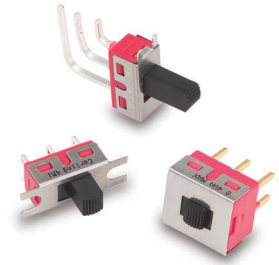


### 4S1 & 4SS-Series

Sub-Miniature & **Sealed** Sub-Miniature Slide Switches



### 4M1-Series

Miniature Slide Switch

### Specifications

Contact Rating . . . . . refer to ordering scheme  
 Electrical Life . . . . . 30,000 make & break cycles at full load  
 Contact Resistance. . . . . 10 mΩ max. initial @ 2-4 VDC  
 100mA for both silver & gold plated contacts.  
 Insulation Resistance . . . 1000 MΩ min.  
 Dielectric Strength . . . . . 1500 Volts RMS @ sea level  
 Operating Temperature . . . -30°C to +85°C  
 Solder Heat Resistance. . . MIL-STD-202, Method 210  
 Actuator Travel . . . . . 25°

### Materials

Case . . . . . Diallyl phthalate (DAP) (UL 94V-0)  
 Slide Handle. . . . . Nylon  
 Housing. . . . . Stainless Steel  
 Terminal Seal . . . . . Epoxy

### 4S1-Series Ordering Scheme



<b>1 SERIES</b> <b>4S1</b> Sub-Miniature Slide Switch																
<b>2 POLES</b> <b>FSP</b> single pole																
<b>3 CIRCUIT</b> <table style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="4" style="text-align: center;"><b>Switching Position:</b></td> </tr> <tr> <td style="width: 10%;"></td> <td style="width: 15%;">2-1</td> <td style="width: 20%;">OPEN</td> <td style="width: 15%;">2-3</td> </tr> <tr> <td><b>1</b></td> <td>ON</td> <td>NONE</td> <td>ON</td> </tr> <tr> <td><b>3</b></td> <td>ON</td> <td>OFF</td> <td>ON</td> </tr> </table>	<b>Switching Position:</b>					2-1	OPEN	2-3	<b>1</b>	ON	NONE	ON	<b>3</b>	ON	OFF	ON
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<b>4 TERMINATION</b> <b>M2</b> PCB <b>M6</b> PC Mount, 90° horizontal																

<b>5 CONTACT</b>		
<i>Material</i>	<i>Terminal Plating</i>	<i>Rating</i>
<b>G</b> silver <sup>1</sup>	gold over silver <sup>3</sup>	3A@125VAC or 28VDC; 1.5A @ 250VAC
<b>K</b> gold <sup>2</sup>	tin-lead <sup>4</sup>	0.4VA max. @20V max (AC/DC)
<b>P</b> silver <sup>1</sup>	tin-lead <sup>4</sup>	3A@125VAC or 28VDC; 1.5A @ 250VAC
<b>Q</b> silver <sup>1</sup>	silver <sup>1</sup>	3A@125VAC or 28VDC; 1.5A @ 250VAC
<b>R</b> gold <sup>2</sup>	gold <sup>2</sup>	0.4VA max. @20V max (AC/DC)
NOTE: Tin-lead option available with PC type terminations only. 1 Moveable contact & terminals: copper alloy, silver plate 2 Moveable contact & terminals: copper alloy with gold plate over nickel plate 3 Terminals: silver plate with outer layer in gold plating		

<b>6 EPOXY SEAL</b> <b>E</b> epoxy seal
--

<b>7 PACKAGING</b> Switches are bulk packed, unless T/R is specified at the end of the part number. <b>T/R</b> tape reel - 500 pieces per reel
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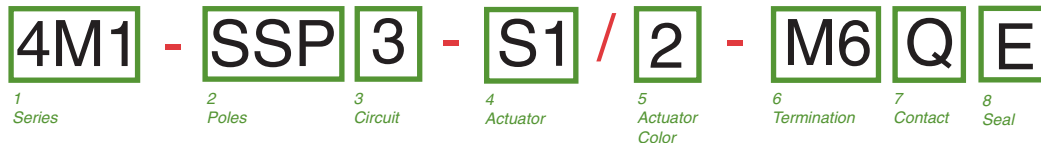
### 4SS-Series Ordering Scheme



