



## LL-01 SERIES – POWER LOOP

### 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)
- ◆ No moving parts, easy to install
- ◆ Input 5 to 30 VDC
- ◆ Filter techniques enhance performance

#### Optional Features

- ◆ 3.3 volt input power
- ◆ Electropolishing
- ◆ Higher pressure up to 500 PSIG (3447 Kpa)
- ◆ Relay output, 0.5 amp 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
- ◆ 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 $\mu$ A                |
| Output (standard) | Wet 20 $\pm$ 1 mA; Dry 4 $\pm$ 1 mA |

| 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, 1/2" NPT            |
| Cable Length       | 1, 4, 10, & 20 foot available |

MECHANICAL DIMENSIONS IN INCHES [MM]

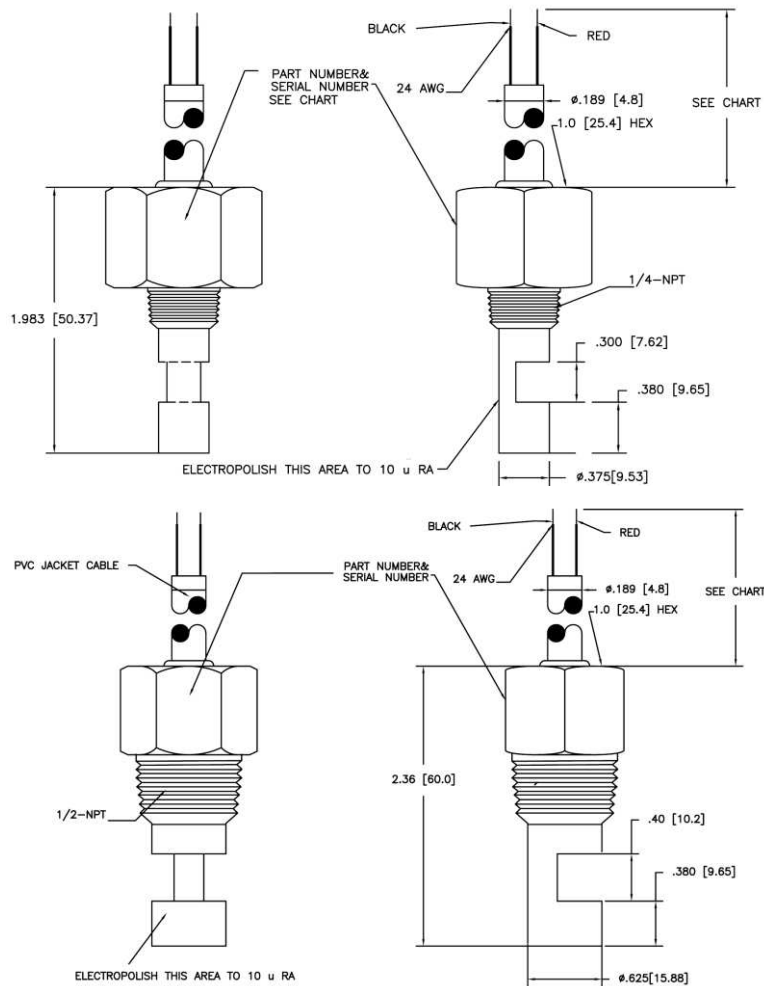


Figure 1: Top - LL-01 series element with 1/4" NPT sensor mounting  
 Bottom - LL-01 series element with 1/2" NPT sensor mounting

**TYPICAL WIRING DIAGRAM**

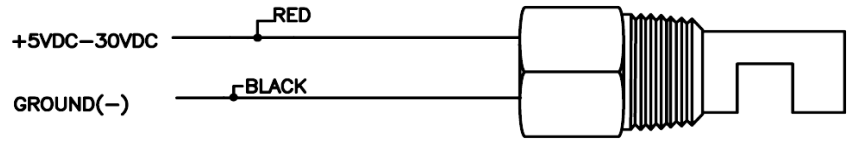
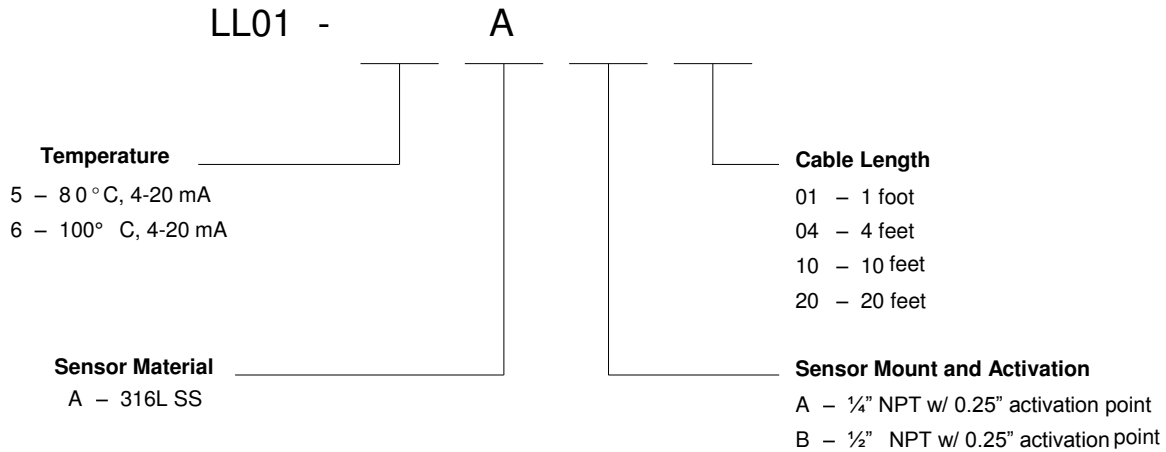


Figure 2: Typical wiring diagram for LL-01 series elements

**ORDERING INFORMATION**



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