



Fire Sentry FS24X SPECIFICATIONS

Multi-Spectrum QuadBand™ Triple IR Flame Detector

General Specifications	
Field of View	90° Cone of vision, ± 45° from on axis OR 110° Cone of vision, ± 55° from on axis
Sensitivity	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.
Spectral Sensitivity	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
Power Consumption	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)
Output Relays	Fire Alarm: SPDT (NO / NC) – De-energised/energized, Latching/Non-Latching Fault: SPST (NO) – De-energised/energized, Latching/Non-Latching Auxiliary: SPDT (NO / NC) – De-energised/energized, Latching/Non-Latching Contacts rating: 1 amp @ 24 VDC
Analog Output	0 - 20 mA stepped - Source or Sink User Selectable
Loop resistance	50 - 400 Ohms
Communication	One of the following – User Selectable: <ul style="list-style-type: none"> • RS-485, ModBus Protocol • RS-485, FireBus II • HART (not available with EN54-10 models), Optional plug-in module
Visual Indications	Green LED: Power Red LED: Alarm Yellow LED: Fault
Temperature Range	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 ¾" 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, 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 IIIC 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

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Please Note:

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General Dimensions
Side and Back Views
(All Dimensions in Inches)

