

TRITON OMD II



Oil Mist Detection System

- ▶ Reliable protection against engine damage and crankcase explosion
- ▶ Best in class prevention of false alarms
- ▶ Compliant with ATEX requirements
- ▶ Robust and maintenance-free design

TRITON OMD II

Oil Mist Detection

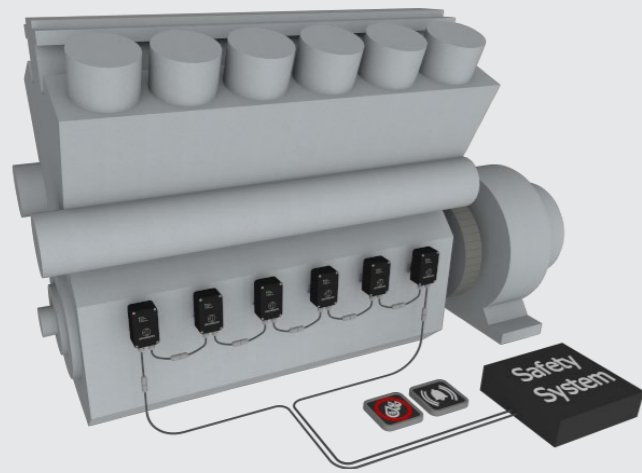
Highly hazardous oil mist is generated when lubricating oil evaporates on friction-heated surfaces within a crankcase and condenses again. This oil mist presents a serious risk to personnel and equipment.

A concentration of only 50 mg/l in the compartment is already sufficient for an explosion to occur. The consequences are large scale engine damages and at worst case the loss of human lives.

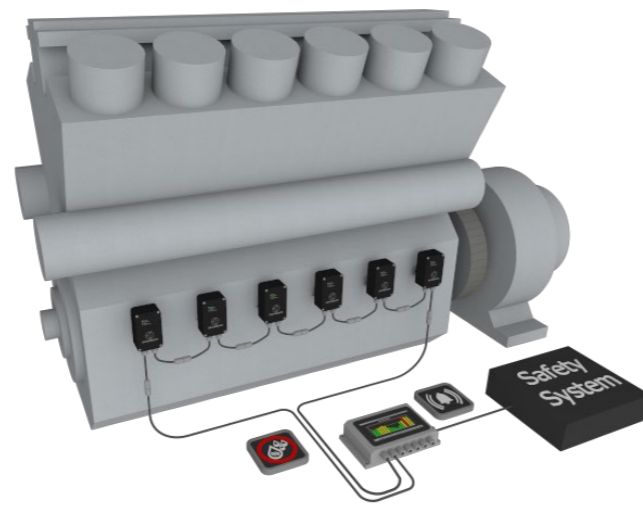
TRITON OMD II reliably recognises potentially harmful operation conditions and protects in this way operating personal at the same time preventing engines from devastating damages.

TRITON OMD II Benefits

- ▶ Continuous monitoring of each compartment
- ▶ Redundant measuring and communication channels
- ▶ Innovative protection against measuring path contamination
- ▶ Advanced model based algorithms for false alarms prevention
- ▶ Easy installation on the engine
- ▶ Plug & play approach for the initial installation as well as for exchange, no pre-configuration of sensors required
- ▶ Sensor replacement possible at any time
- ▶ "Black-box" functionality within each sensor
- ▶ Sensors are fully operational as an integral part of OEM safety system (no central unit necessary)
- ▶ Prepared for predictive maintenance
- ▶ Communication via Ethernet, CAN or Modbus



System variant 1



System variant 2 with Central Unit

SYSTEM COMPONENTS

Central unit

The central unit is designed for direct installation on the engine or alternatively in the engine room.



Built in a metallic case it is best suited to withstand harsh environmental conditions occurring in the application area. The unit covers all tasks with regards to redundant power supply and communication link to the sensors chain. Integrated graphic LCD provides system operator with intuitively ordered status information. The central unit can serve up to 16 sensors.

Besides the core functionality as an alarm processing unit, the central unit supports nowadays prevalent digitalisation mind set by sophisticated data conditioning focusing predictive maintenance and advanced connectivity capabilities.

Technical data central unit

Power supply	24 VDC + 30 % / -25 %
Operating current	up to 4 A
Alarm level	adjustable steplessly (0.2 - 10 mg/l)
Outputs	3 isolated relay contacts: - System ready - Main alarm - Pre-alarm
Data interface	Ethernet, CAN, RS-485
Ambient temperature	0 ... 70 °C
Degree of protection	IP65
Max. number of sensors	16

Sensors

The sensor represents the core elements of the oil mist detection system and consists of two complementary parts. The sampling feed with integrated test facility and the sensor body with unique measuring arrangement.

Highly sophisticated processing algorithms in combination with active sampling ensure excellent dynamics of concentration measurements. Special design of sample flow path protects measuring optics from soiling. Supplemented with advanced plausibility validation best possible immunity against false alarms is ensured.

Sensors may be used either in combination with the central unit from HEINZMANN or alternatively as an integral part of a proprietary superordinate engine safety system.



Technical data sensor

Power supply	2x 24 VDC + 30 % / -25 %
Operating current	up to 0.25 A
Data interface	2x CAN
Ambient	0 ... 85 °C for sensor electronics 0 ... 120 °C for sensor sampling feed
Degree of protection	IP65
Installation	G 3/4"

Applications

- Diesel engines
- Gas engines
- Dual-fuel engines

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