

T/LL140 Series Fuel Level Sensor



The **T/LL140 series** is a range of SAE 5 Hole mounted sensors for continuously measuring the contents of a fuel tank providing a factory set variable resistive or voltage output. The T/LL140 can be cut to length* and be recalibrated by the end user.

A low level alarm switches when the fuel drops below a predetermined level.

*Contact Rochester Sensors for shortening kit availability.





SPECIFICATION

Liquid Types

Liquids compatible with construction materials, typically diesel, biodiesel, kerosene, petrol. Not suitable for fuels with a high dielectric constant.

Dimensions

Probe length: Min. 200 mm, max. 1100 mm.

Ensure probe end is above any contaminants.

Mounting: SAE 5 Hole.

Electrical

Supply voltage: 10-32 VDC.

Supply current: 28 mA@12 VDC + output load.

Supply protection: Over-voltage 80 VDC for 2 minutes. Reverse polarity.

Signal output: Resistance range: $0-250 \Omega$ or $250-0 \Omega$.

Voltage Range: 0-5 VDC or 5-0 VDC, 20 mV steps, Max 10 mA source.

Alarm: Switch to ground. Max 100 mA.

Default setting 12.5% of full level. Minimum 30 mm from sensor end. Maximum 20 mm from full level.

Connections: 500 mm long, 24 AWG flying leads. Optionally fitted with any suitable

connector.

Performance

Accuracy: $\pm 3.0\%$ of depth @ 20 °C (+68 °F).

Materials

Enclosure: 30% glass filled nylon.
Enclosure bush: Polypropylene.
Internal electrode: Aluminium.

Sensor tube: 316 stainless steel. **Internal spacers:** Polypropylene.

End plug: PTFE.

Wetted seals: Viton (FKM) & nitrile.

Gasket: Nitrile.

Cable: Polyurethane.

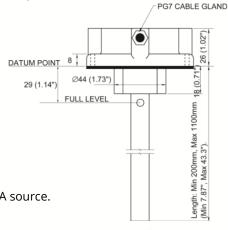
Environmental Ratings

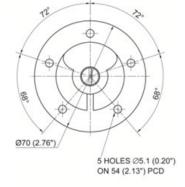
Sealing: IP67 (Assuming suitably sealed cable breakout).

Operating temp: $-20 \,^{\circ}\text{C}$ to $+85 \,^{\circ}\text{C}$. **Shock:** 50 g, 6.3 ms.

Vibration: 9.7 Grms BS EN 60068-2-64:1993.

Weight: 300 g (1 m long sensor).





Model	Output
T/LL140	Resistive
T/LL141	Voltage

Wire Colours

Red: V+ (Supply)
Green: V- (Ground)
Yellow: Alarm

Blue:Signal out (V)Black:Signal out (Ω)White:Calibration

8.6/34 Rev 3

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