CAP-150 Series – Capacitive Level Sensor

- For non-metallic containers
- Non-intrusive level sensing
- Optional Sight Glass Bracket
- Potentiometer for sensitivity adjustment

The CAP-150 series offers a unique level sensing solution for a wide variety of bottle types including plastic, glass and fiberglass. The non-contact sensor is ideally suited for medical applications such as waste, reagent or diluent liquids as well as dark, sticky or viscous fluids. The easy-to-calibrate sensor is available in both aqueous and non-aqueous versions and can be delivered with factory preset sensitivity for quick installation for OEM orders. The CAP-150 may also be used as a proximity sensor to detect the presence of solids such as pulp & paper.

Specifications

Performance
- Nominal Sensing Distance, Sn: 0.2˝ (5mm)
- Repeat Accuracy - (% of Sn): <2%
- Hysteresis - (% of Sn): <20%

Mechanical
- Enclosure Ratings: IP67, NEMA 1,3,4,6,13
- Operating Temperature Range: -13°F to +158°F (-25°C to +70°C)
- LED Signal Indicator: Yellow
- Power On LED Indicator: Green
- Potentiometer: Yes
- Termination: 78.74˝ (2 meter), 3 Wire PVC
- Shock: 30g, 11ms

Electrical
- Supply Voltage: 5-48 VDC
- Continuous Switching Current: 300 mA
- Voltage Drop: <2 VDC
- Current Consumption: <10 mA
- Switching Frequency: 100 Hz, maximum
- Overload Protection: No
- Short Circuit: Yes
- Reverse Polarity Protection: Yes
- Approvals: CE

How To Order

Select a Part Number based on Fluid Properties and Sink State.

<table>
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<tr>
<th>Fluid Properties</th>
<th>Sensor Material</th>
<th>Flush Mountable</th>
<th>Sensing Range</th>
<th>Shielded</th>
<th>Sink/Source</th>
<th>Logic</th>
<th>Part Number</th>
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<td>Valox®</td>
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<td>No</td>
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<tr>
<td>Non-Aqueous, Non-Conductive (Shielded Sensor)</td>
<td>Ni-Plated Brass Barrel Valox® Sensor Face</td>
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Typical Applications

Fluid Monitoring:
- Waste
- Reagents
- Diluent
- Detergent/Wash
- Coolant
- Printing Ink

Dimensions

Wiring Diagram

Convert Simple Sight Glass into Switch Actuation Device

For glass tubing 1/4˝ to 1˝ Dia.

Use this easy-to-install clamp with the CAP-150 to provide liquid level sensing and switch actuation along the length of sight glasses 1/4˝ to 1˝ in diameter.

Part Number: 240836