

T/LL415 Oil Level Sensor with integrated temperature sensor and CAN J1939 Output



The **T/LL415 Liquid Level Sensor** is an advanced capacitive level sensor that continuously monitors liquid level and temperature and broadcasts this via a CAN J1939 output protocol.

Compact and robust this sensor is ideal for extended temperature range applications such as monitoring engine, transmission and hydraulic oils in relatively shallow sumps or tanks.

SPECIFICATION

Liquid Types

Liquids compatible with the construction materials, typically engine, transmission and hydraulic oils.

Dimensions

Length: Min. 80 mm, Max. 400mm.
Thread: ½" BSPT, ½" BSPP, ¾" UNF, ½" NPTF, M16, M18, M20. Others on request.
Mounting: Vertical top mounting only.

Materials

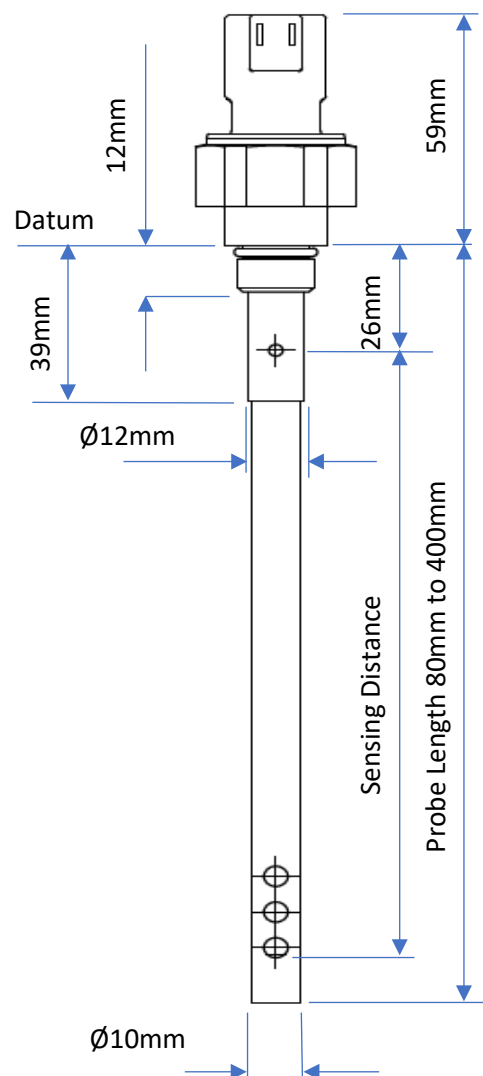
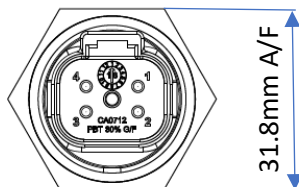
Header: 316 stainless steel.
Stem: 316 stainless steel.
Internal Electrode: PTFE sheathed stainless steel.
End Plug: PTFE.
Wetted Seals: Fluorosilicone (FVMQ).
Connector Enclosure: Deutsch DT04-4P
Material: PBT 30% GF
Leads: XLPE wires sheathed in nylon 6 conduit (where fitted).
Back-shell and connector dependant on series.

Electrical

Supply Voltage: 9 to 36 VDC.
Supply Current: <30 mA
Supply Protection: 80 VDC over voltage. Reverse polarity 36VDC
Output Type: J1939 CAN.
Output 1: Oil level from 0% to 100% full. Accuracy ±5%
Output 2: Temperature from -40°C to 140°C
Output 2 Accuracy: ±3%
Sensor start up delay: 500ms
Temp reporting: 1 second.

Connections

Pinout Table	
1	GND
2	V+
3	CAN L
4	CAN H



For J1939 CAN details please consult Rochester Engineering

Environmental Ratings

Operating temperature: -40°C to 125°C
Storage temperature: -40°C to 140°C
Ingress: Liquid side IP68. Connector side IP67.
Operating Temp: -40°C to 125°C.
Max Tank Pressure: 1 bar.
EMC: Type approval in accordance with EN ISO 13766:2006.
Vibration: 15.3 grms BS EN 60068-2-4:1995.
Shock: 500 ms⁻², 6 ms, BS EN 60068-2-27:1993.
Weight: 0.16 kg (for 300 mm version).

Sensor dimension for reference only, please consult Rochester Engineering for other options.



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