Point Level Sensors

**Pointsense™ Miniature Integral Liquid Level Switch**

The Pointsense™ Model LL-100 Liquid Level Switch is the ideal solution to a host of liquid level sensing and control applications. It uses proven ultrasonic technology to operate in virtually any liquid, regardless of viscosity. Its small size and standard 3/4” NPT mounting make it the perfect choice for new or existing applications. The LL-100 consists of a 316LSS sensor and an integral miniaturized, encapsulated electronic control unit which is mounted in a cast aluminum, explosion-proof, watertight enclosure.

**STANDARD FEATURES:**

- 500: 1 wet to dry ratio
- Epoxy painted enclosure
- Miniaturized, encapsulated electronics uses a smaller, more compact enclosure than comparable systems
- No calibration or special installation requirements
- Sensor Material: 316LSS
- FM approved
- CSA approved
- CE approved

**HOW TO ORDER LL-100**

<table>
<thead>
<tr>
<th>Power Input</th>
<th>1 - 115 VAC</th>
<th>2 - 230 VAC</th>
<th>3 - 24 VDC</th>
<th>4 - 12 VDC</th>
<th>0 - Special</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output</td>
<td>1 - DPDT-10A</td>
<td>2 - Two wire, 4 ma - dry, 20 ma - wet</td>
<td>0 - Special</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electronic Mounting</td>
<td>1 - Integral</td>
<td>2 - Remote (Std.-10’ Cable)</td>
<td>0 - Special</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flange Material</th>
<th>S - 316SS</th>
<th>X - Special</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flange Size</td>
<td>0 - 1-1/2”</td>
<td>3 - 3”</td>
</tr>
<tr>
<td></td>
<td>1 - 1”</td>
<td>4 - 4”</td>
</tr>
<tr>
<td></td>
<td>2 - 2”</td>
<td></td>
</tr>
<tr>
<td>Flange Type</td>
<td>F - 150 lb. ANSI</td>
<td>S - Sanitary</td>
</tr>
<tr>
<td></td>
<td>H - 300 lb. ANSI</td>
<td>X - Special</td>
</tr>
<tr>
<td>Sensor Mounting</td>
<td>1 - 3/4”</td>
<td>0 - Special</td>
</tr>
<tr>
<td>&quot;A&quot; Extension Length</td>
<td>00 - Std. (2.5&quot;) To 99 inches</td>
<td></td>
</tr>
</tbody>
</table>
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**SPECIFICATIONS:**
- **Repeatability:** 2mm typical
- **Delay [On]:** 0.5 seconds (standard)
- **Input Power:** 115V OR 230V 50/60 Hz AC (standard); 12 or 24V DC (optional)
- **Outputs:** 10A DPDT relay (standard)
- **Housing:** NEMA 4/NEMA 7 watertight, explosion-proof enclosure. Cast Aluminum Class 1, Group C&D, Class II, Group E, F, & G; and Class III, Division 1 & 2
- **Sensor Material:** 316LSS (standard)
- **Temperature:** Sensor -40°F to 300°F (-40˚C to 149˚C)  
  Electronics -20°F to 170°F (-29˚C to 77˚C)
- **Operating Pressure:** Up to 1000 psig - 316SS (6895 Kpa)
- **Mounting:** 3/4” NPT standard. Flange Mounting available
- **Weight:** 1 lb. (.45Kg) approx.

**APPLICATIONS:**
- Pump Protection
- Storage Tanks
- Compressors
- Hydraulic Supply Lines

**PERFORMANCE GUARANTEE**
If within 30 days of delivery the unit does not perform according to our claims and was properly installed in an application that does not exceed our stated performance specifications, the unit may be returned for full credit.

**WARRANTY:** Cosense equipment is warranted against intrinsic defects for a period of eighteen months from the date of shipment. Specifications to change without notice.

Visit Our Website:
[www.cosense.com](http://www.cosense.com)

MATERIAL: 316LSS

**CONTAMINATION DETECTION PUMPING SYSTEM**

**DIMENSIONAL DRAWINGS**