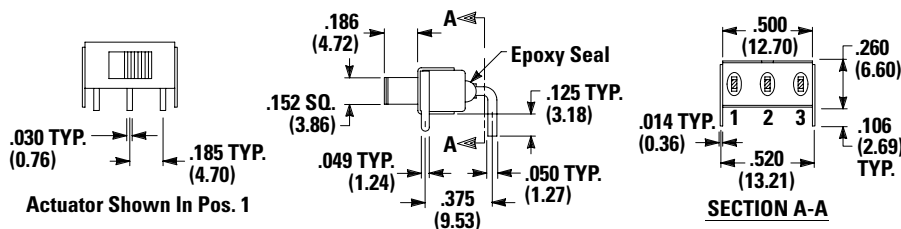
PC Mounting



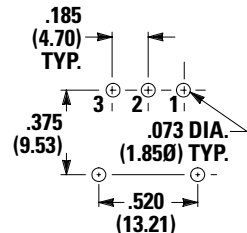
| Option Code | DIM "A"      | DIM "B"      |
|-------------|--------------|--------------|
| C           | 0.050 [0.76] | 0.250 [6.35] |

### A Right Angle, PC Thru Hole

1101M2S3ABE2 Horizontal Actuation SPDT



PC Mounting



Notes: Not available with M1 mounting style, I seal option. Terminal bend radii and lead-in manufacturing option.

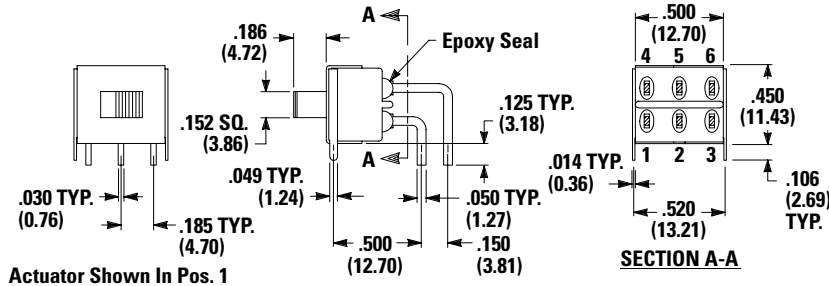
# 1000 Series

## Miniature Slide Switches

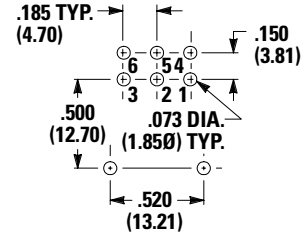


### A Right Angle, PC Thru Hole

#### 1201M2S3ABE2 Horizontal Actuation DPDT



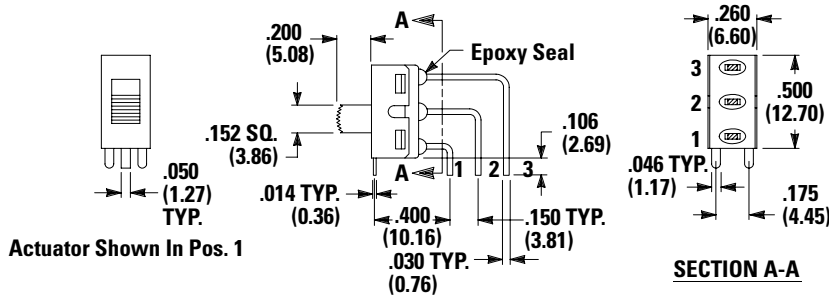
#### PC Mounting



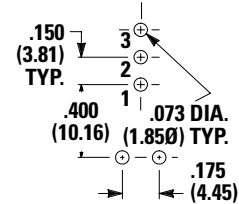
Notes: Not available with M1 mounting style, I seal option. Terminal bend radii and lead-in manufacturing option.

### AV2 Vertical Right Angle, PC Thru Hole, 0.150" Pitch

#### 1101M2S3AV2BE2 Vertical Actuation SPDT



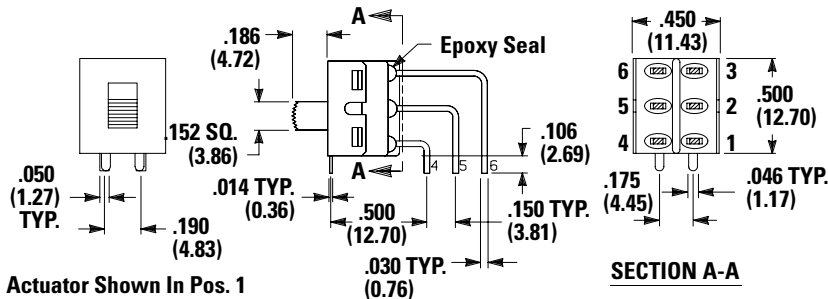
#### PC Mounting



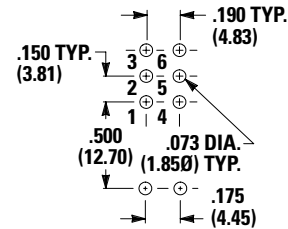
Notes: Not available with M1 mounting style, I seal option. Terminal bend radii and lead-in manufacturing option.

