



LL-01 SERIES

POWER LOOP

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)
- No moving parts, easy to install
- Input 5.5 to 30 VDC
- Digital filter techniques enhance performance
- Power Loop output, Wet 20 ± 1 mA; Dry 4 ± 1 mA

Optional Features

- Temperature options: 80°C or 100°C
- Mounting options: ¼" NPT or ½" NPT
- Relay output version also available (SPST-NO or NC)

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)	Wet 20±1 mA; Dry 4±1 mA
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°F (-29 to 80°C) or -20 to +212°F (-29 to 100°C)
Operating Pressure	Up to 250 PSIG (1724 KPa)
Mounting	¼" NPT or ½" NPT
Cable Length	1, 4, 10, & 20 foot lengths available

Typical Wiring Diagram

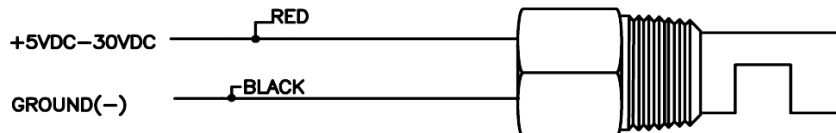


Figure 1
Typical wiring
diagram for LL-01
series elements

Mechanical Dimensions in inches [mm]

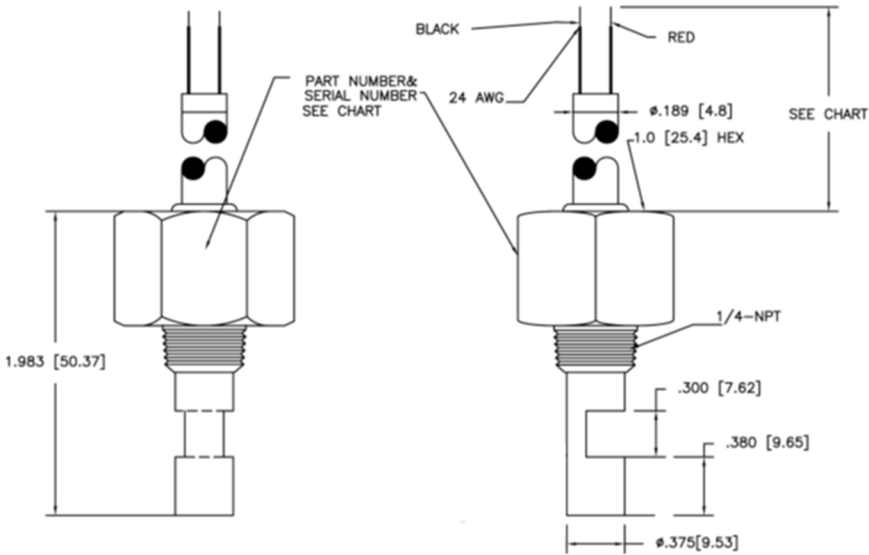
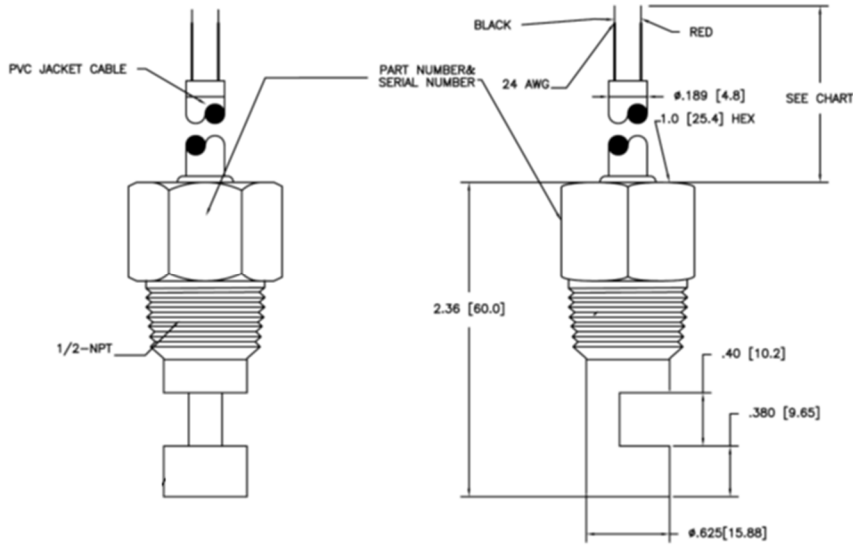


Figure 2

Top: LL-01 series
element with 1/4" NPT
sensor mounting

Bottom: LL-01 series
element with 1/2" NPT
sensor mounting



Ordering Information

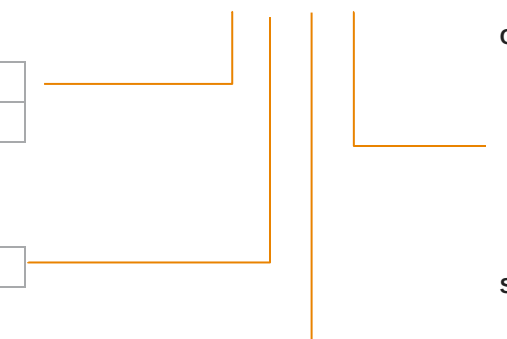
Part Number	
LL01 - _ A _ _	

Temperature	
5	80°C, 4-20 mA
6	100°C, 4-20 mA

Sensor Material	
A	316L SS

Cable Length	
01	1 foot
04	4 feet
10	10 feet
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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Version # 11/2021

