

# FS20X Flame Detector

## FS20X Flame Detector

## Overview



Feedback

### Product Overview:

Based on the foundation of the highly successful and reliable SS4 Flame Detector, the FS20X Flame Detector represents a quantum leap in integrating Infrared and Ultraviolet sensing technologies. The FS20X is a Multi-Spectrum and UV/Dual IR/VIS Flame Detector with a proven UV solar-blind sensor. The FS20X exhibits faster false-alarm free response to fires over a wider temperature range and with a much longer detection range compared to conventional UV/IR detectors.

Conventional and older technology UV/IR detectors, using narrow band 4.3 micron IR sensors, will not respond to smoky fires or if the detector lens is contaminated with oil and other substances since both UV and 4.3 micron signals are attenuated, obscured or absorbed by thick smoke or detector lens contaminants. Also, these old technology UV/IR detectors will not alarm to any fire if they are installed behind ordinary window glass.

Dual microprocessors provide a high level of fail-safe operation combined with fast and reliable performance. The Master Microprocessor performs high-speed digital sampling and signal processing calculations; while the slave microprocessor handles various sensor data, performs communications, self-diagnostics and provides interface versatility; and additional memory for storing Event Log and FirePic™ data.

The FS20X Flame Detector has a detection range in excess of 200 feet (very high sensitivity setting) for the detection of a one square-foot Heptane reference fire and has a cone of vision greater in volumetric coverage than most UV/IR detectors. This means fewer detectors can be used as compared to other manufacturers' detectors.

### Additional Features and Benefits:

- Patented\* WideBand IR™ Infrared combined with Ultraviolet
- Detection range greater than 200 feet to 1 sq. ft. heptane fire
- Patented\* Electronic Frequency Analysis
- Visible Sensor for optimum false alarm rejection
- Selectable detection sensitivities
- Solar blind 90° full 100% cone-of-vision
- Dual Microprocessors for reliable performance
- Real-time clock for accurate time dating of events

- FirePic™ — Up to 6 pre-fire event data storage
- Event log — Up to 200 events with date and time stamp
- Built-in RS-485 ModBus Communication
- Built-in non-isolated 4-20 mA analog output (sink or source)
- Alarm, Fault and Fire Verification relays.
- Automatic Optical Path and Electronic Self-Test
- Widest operating temperature range
- Patented\* Electronics Module for components protection with plug-in terminations for easy field installation
- Two ¾" NPT OR 25mm conduit entries
- Low power consumption
- High RFI and EMI immunity
- FM approved

**Benefits:**

- Detects hydrocarbon and non-hydrocarbon fuel fires in all environmental conditions
- Arc welding immunity
- False alarm rejection for all environmental conditions
- Minimal maintenance for trouble-free operation
- PC software and Interface Module (FSIM) for fault diagnostics real-time graphs (RTGs), and downloading of FirePics™ and event log
- Suitable for a wide variety of applications.

**Features & Benefits:**

- Detects hydrocarbon and non-hydrocarbon fuel fires in all environmental conditions
- Range greater than 200 feet to 1 sq. ft. heptane fire
- Arc welding immunity

**Quick Specs:**

- Field of view: 90° full 100% core of vision, ± 45° from on axis
- Operating voltage: 24 VDC nominal (18-32 VDC) - regulated
- Sensitivity: Very high, high, medium and low - switch selectable

Even the best products deserve expert maintenance!

Elevate your gas detectors' potential with Honeywell's expert maintenance services! Maximize uptime, eliminate costs, and ensure on-time, on-budget project completion.

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# Specifications

## BRAND

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**Brand**

- Honeywell
- Notifier

## CATEGORY

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**Sub-Category**

- Flame Detectors

# Product Number

FS20X-211-10

REPL MODULE FS20X UV/IR STmp

FS20X-211-21-2	DUAL IR/UV FLAME DETECTOR Copper-Free Aluminium Encl. with (2) ¾" NPT entries: FM: cFM for Class I: Division 1: Groups A: B: C: D: Class II: Division 1: Groups E: F: G: Class III
FS20X-211-21-4	FS20X UV/IR AL NPT INMETRO
FS20X-211-21-6	DUAL IR/UV FLAME DETECTOR Copper-Free Aluminium Encl. with (2) ¾" NPT entries, FM, cFM for Class I, Division 1, Groups A, B, C, D; Class II, Division 1, Groups E, F, G; Class III. With En54-10 certification
FS20X-211-22-2	FS20X UV/IR SS NPT c/FM STmp
FS20X-211-22-4	FS20X UV/IR SS NPT INMETRO
FS20X-211-22-6	DUAL IR/UV FLAME DETECTOR Stainless Steel Encl. with (2) ¾"NPT entries, FM, cFM for Class I, Division 1, Groups A, B, C, D; Class II, Division 1, Groups E, F, G; Class III. With En54-10 certification
FS20X-211-23-3	DUAL IR/UV FLAME DETECTOR Copper-Free Aluminium Encl. with (2) M25 entries: FM: cFM: ATEX: IECEx for Class I: Zone 1
FS20X-211-23-4	DUAL IR/UV Detector Copper-Free Aluminum Encl. with (2) M25 entries, INMETRO
FS20X-211-24-4	DUAL IR/UV Detector 316 Stainless Steel Encl. with (2) M25 entries, INMETRO

Feedback

## Alternative Products



[FS24X Flame Detector](#)

[FS24X Flame Detector](#)

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**Honeywell**

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