

# 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

# LL-100 Series

## PERFORMANCE SPECIFICATIONS

Parameter	Typical Value	Parameter	Typical Value
Repeatability	2 mm typical	Mounting	3/4" NPT standard
Delay	0.5 seconds (standard)	Sensor Material	316L SS (standard)
Input Power	115 V or 230 V 50/60 Hz AC (standard); 12 or 24 VDC (optional)	Weight	1 lbs (0.45 Kg) approximate
Output	10 A DPDT relay	Operating Pressure	Up to 1000 PSIG – 316 SS (6895 Kpa)
Housing	NEMA 4/NEMA 7 watertight, explosion proof enclosure. Cast Aluminum Class 1, Group C&D, Class II, Group E, F, & G; and Class III, Division 1 & 2	Temperature	Sensor: -40 to 300 °F (-40 to 149 °C) Electronics: -20 to 170 °F (-29 to 77 °C)

## MECHANICAL DIMENSIONS in inches [mm]

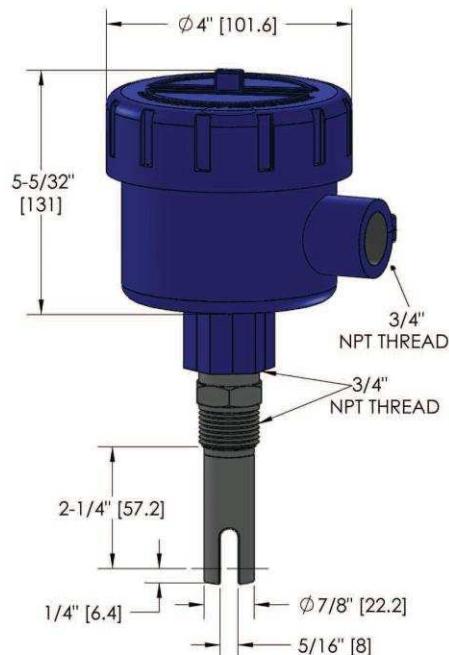


Figure 1: LL-100 series elements

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## APPLICATION SCHEMATICS

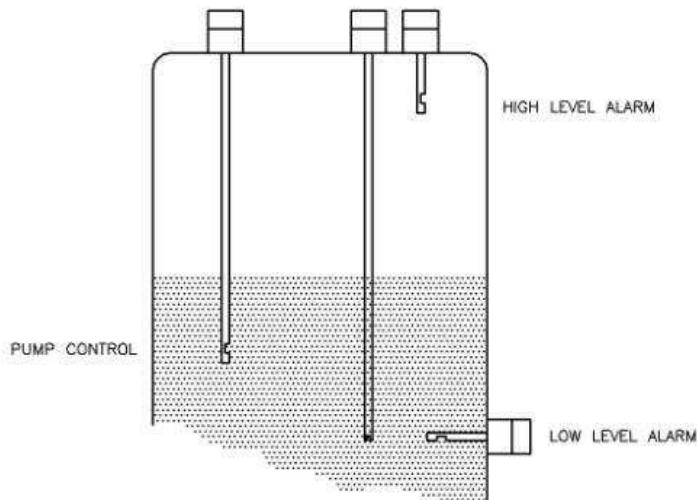


Figure 2: Schematic drawing depicting the LL-100 series elements used in high and low level alarm applications.

## ORDERING INFORMATION

03 -	A	C	X	X	
<b>Input</b> _____					<b>Custom Label</b>
A – 115 VAC					1 – No
B – 230 VAC					2 – Yes
C – 24 VDC					3 – Yes with tag
D – 12 VDC					
<b>Output</b> _____					<b>Sensor Mount</b>
D – 4-20 mA ( <i>only available on models with VDC input</i> )					C – $\frac{3}{4}$ " NPT
J – DPDT 10 A					
<b>Electronic Mount</b> _____					<b>Activation Point</b>
1 – Integral					Valid range 2.25-93.50
2 – Remote					Enter as follows:
<b>Cable Length</b> _____					2.25 enter as 0225
XX – No cable ( <i>for models with integral electronic mount</i> )					2.6 enter as 0260
10 – 10 feet					12 enter as 1200
20 – 20 feet					
30 – 30 feet					
40 – 40 feet					
					<b>Sensor Material</b>
					A – 316L SS

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## TECHNICAL CONTACT INFORMATION

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