

Fire Sentry FS20X SPECIFICATIONS



Multi-Spectrum IR & UV/Dual IR/VIS Flame Detector

| General Specifications | |
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| Field of View | 90° Full 100% Cone of vision, ± 45° from on axis |
| Sensitivity | Very High, High, Medium and Low – 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 | Ultraviolet: 185 - 260 nanometers Visible: 400 – 700 nanometers Near Band IR: 0.7 – 1.1 microns Wide Band IR: 1.1 – 3.5 microns |
| Operating Voltage | 24 VDC nominal (18-32 VDC) - Regulated |
| Power Consumption | Operating: 83 mA @ 24 VDC nominal |
| Alarm | 133 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-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 |
| 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 • RS-485 Special (optional) • HART, 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) |
| 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 |
| 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)

