

THE NEXT GENERATION IN RELIABLE FLAME DETECTION

Honeywell FS24X Plus



Honeywell

FLAME DETECTION FOR HYDROCARBON AND HYDROGEN FIRES IN ONE DEVICE

The FS24X Plus is the newest member of Honeywell's FSX series of advanced, multi-spectrum, electro-optical flame detectors, providing high performance in challenging conditions. The Honeywell FS24X Plus uses our WideBand IR™ infrared technology to quickly and reliably detect hydrocarbon and hydrogen fires – before they grow – even in the presence of environmental inhibitors like rain, fog, and smoke.



Honeywell FS24X Plus builds upon its predecessor by:

Comprehensive coverage

Long-range, wide-angle sensors detect fires at 200 ft (60m) for 1 ft² (0.1 m²) n-Heptane.

Reduced nuisance alarms

Advanced algorithms minimize false alarms by differentiating fires from other heat sources. The Honeywell FS24X Plus maintains sensitivity to hydrocarbon and hydrogen fires while ignoring noise sources.

High-visibility Halo ring

Illuminates green, yellow or red making it easy to see status at a distance. Easily determine whether the detector is in normal, fault or alarm condition – from up to 50 ft (15m) away, even in bright outdoor environments.

Versatile mounting options

Sunshade and mount included. Choose from either the standard or marine version mount. The Honeywell FS24X Plus can be installed on flat surfaces or pipes, either horizontal or vertical. Quickly and easily position the detector in optimal locations.

Reliable performance in extreme conditions

The Honeywell FS24X Plus will operate effectively in temperatures from -55° C to +75° C (-67° F to +167° F).

Dependability

Improved diagnostic self-test functionality reduces faults, while cutting your troubleshooting time and scheduled maintenance costs.

Detailed logs and patented FirePics™

The detector logs up to 5000 events and ten 30-second FirePics™ – both leading up to and during a detected fire – so you can investigate events and determine root causes. And accessing this data is easier than before thanks to the new micro USB port.

Enhanced Communications

Compatible with industry standard communication protocols – including Modbus, HART® or 4 to 20 mA source, sink, and isolated as standard.

HELPING SAFEGUARD PEOPLE, INFRASTRUCTURE AND THE ENVIRONMENT

With high-speed, photoconductive quantum sensors and WideBand IR™ technology, Honeywell FS24X Plus rapidly identifies both hydrocarbon and hydrogen fires in challenging weather conditions.

DETECTING FLAMES, FROM A RANGE OF SOURCES

Honeywell FS24X Plus has three infrared sensor bands that monitor key wavelengths. This triple IR improves performance in poor conditions, seeing flames that are often invisible to single-band detectors:

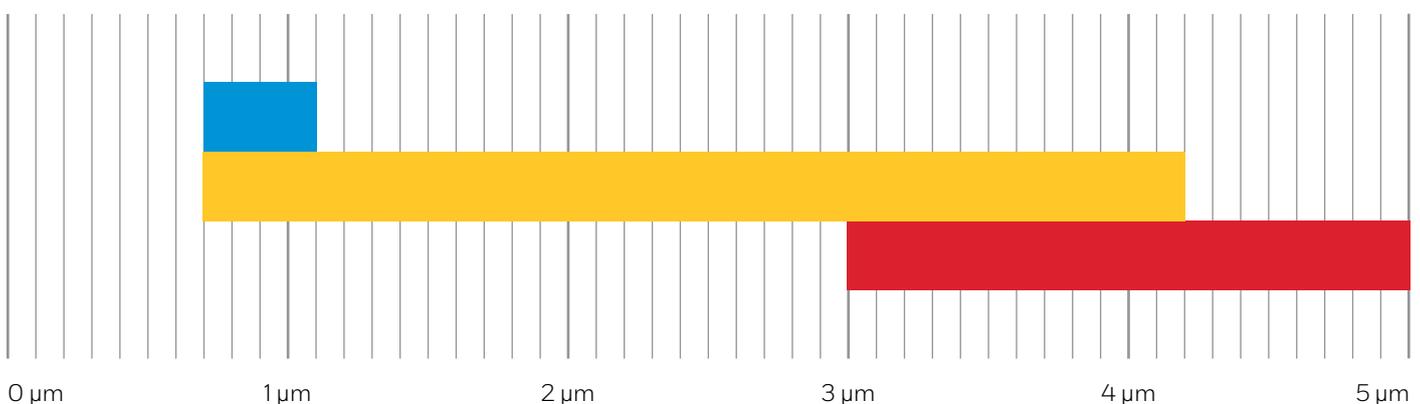
- Near-band IR from 0.7 μm to 1.1 μm
- Wide-band IR from 0.7 μm to 4.2 μm
- Long-band IR from 3.0 μm to 5.0 μm

Since more than 95 percent of a fire's energy radiates between 0.7 μm and 5.0 μm , Honeywell FS24X Plus is designed to monitor the bands that are most likely to see a fire — without relying on CO₂ spikes to detect emerging flames.

ENGINEERED FOR RELIABLE FLAME DETECTION

Honeywell FS24X Plus has dual microprocessors to ensure robust, reliable flame detection. The first manages high-speed digital sampling and signal-processing. The second handles sensor data, communications and self-diagnostics — plus added memory for event logs.

WAVELENGTHS VISIBLE TO SENSOR



■ NEAR-BAND IR: 0.7 μm to 1.1 μm ■ WIDE-BAND IR: 0.7 μm to 4.2 μm ■ LONG-BAND IR: 3.0 μm to 5.0 μm

A WORLD OF APPLICATIONS

Honeywell FS24X Plus is certified to both EN54-10 and FM3260 performance standards, as well as EN61508 SIL2 for Safety Instrumented System applications. It is also marine-certified for offshore applications such as FPSO.

Since it can readily detect both hydrocarbon and non-hydrocarbon flames — even in challenging conditions — Honeywell FS24X Plus is an ideal flame detector for numerous applications, including:

- Refineries and oil production plants
- Offshore platforms
- Turbine/compressor enclosures
- Oil and gas pipelines and pumping stations
- Loading and unloading facilities for liquefied petroleum and natural gas
- Natural gas/compressed natural gas plants
- Production and storage facilities for ethanol, methanol and isopropanol
- Tank farms and storage facilities for crude oil and gasoline
- Aircraft hangars
- Paint and solvent storage
- Chemical production, storage and loading facilities
- Power plants
- Wastewater plants



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HON_BRO-6PG_FS24X_A4_EN-1221 | 12/21
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WHAT
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