# **TECHNICAL DATA**

**TLL150 Liquid Level Sensor** Cut-to-Length and Calibrate



37

MAX **FULL LEVEL** 

Ø12

MIN. EMPTY

LEVEL

INPLIT

Customer's equipment

Ignition switch

**GAUGE** 

PLANE

PROBE LENGTH



The T/LL150 liquid level sensor is designed for use in diesel fuel tanks and is available with a variable resistive or voltage output suitable for driving industry standard fuel gauges or connecting into PLCs.

This capacitance type level sensor is supplied in standard lengths and is designed to be cut-to-length and calibrated by the customer making it ideal for custom and urgent projects.

Ø60

HEX

Pin Connection

Output

В

+12 V or +24 V

Level Alarm

0 V / Ground

## **SPECIFICATION**

**Dimensions** 

**Probe Lengths:** 500mm, 1,000mm for cutting to length by customer.

1/2" BSPT, 1" BSPT, 1/2" NPT Threads:

**Optional Flange:** SAE 5 Hole: Fozmula F/T1 for 1/2" BSPT Fozmula F/T8 for 1/2" NPT

**Performance** 

Accuracy: ±2% of depth @ 20 °C

**Materials** 

36 A/F **Enclosure:** 30% glass filled nylon **Internal Spacers:** Polypropylene Internal Electrode: Aluminium alloy 6063 End plug: PVC / G/F nylon Wetted Seals: 316 stainless steel Viton, NBR Sensor Tube:

**Environmental Ratings** 

IP67 with mating connector Sealing: Shock: 50 g, 6.3 ms **Max Pressure:** Vibration: 7.6 Grms 1 bar

BS EN 60068-2-64:1993

**Operating Temp:** -20 °C to +85 °C 300 g (1 m long sensor) Weight:

**Electrical** 

**Supply Voltage:** 9-34 VDC **Supply Current:** 30 mA

**Supply Protection:** Over-voltage 80 VDC for 2 minutes.

Reverse polarity.

**Signal Output:** Resistance range; 0-250  $\Omega$  or 250-0  $\Omega$ , 2  $\Omega$  steps, 0.4 W max.

Voltage source range; 0-5 V or 5-0 V, 20 mV steps, 10 mA max.

**Alarm Output:** Switch to ground, close on fall at 12.5% of active length. Max 100 mA.

**Connections:** 4 Way Delphi Packard Metri-Pack 150 Series. **Mating Connector:** Fozmula C/K1 (Delphi Packard Metri-Pack 150) To fit 0.8-1.0 mm<sup>2</sup> conductor, Ø1.6-2.15 mm sleeve.

**Calibration Instructions** 

Units will be supplied calibrated for diesel.

#### **Full Point:**

- Install sensor in the tank and power on. 1.
- Fill tank to required full level. 2.
- Depress "CAL" button. Hold for 5 seconds to set full point. Release button. Check output for full point.

#### **Empty Point (if required):**

- Fill tank to required level or, for Min. Empty Level, remove from tank and shake to remove excess liquid.
- 2. Disconnect power.
- Depress "CAL" button then reconnect power whilst depressing calibration button. Continue to depress for a further 5 seconds to set empty point. Release button. Check output for empty point.

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### Standard part numbers and options



VLCADL ÉLECTRONIQUE commercial@alcyonelectronique.fr

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Co

Hermes Close | Tachbrook Park | Warwick | CV34 6UF | United Kingdom Tel: +44 (0)1926 466700 | Fax: +44 (0)1926 450473 | sales@fozmula.com

www.fozmula.com