

T/LL405 Extended Temperature Range Liquid Level Sensor



The **T/LL405 Liquid Level Sensor** is an advanced capacitance sensor that continuously monitors liquid level providing a configurable voltage output in the range 0.5-4.5VDC.

Compact and robust this sensor is designed to provide accurate and repeatable liquid level data. It is ideal for extended temperature range applications such as monitoring engine oil or coolant in relatively shallow sumps or tanks.

SPECIFICATION

Liquid Types

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

Dimensions

Length: Min. 80 mm, Max. 400mm.
Thread: ½" BSPT, ½" BSPP, ¾" UNF, ½" - 14" NPTF, M16, M18, M20.

Sensor Materials

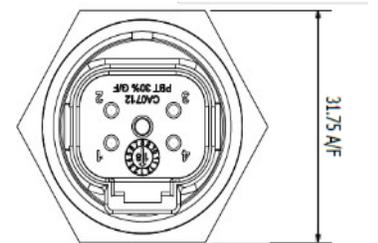
Header: 316 stainless steel.
Connector: Deutsch DT04 - 4P, PBT 30% Glass Fibre.
(Flying leads available upon request)
Connector Pins: Brass with Nickel & Gold Plating.
Tube: 316 Stainless Steel.
Inner Rod: 304 Stainless Steel.
Inner Rod Sheath, End plug: PTFE
Wetside O Ring: FVMQ
Dryside O Ring: FVMQ

Electrical

Supply Voltage: 4.9 to 5.1 VDC.
Supply Current: 10 mA.
Supply Protection: 16V over voltage. Reverse polarity.
Output Voltage: 0.5 to 4.5 VDC.
Alarm Output: Switch to ground. Max 100 mA. Default low level alarm at 12% of active length. Minimum 23 mm distance from end of probe. Minimum 35 mm from datum.

Environmental Ratings

Ingress: Liquid side - IP68, Connector side - IP67.
Operating Temp: -40°C to 125°C.
Max Tank Pressure: 1 bar.
EMC: EN 60945 : 2002.
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).



CONNECTOR PIN OUT	
PIN	TYPE
1	-VE SUPPLY
2	+VE SUPPLY
3	SIGNAL
4	ALARM

