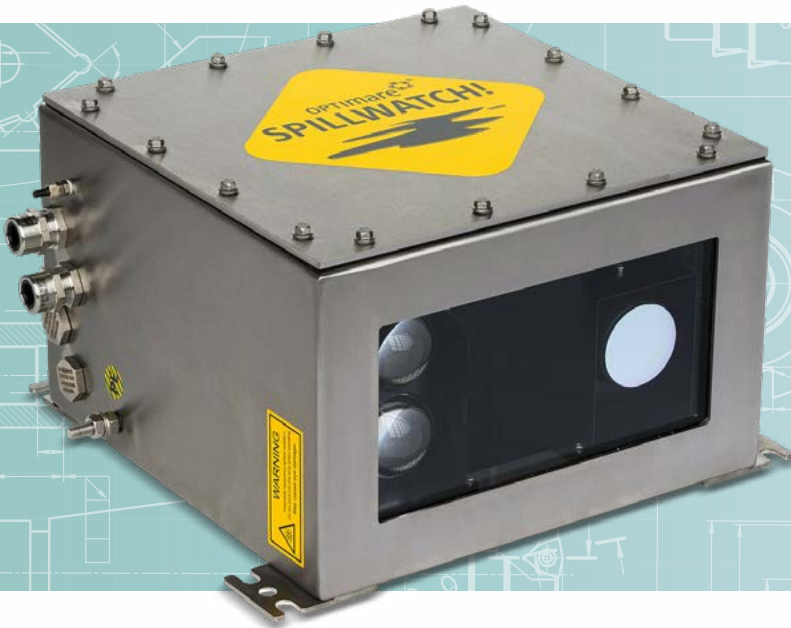


OPTIMARE SpillWatch!®

Non-contact oil spill detection and alarm, also available as OPTIMARE SpillWatch!® Ex (ATEX Version)



- Real-time around-the-clock detection and control of oil spills for petrochemical industry, pipelines, power plants, harbors, desalination, intake protection and aquaculture
- Highly effective LED-based excitation
- Based on fluorescence excitation and detection
- Ruggedized design (IP66)
- Cost-effective, low-maintenance
- Multiple interfaces network connectivity

Product Line

The industry-proven OPTIMARE SpillWatch!® forms the basis of a product line encompassing various non-contact oil-on-surface detectors for different application areas. OPTIMARE SpillWatch!® is also available as long-range (LR) version for distances of up to 30 meters. OPTIMARE SpillWatch!® and its LR version are also available as ATEX-compliant „Exproof“ variants.

Application

The detection of oil, including crude oil, diesel/fuel oil, motor oil, lube oil, gasoline, food oils etc. spilled to the water or land surface is widely required in industrial and environmental applications. A timely alert enables countermeasures not only limiting damage to the environment but also reducing cost for remediation and clean-up.

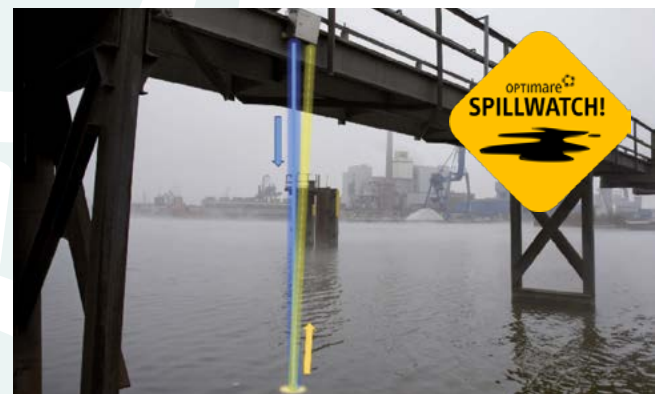
Technique

The OPTIMARE SpillWatch!® sensor is installed downward-looking, several meters above the surface. The sensor technology is based on fluorescence excitation and detection. Its innovative optical Setup and all-solid-state opto-electronic components guarantee

high sensitivity and allow low-maintenance operation. The system automatically filters out ambient conditions (e.g. sunlight), providing highly reliable detection under all light, weather and Surface conditions.

Action

In case of a spill, the OPTIMARE SpillWatch!® provides an instant warning, enabling users to take countermeasures, e.g. shutting off pumps or valves and notify personnel via a variety of interfaces and wireless options. The OPTIMARE SpillWatch!® is designed and manufactured for deployment in rugged settings.



Technical Data

OPTIMARE SpillWatch!®

SENSOR SPECIFICATIONS

Sensor principle	Detection of fluorescing oil components
Range	1.5 – 10.0 m (depending on oil type), best performance within 2 – 5 meters
Background compensation	Constant or adaptive
Alarm settings	Customizable, independently for both on and off status

COMMUNICATION/INTERFACE

User interface	RS232 serial interface and SpillControl Software Direct connection only necessary for initialization
Signal output	2 relay contacts (detect/no detect and status) 4 – 20 mA 0 – 10 VDC

MECHANICAL PROPERTIES

Dimensions	300 mm x 300 mm x 170 mm
Mass	8 kg
Enclosure	IP 66, weatherproof stainless steel housing

POWER SUPPLY

Voltage	12-24 VDC (Standard) 100 – 240 VAC; 50 – 60 Hz
Power consumption	10 Watt typical
Power options	Solar and/or wind-powered

OPERATING/STORAGE CONDITIONS

Operating temperature	-10 °C to + 45 °C Lower/higher temperature options available
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ATEX VERSION

Version	II 3(1)G Ex nR [op is Ga] IIC T4 Gc
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