Series F6 & F7 Level Switches - Vertical

Low Cost, Reliable and Compact, Hermetically Sealed Contacts

Series F6 & F7 compact level switches combine low cost and reliability with fast, simple installation. Hermetically sealed reed switches are actuated by magnets permanently bonded inside the float and can be easily adapted to open or close a circuit on rising or falling levels. Vertical mount models are shipped with normally open switch contacts which close as the float rises toward the mounting threads. Reverse switch action by removing the float, rotating it end-for-end and replacing it on the stem. Vertical models mount internally, oriented within 30° of vertical, or select optional fittings for external mounting. Switch ratings are suitable for many solid state control systems and monitors or alarms. Simple relay interfaces can be used for higher current applications.

## Specifications

**Model**
- **F7-SB**: General purpose
- **F7-SS2**: High temp/pressure, corrosives
- **F6-SS**: Corrosives
- **F7-MPP**
  - **F7-MPP**: Broad chemical compatibility
  - **F7-MPP-NO**: Broad chemical compatibility
- **F7-ST713**: Oils & Fuels
- **F7-K**: Food/beverage, corrosives
- **F7-C11**: General purpose
- **F7-C21**: Oils & water, general purpose
- **F7-BB**: High viscosity liquids
- **F7-PS**: Water-based liquids, complies with FDA
- **F7-PVC**: Chemical & plating
- **F7-T1**: Viscous, sticky or corrosive liquids
- **F7-ST713**: Oils, water & chemicals

### Dimensions in Inches (mm)

<table>
<thead>
<tr>
<th>Model</th>
<th>(A) Stem Length</th>
<th>(B) Float Diameter</th>
<th>(C) Float Height</th>
<th>(D) Actuation from Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td>F7-SB</td>
<td>2.75 (70)</td>
<td>1.38 (35)</td>
<td>1.13 (29)</td>
<td>1.2 (31)</td>
</tr>
<tr>
<td>F7-SS2</td>
<td>2.06 (52)</td>
<td>1.0 (25)</td>
<td>1.0 (25)</td>
<td>0.73 (19)</td>
</tr>
<tr>
<td>F6-SS</td>
<td>2.17 (55)</td>
<td>1.11 (28)</td>
<td>1.11 (28)</td>
<td></td>
</tr>
<tr>
<td>F7-MPP</td>
<td>1.63 (41)</td>
<td>0.63 (16)</td>
<td>0.63 (16)</td>
<td>0.47 (12)</td>
</tr>
<tr>
<td>F7-PV</td>
<td>1.34 (35)</td>
<td>1.18 (30)</td>
<td>1.0 (25)</td>
<td>0.69 (18)</td>
</tr>
<tr>
<td>F7-ST713</td>
<td>3.38 (86)</td>
<td>1.88 (46)</td>
<td>1.88 (46)</td>
<td>1.25 (32)</td>
</tr>
<tr>
<td>F7-SS</td>
<td>2.06 (52)</td>
<td>1.0 (25)</td>
<td>1.0 (25)</td>
<td>0.56 (14)</td>
</tr>
<tr>
<td>F7-C11</td>
<td>2.06 (52)</td>
<td>1.0 (25)</td>
<td>1.0 (25)</td>
<td>0.56 (14)</td>
</tr>
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<td>F7-SP</td>
<td>3.38 (86)</td>
<td>2.06 (52)</td>
<td>2.06 (52)</td>
<td>1.09 (28)</td>
</tr>
</tbody>
</table>

### Limitations

- **Chemicals**: Corrosive liquids
- **General purpose**: Water-based liquids, complies with FDA
- **Oils & Fuels**: Broad chemical compatibility
- **Oils & water**: Broad chemical compatibility
- **High viscosity liquids**: Broad chemical compatibility
- **Water-based liquids**: Broad chemical compatibility
- **Chemical & plating**: Broad chemical compatibility
- **Viscous, sticky or corrosive liquids**: Broad chemical compatibility
- **Oils, water & chemicals**: Broad chemical compatibility

### Material

- **316 SS**
- **CPVC**
- **Buna-N**
- **Polypropylene**
- **Polypropylene & 316 SS**
- **316 SS & CPVC**
- **316 SS & Polypropylene**
- **316 SS & Buna-N**
- **316 SS & Polyethylene**

### Technical Data

- **20 VA**: 0.08A @ 240 VAC
- **30 VA**: 0.14A @ 50 VA
- **50 VA**: 1A @ 220 VAC
- **100 VA**: 2A @ 220 VAC
- **200 VA**: 4A @ 220 VAC

### UL Listed

**CALL TO ORDER:**
- **U.S. Phone**: 219 879-8000
- **U.K. Phone**: (+44) (0)1494-461707
- **Australia Phone**: (+61) (0) 2 4272 2055