The Series CLS2 Capacitive Level Switch is a capacitive technology level switch which can be used for liquids, powders, and bulk materials. It is offered with PVDF and 316 SS wetted material, weatherproof enclosure, DPDT output, and a variety of process connections.

**FEATURES/BENEFITS**
- No moving parts permitting for no jams, no wear, nothing to break, and no maintenance
- Impulse RF admittance measurement combined with an active guard, provides excellent level measurement and stability while being insensitive to material buildup
- Immune to external RF sources like walkie-talkies and cell phones as well as minimal interference with radio communication or other electronic systems
- Automatic calibration with no need to turn calibration pots, just push the calibration button and an external magnet to activate the calibration without having to open the enclosure saving time
- Can be used for liquid interface applications to detect the level of two immiscible liquids that have different dielectric constants such as oil and water
- Fail-safe setting with output switches that can be set for NO or NC condition on loss of power
- Time delay prevents false alarms from material splashing, agitation, etc.
- Removable terminal block snaps in and out enabling easy wiring outside of the enclosure
- Universal power supply with one model that works from 12-240 VAC/DC without enclosure
- Failsafe setting with output switches that can be set for NO or NC condition on loss of power
- Set Point Adjustment: Trips when product touches probe. Cut or extend probe to length of desired trip point. Can be cut as short as 1” and can be extended by welding on to probe. (Minimum length will be effected by material being sensed.)
- Response Time: 0.2 s.
- Time Delay: Adjustable, 0 to 60 s.
- Spark/Static Protection: 10 MΩ dissipation resistance with spark gap. Surge current to 100A max.
- Sensitivity: 8 selectable settings, 1, 2, 4, 6, 8, 10, 14, 20 pF (at 30 pF nominal free capacitance).

**APPLICATIONS**
- Sewage and wastewater
- Food and beverage
- Pharmaceuticals
- Sumps
- Boilers and steam generators
- Caustics and acids
- Reservoirs

**SPECIFICATIONS**
- **Service:** Liquids, powder, and bulk materials compatible with wetted materials.
- **Wetted Materials:** 316 SS and polyvinylidene fluoride (PVDF).
- **Temperature Limits:** Ambient: -40 to 185°F (-40 to 85°C), 4 to 185°F (-20 to 85°C) with under 24 VAC/DC power supply; Process: -40 to 250°F (-40 to 121°C).
- **Pressure Limit:** 365 psi (25 bar).
- **Enclosure Rating:** Weatherproof, NEMA 4X (IP66).
- **Switch Type:** DPDT (two form C).
- **Electrical Rating:** 8 A @ 120/240 VAC res., 30 VDC. 1/2 hp @ 120 VAC and 1/4 hp @ 240 VAC ind.
- **Power Requirements:** 12-240 VAC/DC.
- **Power Consumption:** 2.8 watts max.
- **Electrical Connection:** 1/2” NPT conduit opening, screw termination with removable terminal block.
- **Process Connection:** See model chart.
- **Mounting Orientation:** Vertical or horizontal.
- **Agency Approvals:** cULus.

**MODEL CHART**

<table>
<thead>
<tr>
<th>Example</th>
<th>Series</th>
<th>Enclosure</th>
<th>Switch</th>
<th>Power Supply</th>
<th>Probe Type</th>
<th>Insulator Material</th>
<th>Process Connection</th>
<th>Probe Length</th>
<th>Options</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLS2-W11RK1-019-M20</td>
<td>CLS2-W11RK1-019-M20</td>
<td>DPDT rated 8 A @ 12/240 VAC, 30 VDC res.</td>
<td>12-240 VAC/DC</td>
<td>Standard rod: 316 SS, 3/8” diameter</td>
<td>Standard rod: 316 SS (can attach 4” (1.2 m) field extensions.*)</td>
<td>Cable: 316 SS with weight</td>
<td>3/4” male NPT</td>
<td>Insertion length in inches. Example 019 is 19” length. (Minimum length is 6”, with 3/4” sensing tip)</td>
<td>M20 conduit connection with cable gland</td>
<td>CLS2-W11RK1-019, $373.00, Consult website for pricing for all options.</td>
</tr>
</tbody>
</table>

*Extension rods sold separately. Contact factory for part number.