

# PERFORMANCE ADDENDUM



## **FS 24X™**

FS24X QuadBand Triple IR™

Multi-Spectrum Infrared Electro-Optical Multi-Spectral Digital WideBand IR Sensor  
Radiant Energy Fire and Flame Detector

**Honeywell**

The following information replaces the **Additional Performance Specifications** in the 1998M0901 FS24X User Manual.

## Flame Response Sensitivity

**Note: absolute distance and response times will be affected by various external influences, including (but not limited to) ambient light levels, airflow, atmospheric moisture content, and fire size stability.**

The following table provides FS24X typical **INDOOR** response times and distance to various fuels.

FS24X Quad-Band (Very High [4] Sensitivity)			
Fuel	Fire Size	Typical Distance	Typical Response
n-Heptane	6 in x 6 in (0.15 m x 0.15 m)	90 ft (27 m)	5 seconds
IPA	6 in x 6 in (0.15 m x 0.15 m)	90 ft (27 m)	< 8 seconds
Methane	48 in x 3/8 in (1.2 m) plume	90 ft (27 m)	< 5 seconds

The following table provides FS24X typical **OUTDOOR** response times and distance to various fuels:

FS24X Quad-Band (Very High [4] Sensitivity)			
Fuel	Fire Size	Typical Distance	Typical Response
n-Heptane	12 in x 12 in (0.3 m x 0.3 m)	200 feet (61 m)	4.2 seconds
	12 in x 12 in (0.3 m x 0.3 m)	264 feet (80 m)	<15 seconds
IPA	12 in x 12 in (0.3 m x 0.3 m)	175 feet (53 m)	< 5 seconds
Methane	48 in x 3/8 in (1.2 m) plume	90 feet (27 m)	< 8 seconds

Performance data for other fuel fires will be published on a Technical Note. Please contact Honeywell.

## False Alarm Immunity

The following table represents the minimum distance at which the detector did not false alarm or show any signs of instability during exposure to the sources listed. Additionally, the Sensitivity to a one square foot n-Heptane reference pan fire in the presence of the false fire source is listed.

False Fire Source	Minimum Distance with No Alarm	Equivalent Sensitivity to a 1 ft x 1 ft n-Heptane reference pan fire in the presence of the false fire source
Unmodulated Direct Sunlight	N/A	25 ft (8 m)
Modulated Direct Sunlight	N/A	25 ft (8 m)
Unmodulated Reflected Sunlight	9 ft 9 in (3 m)	25 ft (8 m)
Modulated Reflected Sunlight	9 ft 9 in (3 m)	25 ft (8 m)
Continuous Arcwelding	15 ft (5 m)	25 ft (8 m)
Modulated Arcwelding	15 ft (5 m)	25 ft (8 m)
Unmodulated Resistive Electric Heater	3 ft (1 m)	150 ft (46 m)
Modulated Resistive Electric Heater	9 ft (3 m)	150 ft (46 m)
Unmodulated Fluorescent Lamp	3 ft (1 m)	150 ft (46 m)
Modulated Fluorescent Lamp	9 ft (3 m)	150 ft (46 m)
Unmodulated Halogen Lamp	11 ft (4 m)	80 ft (24 m)
Modulated Halogen Lamp	7 ft (2 m)	30 ft (9 m)
Unmodulated Sodium Vapor Lamp	3 ft (1 m)	150 ft (46 m)
Modulated Sodium Vapor Lamp	9 ft (3 m)	150 ft (46 m)
Unmodulated Incandescent Lamp	3 ft (1 m)	150 ft (46 m)
Modulated Incandescent Lamp	5 ft (2 m)	30 ft (9 m)

## Contact Us

Americas  
Honeywell Analytics Inc.  
405 Barclay Blvd.  
Lincolnshire, Illinois  
USA 600069  
detectgas@honeywell.com

Europe  
Life Safety Distribution AG  
Javastrasse 2  
8604 Hegnau  
Switzerland  
gasdetection@honeywell.com

Asia Pacific  
Honeywell Analytics Asia Pacific Co., Ltd.  
#701 Kolon Science Valley (1)  
43 Digital-Ro 34-Gil, Guro-Gu  
Seoul, 152-729 Korea  
analytics.ap@honeywell.com