



## Fire Sentry FS24X SPECIFICATIONS

### Multi-Spectrum QuadBand™ Triple IR Flame Detector

General Specifications	
<b>Field of View</b>	90° Full 100% Cone of vision, ± 45° from on axis OR 110° Full 100% Cone of vision, ± 55° from on axis
<b>Sensitivity</b>	Very High, High, Medium and Low – Switch Selectable
<b>Response Time</b>	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.
<b>Spectral Sensitivity</b>	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
<b>Operating Voltage</b>	24 VDC nominal (18-32 VDC) - Regulated
<b>Power Consumption</b>	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)
<b>Output Relays</b>	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
<b>Analog Output</b>	0 - 20 mA stepped - Source or Sink User Selectable
<b>Loop resistance</b>	50 - 400 Ohms
<b>Communication</b>	One of the following – User Selectable: <ul style="list-style-type: none"> <li>• RS-485, ModBus Protocol</li> <li>• RS-485, FireBus II</li> <li>• HART, Optional plug-in module</li> </ul>
<b>Visual Indications</b>	Green LED: Power Red LED: Alarm Yellow LED: Fault
<b>Temperature Range</b>	<b>Operating:</b> 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) <b>Storage:</b> -67 to +230°F (-55 to +110°C)
<b>Humidity Range</b>	5 to 98% relative humidity, non-condensing
<b>Vibration</b>	Meets or exceeds MilSpec 810C Method 514.2, Curve AW12
<b>Wiring</b>	14 AWG (2.5mm <sup>2</sup> ) to 22 AWG (0.326mm <sup>2</sup> ); Shielded Cable Recommended
<b>Conduit Entries</b>	Standard: Two ¾" NPT or two M25
<b>Enclosure Materials</b>	Copper-Free Powder Coated Aluminum or 316 Stainless Steel
<b>Enclosure Type</b>	NEMA 4 & 4X, IP66
<b>Certifications</b>	<b>FM:</b> Class I, Div. 1 & 2, Groups B, C, & D; Class II, Div. 1 & 2, Groups E, F, & G; Class III <b>ATEX:</b> 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) <b>CE:</b> Complies with EN6100-6-4 & EN50130-4 <b>SIL Rating:</b> FMEDA is available upon request
<b>Shipping Weight</b>	Aluminum: 3.6 lbs (1.6 kg) Stainless Steel: 7 lbs (3.2 kg)
<b>Mounting</b>	Swivel Bracket Assembly - Optional
<b>Warranty</b>	Three years from date of shipping

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

