

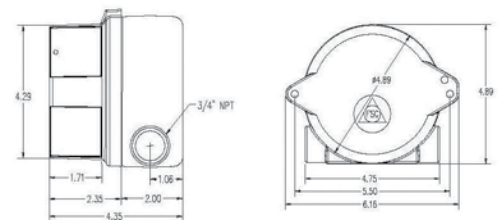
## Fire Sentry FS24X SPECIFICATIONS



### 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>	Blue 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 D; Ex d IIC 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)



**Please Note:**

While every effort has been made to ensure accuracy in this publication, no responsibility can be accepted for errors or omissions. Data may change, as well as legislation, and you are strongly advised to obtain copies of the most recently issued regulations, standards, and guidelines. This publication is not intended to form the basis of a contract.



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.