

Fire Sentry FS20X SPECIFICATIONS



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

General Specifications	
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

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

