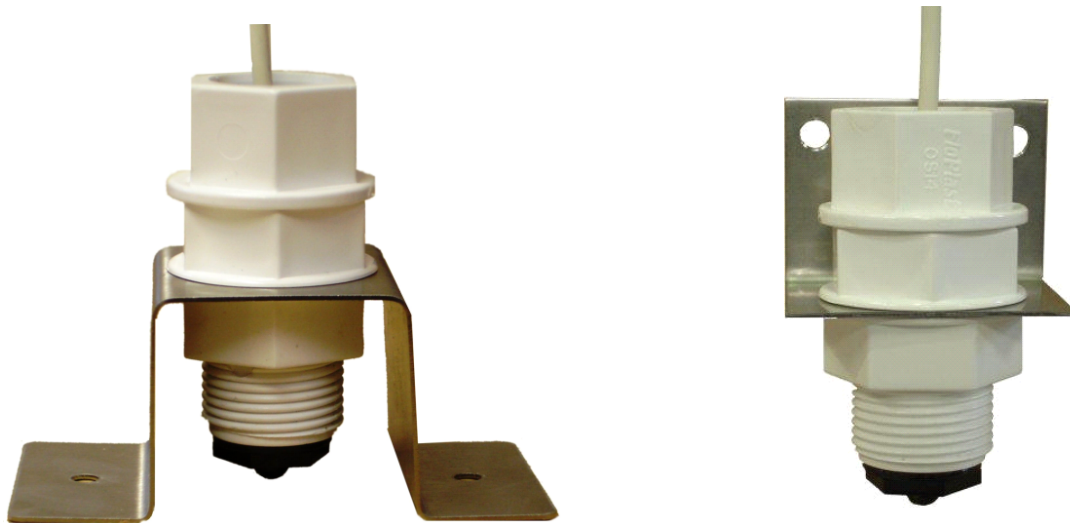

Liquid Leak Detection Sensor Type OSP

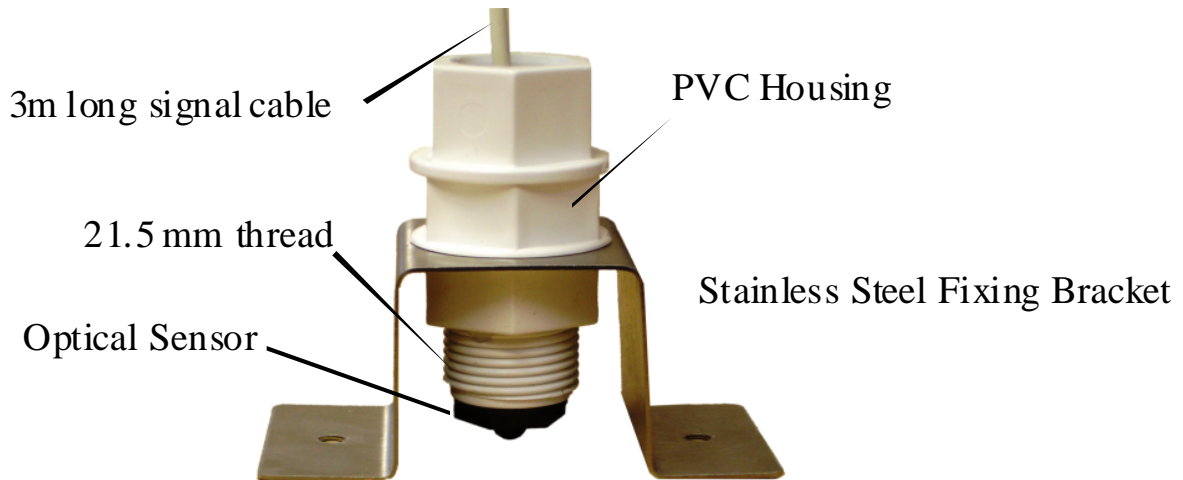


The sensor has been designed to detect the presents of any liquid including water, fuel oil etc. and energise an internal relay to provide a signal to existing alarm systems, Building Management Systems or SMS messaging systems.

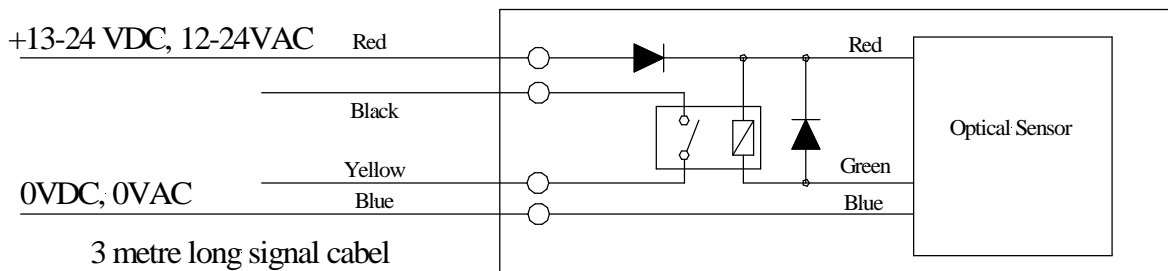
Stainless Steel brackets are available to allow the sensor to be Wall Mounted, Floor Mounted or without the bracket screwed directly into a fitting to allow monitoring of banded tanks or pipes.

The mode of operation is the principle of total internal reflection. An LED and photo-transistor are housed in a plastic (Polysulfone) dome. When no liquid is present, light from the LED is internally reflected from the dome to the photo-transistor. When a liquid covers the dome, the effective refractive index at the dome-oil boundary changes allowing some light from the LED to escape. Thus the amount of light received by the photo-transistor is reduced indicating the presents of a liquid.

Sensors can be connected together to give a common alarm within an area or connected individually to provided exact location of a leak.



Internal wiring



Specification

Housing type
 Size excluding bracket
 Colour
 Input power
 Power Consumption
 Connections to Sensor
 Relay contact

ABS Plastic
 75mm High x 38mm diameter
 White
 12 to 24 VAC or 13 to 24VDC
 0.84W @ 27.1VAC, 0.5W @ 24VDC
 3 metre long 4 core signal cable
 Normally Open , (close in alarm) 1 amp 30VDC volt free contact