

1 and 2 Zone Oil Leak Alarm Type: ODS2-3



Product Overview

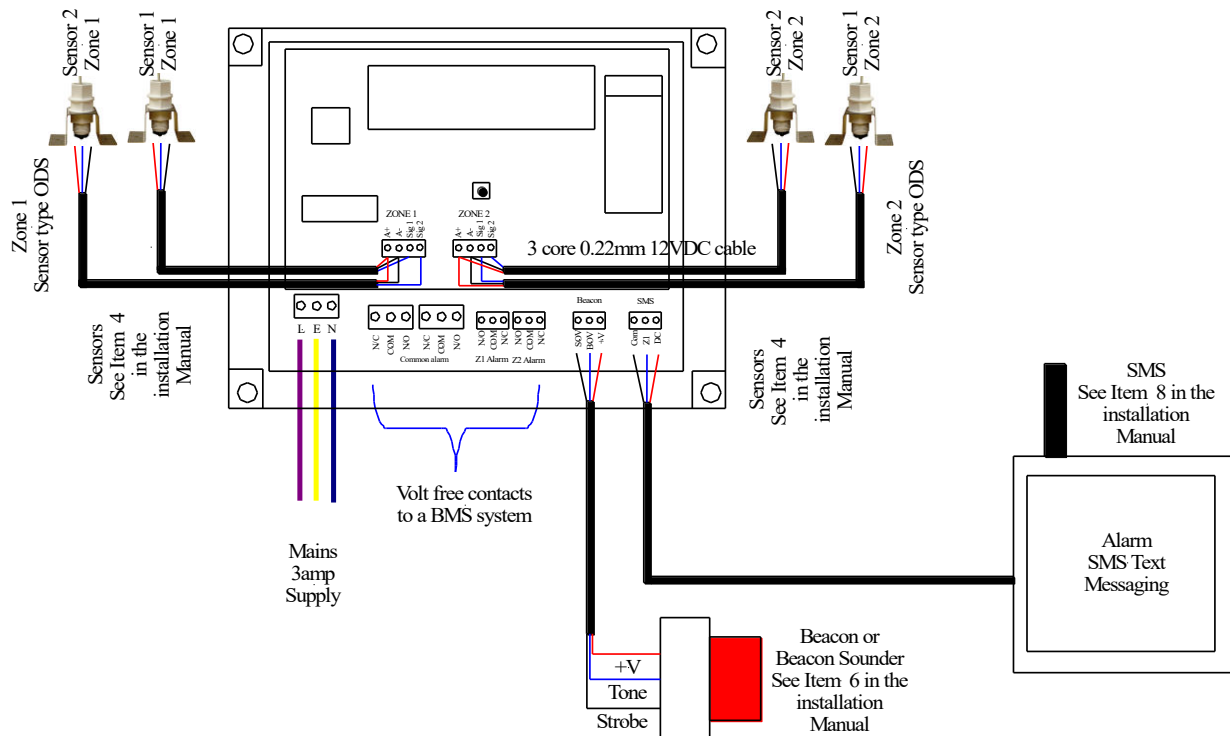
The ODS2-3 Oil Leak Detection Alarm is designed for monitoring oil leaks from **pipes, tanks, generators**, and other equipment located within **buildings, containers, or covered areas**. The system provides real-time alerts when oil is detected by any connected sensor, helping prevent costly damage or environmental hazards.

When a sensor detects oil:

- The **display flashes** which zone is in alarm.
- An **internal audible alarm** sounds.
- The **common alarm relay (volt-free / dry) contacts** change state alerting your BMS/Alarm PLC.
- If connected, a **remote beacon or sounder** activates.
- If fitted, the **SMS or email alert system** sends an alarm notification via the mobile network.

In the event of a power failure, the unit's **Common Alarm BMS contact** also changes state to indicate the issue.

Choose the sensor that best fits your application: the ODS-OSP optical sensor or Oil Leak Detection Cable for indoor use, and the OSPW sensor for outdoor environments.



Key Features

- Available in **1 or 2 zone** configurations
- **Up to 2 sensors per zone**
- Sensors can be installed **up to 100 metres** from the alarm unit
- **Large, backlit alphanumeric display** for clear status indication
- **Plug-and-socket terminals** (excluding mains power) for quick installation
- **Integrated 80dB sounder** for local alert
- **Latched alarm** state ensures leaks are not missed until acknowledged
- **Two common alarm relay outputs** for BMS or third-party system integration
- **Mains power monitoring** through alarm contact

Optional Add-ons

- **Individual zone relay outputs** for detailed BMS integration
- **Flashing beacon** for visual alerting
- **Flashing beacon with mute-able sounder**
- **SMS and email alert system** for remote notifications
- Choose from:
 - **Internal optical sensors (ODS-OSP)**
 - **External optical sensors (OSPW)**
 - **Oil leak detection cable**

Sensor Options

Internal Optical Sensor – ODS-OSP

- No moving parts or conductivity-based detection
- Uses **infrared LED and phototransistor** inside a **Polysulfone** dome
- Detects oil presence using the principle of **total internal reflection**
- Works with **any liquid**, regardless of colour, viscosity, or reflectivity
- **Temperature range:** -25°C to +80°C
- **IP65-rated** for protection in indoor environments

External Optical Sensor – OSPW

- Similar operation to ODS-OSP, but designed for **outdoor use**
- Includes **four stainless steel rods** to detect the presence of conductive liquids (e.g., water)
- Prevents false alarms by delaying activation until water is **evaporated or cleared**
- **IP65-rated** for outdoor environments

Oil Leak Detection Cable

- Detects oil leaks by monitoring changes in the cable's **electrical resistance**
- When oil contacts the cable, it is **absorbed**, altering resistance and triggering an alarm
- Absorption time varies depending on the liquid type (lighter oils absorb faster)
- Available in **5m or 10m lengths**; multiple cables can be connected together to form a total sensing length of up to 50 metres
- **Single-use only** – must be replaced after leak detection
- **Does not come with Cable Fault Alarm**

Specification

Housing type		ABS Plastic
Colour		Light Grey
Size		180mm wide x 130mm high x 60mm deep
Mounting		Wall
Cable access		Bottom/back
Maximum sensors per zone		2
Maximum distance to sensor		100 metres
Sensor cabling		0.22mm 3 core for ODS (inside) sensor, 4 core for OSPW (outside) sensor
Sound Output		80db at 1 metre
Burden		<3VA
Input Voltage		96- 265VAC 50/60 Hz
Alarm unit temperature range		-20 to + 70°C
Common alarm contact		DPCO 1A @ 230VAC volt free contacts
Alarm unit IP Rating		IP50
Sensor IP rating		IP65
Optional Beacon		IP67 high intensity Red Flashing LED
Optional Sounder		IP67 110db at 1 metre
Optional SMS text		Up to 50 numbers or email addresses using mobile network

Continual development may result in products and specifications being changed without prior notice