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**Note**  
Specifications and exact product offering are subject to change without notice. This publication is not intended to form the basis of a contract.

# FSX Detectors

## Quick Reference Chart

	FS24X-2	FS24X-9	FS20X	FS10
SPECTRAL SENSITIVITY	Ultraviolet Band (0.18 – 0.26 $\mu$ )		✓	
	Visible Band (0.4 – 0.7 $\mu$ )	✓	✓	✓
	NearBand IR (0.7 $\mu$ – 1.1 $\mu$ )	✓	✓	✓
	WideBand IR1 (1.1 – 3 $\mu$ )	✓	✓	✓
	WideBand IR2 (1.1 – 7 $\mu$ )	✓	✓	
SENSITIVITY (feet)*	Very High	200+	200+	200+
	High	150	150	150
	Medium	100	100	100
	Low	50	50	50
RESPONSE	Fireball / Quick Response Option (< 500 mS)	✓	✓	✓
	Acetylene Long Range Option			✓
OTHER	Field of View (conical)	110°	90°	90°
	HART Option	✓	✓	✓
	Modbus Built-In	✓	✓	✓
ENCLOSURES	Aluminum Class, Div. 1	✓	✓	✓
	316 Stainless Steel Class I, Div. 1	✓	✓	✓
APPROVALS	FM	✓	✓	✓
	cFM	✓	✓	✓
	ATEX	✓	✓	✓
	IECEX	✓	✓	✓
	INMETRO	✓	✓	
	GOST-R			✓
	CCCF	✓	✓	
	SIL 2 Compliant	✓	✓	
TEST LAMPS	TL-2055X	✓	✓	✓
	TL-1055X	✓	✓	✓
	TL-1133X			✓
MOUNT	SM4	✓	✓	✓

\*Detection distance for a one sq. ft. reference heptane pan fire

# FSX Detectors

## Applications Chart

		FS24X-2	FS24X-9	FS20X	FS10
FINISHING	Aerosol Filling Facilities	●	●	●	●
	Automotive Paint Lines	○	○	○	●
	Curing Ovens	○	○	○	●
	General Finishing	○	○	○	●
	Liquid Paint Spray Line	○	○	○	●
	Paint and Solvent Storage	●	●	●	●
	Powder Coating Booths	○	○	○	●
GENERAL	Aircraft Hangars	●	●	●	○
	Airport Terminals	●	●	○	○
	Cold Storage Warehouses	●	●	○	○
	Engine Test Cells	●	●	●	○
	General Warehouse	●	●	●	○
	Lumber Storage	●	●	●	○
	Marine Engine Rooms	●	●	●	○
	Marine Terminals	●	●	●	○
	Munitions	○	○	○	○
	Power Plants	●	●	●	○
	OIL, GAS & PETROCHEMICALS	Acetylene Processing and Storage	○	○	●
Chemical Storage		●	●	●	○
Cogeneration Plants		●	●	●	○
Crude and Product Tank Farms		●	●	○	○
Ethanol Production and Storage		○	○	●	○
Gas Collection Facilities		●	●	●	○
Gas Compressor Buildings		●	●	●	○
Gas Processing Plants		●	●	●	○
Gas Turbine Enclosures		●	●	●	○
Gasoline Loading Terminals		●	●	●	○
Isopropanol (IPA) Production and Storage		○	○	●	○
LNG Storage/Distribution		○	○	●	○
LPG Storage/Distribution		●	●	●	○
Methanol Production and Storage		○	○	●	○
Natural Gas and CNG Plants		○	○	●	○
Offshore Drilling Platforms		●	●	●	○
Offshore Production Platforms		●	●	●	○
Petrochemical Plants		●	●	●	○
Petroleum Product Pipelines		●	●	●	○
Petroleum Product Pumping Stations		●	●	●	○
Rail and Truck Loading/Unloading	●	●	●	○	
Refineries	●	●	●	○	
SEMICONDUCTOR	Clean Rooms	○	○	○	○
	Gas Cabinets	○	○	○	○
	Hydrogen Gas Cabinets	○	○	○	○
	Hydrogen Plants	○	○	○	○
	Hydrogen Storage	○	○	○	○
	IPA Stations	○	○	○	○
	Silane Gas Cabinets	○	○	○	○
	Silane Gas Manufacturing	○	○	○	○
	Silane Gas Storage	○	○	○	○
	Wet Benches	○	○	○	○
	Wet Chemicals	○	○	○	○

● Recommended ○ Suitable ○ Not Recommended

# Model FS24X

QuadBand™ Triple IR Fire and Flame Detector  
(IR/IR/IR/Visible)



The Fire Sentry FS24X is the latest generation high technology Multi-Spectrum Triple IR (IR/IR/IR/Visible) Fire and Flame Detector, which is part of our FSX family of advanced technology Electro-Optical fire detectors. Using our patented\* WideBand IR™, WideBand 4.3 micron IR™, and Visible detection technology, the Fire Sentry FS24X is a quantum leap in flame and fire detection. Sophisticated software algorithms and dual microprocessors ensure that the Fire Sentry FS24X has the highest fire detection performance combined with optimal false alarm rejection.

