The FSW301 flow switch comprises a paddle system (1) with a permanent magnet (2) attached. Above that magnet is a reed contact (3), located outside the flow of fluid. A second magnet with opposing poles (4) creates the force necessary to reset the switch back to the no flow position.

When the monitored flow pushes the paddle and changes the position of the magnet (2) in relation to the reed contact (3) it activates the contact. As soon as the flow is interrupted, the paddle moves back to its starting position, which returns the reed contact to the initial position. The force necessary to push the magnet back is provided by the two magnets repelling each other. Using magnetic force instead of the usual leaf spring means the switch is considerably more stable in the long term and much less sensitive to pressure peaks.

The reed contact used as a sensing element consists of two ferro-magnetic contact blades located in a glass bulb filled with inert gas. This practically eliminates wear resulting from contact burning. This construction allows a useful life of up to 100,000,000 switching cycles.

**Common Specifications**
- **Max Pressure:** 25 bar (365 psi)
- **Max Process Temperature:** 110°C (230°F)
- **Max Ambient Temperature:** 80°C (176°F)
- **Protection Class:** IP65
- **Connection:** ½-14 NPT
- **Materials of Construction:**
  - **Body:** Brass
  - **Paddle System:** Polypropylene, Noryl®
  - **Shaft:** Stainless steel

**To Order**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSW301</td>
<td>Flow switch, insertion style, ½ male NPT</td>
</tr>
<tr>
<td>70A-2</td>
<td>Fast pulse tone audible alarm</td>
</tr>
</tbody>
</table>

Comes complete with operator’s manual.

*Ordering Example: FSW301, insertion style flow switch and 70A-2, fast pulse tone alarm.*
SPECIFICATIONS
FSW301
Max Switching Current: 1 A
Max Switching Voltage:
230 Vac, 48 Vdc
Maximum Rating: 26 VA, 20 W
Set Point Tolerance: ±15%
Plug Connector: DIN 43650
form A/ISO 4400 cable socket
with terminal screws, suitable
for outer cable diameter 4.57
to 6.85 mm (0.18 to 0.27")
Dimensions (Excluding
Paddle or Tee): 114 x 38 x 89 mm
(4.5 x 1.5 x 3.5")

SPECIFICATIONS
FSW302, 303, 304
Max Pressure: 25 bar (362 psi)
Max Process Temperature: 110°C (230°F)
Max Ambient Temperature: 80°C (176°F)
Material of Construction: Brass body, pipe
section and paddle system

To Order
<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Setpoint Range LPM (GPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSW302</td>
<td>Flow switch, inline ¼”, brass tee</td>
<td>3.4 to 4.2 (0.9 to 1.1)</td>
</tr>
<tr>
<td>FSW303</td>
<td>Flow switch, inline ⅜”, brass tee</td>
<td>6.8 to 9.1 (1.8 to 2.4)</td>
</tr>
<tr>
<td>FSW304</td>
<td>Flow switch, inline 1”, brass tee</td>
<td>13.2 to 16.7 (3.5 to 4.4)</td>
</tr>
</tbody>
</table>

Comes complete with operator’s manual.
Ordering Example: FSW303, inline flow switch, ⅜” brass NPT connection, 70A-2, audible alarm.

SPECIFICATIONS
FSW305, 306, 307
Max Pressure: 10 bar (145 psi)
Max Process Temperature:
60°C (140°F)
Max Ambient Temperature:
60°C (140°F)
Materials of Construction:
Pipe Section: PVC
Body: Polypropylene, Noryl®
Paddle System: Polypropylene, Noryl

To Order
<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Setpoint Range LPM (GPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSW305</td>
<td>Flow switch inline ¼” PVC tee</td>
<td>4.9 to 6.8 (1.3 to 1.8)</td>
</tr>
<tr>
<td>FSW306</td>
<td>Flow switch inline ⅜” PVC tee</td>
<td>9.5 to 12.1 (2.5 to 3.2)</td>
</tr>
<tr>
<td>FSW307</td>
<td>Flow switch inline 1” PVC tee</td>
<td>10.6 to 14.8 (2.8 to 3.9)</td>
</tr>
</tbody>
</table>

Comes complete with operator’s manual.
Ordering Example: FSW305, inline flow switch, ⅜” PVC tee connection, 70A-2, audible alarm.