TECHNICAL DATA

T/LL400 Extended Temperature Range Liquid Level Sensor

FOZMULA
INNOVATION IN SENSORS

The **T/LL400 Liquid Level Sensor** is an advanced capacitance sensor that continuously monitors liquid level providing a configurable voltage output in the range 0-10 VDC.

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.

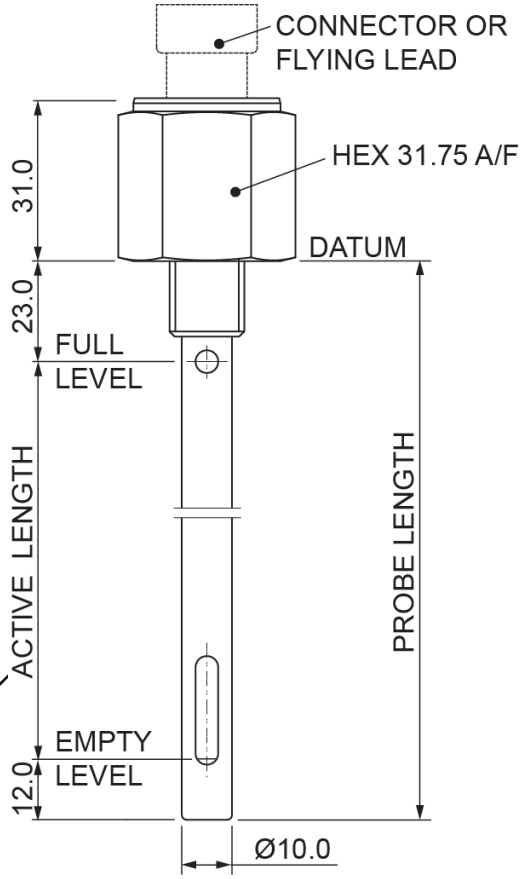
SPECIFICATION

Liquid Types

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

Dimensions

Length: Min. 80 mm, Max. 300 mm.
Thread: ½" BSPT, ½" BSPP, ½" NPTF, $^3/_8$" NPTF, M14 x 1.5, M18 x 1.5, M22 x 1.5, M26 x 1.5.



Materials

Header: 316 stainless steel.
Stem: 316 stainless steel.
Internal electrode: PTFE sheathed stainless steel.
End plug: PTFE.
Wetted seals: Fluorosilicone (FVMQ).
Connector enclosure: 30% glass filled nylon 66 (where fitted).
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: 10 mA @ 12 VDC + output load.
Supply Protection: 80 VDC over voltage. Reverse polarity.
Signal Output: Voltage source. 2 kΩ min load. 10 mV resolution.
Range 0 to10 VDC @ 24 VDC.
Range 0 to 5 VDC @ 12 VDC.
Output Protection: Short circuit to supply. Short circuit to ground.
Connections:

	4P Metri-pack 150	Deutsch DT04-4P	Flying lead	Description
V+	C	2	Red	+ve supply 9-36 VDC
Ground	B	1	Black	-ve supply, 0V
Output	A	3	Green	In range 0-10 VDC
Alarm	D	4	White	Switch to ground. Max 100 mA.

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: -40ºC to 125ºC.
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).

Hermes Close | Tachbrook Park | Warwick | CV34 6UF | United Kingdom
Tel: +44 (0)1926 466700 | Fax: +44 (0)1926 450473 | sales@fozmula.com
www.fozmula.com