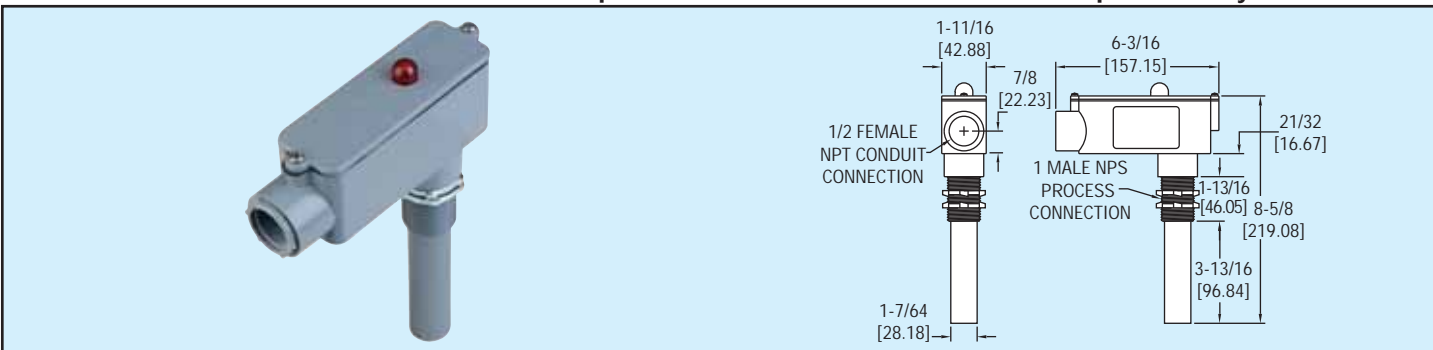


# Capacitance Level Switch

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



**Model CLS1 Capacitance Level Switch** provides reliable point level measurement of solids, liquids and slurries in metallic or non-metallic tanks and vessels. Model CLS1 detects the presence or absence of material in contact with the probe by sensing a change in the capacitance. 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. Unit features an adjustable 1-30 second time delay and a 5 amp, SPDT fail-safe relay output. Model CLS1 can be mounted vertically or horizontally.

## APPLICATIONS

High or low level detection in bins, silos, tanks, hoppers, chutes and other vessels where liquids, solids or slurries are stored.

**Model CLS1**, Capacitance Level Switch

## 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 (IP56), PVC, dust tight, water resistant.

**Switch Type:** SPDT.

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

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

**Conduit Connection:** 1/2" 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 seconds.

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