DETECTORS INCORPORATED

safety · security · peace of mind

D390
3IR
Flame Detector

FLAME DETECTOR FOR THE SEMICONDUCTOR INDUSTRY

PRODUCT DESCRIPTION

Designed for chemical-laden harsh environments, the Model **D390** is the most suitable flame detector for semiconductor clean rooms and wet benches. The Model **D390** is a stand-alone 3IR fire & flame detector in a totally sealed polypropylene enclosure specifically designed for semiconductor manufacturing facilities. The D**390** detector is optimized to respond to fire sources from hydrocarbon and non-hydrocarbon fuels while rejecting non-fire false alarm sources. The detector's flame response and false source rejection is accomplished by utilizing the Convolution Method and Advanced DSP (Digital Signal Processing) in conjunction with hard coded Algorithms identifying specific wavelengths of Energy.

The **D390** detector requires an external 24 VDC power source and is supplied with Alarm / Auxiliary / Fault relays, 4-20 mA analog and RS485 ModBus outputs. The detector is supplied with an integral 20-foot Teflon Coated multi-conductor cable for wiring to external devices. The detector can store 200 events and 6 FireGraphs in its FRAM memory.

FEATURES AND BENEFITS

- Multi-Spectrum 3IR design
- Standard outputs: Alarm/Fault/Auxiliary relays, 4-20 mA, and RS485 ModBus 200
- Event Logs and 6 FireGraphs
- Automatic Self-Test checking electronic circuitry and Optical Path Integrity test with OptiRadar®
- Leak-Proof Polypropylene enclosure
- Test Mode for manual testing
- Integral cable harness for easy field wiring
- Manufactured in the USA with 3-year warranty RFI
- & EMC compliant
- Designed to SIL 3 requirements

APPLICATIONS

- Semiconductor clean rooms
- Wet Bench working area
- Wet Bench plenum Semiconductor
- processing facilities Equipment
- behind wet bench area
- under floor area of clean rooms