<b>1 SERIES</b> <b>4SS</b> Sealed Sub-Miniature Slide Switch																
<b>2 POLES</b> <b>FSP</b> single pole																
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<b>4 TERMINATION</b> <b>Termination options for switches with brick color actuators</b> <b>M2</b> PCB <b>M6</b> PC Mount, 90° horizontal <b>M7</b> PC Mount, 90° vertical <b>Termination options for switches with white color actuators</b> <b>L6</b> Surface Mount, 90° flat <b>S6</b> Surface Mount, 90° horizontal <b>S7</b> Surface Mount, 90° vertical																

<b>5 CONTACT</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Material</th> <th style="text-align: left;">Terminal Plating</th> <th style="text-align: left;">Rating</th> </tr> </thead> <tbody> <tr> <td><b>G</b> silver<sup>1</sup></td> <td>gold over silver</td> <td>3A@125VAC or 28VDC; 1.5A @ 250VAC</td> </tr> <tr> <td><b>K</b> gold<sup>2</sup></td> <td>tin-lead<sup>4</sup></td> <td>0.4VA max. @20V max (AC/DC)</td> </tr> <tr> <td><b>P</b> silver<sup>1</sup></td> <td>tin-lead</td> <td>3A@125VAC or 28VDC; 1.5A @ 250VAC</td> </tr> <tr> <td><b>R</b> gold<sup>2</sup></td> <td>gold<sup>2</sup></td> <td>0.4VA max. @20V max (AC/DC)</td> </tr> </tbody> </table> <p>NOTE:            Tin-lead option available with PC type terminations only.            1 Moveable contact &amp; terminals: copper alloy, silver plate            2 Moveable contact &amp; terminals: copper alloy with gold plate over nickel plate            3 Terminals: silver plate with outer layer in gold plating            4 Outer terminals: copper alloy with tin-lead over nickel plate</p>	Material	Terminal Plating	Rating	<b>G</b> silver <sup>1</sup>	gold over silver	3A@125VAC or 28VDC; 1.5A @ 250VAC	<b>K</b> gold <sup>2</sup>	tin-lead <sup>4</sup>	0.4VA max. @20V max (AC/DC)	<b>P</b> silver <sup>1</sup>	tin-lead	3A@125VAC or 28VDC; 1.5A @ 250VAC	<b>R</b> gold <sup>2</sup>	gold <sup>2</sup>	0.4VA max. @20V max (AC/DC)
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### 4M1-Series Ordering Scheme



<b>1 SERIES</b> <b>4M1</b> Miniature Slide Switch																
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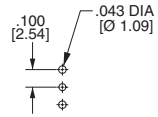
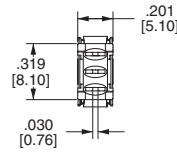
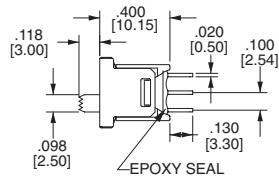
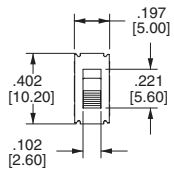
**4S-Series Dimensional Specifications: in. [mm]**

**4S1-Series**

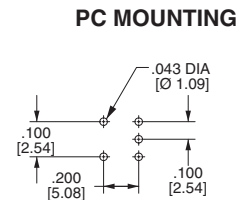
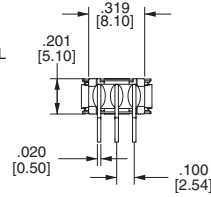
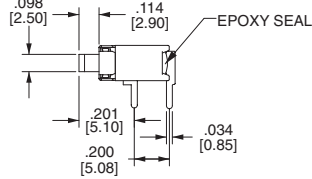
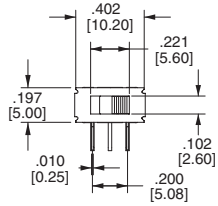
**TERMINATION**

