For switchpoint ……mm, see label

APPLICATION
For sensing off-liquid levels to activate pumps or valves via relays or PCs, a float switch works equally well with conductive as well as with non-conductive fluids such as oils.

WORKING PRINCIPLE
The float contains a magnet. It follows the fluid along the stem. The stem is a non-magnetic material with 1 to 5 built-in reed switches.

The magnet activates each reed switch for approx. 10 mm. This is called a passing switch. To assure that the contact status remains unchanged, the stem is provided with a stop ring below respectively above the float. This allows to determine whether the level is rising or falling.

We have chosen to define the contact status with empty tank and with the thread mounted in the upwards position.

MATERIALS
- Stem: Brass
- Float: Buna-N (nitrofuel)
- Junction box: Polymid 6
- Temp. max: Oil -100°C, Water +80°C

CONTACT SYMBOLS
- S = means NC low, NO going upwards
- O = means NO low, NC going upwards

TEMPERATURE SENSOR
Temperature range between +20°C..+100°C

This sensor gives 4mA at 20°C and 20mA at 100°C. For linearity see curve.

PROTECTION DEGREE
- Stem: IP68
- Junction box: IP64, IP67 can be obtained when using cable gland STP11 and threads in the lid are sealed with sealing compound.

ELECTRICAL DATA

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact rating level *</td>
<td>50 VA</td>
</tr>
<tr>
<td>max voltage</td>
<td>50 V</td>
</tr>
<tr>
<td>max current</td>
<td>3 A</td>
</tr>
<tr>
<td>Supply voltage temp</td>
<td>10-30VDC</td>
</tr>
<tr>
<td>Output</td>
<td>4-20mA</td>
</tr>
</tbody>
</table>

* = resistive load

Note. Above values are for resistive loads. Mechanical life is 30 million.
Use series resistor for lamp load, or other suitable protection for inductive loads if the rating is higher than 1/10 of the values above.