

ULTIMATE FLEXIBILITY RELIABLE FLAME DETECTION

Honeywell FS20X Plus (UV/3IR)



Honeywell

WIDE RANGE OF USE AND FLEXIBILITY



The FS20X Plus (UV/3IR) builds upon Honeywell's FSX series flame detectors with WideBand IR infrared technology with the addition of ultraviolet (UV). This offers a flexible solution which can quickly and reliably detect Hydrocarbon, non-Hydrocarbon, and Hydrogen fires — with increased range of detection — even in the presence of environmental inhibitors like rain, fog, and smoke.

HONEYWELL FS20X PLUS BUILDS UPON ITS PREDECESSOR BY:

Diversity of Detection

Able to see a variety of Hydrocarbon, non-Hydrocarbon, and Hydrogen fires in a single device. No need to specify or stock a specialty flame detector.

Operation in Harsh Conditions

The Honeywell FS20X Plus can operate effectively in temperatures from -55° C to +75° C (-67° F to +167° F) and 99 % relative humidity. SIL2 certification from TÜV.

Accessories Included

Sunshade (new design) and mounting bracket included. Choose from the standard or marine version bracket. The FS20X Plus can be installed on a variety of surfaces. Quickly and easily position the detector in optimal locations.

Extended Distance

Long-range, wide-angle sensors detect fires for a 1 ft² (0.1 m²) n-Heptane fire at 275 ft (84 m) in typically 5 seconds or 90 ft (27 m) for a similar size hydrogen fire

Decreased Nuisance Alarms

With the addition of the UV sensor to the existing 3IR, the FS20X Plus maintains sensitivity to flaming fires at extended ranges while having the ability to circumvent common sources of noise.

All-in-One Device

Communication options such as Modbus, HART® 7, Relays, and mA (source, sink, and isolated) are included as standard. Multiple, global certifications are listed on each device. No need for complex ordering codes.

UTILITY FLAME DETECTION

Unlike traditional UV+IR flame detections, Honeywell's UV+3IR with high-speed sensors and WideBand IR technology, the FS20X Plus can see Hydrocarbon, non-Hydrocarbon, and Hydrogen fires in challenging weather conditions.

DETECTING FLAMES, FROM A RANGE OF SOURCES

Honeywell FS20X Plus has one ultraviolet and three infrared sensor bands that monitor key wavelengths. Triple IR and especially the WideBand IR can see flames that become almost invisible to single or narrow band detectors during poor conditions, the UV protects against nuisance alarms and broadens the types of flaming fires detectable.

- Ultraviolet from 0.18 μm to 0.26 μm
- 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

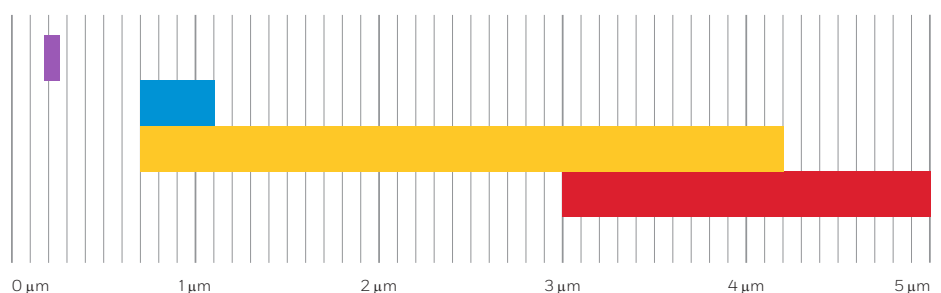
Without the need to rely on CO₂ spikes like narrow band detectors to detect emerging flames, Honeywell FS20X Plus can monitor the bands that are most likely to see a fire.

ENGINEERED FOR RELIABLE FLAME DETECTION

Honeywell FS20X 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



- **ULTRAVIOLET:** 0.18 μm to 0.26 μm
- **NEAR-BAND IR:** 0.7 μm to 1.1 μm
- **WIDE-BAND IR:** 0.7 μm to 4.2 μm
- **LONG-BAND IR:** 3 μm to 5 μm

Since it can readily detect Hydrocarbon, non-Hydrocarbon, and Hydrogen flames — even in challenging conditions — Honeywell FS20X Plus can be a flame detector for multiple applications in a single, including but not limited to:

- Upstream
 - Production platforms
 - Onshore
 - Offshore
 - Terminals
 - Onshore
 - Offshore
 - FPSOs
 - Process
 - Gas Processing stations
 - Downstream
 - Transmission
 - Compressor stations
 - Metering stations
 - Terminals
 - Storage
 - Distribution
 - Compressor stations
 - Metering stations
- LNG
 - Liquification
 - Storage
 - LPG
 - Chemical Plants
 - Processing Ethylene, etc.
 - Power Generation
 - Gas fueled (gas turbine)
 - Syngas
 - Gas storage
 - Hydrogen
 - Silane
 - Refineries
 - Gas processing
 - Aviation



WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship during the applicable warranty period. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgment or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items that Honeywell, in its sole discretion, finds defective. The foregoing is buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.

While Honeywell may provide information or engineering support for its products through Honeywell personnel, literature and website, it is the buyer's sole responsibility to determine the suitability of the Honeywell product(s) for the buyer's requirements. Specifications may change without notice. The information we supply is believed to be accurate as of this writing. However, Honeywell assumes no responsibility for its use.

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