**110° field of view with a range up to 200 ft.**

## Features

- Patented\* WideBand IR™ Technology
- Patented\* Electronic Frequency Analysis™
- Visible Sensor for optimum false alarm rejection
- Selectable detection sensitivities
- Field-of-View: 110° full 100% cone-of-vision (90° full 100% cone-of-vision model also available)
- Dual microprocessors for reliable performance
- Real-time clock for accurate time dating of events
- FirePic™ — pre-fire event data storage
- Event log with date and time stamp
- RS-485 ModBus communication
- 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 easy plug-in terminations and field installation
- Two 3/4 in. NPT OR 25 mm conduit entries
- Low power consumption
- High RFI and EMI immunity
- FM, ATEX, CE mark approvals
- Meets SIL 2 requirements

## Benefits

- Detects hydrocarbon fuel fires in all environmental conditions
- User selectable outputs
- Optimal false alarm rejection for all environmental conditions
- Minimal maintenance for trouble-free operation
- PC software and Interface Module (FSIM) for fault diagnostics, real-time graphics (RTGs), and downloading of FirePics™ and event log
- Suitable for a wide variety of applications
- Easy electronics module replacement
- Test lamps for manual testing



# Model FS24X

## QuadBand™ Triple IR Fire and Flame Detector (IR/IR/IR/Visible)

<b>FS24X-211 Series with 110° Field of View, Standard Temp Range -40° to 85°C</b>	<b>Part Number</b>
QuadBand™ IR3+ detector, copper-free aluminum encl., (2) 3/4 in. NPT entries FM and ATEX approved	FS24X-211-21-1
QuadBand™ IR3+ detector, 316 stainless steel encl., (2) 3/4 in. NPT entries FM and ATEX approved	FS24X-211-22-1
QuadBand™ IR3+ detector, copper-free aluminum encl., (2) M25 entries FM and ATEX approved	FS24X-211-23-1
QuadBand™ IR3+ detector, 316 stainless steel encl. (2) M25 entries FM and ATEX approved	FS24X-211-24-1

<b>FS24X-911 Series with 90° Field of View, Standard Temp Range -60° to 85°C</b>	<b>Part Number</b>
QuadBand™ IR3+ detector, copper-free aluminum encl., (2) 3/4 in. NPT entries FM and ATEX approved	FS24X-911-21-1
QuadBand™ IR3+ detector, 316 stainless steel encl., (2) 3/4 in. NPT entries FM and ATEX approved	FS24X-911-22-1
QuadBand™ IR3+ detector, copper-free aluminum encl., (2) M25 entries FM and ATEX approved FM and ATEX approved	FS24X-911-23-1
QuadBand™ IR3+ detector, 316 stainless steel encl. (2) 25 mm entries FM and ATEX approved	FS24X-911-24-1

<b>Replacement Detector Modules FS24X</b>	<b>Part Number</b>
211 Series standard temp range	FS24X-211-10
911 Series standard temp range	FS24X-911-10

<b>Accessories FS24X</b>	<b>Part Number</b>
Stainless steel swivel mounting assembly for FS24X, FS20X, FS10, SS4, SS2 detectors	SM4
Universal charger for Fire Sentry test lamps and interface kits. For 110-240 V <sub>AC</sub> with international plugs	PSU-12
IR test lamp for testing FSX detectors, explosion proof version. Incl universal charger	TL-2055
IR test lamp for testing FSX detectors, non-explosion proof version. Incl universal charger	TL-1055
Sunshield for SS2, SS4, FS20X, and FS24X detectors, 316 stainless steel	SH-001
Field of view restrictor	FVR-01

<b>Spare Parts FS24X</b>	<b>Part Number</b>
FSX interface kit with interface module, RS485 cable, USB cable, power adapter and Windows PC software	FSX-A001
FSX interface module with RS485 cable	FSX-A002
Stainless steel grill kit for FS18X and FS24X-2 detectors	FSX-A009
Stainless steel grill kit for FS24X-9 detectors	FSX-A010
Optional HART module for FS20X and FS24X detectors (factory installed)	FSX-A014

# Model FS20X

Multi-Spectrum Fire and Flame Detector  
(IR/IR/UV)



The Fire Sentry FS20X is the latest generation high technology Multi-Spectrum (UV/Dual IR/VIS) Fire and Flame Detector, which is part of the FSX family of advanced technology Electro-Optical Flame detectors. Based on the foundation of the highly successful and reliable Fire Sentry SS4 detector, the Fire Sentry FS20X detector represents a quantum leap in integrating Infrared and Ultraviolet sensing technologies. The Fire Sentry FS20X is a Multi-Spectrum and UV/Dual IR/VIS fire and flame detector with a proven UV solar-blind sensor. The Fire Sentry 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.

**Solar blind 90° field of view and detection range greater than 200 ft.**

## Features

- 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 3/4 in. NPT OR 25 mm 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



# Model FS20X

## Multi-Spectrum Fire and Flame Detector (IR/IR/UV)

### FS20X-211 Series, Standard Temp Range -40° to 85°C

### Part Number

Dual IR/UV copper-free aluminum encl. with (2) 3/4 in. NPT entries, FM, cFM for Class I, Div. 1, Groups A, B, C, D; Class II, Div. 1, Groups E, F, G; Class III	FS20X-211-21-2
Dual IR/UV stainless steel encl. with (2) 3/4 in. NPT entries, FM, cFM for Class I, Div. 1, Groups A, B, C, D; Class II, Div. 1, Groups E, F, G; Class III	FS20X-211-22-2
Dual IR/UV copper-free aluminum encl. with (2) M25 entries, FM, cFM, ATEX, IECEx for Class I, Zone 1	FS20X-211-23-3
Dual IR/UV stainless steel encl. with (2) M25 entries, FM, cFM, ATEX, IECEx for Class I, Zone 1	FS20X-211-24-3

### Accessories FS20X

### Part Number

Optional HART module for FS18X, FS19X, FS20X, FS24X (factory installed)	FSX-A014
Stainless steel swivel mounting assembly for FS24X, FS18X, SS4, SS2 detectors	SM4
Universal charger for Fire Sentry test lamps and interface kits. For 110-240 V <sub>AC</sub> with international plugs	PSU-12
IR test lamp for testing FS18X, FS20X and FS24X detectors, explosion proof version. Incl universal charger	TL-2055
IR test lamp for testing FS18X, FS20X and FS24X detectors, non-explosion proof version. Incl universal charger	TL-1055
Sunshield for SS2, SS4 and FS24X detectors, 316 stainless steel	SH-001
Field of view restrictor	FVR-01

