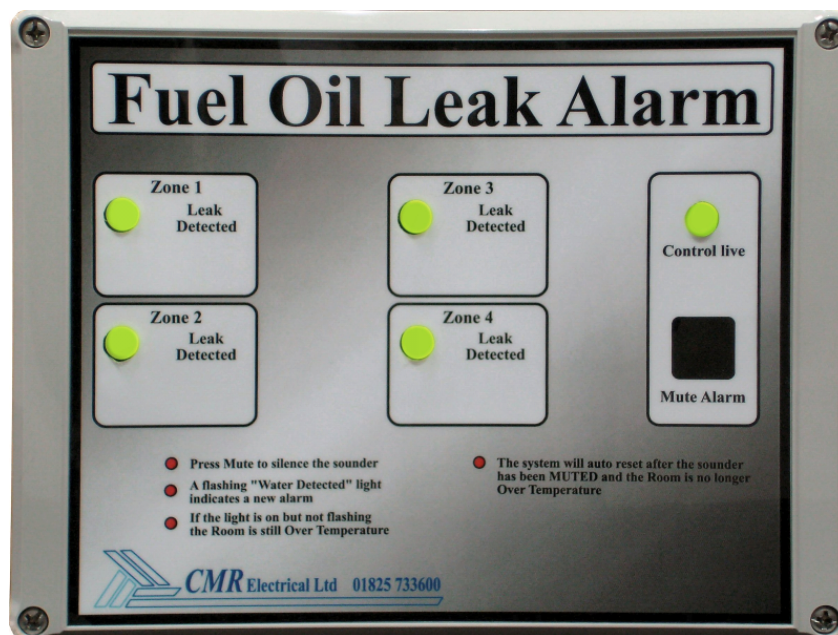




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Three & Four Zone Oil Leak Detection Alarm type ODS4



The ODS4 has been designed to monitor four independent zones for fuel oil leaks including but not limited too, Diesel, Heating and Hydraulic oils via optical sensors.

Features

- * On board audible warning device to alert local operators of a problem
- * Alarms latched until Mute operated to give indication of transient alarms
- * Small size foot print, wall or surface mounted
- * Common Alarm and Fault relays for onward signalling
- * Optional zone alarm relays to onward signal to a BMS
- * Large 8mm display lamps
- * Optional battery backup can be provided

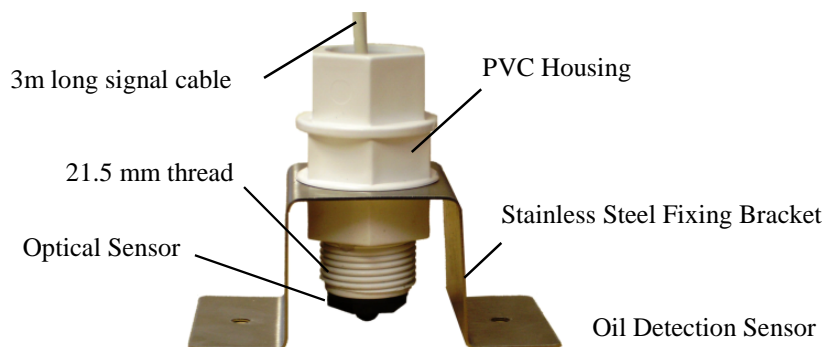
When oil is detected by one of the zones, the appropriate lamp will start to flash, the audible warning device will start and the common alarm or fault relay will close. The unit will remain in this condition even if the oil has been removed from the sensor. Muting the alarm will stop the sounder and the lamp flashing, if oil is still present and being detected by the unit the lamp will remain ON but not flashing, if the oil has been removed before muting the lamps will extinguish and the system will automatically reset. Automatic reset will occur after muting and the removal of the oil.

The ODS4 as standard has a common alarm and common fault relay which can be used for onward signal to a Building Management Systems, telephone dialler or control systems. The unit if required can also be fitted with individual Alarm relays that will advise a BMS system which zone is in alarm. Battery backup for up to six hours can be provided, however if requested, longer backup times can be provided.

The sensor is housed in a stainless steel brackets and are available in wall or floor mounted versions. The mode of operation is the principle of total internal reflection. An LED and phototransistor 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.

Because CMR Electrical design and build all their own equipment in house, we are able to modify the standard design to suite customers requirements, if you need a special application please call or send an email.

Optical Leak sensor



Optional Equipment

- ✳ **Individual zone alarm volt free contacts**
- ✳ **Battery Backup**
- ✳ **SMS text messaging for common alarm**
- ✳ **Beacon for remote indication of a leak**



Specification

| | |
|--|---|
| Housing type | Polycarbonate, colour light grey similar to RAL7035 |
| Mounting | Wall, flush or surface |
| Size Standard unit | 200mm wide x 150mm high x 78mm deep |
| Size with battery backup or SMS | 250mm wide x 160mm high x 92mm deep |
| Size with battery backup and SMS | 300mm wide x 160mm high x 120mm deep |
| Colour | Light grey |
| Input power | 50 Hz single phase 230VAC +10% - 6% |
| Burden | < 4VA |
| Power termination | Internal 3 way terminal block |
| Voltage to sensor | 5VDC |
| Connections to sensor | Internal terminal block |
| Access into Housing | Top, bottom or back |
| Common Alarm output contacts | Changeover contact rated at 3 amp 230VAC |
| Power Fault output contacts | Changeover contact rated at 3 amp 230VAC |