**PC MOUNTING**

**M2**



**M6**

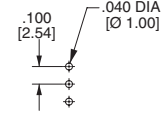
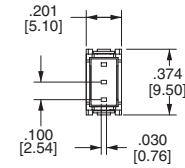
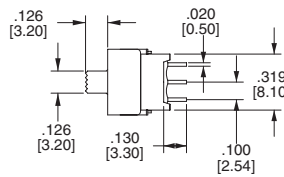
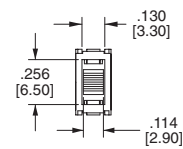


**4SS-Series**

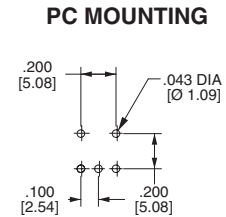
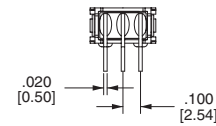
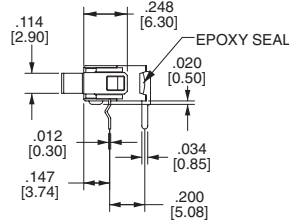
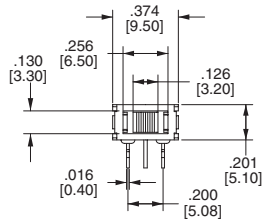
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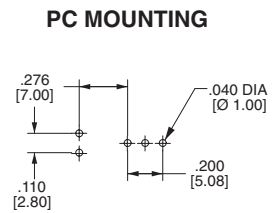
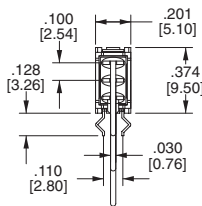
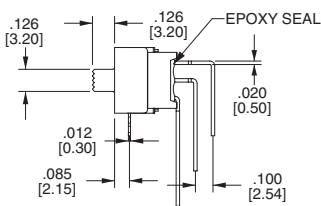
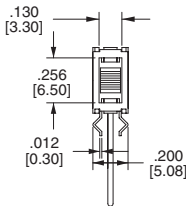
**M2**



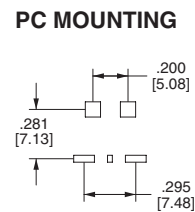
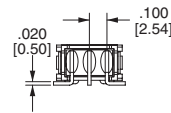
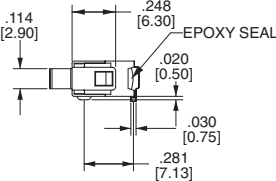
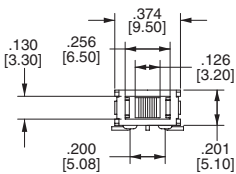
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**M7**



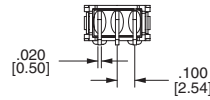
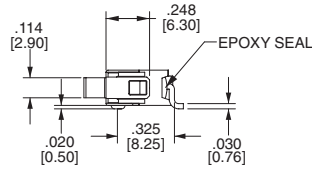
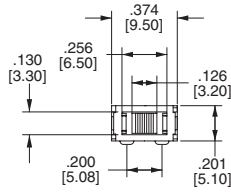
**L6**



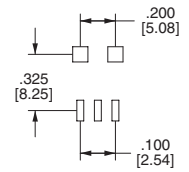
**4SS-Series Dimensional Specifications: in. [mm]**

**TERMINATION**

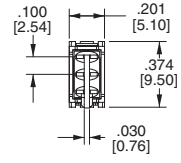
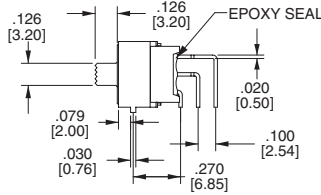
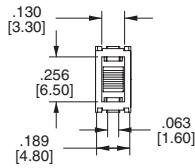
**S6**



