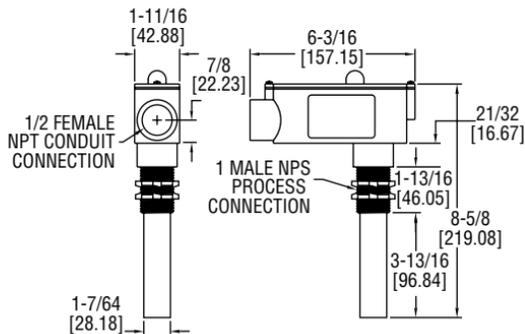


# CAPACITANCE LEVEL SWITCH

For Solids, Liquids or Slurries, Fail-Safe Protection, <1 pF Sensitivity



The **MODEL CLS1** Capacitance Level Switches provides reliable point level measurement of solids, liquids and slurries in metallic or non-metallic tanks and vessels. It detects the presence or absence of material in contact with the probe by sensing a change in the capacitance.

## FEATURES/BENEFITS

- Electronics provide highly sensitive measurement detection (requires less than a 1 picofarad shift from ambient)
- State of the art technology ignores material build-up on the vessel sidewall or along the probe assembly
- One time calibration is simple with a single multi-turn potentiometer
- Red LED on housing indicates sensor status
- Adjustable 1-30 second time delay and a 5 A, SPDT fail-safe relay output
- Added installation flexibility with vertically or horizontally mounting

## APPLICATIONS

- High or low level detection
- Bins
- Silos
- Tanks
- Hoppers
- Chutes

## SPECIFICATIONS

**Service:** Solids, liquids, or slurries.

**Wetted Material:** CPVC.

**Temperature Limits:** Process: -40 to 240°F (-40 to 116°C); Ambient: -40 to 185°F (-40 to 85°C).

**Enclosure Rating:** NEMA 4X (IP66), PVC, dust tight, water resistant.

**Switch Type:** SPDT.

**Electrical Rating:** 5 A @ 250 VAC.

**Power Requirements:** 120 VAC, 1.5 VA.

**Conduit Connection:** 3/4" female NPT.

**Process Connection:** 1" male NPS.

**Mounting Orientation:** Vertical or horizontal.

**Sensitivity:** Adjustable to < 1 pF.

**Fail-Safe:** Switch selectable, high/low.

**Time Delay:** Adjustable 1 to 30 s.

**Weight:** 2.0 lb (0.91 kg).

## MODEL CHART

Model	Description
CLS1	Capacitance level switch