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Single and Two Zone Fuel Oil Leak Alarm type ODS2



The ODS2 has been designed to monitor critical areas for fuel oil leaks via remote optical sensors. Up to two sensors can be connected to a zone.

The unit as standard includes an audible warning device, mute push button, flashing 8mm red alarm lamp and 8mm Control live green lamp.

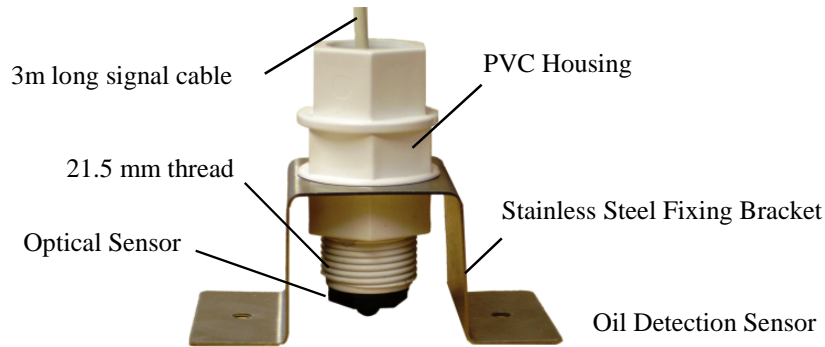
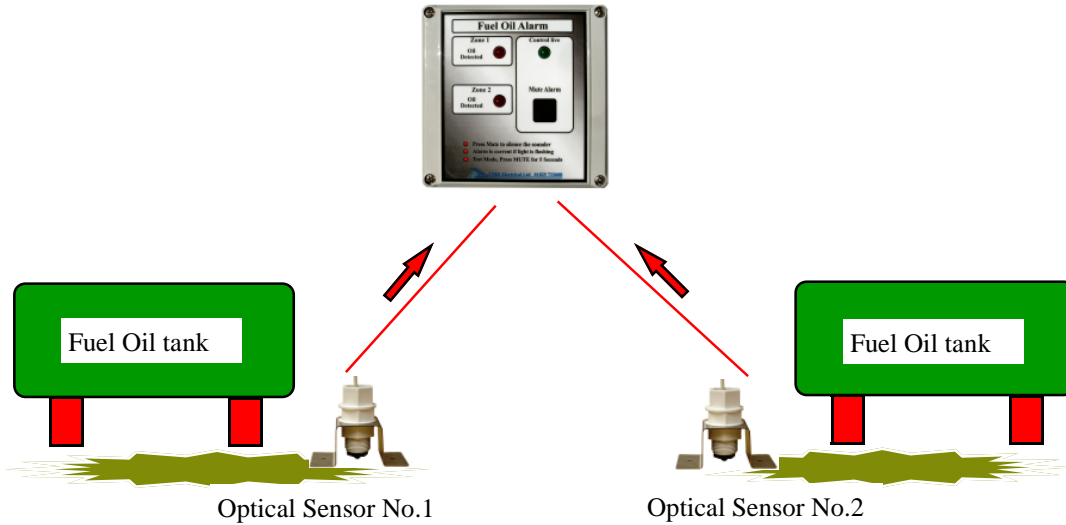
Once an oil alarm has been raised, the ODS2 red “Alarm” lamp will start to flash and the audible warning device will start. The unit will remain in this condition even if the oil is removed from the sensor. Only muting the alarm will stop the sounder and de-latch the alarm. If oil has been removed from the sensor before pressing the “Mute Alarm” button the alarm lamp will extinguish indicating that no oil is present. However if oil is still being detected only the audible warning will stop leaving the lamp permanently on. Only when the oil has been removed will the lamp extinguish.

All ODS units have a common alarm set of volt free contacts for onward signalling to Building Management Systems, telephone diallers or control systems.

Sensor

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 oil is present, light from the LED is internally reflected from the dome to the photo-transistor. When oil 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 oil

Single or two Zone alarm unit



Features

- Large indication LED lamps for ease of Alarm identification from a distance
- On board audible warning device to alert local operators of a problem
- Alarms latched until Mute operated to give indication of transient Alarms
- Individual zone alarm relays to onward signal to a BMS
- Optical sensor to detect the presents of oil
- Small size foot print, wall or surface mounted
- Lamps, relay and Horn test Facility to ensure that the unit is working correctly

Specification

Housing type	ABS Plastic
Mounting	Wall, flush or surface
Size	122mm wide x 120mm high x 58mm deep
Colour	Light grey
Input power	50 Hz single phase 230VAC +/- 10%
Burden	< 3VA
Power termination	Internal 3 way terminal block
Voltage to Sensor	5VDC
Connections to Sensor	3m long cable
Access	Top, bottom or back
Output contacts	1 x Volt Free 3 amp changeover
Sensor	Fully sealed optical sensor made from Polysulfone
Sensor housing	Stainless steel bracket and high quality PVC housing