TECHNICAL DATA

TLL150 Liquid Level Sensor Cut-to-Length and Calibrate





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_ 36 A/F

SPECIFICATION

Dimensions

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

Threads: ½" BSPT, 1" BSPT, ½" NPT

Optional Flange: SAE 5 Hole: Fozmula F/T1 for ½" BSPT

Fozmula F/T8 for 1/2" NPT

Performance

Accuracy: ±2% of depth @ 20 °C

Materials

Enclosure:30% glass filled nylonInternal Spacers:PolypropyleneInternal Electrode:Aluminium alloy 6063End plug:PVC / G/F nylonSensor Tube:316 stainless steelWetted Seals:Viton, NBR

Environmental Ratings

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

BS EN 60068-2-64:1993

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

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 Ω or 250-0 Ω , 2 Ω steps, 0.4 W max.

Voltage source range; 0-5 V or 5-0 V, 20 mV steps, 10 mA max. Switch to ground, close on fall at 12.5% of active length. Max 100 mA.

Alarm Output: Switch to ground, close on fall at 12.5% of active I 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 mm² conductor, Ø1.6-2.15 mm sleeve.

Calibration Instructions

Units will be supplied calibrated for diesel.

Full Point:

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

Empty Point (if required):

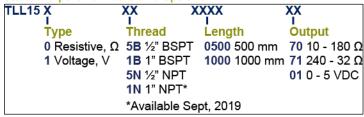
1. Fill tank to required level or, for Min. Empty Level, remove from tank and shake to remove excess liquid.

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.

B

Standard part numbers and options



Available from:

Pin Connection

Output

В

+12 V or +24 V

Level Alarm

0 V / Ground



GAUGE

PLANE

PROBE LENGTH

FULL LEVEL

Ø12

MIN. EMPTY

LEVEL

INPLIT

Customer's equipment

Ignition switch

GTS Gauges Transmitters and Switches

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