Rochester Sensors
AN AMPHENOL COMPANY
Engineering Innovative Solutions™

12-FEB-26/REV 4

T/LL13X Liquid Level Sensor

The T/LL 130 series is designed for use in water, coolant or fuel/oil tanks and provides a factory set variable resistive or voltage output suitable for driving industry standard fuel gauges or connecting into PLCs.

This device has no moving parts and can be mounted at any angle above horizontal as long as it covers the whole depth of the tank. The unit cannot be inverted.

SPECIFICATION

Liquid Types: Liquids are compatible with the construction materials: typically, diesel, kerosene, petrol, and water.

Dimensions:

Probe Length:	Min 200mm, Max 1000mm mobile / 2000mm
Threads:	static ½" BSPT, 1" BSPT, ½" NPT, 1" NPT
Optional Flange:	Rochester Sensors F/T1 SAE 5 Hole

Performance:

Accuracy	±2% of depth @ 20 ºC

Materials

Enclosure:	30% glass filled nylon
Internal Electrode:	PTFE
Sensor Tube:	316 stainless steel

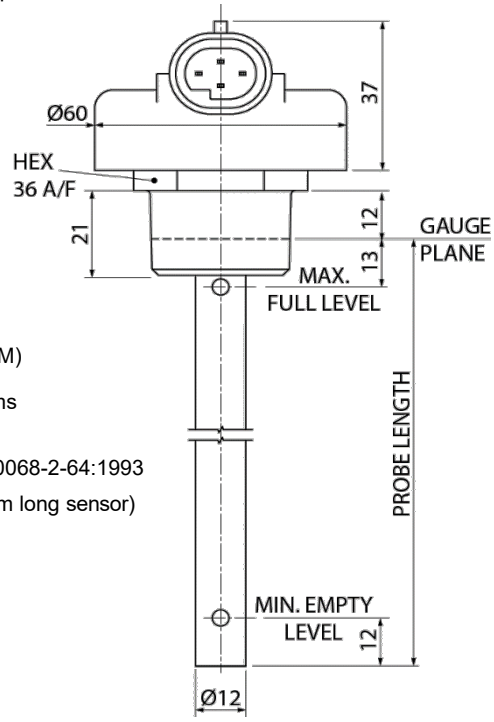
Environmental Ratings:

Sealing:	IP67 with mating connector
Max Pressure:	1 bar
Operating Temp:	-20 ºC to +85 ºC

Electrical

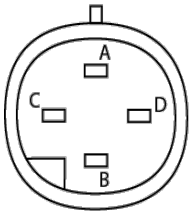
Supply Voltage: Supply	9-34 VDC
Current: Supply	30 mA
Protection: Signal	Over-voltage 80 VDC for 2 minutes. Reverse polarity.
Output:	Resistance range; 2-250 Ω or 250-2 Ω, 2 Ω steps, 0.4 W max. Voltage source range; 0-5 V or 5-0 V, 20 mV steps, 10 mA max.
Alarm Output:	Switch to ground. Max 100 mA. High or low level. Default setting is 12.5% of full level. Minimum 30 mm from sensor end.
Connections:	4 Way Delphi Packard Metri-Pack 150 Series Rochester Sensors C/K1 (Delphi Packard Metri-Pack 150).
Mating Connector:	To fit 0.8-1.0 mm2 conductor, Ø1.6-2.15 mm sleeve.

Internal Spacers	PTFE
End Plug:	PTFE
Wetted Seals:	Viton (FKM)
Shock:	50g. 6.3ms
Vibration:	6.3Gms BS EN 60068-2-64:1993
Weight:	300 g (1 m long sensor)

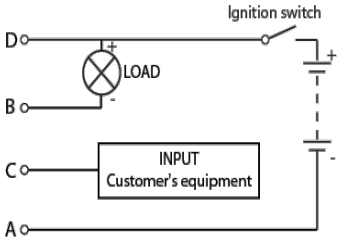


Model	Output	User Calibration
T/LL130	Resistive	No
T/LL131	Voltage	No

N.B. Warranty is void if the label is removed



Pin	Connection
D	+12 V or +24 V
B	Level Alarm
C	Output
A	0 V / Ground



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