FEATURES

- Liquid level switches that can detect almost any liquid type; oil or water based
- Choice of mounting; internal or external
- Choice of threads

TECHNICAL SPECIFICATIONS

Supply voltage (Vs) 4.5V_{DC} to 15.4V_{DC}
Supply current (Is) 2.5mA max. (Vs = 15.4V_{DC})
Output sink and source current (lout) 100mA
Operating temperatures -40°C to +125°C
Storage temperatures -40°C to +125°C
Housing material Polysulfone
Sensor termination 24AWG, 250mm PTFE wires, 8mm tinned

OUTPUT VALUES

Output Voltage\(^a\) (Vout):
- Output High: Vout = Vs - 1.5V max
- Output Low: Vout = 0V + 0.5V max

lout = 100mA

BENEFITS

- Low power
- Low cost
- Compact design

NOTES

a) Before use check that the fluid in which you wish to use these devices is compatible with Polysulfone.
b) Voltages applicable to output value stated.

DATA SHEET

Liquid Level Switches

Honeywell LLE High Temp Series Alternatives

For part numbers LLE101101, LLE102101, LLE103101 and LLE105100

Need help? Ask the expert
Tel: + 44 (0)1236 459 020
and ask for “Technical”

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OUTLINE DRAWING

All dimensions shown in mm. Tolerances = ±1mm.

**Housing Specifications**

<table>
<thead>
<tr>
<th>Housing Series - External Mounting</th>
<th>Type 1</th>
<th>Type 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Thread</strong></td>
<td>M12x1x8g</td>
<td>M12x1x8g with hex nut&lt;sup&gt;c&lt;/sup&gt;</td>
</tr>
<tr>
<td><strong>Pressure&lt;sup&gt;d&lt;/sup&gt;</strong></td>
<td>7 bar / 101 psi maximum</td>
<td></td>
</tr>
<tr>
<td><strong>Tightening Torque</strong></td>
<td>1.5 Nm / 13.26 in-lbs maximum</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Housing Series - Internal Mounting</th>
<th>Type 3</th>
<th>Type 5</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Thread</strong></td>
<td>M12x1x8g with hex nut&lt;sup&gt;c&lt;/sup&gt;</td>
<td>M10x1</td>
</tr>
<tr>
<td><strong>Pressure&lt;sup&gt;d&lt;/sup&gt;</strong></td>
<td>7 bar / 101 psi maximum</td>
<td></td>
</tr>
<tr>
<td><strong>Tightening Torque</strong></td>
<td>1.5 Nm / 13.26 in-lbs maximum</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

**NOTE:** In the cases of Type 1 and Type 3 sensors, the rear of the SST sensors are slightly longer than the Honeywell sensors.

**NOTE:** The dimensions of the Type 5 part make it a “push in” part the same as LLE105100. Note that the sensor can also be secured using an M10 nut.

**Electrical Interface**

<table>
<thead>
<tr>
<th>Wire</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>Vs</td>
</tr>
<tr>
<td>Green</td>
<td>Output</td>
</tr>
<tr>
<td>Blue</td>
<td>0V</td>
</tr>
</tbody>
</table>

<sup>c</sup> Hex nut and washer supplied with Type 1, Type 2 and Type 3.

<sup>d</sup> When correctly sealed.
CAUTION: Take care when connecting loads.
The minimum load impedance should not exceed Vs/max output current.
Note: Shorting the output to Vs or 0V will result in irreparable damage to the sensor.

ORDER INFORMATION

Specify the part number you require.

Sensor mounted from outside vessel
Type 1
L L C 1 0 1 1 0 1

Type 2
L L C 1 0 2 1 0 1

Sensor mounted from inside vessel
Type 3
L L C 1 0 3 1 0 1

Type 5
L L C 1 0 5 1 0 0

Please contact SST Sensing for details; email: technical@sstsensing.com

CAUTION

Do not exceed maximum ratings and ensure sensor(s) are operated in accordance with their requirements.

Carefully follow all wiring instructions. Incorrect wiring can cause permanent damage to the device.

SST Sensing Ltd recommend using alcohol based cleaning agents. Do NOT use chlorinated solvents such as trichloroethane as these are likely to attack the sensor material.

Failure to comply with these instructions may result in product damage.

INFORMATION

As customer applications are outside of SST Sensing Ltd.'s control, the information provided is given without legal responsibility. Customers should test under their own conditions to ensure that the equipment is suitable for their intended application. Before use, check that the fluid in which you wish to use these devices is compatible with Polysulfone.

For technical assistance or advice, please email:
technical@sstsensing.com

General Note: SST Sensing Ltd. reserves the right to make changes to product specifications without notice or liability. All information is subject to SST Sensing Ltd.’s own data and considered accurate at time of going to print.