Carrier

X3301
Multi-IR Hydrocarbon

The X3301 is a multispectrum infrared (MIR) flame detector. It provides unsurpassed detection of fires from light to heavy hydrocarbon fuels combined with the highest degree of false alarm rejection. The detector has Division and Zone explosion-proof ratings and is suitable for use in indoor and outdoor applications.

The X3301 contains three IR sensors with their associated signal processing circuitry. The standard output configuration includes fire alarm, fault and auxiliary relays, with an isolated 0–20 mA output model with optional HART communication.

The detector provides superior performance in applications that are at the extremes, and where background infrared radiation is a normal condition:

— Hangars
— Offshore production platforms
— Offshore production ships
— Refineries
— Production facilities
— Loading racks
— Compressor stations
— Turbine enclosures
— Airport water curtains
— Automotive Painting
— LNG/LPG
— Gas Separation Plants
— Warehousing
— Marine

Details

- Technology features: Complies with FM 3260 EN54 certified Certified SIL 2 capable ATEX Directive compliant Certified performance to multiple fuel types and fire sizes EQP models available Long detection range to carbonaceous fires HART models available FDT/DTM capable Multiple sensitivity levels Maximum false alarm rejection Calibrated automatic optical integrity Reliable flame detection with modulated IR background Microprocessor controlled heated optics Third-party approved options for detector verification include Magnetic Optical Integrity and Manual Optical Integrity tests Tri-color LED indicates detector status and field-of-view (FOV) RFI and EMC Directive compliant Event logging with time and date stamp Integral wiring compartment for ease of installation Operates under adverse weather conditions and in dirty environments

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Technical specifications