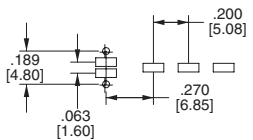
**PC MOUNTING**



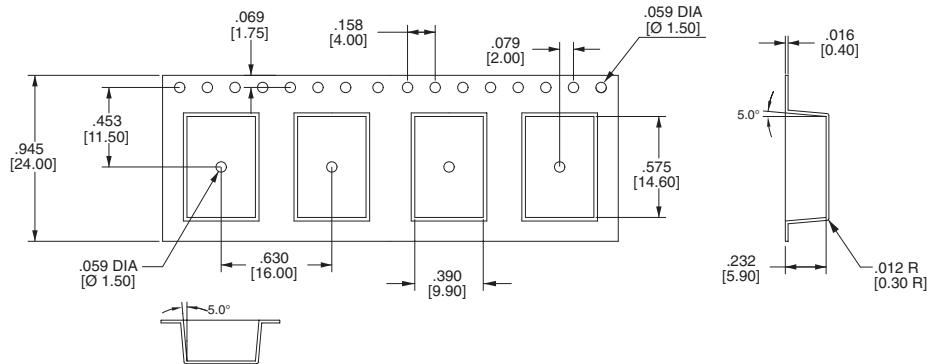
**S7**



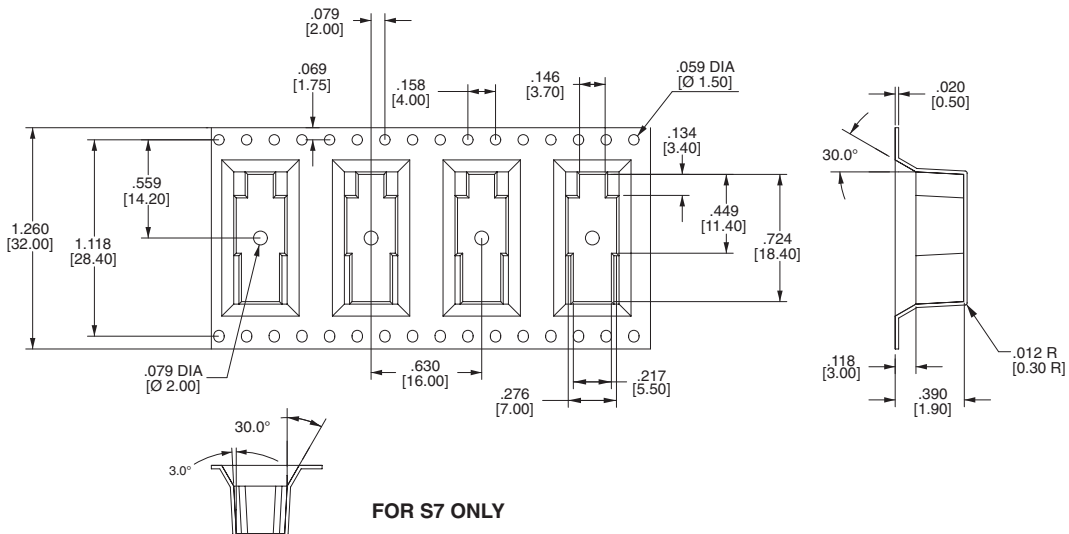
**PC MOUNTING**



**REEL TAPING**



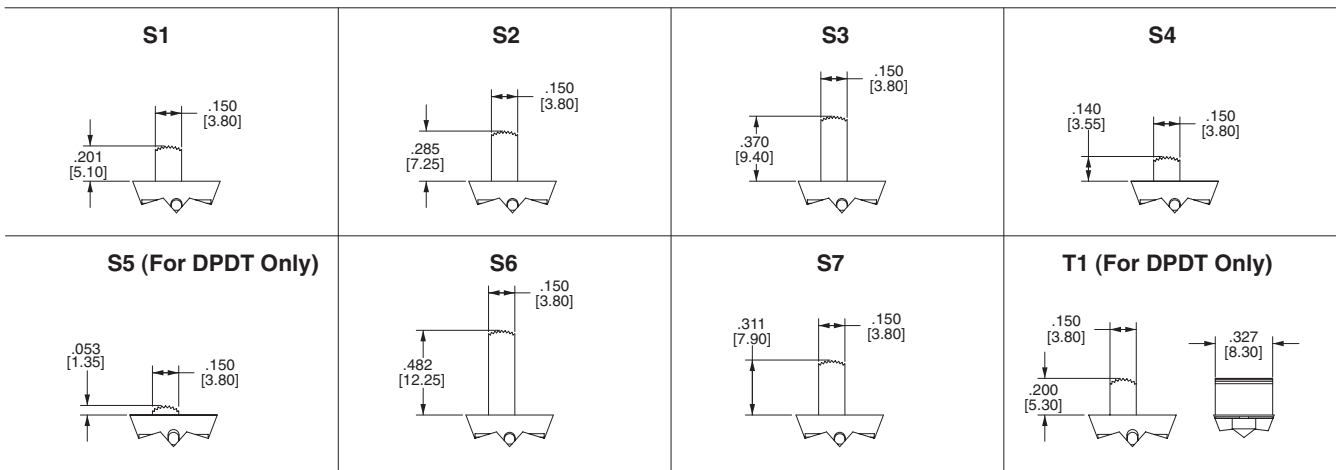
**FOR S6, L6 ONLY**



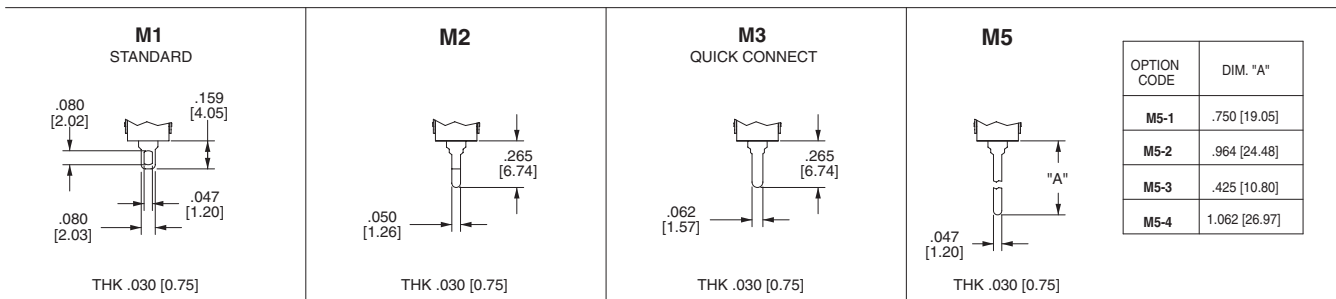
