

CAP-100 Series – Non-Contact, Capacitive Level Sensor

- ▶ For non-metallic containers
- ▶ Easy external mounting
- ▶ Compact – 30x45 mm (1.18" x 1.77")
- ▶ Potentiometer for sensitivity adjustment
- ▶ Power on and signal LED indicators

The CAP-100 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-100 may also be used as a proximity sensor to detect the presence of solids such as paper or pulp.

Specifications

| | |
|------------------------------|--------------------------------------|
| Performance | |
| Nominal Sensing Distance, Sn | 0.39" (10mm) |
| Sensing Range | 0-0.39" (0-10mm) |
| Repeat Accuracy - (% of Sn) | <10% |
| 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 |
| Sensor Type | |
| Unshielded | L-Type, Non-Embeddable |
| Shielded | D-Type, Embeddable |
| Sensor Material | Glass Filled Nylon |
| Cable | 78.74" (2 meter), 3 Wire PVC |
| Shock | 30g, 11ms |
| Vibration | 55Hz, 1mm amplitude in all planes |
| Electrical | |
| Supply Voltage | 10-48 VDC |
| Continuous Switching Current | 300 mA |
| Voltage Drop | <2 VDC |
| Current Consumption | <10 mA |
| Switching Frequency | 100 Hz |
| Transient Protection | 2kV, 1ms, 1 kOhm |
| Overload Protection | Yes |
| Short Circuit | Yes |
| Reverse Polarity Protection | Yes |
| Approvals | CE (Except at Frequency 803-805 MHz) |

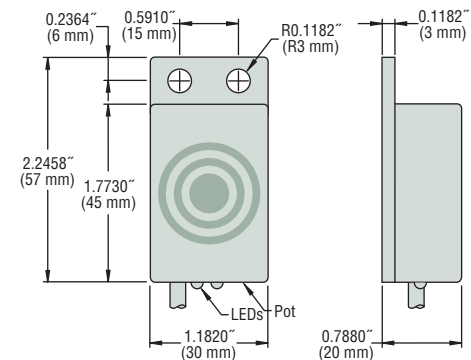


Typical Applications

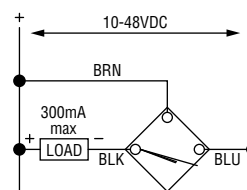
Fluid Monitoring:

- Waste
- Reagents
- Diluent
- Detergent/Wash
- Coolant
- Printing Ink

Dimensions



Wiring Diagram



How To Order

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

| Fluid Properties | Max. Container Wall Thickness | Wet/Dry Sink | Part Number |
|---|-------------------------------|--------------|-------------|
| Water Based, Conductive (unshielded sensor) | 5/8" | Wet | 230079 |
| | | Dry | 230081 |
| Non-Water Based, Not Conductive (shielded sensor) | 3/8" | Wet | 228830 |
| | | Dry | 229855 |