

LL-01 SERIES – RELAY VERSION

SPECIFICATIONS

- **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™ 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)
- Output: Relay output, 0.5 amp SPST (normally open)
- No moving parts, easy to install
- Input 5 to 30 VDC
- Digital filter techniques enhance performance

Optional Features

- 3.3 volt input power
- Electropolishing
- Higher pressure up to 500 PSIG (3447 Kpa)
- Normally closed relay or Power Loop output, 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
- Pipe lines
- Hydraulic and lube reservoirs
- Chillers

PERFORMANCE SPECIFICATIONS

Parameter	Typical Value
Repeatability	2 mm or better
Delay	0.5 seconds
Input Power	5 to 30 VDC
Leakage Current	Less than 50 µA
Output (standard)	Mechanical Relay: 0.5 A, 10 W max; SPST (normally open)

Parameter	Typical Value
Sensor Material	316L Stainless Steel
Temperature	-20 to +176° F (-29 to 80 °C)
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]

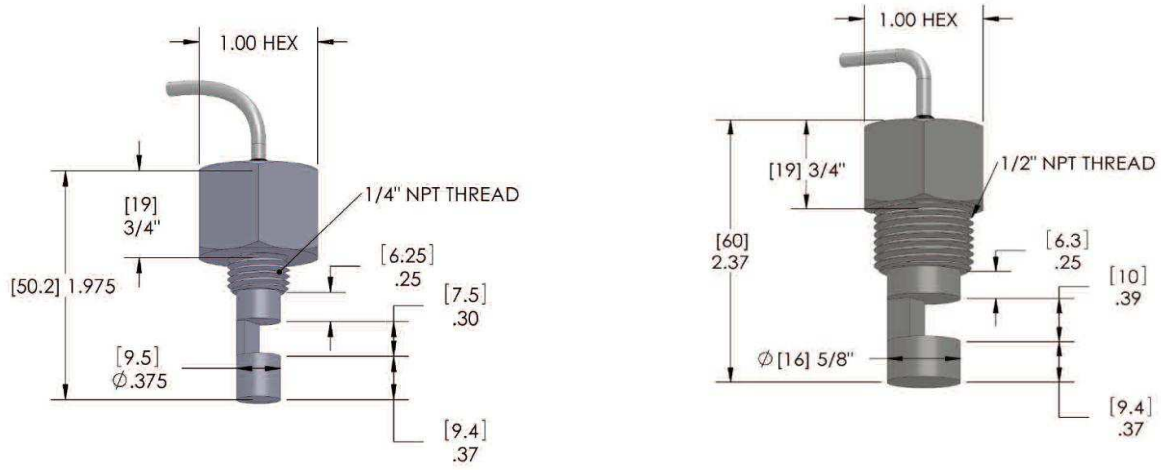


Figure 1: Left - LL-01 series element with ¼” NPT sensor mounting
Right - LL-01 series element with ½” NPT sensor mounting

TYPICAL WIRING DIAGRAM

Relay Output

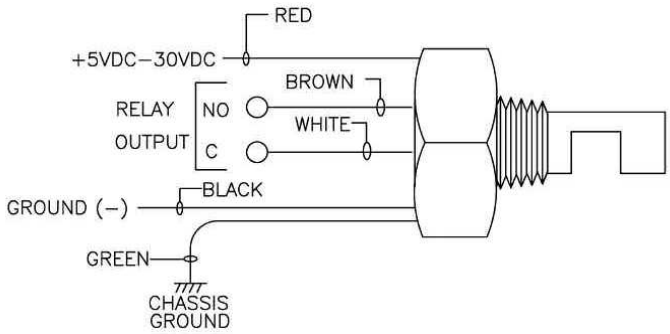


Figure 2: Typical wiring diagram for LL-01 series elements

ORDERING INFORMATION

LL01 - A

Temperature

1 – 80 °C, normally open
2 – 100 °C, normally open
3 – 80 °C, normally closed
4 – 100 °C, normally closed

Sensor Material

A – 316L SS

Cable Length

01 – 1 foot
04 – 4 feet
10 – 10feet
20 – 20 feet

Sensor Mount and Activation Point

A – ¼" NPT w/ 0.25" activation point
B – ½" NPT w/ 0.25" activation point

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