

Hot-Box Detector H-18



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The Hot-Box Detector H-18 is a detector for mounting in the engine hot box.

It is designed to protect against oil spray fires caused by gases leaking from the engine, which pose a sometimes visible, sometimes invisible and odorless hazard.

Due to its installation at a location with considerable ignition hazards, the detector forms an indispensable part of an effective fire prevention effort.

Fires on board ships are devastating

Fires aboard ships are both dangerous and costly. Every year, a couple of hundred fires are registered on board merchant ships. The majority of these occur in the engine room and are caused by leakages, resulting in high repair costs and losses incurred due to logistical issues. The importance of crew and passenger safety does not even need to be discussed.

The engines hot box presents considerable risk, because this is the site where pressurized fuel meets hot surfaces which might result in the ignition of gas or oil mist vapors.

Leakage alarm for hot box protection

The Hot-Box Detector H-18 is designed for installation in engine hot boxes, with a quick release adaptor. It is designed for smaller compartments, to detect risks caused by leakages at the earliest possible state of detection. **It is of crucial importance to have enough time to react.**

The Hot-Box Detector H-18 sensor can operate in areas with temperatures reaching up to 200°C / 392°F. The detector is easy to install, it is not affected by unintended human interference and it does not require light in order to operate.

The Hot-Box Detector H-18 electronics sample and analyze the air looking for hydrocarbon leaks. If it detects any increased level of hydrocarbon, in the form of gas or mist, the Hot-Box Detector H-18 sends an **early warning** signal to the crew about the increasing danger.

Facts about Hot-Box Detector H-18:

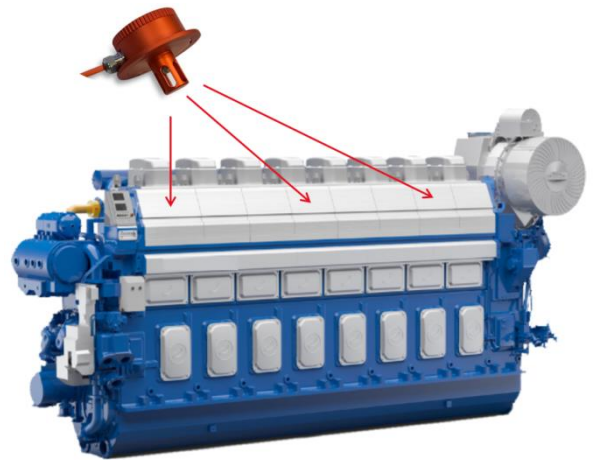
- easy installation
- detects invisible and odorless gases
- scalable solution / integration with LAS-10
- no false alarms
- operates in high ambient temperatures
- does not require light to operate
- is not affected by human interference
- no impact on access to engine maintenance
- mounted on a quick release adaptor ring



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An ounce of prevention

DASPOS’s new Hot-Box Detector H-18 provides early warnings from the hot box. The detector triggers an alarm **before** visible, invisible and/or odorless gases or fuel vapors ignite, turning the scene into a firepit. This makes the Hot-Box Detector H-18 a fire **prevention** system rather than a traditional fire detection system that has to wait for actual smoke or flames to trigger the alarm.



System setup

- Each control unit handles up to 24 Hot-Box Detector H-18.
- Each monitor can receive input from up to 192 detectors.
- System is powered with installed power supply unit.
- Airborne oil mists and hydrocarbon vapors are detected in ambient temperatures of up to 200°C / 392°F.

Scalable solution

The Hot-Box Detector H-18 can be installed as a stand-alone system or in combination with the LAS-10 system. Both systems are integrated and operate in the same setup for monitoring. The Hot-Box Detector H-18 is a solution that lives up to your safety ambitions, even as the change.

Installation

