

THE BEST FLAME DETECTION PERFORMANCE, WITH OPTIMUM FALSE ALARM REJECTION.

The FS20X and FS24X are next-generation fire and flame detectors.

The dual microprocessor ensures a high level of fail-safe operation. Combined with fast and reliable performance, they provide efficient flame detection, while delivering optimum false alarm rejection.

The hallmark of the FSX detectors is the patented data extraction and storage process, FirePic™. FirePic™ records pre-fire data which can be retrieved from the detector's non-volatile flash memory for post-fire analysis and investigation into the origins of a fire.



BENEFITS OF THE FS24X:

The FS24X detects hydrocarbon and non-hydrocarbon fuel fires in all weather conditions. If the detector's signal is blocked by ordinary window glass, the patented WideBand IR sensors will still trigger the fire alarms, albeit at a reduced sensitivity and slower response time.

The detector has a detection range of over 60m capable of catching a 0.1m² heptane reference fire. Its cone of vision is far greater in terms of volumetric coverage than any other multi-spectrum IR detector.

BENEFITS OF THE FS20X:

The FS20X is a multi-spectrum (UV/Dual IR/VIS) fire and flame detector, with a proven UV solar-blind sensor. The FS20X reacts more quickly to false alarms, over a wider temperature range and with a much longer detection range compared to conventional UV/IR detectors.

The FS20X detector has been designed to alarm to all types of fires in all industrial environments. If the detector's UV signal is degraded due to heavy smoke or a contaminated lens, the FS20X's patented WideBand IR™, Near Band IR and Visible sensors will still trigger the fire alarm, albeit at a reduced sensitivity and slower response time.

ACCESSORIES



SUNSHIELD

for SS2, SS4, FS24X and FS20X detectors, 316 Stainless Steel.



STAINLESS STEEL SWIVEL MOUNTING ASSEMBLY

for FS24X, FS20X, SS4, SS2 detectors.

	Fire Sentry FS20X Multi-Spectrum IR & UV/Dual IR/VIS Flame Detector	Fire Sentry FS24X Multi-Spectrum QuadBand™ Triple IR Flame Detector
Field of View	90° Full 100% Cone of vision, ± 45° from on axis	90° Cone of vision, ± 45° from on axis OR 110° Cone of vision, ± 55° from on axis
Sensitivity	Very High, High, Medium and Low – Switch Selectable	Very High (200 ft.), High (150 ft.), Medium (100 ft.) and Low (50 ft.) Switch Selectable
Response Time	3-5 Seconds to 1 sq. ft. n-Heptane fire at 100 ft. 3-10 Seconds to 1 sq. ft. n-Heptane fire at 200 ft.	3-5 Seconds to 1 sq. ft. n-Heptane fire at 100 ft. 3-10 Seconds to 1 sq. ft. n-Heptane fire at 200 ft.
Spectral Sensitivity	Ultraviolet: 185 - 260 nanometers Visible: 400 - 700 nanometers Near Band IR: 0.7 - 1.1 microns Wide Band IR: 1.1 - 3.5 microns	Visible: 400 - 700 nanometers Near Band IR: 0.7 - 1.1 microns Wide Band IR: 1.1 - 3 microns Wide Band IR: 3.0 - 5.0 microns
Operating Voltage	24 VDC nominal (18-32 VDC) - Regulated	24 VDC nominal (18-32 VDC) - Regulated
Power Consumption	Operating: 83 mA @ 24 VDC nominal	Operating: 56 mA @ 24 VDC nominal Alarm: 106 mA @ 24 VDC nominal Heater: 155 mA - additional Note: Heater will turn on at 0°F (-17°C)
Alarm	133 mA @ 24 VDC nominal	56 mA @ 24 VDC nominal
Heater	155 mA - additional Note: Heater will turn on at 0°F (-17°C)	155 mA - additional Note: Heater will turn on at 0°F (-17°C)
Output Relays	Fire Alarm: SPDT (NO / NC) - De-Energized/Energized, Latching/Non-Latching Fault: SPST (NO) - Normally Energized, Latching/Non-Latching Auxiliary: SPDT (NO / NC) - De-Energized/Energized, Latching/Non-Latching Contacts rating: 1 amp @ 24 VDC	
Analog Output	0 - 20 mA stepped - Source or Sink User Selectable	0 - 20 mA stepped - Source or Sink User Selectable
Loop resistance	50 - 400 Ohms	50 - 400 Ohms
Communication	One of the following - User Selectable: · RS-485, ModBus Protocol · RS-485, FireBus II · RS-485 Special (optional) · HART, Optional plug-in module	One of the following - User Selectable: · RS-485, ModBus Protocol · RS-485, FireBus II · HART (not available with EN54-10 models), Optional plug-in module
Visual Indications	Blue LED: Power Red LED: Alarm Yellow LED: Fault	
Temperature Range	Operating: -40 to +185°F (-40 to +85°C) Storage: -67 to +230°F (-55 to +110°C)	Operating: 110° Field of View FS24X: -40 to +185°F (-40 to +85°C) 90° Field of View FS24X: -76 to +185°F (-60 to +85°C) Storage: -67 to +230°F (-55 to +110°C)
Humidity Range	5 to 98% relative humidity, non-condensing	
Vibration	Meets or exceeds MilSpec 810C Method 514.2, Curve AW12	
Wiring	14 AWG (2.5mm ²) to 22 AWG (0.326mm ²); Shielded Cable Recommended	
Conduit Entries	Standard: Two 3/4" NPT or two M25	
Enclosure Materials	Copper-Free Powder Coated Aluminum or 316 Stainless Steel	
Enclosure Type	NEMA 4 & 4X, IP66	
Certifications	FM: Class I, Div. 1 & 2, Groups B, C, & D; Class II, Div. 1 & 2, Groups E, F, & G; Class III ATEX: II 2 G D; Ex d IIC T4 (Ta: -40 to +110°C), T5 (Ta: -40 to +75°C), T6 (Ta: -40 to +60°C) CE: Complies with EN6100-6-4 & EN50130-4	FM: Class I, Div. 1, Groups A, B, C, & D; Class II/III, Div. 1, Groups E, F, & G ATEX: II 2 G Ex db IIC T (see description; dependent on T code), II 2 D Ex tb IIC T135°C 110° Field of View FS24X: T4 (Ta: -40 to +110°C), T5 (Ta: -40 to +75°C), T6 (Ta: -60 to +60°C) 90° Field of View FS24X: T4 (Ta: -60 to +110°C), T5 (Ta: -60 to +75°C), T6 (Ta: -60 to +60°C) CE: Complies with EN6100-6-4 & EN50130-4 SIL Rating: FMEDA is available upon request IECEx, Inmetro, GOST
Shipping Weight	Aluminum: 3.6 lbs (1.6 kg) Stainless Steel: 7 lbs (3.2 kg)	
Mounting	Swivel Bracket Assembly - Optional	
Warranty	Three years from date of shipping	