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

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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	5-48 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), RoHS		

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,	E /0″	Wet	230079
(unshielded sensor)	5/6	Dry	230081
Non-Water Based, Not Conductive (shielded sensor)	2/0″	Wet	228830
	3/0	Dry	229855



Detergent/Wash

Coolant

• Printing Ink

Typical Applications

Fluid Monitoring:

- Waste
- Reagents
- Diluent

Dimensions



Wiring Diagram



Dry Sink