### Spare parts FS20X

### Part Number

Replacement electronics module for FS20X detectors. Module only, standard temp. range	FS20X-211-10
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# SSX Detectors

## Quick Reference Chart

		SS4-A	SS4-AS	SS4-AUV	SS3-A	SS2-A	SS2-AM
SPECTRAL SENSITIVITY	Ultraviolet Band (0.18 - 0.26 $\mu$ )	✓	✓	✓	✓	✓	✓
	Visible Band (0.4 - 0.7 $\mu$ )	✓	✓		✓	✓	✓
	WideBand IR (0.7 - 3.0 $\mu$ )	✓	✓		✓	✓	✓
SENSITIVITY (in feet)*	Very High	60	60	60	30	60	60
	High	45	45	45			
	Medium	30	30	30			
	Low	15	15	15			
RESPONSE	Ultra High-Speed Response (Munitions)						✓
	Ultra High-Speed Response (Sodium Azide)						✓
	Optimized Response (H4Si, H2, Alcohols, CH4)		✓				
	Standard Response	✓		✓	✓	✓	✓
OTHER	Field of View	120°	120°	120°	120°	120°	120°
	HART Option	✓	✓	✓			
	ModBus Option	✓	✓	✓			
	4-20 mA Option	✓	✓	✓			
ENCLOSURE	Aluminum	✓	✓	✓		✓	✓
	316 Stainless Steel	✓	✓	✓		✓	✓
	ABS Plastic				✓		
APPROVALS	FM	✓	✓	✓	✓	✓	✓
	cFM	✓	✓	✓	✓	✓	✓
	ATEX	✓	✓	✓			
	IECEX	✓	✓	✓			
	INMETRO	✓					
	GOST-R	✓					
	SIL 2 Compliant	✓	✓	✓			
TEST LAMP/SOURCE	FT-2145 (Explosion Proof)	✓	✓	✓	✓	✓	✓
	DD85001 (Short Range)	✓	✓	✓	✓	✓	✓
	85001			✓			
	TS2					✓	✓
MOUNT	SM4	✓	✓	✓		✓	✓
	188424				✓		

\*Detection distance for a one sq. ft. reference heptane pan fire

# SSX Detectors

## Applications Chart

		SS4-A	SS4-AS	SS4-AUV	SS3-A	SS2-A	SS2-AM
GENERAL	Airbag Manufacturing	○	○	○	○	○	●
	Aircraft Hangars	●	●	○	○	●	○
	Airport Terminals	●	●	○	○	●	○
	Cold Storage Warehouses	●	●	●	●	●	○
	Engine Test Cells	●	●	●	●	●	○
	General Warehouse	●	●	●	●	●	○
	Lumber Storage	●	●	○	●	●	○
	Marine Engine Rooms	●	●	●	●	●	○
	Marine Terminals	●	●	○	○	●	○
	Munitions	○	○	○	○	○	●
	Power Plants	●	●	●	○	●	○
OIL, GAS & PETROCHEMICALS	Acetylene Processing and Storage	○	●	●	○	○	○
	Chemical Storage	●	●	●	○	●	○
	Cogeneration Plants	●	●	●	○	●	○
	Crude and Product Tank Farms	●	●	●	○	●	○
	Ethanol Production and Storage	○	●	●	○	○	○
	Gas Collection Facilities	●	●	●	○	●	○
	Gas Compressor Buildings	●	●	●	○	●	○
	Gas Processing Plants	●	●	●	○	●	○
	Gas Turbine Enclosures	○	●	●	○	○	○
	Gasoline Loading Terminals	●	●	●	○	●	○
	Isopropanol (IPA) Production and Storage	○	●	●	○	○	○
	LNG Storage/Distribution	○	●	●	○	○	○
	LPG Storage/Distribution	●	●	●	○	●	○
	Methanol Production and Storage	○	●	●	○	○	○
	Natural Gas and CNG Plants	○	●	●	○	○	○
	Offshore Drilling Platforms	●	●	●	○	●	○
	Offshore Production Platforms	●	●	●	○	●	○
	Petrochemical Plants	●	●	●	○	●	○
	Petroleum Product Pipelines	●	●	●	○	●	○
	Petroleum Product Pumping Stations	●	●	●	○	●	○
Rail and Truck Loading/Unloading	●	●	●	○	●	○	
Refineries	●	●	●	○	●	○	
SEMICONDUCTOR	Clean Rooms	○	○	○	●	○	○
	Gas Cabinets	○	●	○	●	○	○
	Hydrogen Gas Cabinets	○	●	○	●	○	○
	Hydrogen Plants	○	●	○	●	○	○
	Hydrogen Storage	○	●	○	●	○	○
	IPA Stations	○	●	○	●	○	○
	Silane Gas Cabinets	○	●	○	●	○	○
	Silane Gas Manufacturing	○	●	○	●	○	○
	Silane Gas Storage	○	●	○	●	○	○

● Recommended   ● Suitable   ○ Not Recommended

# SS4-A2 & AS Series

Multi-Spectrum™ Electro-Optical Digital  
Fire and Flame Detector (UV/IR)



The SS4 is a hazardous area certified flame detector for the detection of hydrocarbon (SS4-A2) and non-hydrocarbon fires (SS4-AS2). This multispectrum detector senses radiant energy in the ultraviolet (UV), visible and wideband infrared (IR) spectrum. The radiant energy from all types of flaming fires will alert the detector to their presence. The field of view is the widest in the industry with 120° field of view with a range of 60 feet. This means more hazard can be covered by each detector.

