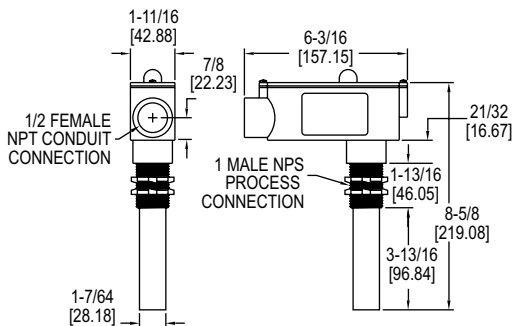


Dwyer

MODEL CLS1

CAPACITANCE LEVEL SWITCH

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



The **Model CLS1 Capacitance Level Switch** 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.

BENEFITS/FEATURES

- 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