• Thermal point level switch for the detection of level in all vessels.
• Wide operating temperature range -100°F to +850°F (-70°C to +458°C).
• Switch on level change of .03 inch without concern for changing temperature, density, dielectric constant or chemical composition.
• Two year workmanship warranty.
• Free of all moving parts that can stick, coat or fail.
• Fast response time of .1 to 1 second on wetting, media dependent.
• Self heating sensor design improves repeatability. No separate heater to fail or slow response time.
• CE, CENELEC and CSA Approved.
Model LS3200

Single Channel Point Level Switch

SPECIFICATIONS

Sensor

Type:
Thermal Differential, Dual RTD Sensors

Process Connection:
Standard 0.75 inch MNPT
Optionally 0.5 inch and larger MNPT and various other process connections such as sanitary and flanges

Insertion Length:
Standard 2.0 inch
Optionally 0.5 inch or greater

Operating Temperature Range:
Standard -100°F to 390°F (-70°C to +200°C)
Medium Temperature to +572°F (+300°C)
High Temperature to +850°F (+458°C)

Materials of Construction:
Standard 316L Series Stainless Steel
Optionally Hastelloy, Monel, Inconel and other exotic materials

Operating Pressure Range:
Standard to 3000 psia (207 bar)

Electronics

Power:
Standard 110V AC Optionally 220V AC, or 24VDC at 3 watts (No heater power required)

Operating Temperature Range:
Standard -40°F to +140°F (-40°C to +60°C)
Optionally remote electronics for use in medium and high temperature environments

Outputs:
DPDT Relay contacts rated at 5 amp, 250 VAC with fail safe capability
Self-Test:
Integral and Automatic during power up.

Enclosure:
Explosion proof; NEMA 3, 4X, 7, and 9; CSA, FM, UL, CENELEC, and EECS approved

Instrument

Operating Range:
Switch on level change of .03 inch. Available with insertion lengths from 0.5 inch to 30 feet.

Response Time:
Sensor response time 0.1 to 1 second media dependent

Stability:
Drift < .5% from calibrated setpoint over a range of ±50°F. Temperature compensated throughout entire range.

Repeatability:
±1% of setpoint

Approvals:
CE, CSA, CENELEC
Class 1 Div. 1 Groups B, C, & D

Model Number Selection Guide

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<tbody>
<tr>
<td>LS32CS</td>
<td>3A1 - 1.5 Inch Sanitary w/3A Stamp</td>
<td>S6 - 316L Stainless Steel (std)</td>
<td>002.00 - 2.00 inch (std)</td>
<td>110 - 110 VAC</td>
<td>LE - Local Electronics(std)</td>
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<tr>
<td>LS32CN</td>
<td>075 - 0.75 inch MNPT</td>
<td>S4 - 304 Stainless Steel</td>
<td>000.00 - 0.50” to 120.00” in .25”</td>
<td>220 - 220 VAC</td>
<td>RE - Remote Electronics</td>
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<tr>
<td>LS32NX</td>
<td>050 - 0.50 inch MNPT</td>
<td>SL - 304L Stainless Steel</td>
<td>000.00 - Custom Length</td>
<td>24D - 24 VDC</td>
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<td></td>
<td>100 - 1 inch MNPT</td>
<td>HB - Hastelloy B</td>
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<td></td>
<td>RA1 - Raised face flange 150 # 1 inch</td>
<td>HC - Hastelloy C</td>
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<td>RA2 - Raised face flange 150 # 2 inch</td>
<td>IO - Inconel 600</td>
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<tr>
<td></td>
<td>RB1 - Raised face flange 300 # 1 inch</td>
<td>MN - Monel</td>
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<tr>
<td></td>
<td>RB2 - Raised face flange 300 # 2 inch</td>
<td>A2 - Alloy 20</td>
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Form Number (DML 1010.01)