**120° field of view with range up to 60 feet.**

#### Features

- Multi-Spectrum™: senses ultraviolet, visible and Wide Band Infrared™
- Built-in test for optical “through the lens” testing
- False alarm immunity
- Detects hydrocarbon and non-hydrocarbon based fires
- Wide field-of-view and solar-blind
- Adjustable detector sensitivity
- Microprocessor based algorithms: FirePic™, Snapshot™ and Tri-Mode Plot™
- Wide temperature range of operation
- Compatible with standard approved fire alarm panels
- Explosion-proof housing
- Time programmable alarm verification

# SS4-A2 & AS Series

## Multi-Spectrum™ Electro-Optical Digital Fire and Flame Detector (UV/IR)

<b>SS4-A2 &amp; SS4-AS2</b>	<b>Part Number</b>
Aluminum UV/IR, FM, hydrocarbon fires, non latching alarm LED, FM, cFM, CSFM for Class I, Div. 1 groups B, C & D (2) 3/4 in. NPT	SS4-A2
Stainless steel UV/IR, FM, hydrocarbon fires, non latching alarm LED, FM, cFM, CSFM for Class I, Div. 1 groups B, C & D (2) 3/4 in. NPT	SS4-A2-SS
Aluminum UV/IR, ATEX, hydrocarbon fires, non latching alarm LED, FM, cFM, ATEX, IECE for Zone 1 (2) 3/4 in. NPT	SS4-A2-C
Aluminum UV/IR, ATEX, hydrocarbon fires, non latching alarm LED, FM, cFM, ATEX, IECEX for Zone 1 (2) M25	SS4-A2-C-E
Stainless steel UV/IR, ATEX, hydrocarbon fires, non latching alarm LED, FM, cFM, ATEX, IECEX for Zone 1 (2) M25	SS4-A2-CSS-E
Aluminum UV/IR, ATEX, hydrogen and non hydrocarbon fires, non latching alarm LED, FM, cFM, CSFM for Class I, Div. 1 groups B, C & D (2) M25	SS4-AS2-C-E
Stainless steel UV/IR, ATEX, hydrogen and non hydrocarbon fires, non latching alarm LED, FM, cFM, ATEX, IECEX for Zone 1 (2) M25	SS4-AS2-CSS-E
Stainless steel UV/IR, ATEX, hydrocarbon fires, non latching alarm LED, FM, cFM, ATEX, IECE for Zone 1 (2) 3/4 in. NPT	SS4-A2-CSS
Aluminum UV/IR, FM, hydrogen and Non-Hydrocarbon Fires, non-latching alarm LED, FM, cFM, CSFM for Class I, Div. 1 groups B, C & D (2) 3/4 in. NPT	SS4-AS2
Stainless steel UV/IR, FM, hydrogen and Non-Hydrocarbon Fires, non-latching alarm LED, FM, cFM, CSFM for Class I, Div. 1 groups B, C & D (2) 3/4 in. NPT	SS4-AS2-SS
Aluminum UV/IR, ATEX, hydrogen and non hydrocarbon fires, non latching alarm LED, FM, cFM, CSFM for Class I, Div. 1 groups B, C & D (2) 3/4 in. NPT	SS4-AS2-C
Stainless steel UV/IR, ATEX, hydrogen and non hydrocarbon fires, non latching alarm LED, FM, cFM, ATEX, IECEX for Zone 1 (2) 3/4 in. NPT	SS4-AS2-CSS

<b>Accessories SS4-A2 &amp; SS4-AS2</b>	<b>Part Number</b>
Stainless steel swivel mounting assembly for FS24X, FS18X and SS4 detectors	SM4
0-20 MA module for SS4 detectors new version (factory installed)	MA420-4
UV/IR test lamp with universal charger (FM and ATEX approval)	FT-2145
Interface kit for SS4 detector, with universal charger	2029-INTERFACE-KIT
Sunshield for SS2, SS4 and FS24X detectors, 316 stainless steel	SH-001
Field of view restrictor	FVR-01
SS4 module HART (factory fitted, order with detector)	SS4-FSHCOM

<b>Spare Parts SS4-A2 &amp; SS4-AS2</b>	<b>Part Number</b>
Replacement electronics module for SS4-A2 (UV/IR) detectors. Module only, non-latching LED	SS4-MOD-A2
Replacement electronics module for SS4-AS2 (UV/IR) detectors. Module only, non-latching LED	SS4-MOD-AS2
UV test source module for SS4 detectors	H200
IR test lamp bulb (FT-2145)	LAMP-3135-0002
UV test lamp bulb (FT-2145)	DT-3124-0001A

# SS4-AUV Series

## UV-Spectrum™ Electro-Optical Digital Fire and Flame Detector (UV)



While retaining all the features of the standard SS4-A2, is optimized for the detection of ethanol, methanol, hydrogen and natural gas with a range up to 60 feet range and a field of view of 120°. The UV only version, SS4-AUV2, is for indoor applications where UV sources such as welding are not present.

