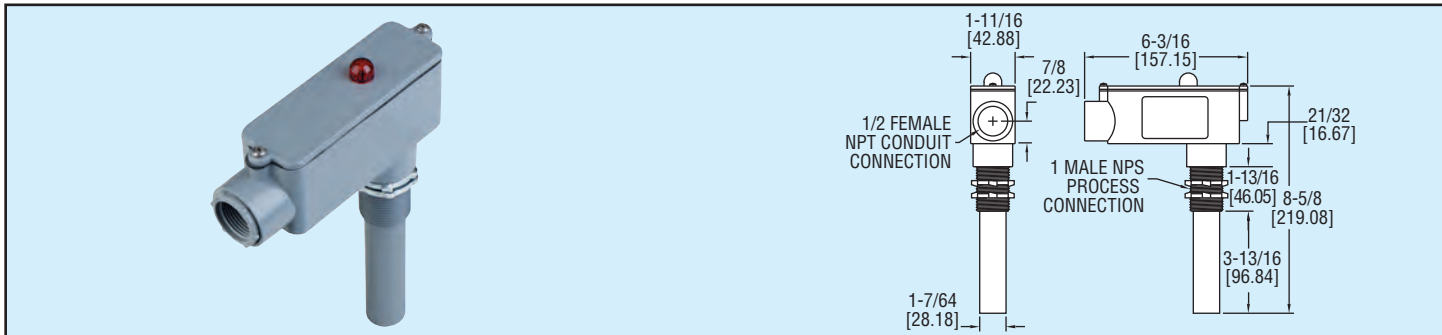




Model
CLS1

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 (IP66), PVC, dust tight, water resistant.

Switch Type: SPDT.

Electrical Rating: 5A @ 250 VAC.

Power Requirements: 120 VAC, 1.5VA.

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 seconds.

Weight: 2.0 lb (0.91 kg).