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		

How To Order

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

Fluid Properties	Max. Container Wall Thickness	Flush Mountable	Wet/Dry Sink	Part Number
Water Based, Conductive	5/8″ No	No	N.O. Wet	230079
(unshielded sensor)		INO	N.C. Dry	230081
Non-Water Based, Not Conductive	3/8″	Yes	N.O. Wet	228830
(shielded sensor)	3/0		N.C. Dry	229855



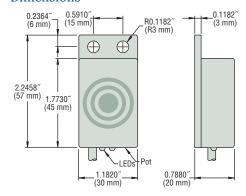


Typical Applications

Fluid Monitoring:

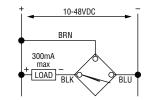
- Waste
- Reagents
- Diluent
- Detergent/Wash
- Coolant
- Printing Ink

Dimensions

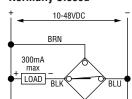


Wiring Diagram

Normally Open



Normally Closed





Specialists in Valves, Controls, Pneumatics, Fluid Measurement

CAP-200 Series – Compact, 1/2"NPT Mount

- For metallic and non-metallic containers
- ▶ Food grade plastic housing
- ▶ No sensor well required
- ▶ Potentiometer for sensitivity adjustment

The CAP-200 Series is easily threaded directly into 1/2" NPT fittings for an easy level sensing solution within a wide variety of metal and non-metal tanks. The highly accurate sensor is built from durable Delrin® material, and is available in both aqueous and non-aqueous versions. The easy to calibrate sensor can be delivered with factory preset sensitivity for quick installation by OEM.

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		
Barrel Material	Delrin®		
Termination	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		

How To Order

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

Fluid Properties	Min. Container Wall Thickness	Container Material	Wet/Dry Sink	Part Number
Water Based, Conductive		Non-Metallic	N.O. Wet	230077
(unshielded sensor)		NOII-WELAIIC	N.C. Dry	230078
Non-Water Based,	Not Conductive 3/8"	Non-Metallic or Metallic	N.O. Wet	230082
(shielded sensor)			N.C. Dry	230083



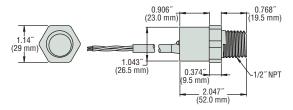


Typical Applications

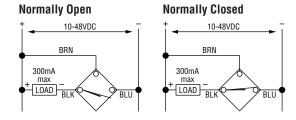
Fluid Monitoring:

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

Dimensions



Wiring Diagram



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