**120° field of view with range up to 60 feet.**

### Features

- Senses solar-blink ultraviolet band
- Built-in test for optical “through the lens” testing
- Utilizes long-life, ruggedized UV sensors
- Detects hydrocarbon and non-hydrocarbon based fires
- Wide field-of-view and solar-blind
- Adjustable detector sensitivity
- Microcomputer based algorithms: FirePic™, Snapshot™ and UV Plot
- Wide temperature range of operation
- Compatible with standard approved fire alarm panels
- Explosion-proof housing
- Time programmable alarm verification

### SS4-AUV Series

	Part Number
Aluminum UV, FM, hydrocarbon and non-hydrocarbon fires, non-latching alarm LED, FM, cFM, CSFM for C1, D1, Groups B, C, D (2) 3/4 in. NPT	SS4-AUV2
Aluminum UV, FM, ATEX, hydrocarbon and non-hydrocarbon fires, non-latching alarm LED, FM, cFM, ATEX, IECEx Zone 1 (2) M25	SS4-AUV2-C
Aluminum UV, FM, ATEX, hydrocarbon and non-hydrocarbon fires, non-latching alarm LED, FM, cFM, ATEX, IECEx Zone 1 (2) M25	SS4-AUV2-C-E
Stainless steel UV, FM, ATEX, hydrocarbon and non-hydrocarbon fires, non-latching alarm LED FM, cFM, ATEX, IECEx Zone 1 (2) M25	SS4-AUV2-CSS-E
Stainless steel UV, FM, ATEX, hydrocarbon and non-hydrocarbon fires, non-latching alarm LED FM, cFM, ATEX, IECEx Zone 1 (2) M25	SS4-AUV2-CSS
Stainless steel UV, FM hydrocarbon and non-hydrocarbon fires, non-latching alarm LED, FM, cFM, CSFM for C1, D1, Groups B, C, D (2) 3/4 in. NPT	SS4-AUV2-SS

### Accessories SS4-AUV

	Part Number
Stainless steel swivel mounting assembly for FS24X, FS18X, SS4, SS2 detectors	SM4
0-20 MA module for SS4 detectors new version (factory installed)	MA420-4
Uv/ir test lamp with universal charger (FM and ATEX approval)	FT-2145
Sunshield for SS2, SS4 and FS24X detectors, 316 stainless steel	SH-001
Field of view restrictor	FVR-01
SS4 module HART (factory fitted, order with detector)	SS4-FSHCOM

### Spare Parts SS4-AUV

	Part Number
Replacement electronics module for SS4-AUV2 (UV) detectors. Module only, non-latching LED	SS4-MOD-AUV2
UV test source module for SS4 detectors	H200
IR test lamp bulb for FT-2145/2045	LAMP-3135-0002
UV test lamp bulb for FT-2145/2045	DT-3124-0001A





# SS3 Series

## Fire and Flame Detectors for Safe Area (UV/IR)



The Model SS3-A (latching fire alarm relay) and SS3-AN (non-latching Fire Alarm relay) retain outstanding fire and flame detection capabilities in a non explosion-proof, ABS housing. This detector senses radiant energy in the ultraviolet (UV), visible and wide band infrared™ (IR) spectrum. The radiant energy from all types of flaming fires will alert the detector to their presence.

**120° field of view with range up to 30 feet.**

### Features

- Multi-Spectrum™ senses energy in the ultraviolet, Visible and Wide Band Infrared™
- False alarm immunity
- Detects hydrocarbon and non-hydrocarbon fires
- Microprocessor based algorithms: FirePic™ and Tri-Mode Plot™
- Wide field-of-view
- FS2000™ System compatible or stand alone operation
- Compatible with approved fire alarm panels

### SS3 Series

### Part Number

UV/IR general purpose, safe area use detector, latching fire relay, FM and CSFM approval

SS3-A

UV/IR general purpose, safe area use detector, non-latching fire relay, FM and CSFM approval

SS3-AN

### Accessories SS3

### Part Number

UV/IR test lamp with universal charger (FM and ATEX approval)

FT-2145

IR test lamp bulb (FT-2145)

LAMP-3135-0002

UV test lamp bulb (FT-2145)

DT-3124-0001A

# SS2-A Series

## Digital Fire and Flame Detector (UV/IR)



The SS4 is a hazardous area certified flame detector for the detection of hydrocarbon (SS4-A2) and non-hydrocarbon fires (SS4-AS2). This multispectrum detector senses radiant energy in the ultraviolet (UV), visible and wideband infrared (IR) spectrum. The radiant energy from all types of flaming fires will alert the detector to their presence. The field of view is the widest in the industry with 120° field of view with a range of 60 ft. This means more hazard can be covered by each detector.

**120° field of view with range up to 60 ft.**

### Features

- Multi-Spectrum™: senses ultraviolet, visible and Wide Band Infrared™
- Built-in test for optical “through the lens” testing
- False alarm immunity
- Detects hydrocarbon and non-hydrocarbon based fires
- Wide field-of-view and solar-blind
- Adjustable detector sensitivity
- Microprocessor based algorithms: FirePic™, Snapshot™ and Tri-Mode Plot™
- Wide temperature range of operation
- Compatible with standard approved fire alarm panels
- Explosion-proof housing
- Time programmable alarm verification

### SS2-A Series

	<b>Part Number</b>
Copper-free aluminum housing UV/IR/VIS electro-optical fire detector, latching alarm relay, Class I, Div. 1, Groups B, C, & D, FM, CSFM, and cFM approved (2) 3/4 in. NPT	SS2-A
Copper-free aluminum housing UV/IR/VIS electro-optical fire detector, latching alarm relay, ATEX approved (2) M25	SS2-A-C-E
Copper-free aluminum housing UV/IR/VIS electro-optical fire detector, non-latching alarm relay, ATEX approved (2) M25	SS2-AN-C-E
Stainless steel housing UV/IR/VIS electro-optical fire detector, latching alarm relay, ATEX approved (2) M25	SS2-A-SS-C-E
Stainless steel housing UV/IR/VIS electro-optical fire detector, non-latching alarm relay, ATEX approved (2) M25	SS2-AN-SS-C-E
Copper-free aluminum housing UV/IR/VIS electro-optical fire detector, non-latching alarm relay, Class I, Div. 1, Groups B, C, & D, FM, CSFM, and cFM approved (2) 3/4 in. NPT	SS2-AN
Stainless steel housing UV/IR/VIS electro-optical fire detector, latching alarm relay, Class I, Div. 1, Groups B, C, & D, FM, CSFM, and cFM approved (2) 3/4 in. NPT	SS2-A-SS
Stainless steel housing UV/IR/VIS electro-optical fire detector, non-latching alarm relay, Class I, Div. 1, Groups B, C, & D, FM, CSFM, and cFM approved (2) 3/4 in. NPT	SS2-AN-SS

