The 4S-Series sub-miniature slide switches feature maintained and momentary 2 or 3 position circuits, and offer a variety of ratings, contact materials, terminal platings, and mounting styles. These switches are able to withstand temperatures from -30°C to +85°C.

Product Highlights:
- Two or Three Position Circuitry
- Maintained or Momentary Action
- 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
**4S-Series - General Specifications, 4S1 Ordering Scheme**

### 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
- **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

### 4S1 - FSP 1 - M6 Q E

<table>
<thead>
<tr>
<th>1 SERIES</th>
<th>2 POLES</th>
<th>3 CIRCUIT</th>
<th>4 TERMINATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>4S1</td>
<td>FSP</td>
<td>( )</td>
<td>M2</td>
</tr>
<tr>
<td>Sub-Miniature Slide Switch</td>
<td>Single Pole</td>
<td>momentary</td>
<td>PC Mount, horizontal, right angle</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1-2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON</td>
<td>NONE</td>
</tr>
<tr>
<td>ON</td>
<td>(ON)</td>
</tr>
<tr>
<td>OFF</td>
<td>ON</td>
</tr>
</tbody>
</table>

### 5 CONTACTS / TERMINALS

<table>
<thead>
<tr>
<th>Contact Material</th>
<th>Terminal Plating</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>G</td>
<td>silver 1</td>
<td>3A 125VAC or 28VDC; 1.5A 250VAC</td>
</tr>
<tr>
<td>K</td>
<td>gold 2</td>
<td>0.4VA max; 20V max (AC/DC)</td>
</tr>
<tr>
<td>P</td>
<td>silver 1</td>
<td>3A 125VAC or 28VDC; 1.5A 250VAC</td>
</tr>
<tr>
<td>Q</td>
<td>silver 1</td>
<td>3A 125VAC or 28VDC; 1.5A 250VAC</td>
</tr>
<tr>
<td>R</td>
<td>gold 2</td>
<td>0.4VA max; 20V max (AC/DC)</td>
</tr>
</tbody>
</table>

### 6 EPOXY SEAL
- **E**: Epoxy Seal | 0 | without Epoxy Seal |

### 7 PACKAGING
- **T/R**: tape reel - 500 pieces per reel
- **Switches are bulk packed, unless T/R is specified at the end of the part number.**

### Notes:
1. Movable contact / terminal platings: silver over copper alloy
2. Movable contact platings: gold over nickel over copper alloy
3. Terminal platings: gold over nickel over copper alloy
4. Terminal platings: tin over copper alloy, available with PC type terminations only
5. Terminal contact platings: gold over nickel alloy
6. Terminal contact platings: silver over nickel alloy
7. Tin option available with PC type terminations only

*Manufacturer reserves the right to change product specification without prior notice.*
4S1-Series Dimensional Specifications: in. [mm]

**M2 Single Pole**

- Dimensions:
  - Width: 1.97 [50.00]
  - Height: 0.201 [5.08]
  - Depth: 0.201 [5.08]

**M6 Single Pole**

- Dimensions:
  - Width: 1.97 [50.00]
  - Height: 0.201 [5.08]
  - Depth: 0.201 [5.08]

**M7 Single Pole**

- **M71 Snap-In Termination Single Pole**
  - Dimensions:
    - Width: 1.97 [50.00]
    - Height: 0.201 [5.08]
    - Depth: 0.201 [5.08]

**P.C.MOUNTING**

- Dimensions:
  - Width: 0.080 [2.03]
  - Height: 0.060 [1.52]
  - Depth: 0.030 [0.76]

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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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