

## Industrial Liquid Level Sensor

### Key Features

- Suitable for use with water, saline, fuels, oils and chemicals
- 316 Stainless Steel construction
- 0-10V Configurable analogue output with reserve level switch
- SAE 5-Bolt & 1.25" BSP thread mount housing
- High Accuracy  $\pm 2\%$
- $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$  operating temperature range
- Factory Calibrated
- No moving parts for high reliability

The GSlevel industrial specification Liquid Level Sensor is available up to 2m long and is designed specifically for industrial environments where monitoring of a variety of liquid types is required. The sensor uses solid state capacitive technology to sense the level of the liquid, with no moving parts, floats or other mechanical linkages to provide excellent long term reliability. Designed to operate at extreme operating temperatures, the industrial level sensor ensures high reliability in harsh industrial environments from  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ .

Built from 316 stainless steel, the level sensor will provide corrosion resistance in harsh environments.

The sensor features both SAE 5-Bolt and 1.25" BSP thread mounting options. A flange gasket and O-ring seal are supplied with each unit.

Gill Sensors quality control ensures that every GSlevel sensor is factory calibrated with temperature compensation to provide market leading accuracy of liquid level measurement.



**RoHS**   
Compliant

### ELECTRICAL

Supply Voltage	5 to 32V
Supply Current	<10mA @ 12VDC
Reverse polarity	Indefinitely

### CONNECTION

Cable	20 AWG TYPE 44, DR25
Cable tail length	1000mm

### ANALOGUE OUTPUT

Factory Calibrated Output	0.25V - 4.75V over max measurement range
Maximum Output Range	0.25V - 10.0V over max measurement range
Range Accuracy	$\pm 2\%$ Full Scale Deflection ( $20^{\circ}\text{C}$ )
Switch Output	Open Collector Output 50V / 1A max Switch to ground (V-)

### MECHANICAL

Construction Materials	Stainless Steel 316, FEP, PEI
Probe Length (Dim X)	100mm to 2000mm (in standard increments)
Mounting	SAE 5-bolt pattern & 1.25" BSP threaded
Weight	From 300g (dependent on length)

### ENVIRONMENTAL







Ingress Protection	IP66, IP68
Thermal Shock	EN60945
Operating temperature	$-40^{\circ}\text{C}$ to $+125^{\circ}\text{C}$
Humidity	93% RH at $40^{\circ}\text{C}$ EN60945
Corrosion resistance	Stainless steel 316 construction
Vibration	EN60945
Pressure	10 Bar (differential & absolute)
Seal Material	Nitrile (O-ring & Gasket)
EMC	MIL - STD 704 E

### COMPATIBLE MEDIUM

Fuel	Gasoline, Unleaded, LRP, Diesel
Water	Fresh water, Saltwater, Ethylene Glycol, Please consult Gill for other liquid compatibilities.

Sensor requires probe support for lengths beyond 650mm.  
Specifications subject to change without notice.

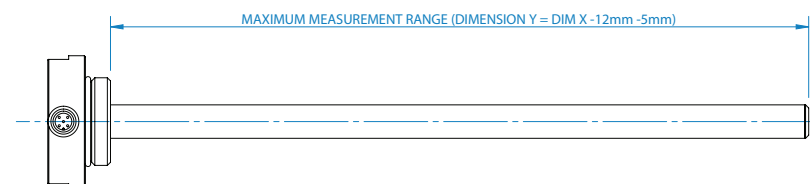
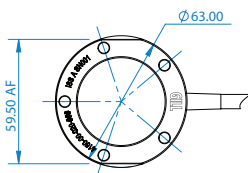
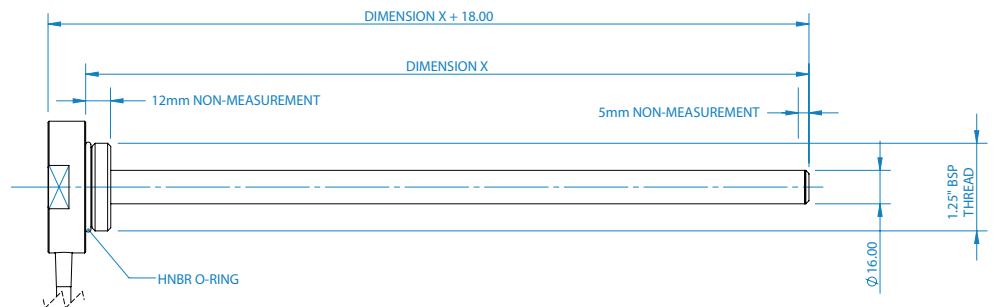
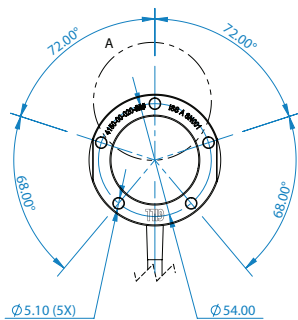
## WIRING

	Red	V+ (Power)
	Black	V- (GND)
	Orange	Analogue signal 0.25V to 4.75V
	Green	Serial Rx
	White	Serial Tx
	Yellow	Switch (Open Collector Output)
Screen		

## PART NUMBERS

<b>4174-00-010-X</b>	
<b>Length X (mm)</b>	<b>Standard increments</b>
100 - 300	25mm
350 - 1000	50mm
1100 - 2000	100mm

Dimension X is customer specified in standard lengths as above



Sensor supplied with O-ring & gasket

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# GILL

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