LL-100 Series

- **Proven ultrasonic technology**
- **Effective in virtually any liquid, regardless of viscosity**
- **Compact design**
- **Standard 3/4” NPT mounting**
- **Miniaturized, encapsulated electronics use a smaller, more compact enclosure than comparable systems**

DESCRIPTION

The Pointsense™ Model LL-100 Liquid Level Switch is the ideal solution to a host of liquid level sensing and control applications. It uses proven ultrasonic technology to operate in virtually any liquid, regardless of viscosity. Its small size and standard 3/4” NPT mounting make it the perfect choice for new or existing applications. The LL-100 consists of a 316 LSS sensor and an integral miniaturized, encapsulated electronic control unit which is mounted in a cast aluminum, watertight enclosure.

FEATURES

- 500:1 wet to dry ratio
- Epoxy painted enclosure
- 316 LSS sensor and encapsulated electronic control unit
- No calibration or special installation requirements

APPLICATIONS

- Pump Protection
- Storage Tanks
- Compressors
- Hydraulic Supply Lines
- Boiler Water Cutoff
- Sewage Systems
- Pipe Lines

PERFORMANCE SPECIFICATIONS

Parameter	Typical Value
Repeatability	2 mm typical
Delay	0.5 seconds (standard)
Input Power	115 V or 230 V 50/60 Hz AC (standard); 12 or 24 VDC (optional)
Output	10 A DPDT relay
Housing	NEMA 4/NEMA 7 watertight, explosion proof enclosure. Cast Aluminum Class 1, Group C&D, Class ll, Group E, F, & G; and Class lll, Division 1 & 2

Parameter	Typical Value
Mounting	3/4” NPT standard
Sensor Material	316L SS (standard)
Weight	1 lbs (0.45 Kg) approximate
Operating Pressure	Up to 1000 PSIG – 316 SS (6895 Kpa)
Temperature	Sensor: -40 to 300 °F (-40 to 149 °C) Electronics: -20 to 170 °F (-29 to 77 °C)

MECHANICAL DIMENSIONS in inches [mm]

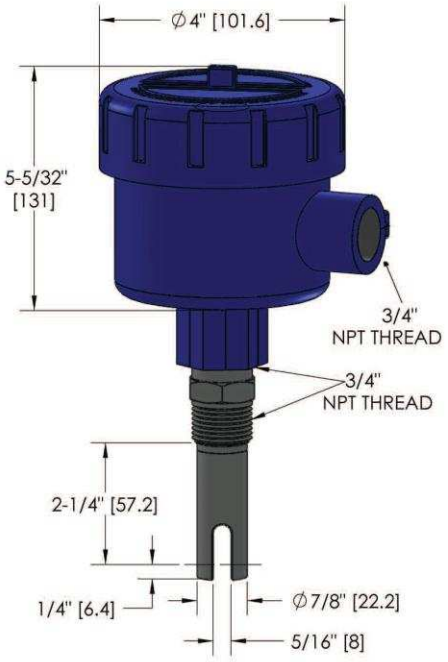

Figure 1: LL-100 series elements

APPLICATION SCHEMATICS

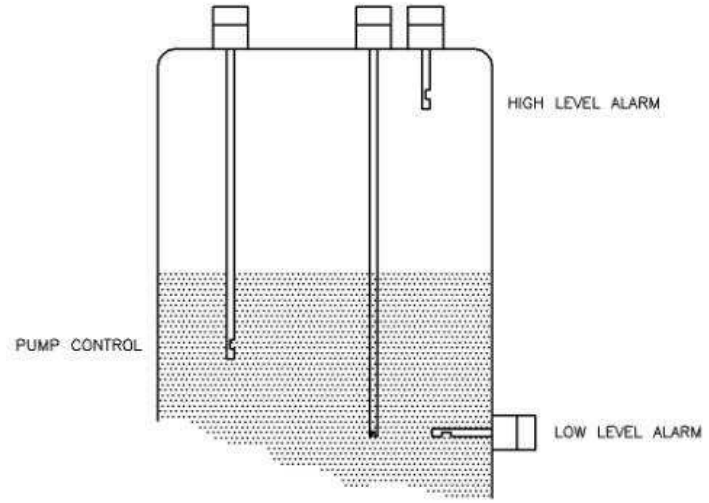

Figure 2: Schematic drawing depicting the LL-100 series elements used in high and low level alarm applications.

ORDERING INFORMATION

03 - ____ ____ ____ ____ A ____ C X X ____

Input
A – 115 VAC
B – 230 VAC
C – 24 VDC
D – 12 VDC

Output
D – 4-20 mA *(only available on models with VDC input)*
J – DPDT 10 A

Electronic Mount
1 – Integral
2 – Remote

Cable Length
XX – No cable *(for models with integral electronic mount)*
10 – 10 feet
20 – 20 feet
30 – 30 feet
40 – 40 feet

Custom Label
1 – No
2 – Yes
3 – Yes with tag

Sensor Mount
C – ¾" NPT

Activation Point
Valid range 2.25-93.50
Enter as follows:
2.25 enter as 0225
2.6 enter as 0260
12 enter as 1200

Sensor Material
A – 316L SS

TECHNICAL CONTACT INFORMATION

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