### Accessories SS2-A

	<b>Part Number</b>
Stainless steel swivel mounting assembly for FS24X, FS18X, SS4, SS2 detectors	SM4
UV/IR test lamp with universal charger, (FM and ATEX approval)	FT-2145
Sunshield for SS2, SS4 and FS24X detectors, 316 stainless steel	SH-001
Field of view restrictor	FVR-01

### Spare Parts SS2-A

	<b>Part Number</b>
SS2-A replacement electronics module	SS2-MOD-A
SS2-AN replacement electronics module	SS2-MOD-AN
IR test lamp bulb (FT-2145)	LAMP-3135-0002
UV test lamp bulb (FT-2145)	DT-3124-0001A



# SS2-AM Series

## Ultra-High Speed Digital Fire and Flame Detector (UV/IR)



The Model SS2-AM, (latching Fire Alarm relay), and SS2-AML (non-latching Fire Alarm relay), represent the world's pre-eminent Ultra-High Speed UV/IR technology for Electro-Optical Fire and Flame Detectors, with thousands successfully operating in a multitude of installations worldwide. This detector senses radiant energy in the Ultraviolet (UV), Visible and Wide Band Infrared (IR) spectrum. The radiant energy from all types of flaming fires will alert the detector to their presence.

**120° field of view with range up to 60 feet.**

### Features

- Multi-Spectrum senses energy in the UV, Vis and WideBand IR™
- False alarm immunity
- Detects hydrocarbon and non-hydrocarbon fires
- Microprocessor based algorithms: FirePic™ and Tri-Mode Plot™
- Wide field of view and solar blind
- Wide temperature range of operation
- Explosion-proof housing
- FS2000™ System compatible or stand-alone operation
- Compatible with approved fire alarm panels

### SS2-AM Series

### Part Number

Copper-free aluminum housing UV/IR/VIS high-speed electro-optical fire detector, non-latching alarm relay, ALARM and FAULT relays, Class I, Div. 1, Groups B, C, & D, FM, CSFM, and cFM approved, 3/4 in. NPT

SS2-AM

Copper-free aluminum housing UV/IR/VIS high-speed electro-optical fire detector, latching alarm relay, ALARM and FAULT relays, Class I, Div. 1, Groups B, C, & D, FM, CSFM, and cFM approved, 3/4 in. NPT

SS2-AML

### Accessories SS2-AM

### Part Number

Stainless steel swivel mounting assembly for FS24X, FS18X, SS4, SS2 detectors

SM4

UV/IR test Lamp with universal charger, (FM and ATEX approval)

FT-2145

Sunshield for SS2, SS4 and FS24X detectors, 316 stainless steel

SH-001

Field of View Restrictor

FVR-01

### Spare Parts SS2-AM

### Part Number

SS2-AM replacement electronics module

SS2-MOD-AM

SS2-AML replacement electronics module

SS2-MOD-AML

Replacement housing copper-free aluminum base and top (white)

HA-SS2

IR test lamp bulb (FT-2145)

LAMP-3135-0002

UV test lamp bulb (FT-2145)

DT-3124-0001A

# Model FS7

## Multi-Spectral Infrared and Visible Electro-Optical Fire Detectors



The Fire Sentry FS7-2173 electro-optical radiant energy fire detector – and the Fire Sentry FS7-2173-2RP (unitized model) with multi-spectral WideBand IR™, Near Band IR and Visible Band fire detection are designed specifically for semiconductor Clean Room fire protection applications.

The Fire Sentry FS7 fire detector provides an intelligent two-stage response to semiconductor wet bench fires:

Stage 1: Alert. This is the first-stage response to a small fire with a heat energy output of 3 kW (the equivalent of a 4-inch diameter polypropylene pool fire). This allows time for the fire to self-extinguish.

Stage 2: Alarm. If the fire does not self-extinguish, and grows to the Factory Mutual specified heat energy threshold of 13 kW (the equivalent of an 8-inch diameter polypropylene pool fire), the second-stage response is activated.

### Features

- Multi-Spectral digital electro-optical radiant energy infrared fire detector
- Unique two-stage fire detection response
- Immune to false alarm sources
- Not affected by absorbing smoke, gasses or chemical vapors
- Not sensitive to background radiant energy from electric heaters and ovens
- Detects hydrocarbon and non-hydrocarbon fires
- Rugged leak-proof, heat-sealed, acid-resistant, injection-molded polypropylene housing
- Wide 120° field-of-view
- Digital communication with RS-485 interface
- FirePic™; time and date-stamped digital fire signatures
- Built-in detector automatic self test
- Unitized model design for stand-alone operation

# Model FS7

## Multi-Spectral Infrared and Visible Electro-Optical Fire Detectors

<b>FS7 Detectors</b>	<b>Part Number</b>
Viton O-ring. For use with FS7-130-SX controller, FSWB control panel or S7-2175 control panel.	FS7-2173
Kal-rez O-ring. For use with FS7-130-SX controller, FSWB control panel or S7-2175 control panel.	FS7-2173-KALO
Non-latching alert and alarm relays. Viton O-ring.	FS7-2173-2RP
Non-latching alert and alarm relays. Kal-rez O-ring.	FS7-2173-2RP-K

