4S-SERIES

4S-Series
SUBMINIATURE SLIDE SWITCHES

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

Carling Technologies, Inc.
60 Johnson Avenue, Plainville, CT 06062
Email: sales@carlingtech.com
Application Support: team2@carlingtech.com
Phone: 860.793.9281   Fax: 860.793.9231
### 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**

1 **Series**
- 4S1 - Sub-Miniature Slide Switch

2 **Pole**
- FSP - Single Pole

3 **Circuit**
- ( ) - momentary
  - Position: 1-2 Connected Terminals 2-3
  - 1 ON NONE ON
  - 2 ON NONE (ON)
  - 3 ON OFF ON

4 **Termination**
- M2 - PCB
- M6 - PC Mount, horizontal, right angle
- M7 - PC Mount, vertical, right angle
- M71 - Snap-in, vertical, right angle

5 **Contacts**
- M6 - 1

6 **Seal**
- E - Epoxy Seal

7 **Packaging**
- T/R - tape reel - 500 pieces per reel

**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.*

---

Email: sales@carlingtech.com  Application Support: team2@carlingtech.com
Phone: (860) 793–9281  Fax: (860) 793–9231  www.carlingtech.com
4S1-Series Dimensional Specifications: in. [mm]

**M2 Single Pole**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>M2</td>
<td></td>
</tr>
<tr>
<td>197</td>
<td>50.00</td>
</tr>
<tr>
<td>1.00</td>
<td>2.54</td>
</tr>
<tr>
<td>0.998</td>
<td>2.51</td>
</tr>
<tr>
<td>P.C. MOUNTING</td>
<td></td>
</tr>
<tr>
<td>0.43</td>
<td>1.09</td>
</tr>
</tbody>
</table>

**M6 Single Pole**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6</td>
<td></td>
</tr>
<tr>
<td>197</td>
<td>50.00</td>
</tr>
<tr>
<td>2.00</td>
<td>5.08</td>
</tr>
<tr>
<td>2.00</td>
<td>5.08</td>
</tr>
<tr>
<td>P.C. MOUNTING</td>
<td></td>
</tr>
<tr>
<td>0.43</td>
<td>1.09</td>
</tr>
</tbody>
</table>

**M7 Single Pole**

**M71 Snap-In Termination Single Pole**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>M7</td>
<td></td>
</tr>
<tr>
<td>197</td>
<td>50.00</td>
</tr>
<tr>
<td>1.00</td>
<td>2.54</td>
</tr>
<tr>
<td>0.998</td>
<td>2.51</td>
</tr>
<tr>
<td>P.C. MOUNTING</td>
<td></td>
</tr>
<tr>
<td>0.43</td>
<td>1.09</td>
</tr>
</tbody>
</table>

---

Email: sales@carlingtech.com  Application Support: team2@carlingtech.com
Phone: (860) 793–9281  Fax: (860) 793–9231  www.carlingtech.com
Authorized Sales Representatives and Distributors

Click on a region of the map below to find your local representatives and distributors or visit www.carlingtech.com/findarep.

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 ISO 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
Worldwide Headquarters
Carling Technologies, Inc.
60 Johnson Avenue, Plainville, CT 06062
Phone: 860.793.9281   Fax: 860.793.9231
Email: sales@carlingtech.com

Northern Region Sales Office: nrsm@carlingtech.com
Southeast Region Sales Office: sersm@carlingtech.com
Midwest Region Sales Office: mrsm@carlingtech.com
West Region Sales Office: wrsm@carlingtech.com
Latin America Sales Office: larbm@carlingtech.com

Asia-Pacific Headquarters
Carling Technologies, Asia-Pacific Ltd.,
Suite 1607, 16/F Tower 2, The Gateway,
Harbour City, 25 Canton Road,
Tsimshatsui, Kowloon, Hong Kong
Phone: Int + 852-2737-2277   Fax: Int + 852-2736-9332
Email: sales@carlingtech.com.hk

Shenzhen, China: shenzhen@carlingtech.com
Shanghai, China: shanghai@carlingtech.com
Pune, India: india@carlingtech.com
Kaohsiung, Taiwan: taiwan@carlingtech.com
Yokohama, Japan: japan@carlingtech.com

Europe | Middle East | Africa Headquarters
Carling Technologies LTD
4 Airport Business Park, Exeter Airport,
Clyst Honiton, Exeter, Devon, EX5 2UL, UK
Phone: Int + 44 1392.364422   Fax: Int + 44 1392.364477
Email: ltd.sales@carlingtech.com

Germany: gmbh@carlingtech.com
France: sas@carlingtech.com

Carling Technologies®

www.carlingtech.com