**FOR S7 ONLY**

## 4M1-Series Dimensional Specifications: in. [mm]

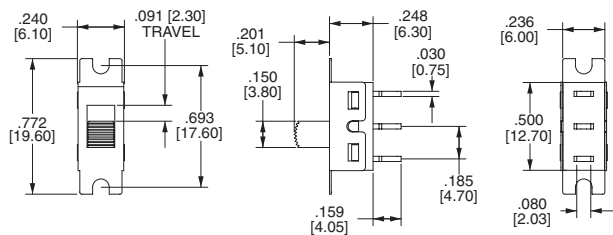
### ACTUATOR



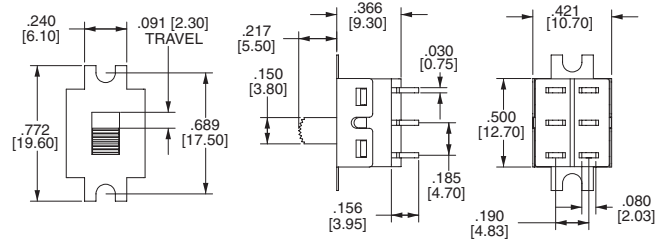
### TERMINATION



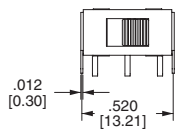
### SINGLE POLE



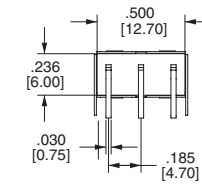
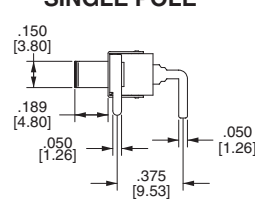
### DOUBLE POLE



