## **TECHNICAL DATA**

# T/LL312 Liquid Level Sensor Large Temperature Range





The **T/LL312** series of advanced sensors is designed to continuously monitor the contents of a tank in extreme temperature applications such as defence and off-highway vehicles. Capable of operating at temperatures between -40°C and +125°C, the sensor auto compensates when a liquid with a different dielectric constant is used. For example, if it is used in a tank of conventional diesel, the user can refill with bio-diesel and the sensor will correct the output level automatically.

Options include compensation for non-linear shaped tanks.

## SPECIFICATION

### **Liquid Types**

Diesel, biodiesel, kerosene, petrol, water or any liquid which is compatible with the materials of construction.

### Construction

Dimensions Probe length:

Housing: Sensor tube: Wetted materials:

PTFE, FVMQ, Nylon (PA66), fluorosilicone, aluminium & stainless steel.

9-36 VDC

protection.

20 µA.

Pin

A

В

С

0-20 mA, 4-20 mA.

Connector Pin Out

GND

Signal

Connection

V+ (Supply)

Anodised aluminium

Min 150 mm. Max 1200 mm static applications, supported in mobile applications for probe

Anodised die cast aluminium.

lengths greater than 500 mm.

80V over voltage & reverse polarity

Military connector; D38999/20WA98PN.

250 Ω (Including interconnecting cable resistance).

±2.0% of probe length @ 20 °C in diesel.

. 15 mA@12 VDC + output load.

### Electrical

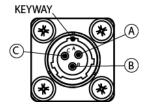
Supply voltage: Supply protection:

Supply current: Connections:

#### Outputs Current:

Resolution: Max load:

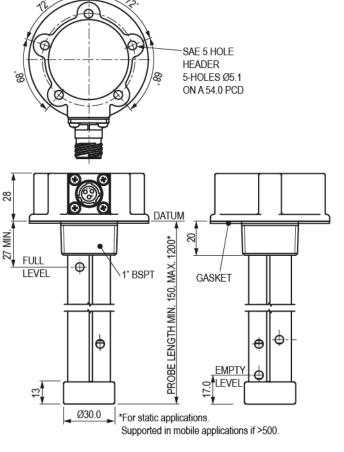
Accuracy:



## **Environmental Ratings**

Designed to meet: Operating Temperature: Sealing: Weight: Max tank pressure: EMC: Vibration: Shock:

-40 °C to +125 °C. IP67. 300 g (1000 mm long unit). 1.7 bar (25 psi). Type approval in accordance with EN ISO 13766:2006. 500 mm sensor type tested to 1.88 grms to BS EN 60068-2-64:1993\*. 500 ms<sup>-2</sup>, 11 ms to BS EN 60068-2-27:1993.



 \* Vibration Testing

 Frequency
 G2/Hz

 10
 0.005

 150
 0.020

 220
 0.010

 350
 0.002

#### **Options**

Custom empty/full points: Non-linear Tanks: Specific full levels can be provided within the allowable measurement range of the probe. Compensation for non-linear tank shapes available.

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