<b>FS7 Controller Systems</b>	<b>Part Number</b>
Multi-zone compact controller, designed to be installed in fire panels, which monitors up to 12 Model FS7-2173 fire detectors. Programmable for up to 4 zones with relay outputs for ALERT and ALARM. Requires 24 Vdc. Approvals: FM & CSFM	FS7-130-SX
Single zone control panel which monitors up to 7 Model FS7-2173 fire detectors. Fire detectors plug directly into the control panel, which has a 24 hour battery back-up. Control panel has inputs for manual call stations, linear heat detectors, smoke detector and gas detectors. Outputs for suppression release for pulsed type solenoids and alarm annunciators. Requires 110 VAc. Approvals: FM	FSWB-1
Single zone control panel which monitors up to 7 Model FS7-2173 fire detectors. Fire detectors plug directly into the control panel, which has a 24 hour battery back-up. Control panel has inputs for manual call stations, linear heat detectors, smoke detector and gas detectors. Outputs for suppression release for pulsed type solenoids and alarm annunciators. Requires 24 Vdc. Approvals: FM	FSWB-3

<b>Accessories</b>	<b>Part Number</b>
Test Lamp. Battery operated for testing FS7 Fire Detectors up to 10 ft. distance.	FS-746-B
Test Lamp. Battery operated for testing FS7 Fire Detectors up to 2 ft. distance.	FT-S7
Junction box for connecting Model FS7-2173 fire detectors in a daisy chain or star configuration. Complete with (4) Lemo female connectors. Required for Model FS7-130-SX controller and Model S7-2175 control panel. Optional for other control panel applications.	FS7-2179
Polypropylene swivel mount. Allows fire detector to be pointed in any direction.	SM17
UV test lamp bulb (FT-2145)	DT-3124-0001A

<b>FS7 - Interconnecting Cables</b>	<b>Part Number</b>
5 ft. cable with male/male Lemo connectors (junction box to junction box)	CBMM-5
10 ft. cable with male/male Lemo connectors (junction box to junction box)	CBMM-10
20 ft. cable with male Lemo connector/open pigtail (junction box to Model FS7-130-SX controller or Model S7-2175 control panel)	CBMO-20
50 ft. cable with male Lemo connector/open pigtail (junction box to Model FS7-130-SX controller or Model S7-2175 control panel)	CBMO-50

<b>Spare Parts</b>	<b>Part Number</b>
Replacement PC board for FSWB controller	FSWB-MOD-4
110/220 VAc, 50-60 HZ input /15 Vdc output: universal charger for interface Box or DD Series, FT Series and TL Series test lamps	PSU-12

# FS10 Fire Detection Systems

## For Liquid and Powder Electrostatic Paint Booths



A high-speed microprocessor based fire detection and process control system specially designed for liquid and powder coating applications, the Fire Sentry FS System 10 quickly detects the presence of a flame, reacts by initiating a shutdown of the electrostatic finishing process in a matter of milliseconds; and effectively interrupts the fire before residues and wet paint films can ignite.

The Fire Sentry FS System 10 is the only system that provides a two-stage response: an ALERT for spray gun "fireball" type fires and if the fire continues, a FIRE ALARM is declared in 4-5 seconds.

**90° field of view and detection range of 15 ft.**

### Features

- Multi-Spectral digital electro-optical infrared fire detector
- Meets requirements of NFPA 33
- Unique two-stage ALERT and FIRE ALARM response
- Immune to false alarms caused by arcs or corona discharges
- Built-in automatic "through the lens" self-test
- Not sensitive to background radiant energy sources such as paint heaters
- Not affected by absorbing smoke or paint solvent mist in liquid pant spray booths
- Sees through paint, powder or oil residue on detector's lens
- Digital communications with RS-485 interface
- FirePic™: retrieval of recorded pre-fire data
- SnapShot™: dynamic graphical display of what the detector sees

### Wall Mount Controllers with FS10 Electro-Optical Fire Detector(s)

FS10 wall mount controller with fire detector(s) and 50 ft. of cable for each fire detector. Incl PC software, RS232 cable and manual. Meets NFPA 33

	<b>Part Number</b>
2 Fire Detectors 120 V <sub>AC</sub>	Option-1-GF
2 Fire Detectors 220 V <sub>AC</sub>	Option-1-240-GF
1 Fire Detector 120 V <sub>AC</sub>	Option-1S-120-GF
1 Fire Detector 220 V <sub>AC</sub>	Option-1S-240-GF

### Card Controller with FS10 Electro-Optical Fire Detector

FS10 fire detector with card controller. Incl PC software and manual.

*Note: Requires backplane card and 24 V<sub>DC</sub>.*

	<b>Part Number</b>
2FL system: liquid paint spray line applications w / two (2) fire signal relay levels	Option-2FL
2GF system: general finishing applications w/process control and fire alarm signal relays	Option-2GF
2WE system: powder coating and paint spray line applications w / two (2) fire signal relay levels	Option-2WE
2WL system: paint spray line applications w/three (3) fire signal relay levels	Option-2WL
Backplane for 1 card controller	BP-1
Backplane for 2 card controllers	BP-2
Backplane for 4 card controllers	BP-4



