





# **LL-01 SERIES**

### RELAY VERSION

Proven ultrasonic technology combined with compact electronics

Improved performance in aerated liquids

Cost effective design for tight spaces and direct replacement of electro optical and mechanical float switch

The LL-01 series Ultrasonic Sentio<sup>™</sup> Miniature Liquid Level Switch uses proven ultrasonic technology combined with compact electronics yielding improved performance in aerated liquids.

#### Features

Standard Features

- High pressure up to 250 PSIG (1724 KPa)
- Relay output, SPST (NO or NC)
- No moving parts, easy to install
- Input 5.5 to 30 VDC
- Digital filter techniques enhance performance

#### **Optional Features**

- Temperature options: 80℃ or 100℃
- Mounting options: 1/4" NPT or 1/2" NPT
- Power Loop version also available (Wet 20±1 mA; Dry 4±1 mA)

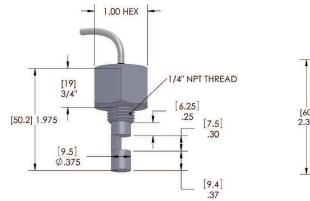
### Applications

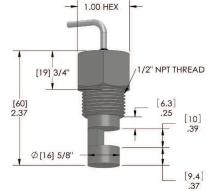
- Pump protection
- Storage tanks
- Compressors
- Medical and laboratory equipment
- Hydraulic supply lines
- Oil film detection
- Coolant reservoirs
- · Boiler water cutoff
- Sewage systems
- Pipelines
- Hydraulic and lube reservoirs
- Chillers

### **Specifications**

Repeatability	2 mm or better
Delay	0.5 seconds
Input Power	5.5 to 30 VDC
Output (standard)	Solid state relay, SPST
Peak Load Voltage	100V (AC or DC), inductive loads must be diode bypassed
Continuous Load Current	3.5 A <25℃ derating to 0.75A@100℃
EMC	EN 61326-1 for fixed cable lengths <30 meters and not powered from a DC distribution system; Emissions Group 1 Class A
Sensor Material	316L Stainless Steel
Temperature	-20 to +176℉ (-29 to 80℃) or -20 to +212℉ (-29 t o 100℃)
Operating Pressure	Up to 250 PSIG (1724 KPa)
Mounting	1/4" NPT or 1/2" NPT
Cable Length	1, 4, 10, & 20 foot lengths available

### Mechanical Dimensions in inches [mm]





#### Figure 1

Left: LL-01 series element with ¼" NPT sensor mounting

Right: LL-01 series element with ½" NPT sensor mounting

### **Typical Wiring Diagram**

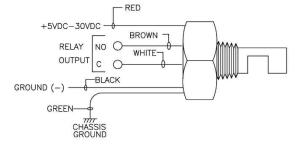
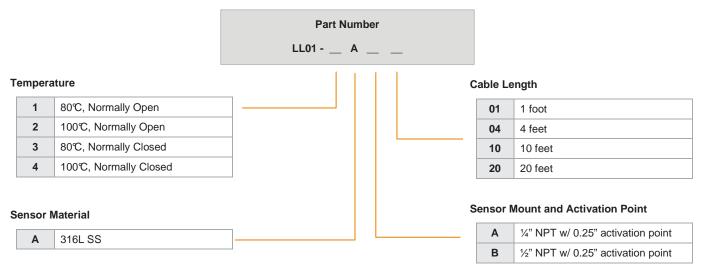


Figure 2 Typical wiring diagram for LL-01 series elements

### **Ordering Information**



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