

te.com



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™ 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

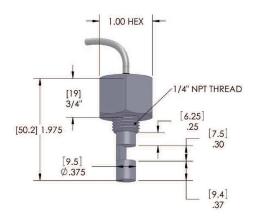
Temperature -20 to +176♥ (-29 to 80℃) or -20 to +212♥ (-29 to 100℃)

Operating Pressure Up to 250 PSIG (1724 KPa)

Mounting ¼" NPT or ½" NPT

Cable Length 1, 4, 10, & 20 foot lengths available

Mechanical Dimensions in inches [mm]



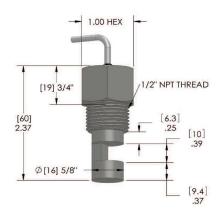


Figure 1

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

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

Typical Wiring Diagram

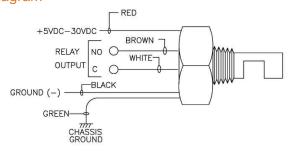


Figure 2
Typical wiring
diagram for LL-01
series elements