# FS10 Fire Detection Systems

## For Liquid and Powder Electrostatic Paint Booths

<b>Spare Parts - FS10 Wall Mount Controller and Card Controller</b>	<b>Part Number</b>
Model FS10 wall mount controller. Specify if for (1) or (2) detectors	FS10-CONT
Model FS10 wall mount controller. For (1) detector	FS10-CTL-1S
Model FS10 wall mount controller. For (2) detectors	FS10-CTL-2
Replacement electronic PC board for FS10 wall mount controller for 1 detector	FS10-MOD-CTL-1
Replacement electronic PC board for FS10 wall mount controller for 2 detectors	FS10-MOD-CTL-2
Replacement keypad for FS10 wallmount	SW-5143-001
FS10 card controller, XX = version, i.e., GF	FS10-CARD-2XX
Model FS10 fire detector for use with wall mount controller or card controller	FS10-DETECTOR
Replacement electronics module for fire detector for the above systems <i>Note: State serial number of module to be replaced at time of order</i>	FS10-DET-MODULE

<b>Detector Cables</b>	<b>Part Number</b>
Fire detector cable available in 10 ft. increments. (XX = specify length in feet)	CAB-XX
50 ft. card controller cable. Connects fire detector to controller	CAB-50
100 ft. card controller cable. Connects fire detector to controller	CAB-100

### **FS10 Stand Alone (Unitized) Electro-Optical Fire Detectors**

Includes ALARM and FAULT relays. 24 Vdc input. Temperature range (-40°C to +85°C). Approvals: FM, cFM, CSFM for Class I, Div. 2, Groups B, C, & D.

	<b>Part Number</b>
Copper-free aluminum housing incl ALERT / FIRE EARLY WARNING relay, 30 ft. sensitivity (latching alert and alarm relays)	FS10-R30
316 stainless steel housing incl ALERT / FIRE EARLY WARNING relay, 30 ft. sensitivity (latching alert and alarm relays)	FS10-R30-SS
Copper-free aluminum housing 45 ft. sensitivity (latching alarm relays)	FS10-R45
316 stainless steel housing 45 ft. sensitivity (latching alarm relays)	FS10-R45-SS
Copper-free aluminum housing incl ALERT / FIRE EARLY WARNING relay, 30 ft. sensitivity (non-latching alert and alarm relays)	FS10-RN30
316 stainless steel housing incl ALERT / FIRE EARLY WARNING relay, 30 ft. sensitivity (non-latching alert and alarm relays)	FS10-RN30-SS
Copper-free aluminum hsg 45 ft. sensitivity (non-latching alarm relays)	FS10-RN45
316 Stainless steel housing 45 ft. sensitivity (non-latching alarm relays)	FS10-RN45-SS

# FS10 Fire Detection Systems (continued)

<b>Spare Parts - FS10 Stand Alone (Unitized) Electro-Optical Fire Detectors</b>	<b>Part Number</b>
Replacement electronics module for Model FS10-R30 stand alone fire detector (latching alert and alarm relays)	FS10-R30-MOD
Replacement electronics module for Model FS10-R45 stand alone fire detector (latching alarm relay)	FS10-R45-MOD
Replacement electronics module for Model FS10-RN30 stand alone fire detector (non-latching alert and alarm relays)	FS10-RN30-MOD
Replacement electronics module for Model FS10-RN45 stand alone fire detector (non-latching alarm relay)	FS10-RN45-MOD

<b>Spare Parts - FS10 Stand Alone (Unitized) Electro-Optical Fire Detectors</b>	<b>Part Number</b>
Stainless steel grill kit for FS10-R and FS10-CS detectors (Killark housing) kit includes: (1) SS grill, (2) SS brackets, and (2) SS screws	FS10R-GR-KIT
RS485 computer cable for connection from fire detector to interface box	FS10R-CABLE-DET
Interface kit, complete with interface box, cables, 100-240 V <sub>AC</sub> / 12 V <sub>DC</sub> universal charger and software. Used for interrogating the FS10R/A fire detector	FS10R-IK
Interface box used for interrogating FS7-2173-2RP/FS10R fire detectors (includes universal charger)	PCI-24
RS232 computer cable for connection from FS7-130-SX, S7-2175, option-1 or option-2 controllers or interface box to PC	RS-232 CABLE
PC software (Windows version) for FS10 stand alone interface box	W-FS10R-SW
110/220 V <sub>AC</sub> , 50-60 HZ input /15 V <sub>DC</sub> output : universal charger for interface box or DD Series, FT Series and TL Series test lamps	PSU-12

<b>Accessories - FS10 Stand Alone (Unitized) and Controller Based Electro-Optical Fire Detectors</b>	<b>Part Number</b>
Stainless steel swivel mount allows detector to be pointed in any direction	SM4
Test lamp battery operated for testing FS10 fire detectors up to 10 ft.	FS-846-B
Disposable protective covers keeps powder or paint off the window lens of the FS10 fire detector (12 per bag)	DPC-12
Air shield for powder applications protects FS10 fire detector window lens from powder build-up. Supplied with fitting for 1/4 in. tubing	DASA1-P
Air shield for powder applications protects FS10 Fire Detector window lens from powder build-up. Supplied with fitting for 6 mm tubing	DASA6-N
Key for wall-mount controller panel	HD-CTL-KEY
Field of view restrictor	FVR-01

# Honeywell Analytics Service



Honeywell Analytics' global standing for portable, fixed and low level toxic gas detection is backed up with a dedicated team of professionals that takes service and support to a whole new level.

It's your choice...

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It's your business. It's your industry.

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#### **Honeywell Analytics Service contact information:**

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# Honeywell Analytics Lines of Business



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Single or multi-gas and other premium detectors with compact, lightweight designs ranging from simple alarm only units to advanced, fully configurable and serviceable instruments

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### Find out more

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A complete portfolio of gas and chemical detection instrumentation including infrared spectroscopy (MST) with no cross interference, to Chemcassette paper-based solutions (MDA Scientific) offering detection down to parts per billion

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