



AIRCRAFT HANGERS — APPLICATION PROFILE

Storage of extremely valuable aircraft, the use of highly volatile materials, and an almost constant human presence requires fast, accurate, and reliable flame detection in aircraft hangers - achieved with the Net Safety Phoenix Triple IR flame detector.

WHY FLAME DETECTION? Whether a commercial or military aircraft hanger, there are always three very important considerations: protection of the structure, protection of it's contents, and most importantly protection of the technicians and engineers. Commercial aircraft hangers generally incorporate the guidelines outlined the NFPA 409 standard for fire safety, which puts emphasis on the people, then the structure. Military installations instead focus on their people then the aircraft. In either application, the response to a flame event must be extremely fast and accurate in order to protect lives, allow the greatest amount of time to respond, and protect valuable property.

Primary fire risks in these areas include: aircraft fuel spill ignition (through static discharge, electrical malfunction, maintenance activity, heaters or spark) as well as hydraulic fluids, lubricants, and solvents. There is also the potential for the presence of explosive cargo or ordnance under the wings (the highest risk area).

Aircraft detection zones typically call for 4 detectors with a certified 90° field of view. Two are mounted at either side of a bay at ground level (1m) for critical under-wing coverage and two above (approx 15m) on either side with at least 30% overlaying coverage areas. This ensures comprehensive protection and can also be tied into mitigation systems with alarm zone logic for added integrity.

Primary objectives of aircraft hanger flame detection are:

- Detect flame instantly while still in it's inceptive stage
- Provide for the optimum human response to a flame event
- Minimize damage to aircraft, equipment and structure
- Provide the lowest possible incidence of false alarm events

TECHNOLOGY CHOSEN: Triple Infrared optical flame detection is proven the most effective flame detection technology available for extreme industrial applications. It provides extremely fast and accurate response with the highest sensitivity and immunity to false alarm sources, plus the greatest area coverage and distance.

WHY NET SAFETY? Our Phoenix Triple IR flame detector is FM performance certified to provide a full 90° field of view plus up to 200 ft detection distance with a < 5 second response time! Field proven in thousands of industrial installations worldwide and backed by an industry leading 7 year warranty. High immunity to typical hanger false alarm sources such as welding, artificial light sources, x-ray inspections and is completely solar blind. Plus many innovative features designed to improve overall performance and greatly reduce maintenance and cost-of-ownership.

PHOENIX TRIPLE IR

Multi-spectrum Infrared Flame Detector

SIL2

[more information](#)



• No External Reflector— Reduces Faults and Maintenance

• Market-Leading 7 Year Detector Warranty

• Proprietary Automatic Digital Zoom Technology

• 90 Degree Field Of View, +200ft. Range of Detection

• Wide Operating Temperature Range of -50°C to +75°C

• Global Approvals for Hazardous Indoor and Outdoor Applications