

Liquid Level Solutions

LLS400 Series Liquid Level Sensor

The LLS-400 Oil Level Sensor is a small profile advanced capacitance sensor that continuously monitors oil level providing a configurable voltage output in the range 0-10 VDC. With only a 10mm diameter it is compact, robust and specifically designed to provide accurate and repeatable level data for oil in relatively shallow, extended temperature range applications such as engine oil sumps or tanks.

Specifications

Liquid Types Engine and hydraulic oils

Dimensions
 Probe length Min 80mm, Max 300mm
 Thread ½" BSPT, ½" BSPP, ¼" NPTF, ½" NPTF
 3/8" NPTF, M14 x 1.5, M18 x 1.5

Mechanical
 Header 316 stainless steel
 Stem 316 stainless steel
 Internal Electrode PTFE coated stainless steel
 End plug PTFE
 Wetted Seals Fluorosilicone, Viton (FKM)

Electrical
 Supply voltage 9-36V DC. 80V over voltage protection.
 Supply current 50mA @ 12VDC + output load
 Connections 430mm long 18AWG flying leads
 Signal output Voltage source 0-5VDC or 0-10VDC, 10mA max source
 Connections 4 way Deutsch DTM 100 series or flying lead; 4-off 200mm long harness comprising 18 AWG leads in conduit with backshells and customer's choice of suitable connector.

Red	Supply V+
Black	Ground (0V)
Green	Signal
White	Switch to ground

Alarm output Switch to ground. Max 100mA.
 High or low level between 7% and 90% of gauge length.
 Default setting: low level alarm at 12% of gauge length.
 Minimum 11mm distance from bottom.

Environmental
 Temperature -40°C to +125°C (-4°F to +185°F)
 Corrosion 168 hour salt mist test IEC 68-2-11
 Sealing IP68 (probe), IP67 (connector):
 Max tank pressure 1 bar
 EMC In accordance with EN ISO 13766:2006
 Vibration 15.3 GRMS BS EN 60068-2-27:1993
 Shock 500ms², 6ms to BS EN 60068-2-27:1993

