4M-Series
MINIATURE SLIDE SWITCHES

The 4M-Series miniature slide switches offer a variety of ratings, circuits, contact materials, and terminal platings. With 14 termination choices and 8 actuator styles, this versatile switch adapts to a variety of applications, and is able to withstand temperatures from -30°C to +85°C.

Product Highlights:
• Two or Three Position Circuitry
• 125/250VAC or up to 28VDC
• Available in Silver, Gold or Tin Plating
• Supplied in Bulk or Tape Reel
• UL and CSA Approvals Available

Typical Applications:
• Consumer Electronics
• Instrumentation
• Computer Servers / Peripherals
• Test / Measurement

Resources:
Configure a Complete Part
Download CAD & Sales Drawing

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Phone: 860.793.9281  Fax: 860.793.9231

www.carlingtech.com
**Electrical**

- **Contact Rating**: refer to ordering scheme
- **Electrical Life**: 30,000 make & break cycles @ 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

**Physical**

- **Operating Temperature**: -30°C to +85°C
- **Solder Heat Resistance**: MIL-STD-202, Method 210

**Material**

- **Case**: Dially phthalate (DAP) (UL 94V-0)
- **Slide Handle**: Nylon
- **Housing**: Stainless Steel
- **Terminal Seal**: Epoxy

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**4M1 - SSP 3 - S1 / 2 - M6 Q E**

**1 SERIES**

4M1 Miniature Slide Switch

**2 POLES**

SSP Single Pole  SDP Double Pole

**3 CIRCUIT**

- **Switching Position**: 1 - momentary
- **Connected Terminals**: 2-1, 5-4  2-3, 5,6
- **1 ON**: NONE  ON
- **3 ON**: OFF  ON

**4 ACTUATOR**

- S1 .201" height
- S2 .301" height
- S3 .370" height
- S4 .140" height

**5 ACTUATOR COLORS**

1 White  2 Black  3 Red  4 Orange  5 Yellow  6 Green  7 Blue  8 Brown  9 Gray

**6 TERMINATION**

- M1 Solder Lug
- M2 PCB
- M3 Quick Connect
- M51 Wire Wrap .750
- M52 Wire Wrap .946
- M53 Wire Wrap .425
- M54 Wire Wrap 1.062
- M6 PC Mount, 90° horizontal

**7 CONTACTS / TERMINALS**

- Contact Material
- Terminal Plating
- Rating
- Approvals

| G | silver | gold over silver | 5A 125VAC or 28VDC | N/A |
| K | gold 2 | tin 3,5 | 0.4VA max 20V max (AC/DC) | N/A |
| P | silver 1 | tin 3,5 | 5A 125VAC or 28VDC | N/A |
| Q | silver 1 | silver 1 | 5A 125VAC or 28VDC | N/A |
| R | gold 2 | gold 2 | 0.4VA max 20V max (AC/DC) | N/A |

**8 EPOXY SEAL**

- E Epoxy Seal  0 without Epoxy Seal

Notes:

1. Movable contact & terminal platings: silver over copper alloy
2. Movable contact & terminal platings: gold over nickel over copper alloy
3. Terminal platings: tin over nickel over copper alloy, available with PC terminations only
4. Non-Black, white and red colors require a minimum order of 2500 pieces
5. Tin option available with PC type terminations only

*Manufacturer reserves the right to change product specification without prior notice.*
4M1-Series Dimensional Specifications: in. [mm]

**Actuator Options**

* All actuator length shown is SPDT model with M1 and M2 terminals.

**S1**

* Add 0.40 (.016) from actuator height for DPDT-M1 and M2 model.

**S2**

* Add 0.20 (.008) from actuator height for DPDT-M1 and M2 model.

**S3**

* Add 0.30 (.012) from actuator height for DPDT-M1 and M2 model.

**S4**

* Add 0.40 (.016) from actuator height for DPDT-M1 and M2 model.

**S5**

* Add 0.70 (.028) from actuator height for DPDT-M1 and M2 model.

**S6**

* Add 0.40 (.016) from actuator height for DPDT model.

**S7**

* Add 0.40 (.016) from actuator height for DPDT model.

**T1 for DPDT only**

* Add 0.30 (.012) from actuator height for DPDT model.

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

#### Termination Options

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>M1</td>
<td>Standard Solder Lug</td>
<td>THK .030 [0.75]</td>
</tr>
<tr>
<td>M2</td>
<td>PC Thru-Hole</td>
<td>THK .030 [0.75]</td>
</tr>
<tr>
<td>M3</td>
<td>Quick Connect</td>
<td>THK .030 [0.75]</td>
</tr>
<tr>
<td>M5</td>
<td>Wire Wrap</td>
<td>THK .030 [0.75]</td>
</tr>
</tbody>
</table>

#### Termination Options without Mounting Tabs

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>N1</td>
<td>Single Pole</td>
<td>THK .030 [0.75]</td>
</tr>
<tr>
<td>N1</td>
<td>Double Pole</td>
<td>THK .030 [0.75]</td>
</tr>
<tr>
<td>M6</td>
<td>Single Pole</td>
<td>THK .030 [0.75]</td>
</tr>
<tr>
<td>M6</td>
<td>Double Pole</td>
<td>THK .030 [0.75]</td>
</tr>
<tr>
<td>M7</td>
<td>Single Pole</td>
<td>THK .030 [0.75]</td>
</tr>
</tbody>
</table>

* Standard with Mounting Tabs.
4M1-Series Dimensional Specifications: in. [mm]

Termination Options

### M7 Double Pole

![Diagram of M7 Double Pole]

### VS2 Single Pole

![Diagram of VS2 Single Pole]

### VS2 Double Pole

![Diagram of VS2 Double Pole]

### VS3 Single Pole

![Diagram of VS3 Single Pole]

### VS3 Double Pole

![Diagram of VS3 Double Pole]

P.C. MOUNTING

- VS2 Single Pole
- VS2 Double Pole
- VS3 Single Pole
- VS3 Double Pole
Authorized Sales Representatives and Distributors

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About Carling

Founded in 1920, Carling Technologies is a leading manufacturer of electrical and electronic switches and assemblies, circuit breakers, electronic controls, power distribution units, and multiplexed power distribution systems. With four ISO9001 and IATF16949 registered manufacturing facilities and technical sales offices worldwide, Carling Technologies Sales, Service and Engineering teams do much more than manufacture electrical components, they engineer powerful solutions! To learn more about Carling please visit www.carlingtech.com/company-profile.

To view all of Carling's environmental, quality, health & safety certifications please visit www.carlingtech.com/environmental-certifications
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