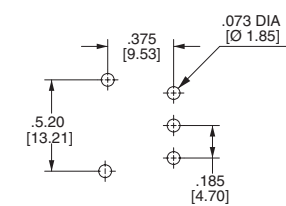
### M6



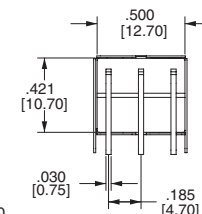
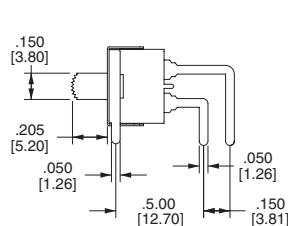
### SINGLE POLE



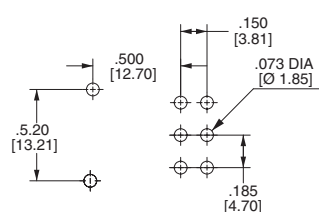
### PC MOUNTING



### DOUBLE POLE



### PC MOUNTING



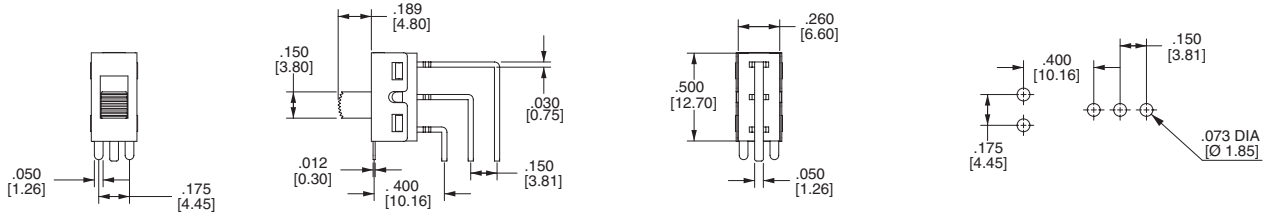
**4M1-Series Dimensional Specifications: in. [mm]**

**TERMINATION**

**M7**

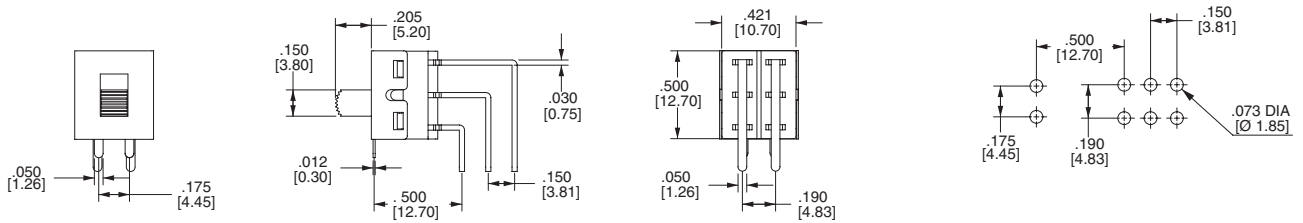
**SINGLE POLE**

**PC MOUNTING**



**DOUBLE POLE**

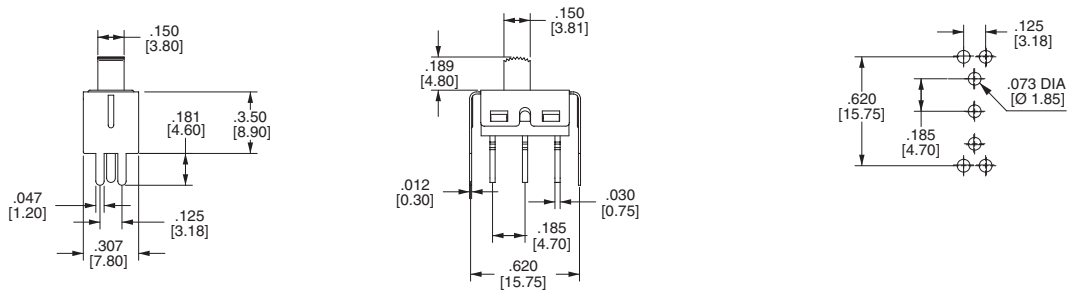
**PC MOUNTING**



**VS2**

**SINGLE POLE**

**PC MOUNTING**



**DOUBLE POLE**

**PC MOUNTING**

