TROMAN
THERMAL DETECTION, NOTIFICATION & SUPPRESSION

Dual Band Optical Detector

Dual Optic Sensors Enhance Infrared Detection

The Troman Dual Band Optical Detector provides rapid detection against flames within vehicle high-hazard zones. Optical detectors are installed within a hazardous zone with ambient temperatures less than 125°C/257°F. The sensors can be directed toward high-hazard components (e.g., turbocharger) or be combined to protect a given volume or complete hazard zone.

The sensors use dual optics designed to work at different wavelengths within the infrared spectrum. This combines fast detection times with excellent immunity against potential false alarm sources. An end-of-line connector is usually installed at the end of each hazard channel, which can comprise up to five optical detectors linked together to allow continued system monitoring. Following detection, an alarm signal is sent to the Troman controller.

Features

- Example of alarm performance: 1 second against 0.3 m (12") pan at 1 m (42")
- Field of view: 90°
- Maximum operating temperature: 125°C/257°F
- Dual optical sensor provides good false alarm immunity
- Green provides status
- Optics resistant to grime but require periodic cleaning
- Provides an alarm signal to Troman controllers

Specifications

- Operating voltage: 9–32V
- Current draw: 5 mA Nominal at 24V, 15 mA alarm
- Temperature range: -40°C to 125°C / -40°F to 257°F
- Enclosure: NEMA 4X rated with environmentally sealed weatherpack connectors