

IntelliQuad™ Multi-criteria Detector

Four Sensors, Six Levels of Sensitivity, Hundreds of Applications

High Sensitivity, Maximum Stability
The IntelliQuad detector is the latest innovation in intelligent sensing from NOTIFIER. IntelliQuad is an intelligent, multi-criteria detector capable of sensing the four major signatures of a fire: smoke, heat, infrared light, and carbon monoxide (CO). IntelliQuad's sophisticated on-board algorithms continuously evaluate readings from its four built-in sensors and more accurately respond to actual fires while increasing immunity to false alarms.

A More Intelligent Alarm Decision
The IntelliQuad multi-criteria detector has six programmable levels of sensitivity. Sensitivity levels are selected by the system designer based on expected conditions where IntelliQuad is installed. From clean rooms to industrial installations, the six sensitivity levels meet any need for early, accurate detection with confirmation of a true fire condition before alarming.

Four Sensors Working in Tandem
The IntelliQuad detector combines four separate sensing elements:

1. **Photoelectric Detector:** Photoelectric chamber senses airborne particulates for smoke detection.
2. **Carbon Monoxide Detector (CO):** Proven electrochemical cell technology monitors carbon monoxide gas produced by incomplete combustion.
3. **Infrared Detector:** Measures ambient light levels across 360° as a background value and compares the background levels to the presence of light generated by a burning fire.
4. **Thermal Detector:** Heat sensor technology with a software compensated, linear temperature response to monitor rate–of-rise or a fixed temperature (135°F) threshold.



If the photoelectric sensor detects airborne particulates as smoke, the on-board microprocessor will verify the fire condition by looking for a second signature from one of the other three sensors; the infrared, thermal, or carbon monoxide detector. As soon as the second fire signature is confirmed by IntelliQuad's internal algorithms, the detector will send an alarm signal to the fire alarm control panel. Testing has shown that IntelliQuad detects fire more rapidly than single element detectors with far fewer nuisance alarms.

Unmatched Precision in Any Environment
The IntelliQuad is sensitive to fires in all environments. Its high level of accuracy and precision make it perfect for facilities where the disruption of nuisance alarms cannot be tolerated—facilities where occupant evacuation carries a significant health, security, or financial consequence.

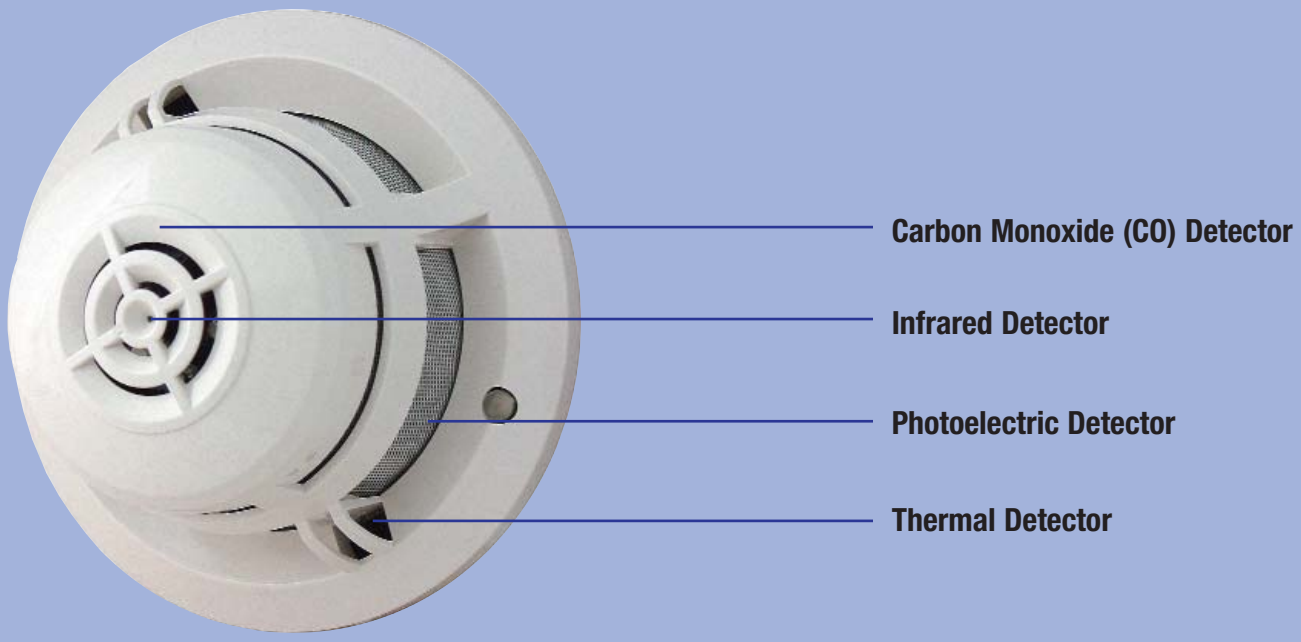


IntelliQuad Applications

- Medical facilities - hospitals, nursing homes, outpatient clinics
- Food prep operations
- Night clubs - discos, theaters
- Hospitality - hotel rooms, restaurant kitchens
- Financial institutions - call centers, record storage
- College/University - dormitories
- Research facilities and laboratories
- Office space
- Mechanical rooms
- Chemical and pharmaceutical manufacturing
- Government Buildings

To learn more about the IntelliQuad detector or other NOTIFIER products, or to locate your local authorized Engineered Systems Distributor, call 1-800-289-3473 or visit www.notifier.com.

NOTE: The CO cell is specifically deployed as a component of smoke detection in this device. This device is not listed for applications in which UL268 3230-3250 standalone CO detection is required for life safety.



IntelliQuad™ Multi-criteria Detector

IntelliQuad is a trademark of Honeywell International Inc.

NOTIFIER® by Honeywell

World Headquarters
12 Clintonville Road
Northford, CT 06472-1610 USA
Phone: 203-484-7161
Fax: 203-484-7118
www.notifier.com

Copyright © 2009 Honeywell Int'l
M-SS-IQ 2K 02/24/09