### AV2 Vertical Right Angle, PC Thru Hole, 0.150" Pitch

#### 1201M2S3AV2BE2 Vertical Actuation DPDT



#### PC Mounting



Notes: Not available with M1 mounting style, I seal option. Terminal bend radii and lead-in manufacturing option.

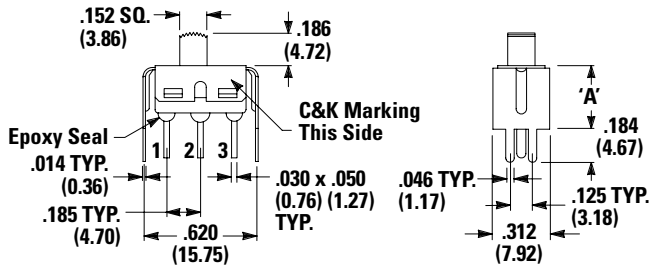
# 1000 Series

## Miniature Slide Switches



### V3, V4 Vertical Mount, V-Bracket

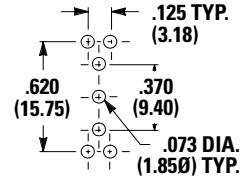
#### 1101M2S3\_\_BE2 SPDT



Actuator Shown In Pos. 1

Notes: Not available with M1 mounting style and I seal.

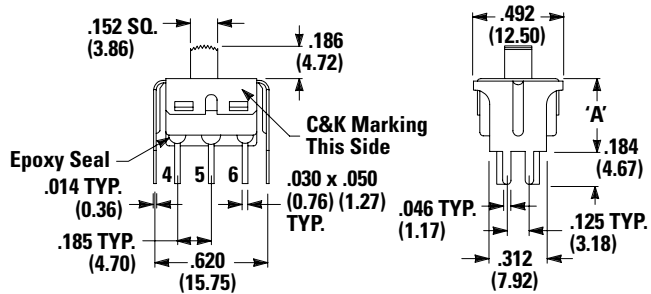
#### PC Mounting



| Option Code | DIM "A"       |
|-------------|---------------|
| V3          | 0.350 (8.89)  |
| V4          | 0.525 (13.34) |

### V3, V4 Vertical Mount, V-Bracket

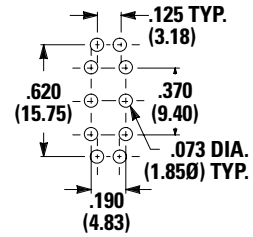
#### 1201M2S3\_\_BE2 DPDT



Actuator Shown In Pos. 1

Notes: Not available with M1 mounting style and I seal.

#### PC Mounting



| Option Code | DIM "A"       |
|-------------|---------------|
| V3          | 0.400 (10.16) |
| V4          | 0.575 (14.61) |

# 1000 Series

## Miniature Slide Switches



### Contact Material

| Option Code | Contact Material                | Terminal Plating       | Ratings                                |   |
|-------------|---------------------------------|------------------------|--|---|
| B           | Gold <sup>1</sup>               | Gold <sup>3</sup>      | Low Level / Dry Circuit                | 0.4 VA Max. @ 20 V AC or DC Max.  |
| P           |                                 | Matte-Tin <sup>6</sup> |  |   |
| Q           | Silver <sup>4,5</sup>           | Silver <sup>5</sup>    | Power                                  | 6 amps @ 125 V AC or 28 V DC; 3 amps @ 250 V AC (UL)  |
| G           | Gold over Silver <sup>2,3</sup> | Gold <sup>3</sup>      | Low Level / Dry Level Circuit or Power | 0.4 VA Max. @ 20 V AC or DC Max. or 6 amps @ 120 V AC or 0.4 Max. 28 V DC; 3 amps @ 250 V AC. |

**Notes:** See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

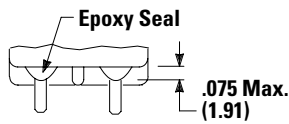
- 1. **Contacts & Terminals:** Copper alloy, with gold plate over nickel plate.
- 2. **End Contacts:** Coin silver, with gold plate over nickel plate
- 3. **Center Contacts & All Terminals:** Copper alloy, with gold plate over nickel plate.
- 4. **End Contacts:** Coin silver, silver plated.
- 5. **Center Contacts & All Terminals:** Copper alloy, silver plated.
- 6. **Terminals:** Copper alloy, with matte tin alloy nickel plate.

Any models supplied with Q, B, G, P, contact material are

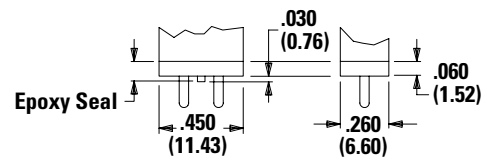
- RoHS compliant. All models **CAUTION** with all options when ordered with G, Q, contact material.
- B contact material standard with all terminations except C, Z.
- Q contact material standard with C, Z, terminations.
- P contact material not available with Z, terminations.

### Seal

#### E Epoxy Seal



#### I Epoxy Potted Base



**Length is Same as Switch Body**

**Notes:** Available with C, W3, Z, terminations only. UL Recognition for G or Q contact material.

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