Liquid Level Sensor

- **Robust**
- **Compact**
- **Reliable**
- **Built to IP 6K9K**
- **Operating environment -40 ~ 110°C**
- **Deutsch 3 way connector**
- **Supply 12V 10mA**
- **Output Sink 40mA max up to 30V**
- **Horizontal or Vertical installation**

Description

The OLS from Teddington is an electronically controlled optical switch. Designed for use in hostile environments, the electronic level sensing device is suitable for high, low or intermediate sensing, with an accuracy of plus or minus 1mm. Solid state-switching ensures dependability and long service life.

The OLS is available in ½"BSP,3/4BSP, 1/2"NPT and 3/4"NPT thread sizes.

The OLS is not recommended for use with any liquid that crystallises or leaves a solid residue.

How Does It Work?

The OLS from Teddington has a minute LED along with a light sensitive receiver. The LED is aimed at a Polysolphone prism which forms the tip of the sensor. When liquid is present, the light from the prism is refracted out, causing zero light to be registered by the receiver. When the top of the sensor is uncovered, the light from the LED is reflected back onto the receiver again. When a change occurs, the switch is activated and an alarm cam be activated.
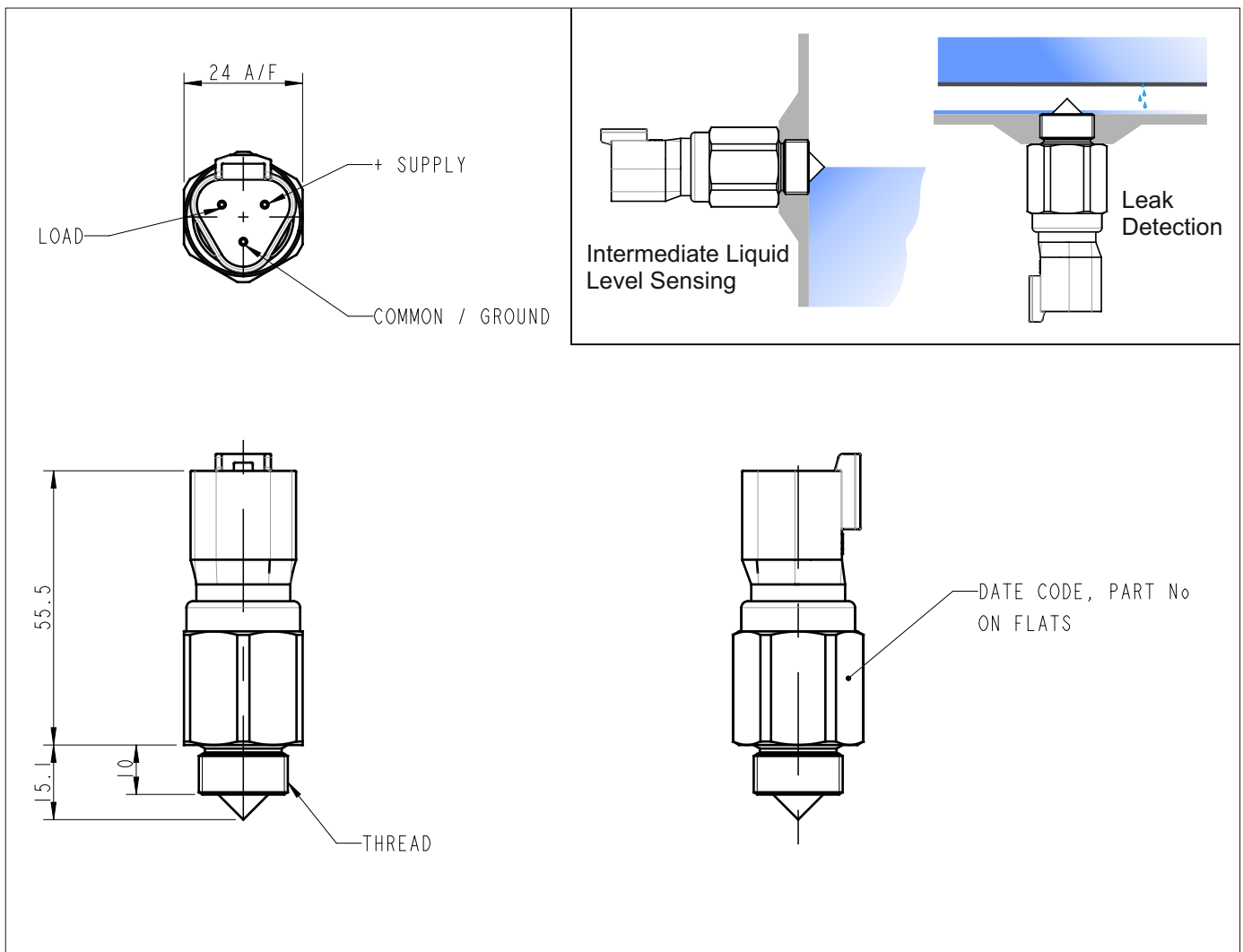
Applications

- **Engine and Gearbox monitoring.**
- **Tank level monitoring**
- **Medical Laboratory**
- **Beverage systems**
- **Leak Detection**
- **Hydraulic reservoirs**
- **Machine tool coolant levels**
- **Bilge and sump monitoring**

Technical Specification

Supply	12Vdc 10mA
Output	Sink 40mA Max upto 30V
Electrical Connection	Deutsch DT 3 way
Operating temperature range	-40~110°C
Ingress Protection	IP 6K9K
Thread Connections	½,3/4 BSP or NPT
Tightening Torque	16Nm Max

Physical Properties

Mass	62g
Connector Material	GFN
Body Material	Brass
Sensor Material	Polysulfone

Outline Details

24 A/F
+ SUPPLY
LOAD
COMMON / GROUND

Intermediate Liquid Level Sensing

Leak Detection

55.5

15.1

THREAD

DATE CODE, PART No ON FLATS

10/13

FM 1790

Smart Control Systems
for a Sustainable Future
part of the **Teddington Group**