The Series LTS Tilt Switch Probes are able to sense either the presence or absence of material when other sensors won’t work due to bin vibration, or actual walls aren’t available for mounting other types of measuring units. The probes are designed for use where the bulk material to be sensed is exposed or open. Typical applications include high or low level detection in large hoppers, silos, crushers, or trippers, high level control under stackers, and detection of plugged conditions at conveyor transfer points. Series LTS probes can also be used to detect the presence or absence of bulk material on belt conveyors, on chutes to indicate product flow, and to aid in loading rail cars or trucks.

All probe models are airtight, dust tight, and waterproof. The compact probe should be used for applications involving small bins and hoppers where space is limited, while the heavy duty probe should be used for applications where a heavy duty abrasion-resistant probe is necessary.

### SPECIFICATIONS
- **Service:** Powder and bulk.
- **Temperature Limit:** -40 to 150°F (-40 to 66°C).
- **Switch Type:** SPST, normally closed.
- **Electrical Rating:** 0.25 A max, 60 V max, 3 VA max.
- **Electrical Connection:** 16-2 type SO connection cable.
- **Cable Length:** 3´ (0.9 m) unless otherwise specified.
- **Probe Length:** Standard: 9˝ (23 cm); Compact: 6˝ (15 cm).
- **Signal Voltage:** 15 VDC.
- **Actuation Angle:** 25° from vertical.
- **Material:** Steel or 316 SS.
- **Switch Surrounding:** Epoxy encapsulated.
- **Mounting Orientation:** Vertical.
- **Weight:** Standard: 4.75 lb (2.15 kg); Compact: 2.5 lb (1.13 kg).
- **Features:** Fittings for hangers.
- **Enclosure Rating:** NEMA 4 (IP56).

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>Probe Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTS-N11G-003</td>
<td>Standard</td>
<td>Steel</td>
</tr>
<tr>
<td>LTS-N21G-003</td>
<td>Compact</td>
<td>Steel</td>
</tr>
<tr>
<td>LTS-N12G-003</td>
<td>Standard</td>
<td>SS</td>
</tr>
<tr>
<td>LTS-N22G-003</td>
<td>Compact</td>
<td>SS</td>
</tr>
</tbody>
</table>

Consult factory for custom cable lengths.

The Series LTC Tilt Switch Control Units feature an adjustable time delay and a logic selector switch. The logic selector switch determines when the output relay actuates and de-actuates, thus while in position one, the relay is energized when the probe is in the vertical position and de-energizes when the probe is in the tilted position, and while in position two, the actions are opposite. In addition, an adjustable time-delay feature may be assigned to either the vertical or the tilt position to prevent false signals. The relay assumes the de-energized position upon reaching the end of the delay period as well as upon failure of power to the controller.

### SPECIFICATIONS
- **Temperature Limit:** 125°F (52°C).
- **Power Requirements:** 115 VAC @ 50/60 Hz.
- **Power Consumption:** 10W.
- **Switch Type:** DPDT.
- **Electrical Rating:** 10 A @ 115 VAC.
- **Enclosure:** None or carbon steel housing with polyester coating.
- **Enclosure Rating:** None or NEMA 4 (IP56).
- **Conduit Connection:** None.
- **Indicator Lights:** Green (when relay is energized and probe vertical), Red (when relay is de-energized and probe tilted).
- **Indication Light Power Required:** 18 VDC.
- **Time Delay:** 1 to 10 sec. Adjustment will delay output relay action.

<table>
<thead>
<tr>
<th>Model</th>
<th>Enclosure</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTC2</td>
<td>NEMA 4</td>
</tr>
<tr>
<td>LTC3</td>
<td>No-enclosure</td>
</tr>
</tbody>
</table>

Contact factory for custom cable lengths.