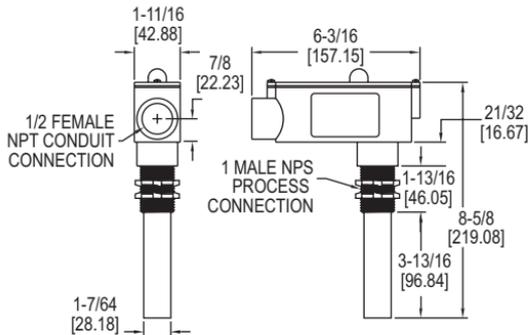


**Dwyer****MODEL CLS1**

# CAPACITANCE LEVEL SWITCH

For Solids, Liquids or Slurries, Fail-Safe Protection, &lt;math&gt;&lt; 1\text{ pF}&lt;/math&gt; 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 <math>< 1\text{ pF}</math>.**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