

FD Series Flame Detector SPECIFICATIONS

UV/IR

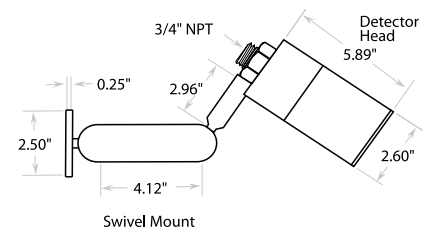


UV/IR Standard Specifications

Operating Voltage Range	10 to 32 Vdc
Power Consumption	A Version: Nominal 35 mA / 0.84 W Maximum 65 mA / 1.6W (at 24 Vdc) Nominal 78 mA / 1.88 W Maximum 112 mA / 2.7W (with heater) AR Version: Nominal 52 mA / 1.25 W Maximum 84 mA / 2.02W (at 24 Vdc) Nominal 98 mA / 2.35 W Maximum 130 mA / 3.12W (with heater) H Version: Nominal 71 mA / 1.7 W Maximum 173 mA / 3.36W (at 24 Vdc) Nominal 106 mA / 2.22 W Maximum 223 mA / 5.36W (with heater)
Temperature Range	Certified -40°C to +75°C (-40°F to +167°F); Operational -50°C to +75°C (-58°F to +167°F)
Field of View	120° horizontal / 95° vertical @ 50% of maximum on axis distance
Spectral Range	UV Radiation 185 to 260 nanometres (1850 to 2600 angstroms) IR Radiation in the 4.4 micron range
Time Delay	DIP switch selectable to 0, 3, 5, 7 seconds
Sensitivity Settings	DIP switch selectable to 8, 16, 24 or 32 counts per second
Typical Response Time	<6 seconds depending on fuel source, fire size and distance
Enclosure Material	Anodized, copper-free aluminum (optional stainless steel) factory sealed housing
Humidity Range	0 to 95% RH, non-condensing
Weight (with swivel)	2.1 kg / 4.5 lb. (stainless steel option 3.4 kg / 7.5 lb.)
Outputs	A Version: 0 to 20 mA - Into a maximum loop impedance of 800 Ohms at 32 V dc or 150 Ohms at 11.0 Vdc; Non-isolated loop supply AR Version: Form C contacts rated 1 Amp at 30 Vdc, 0.5 Amp at 125 Vac; Selectable energized/de-energized, latching/non-latching fire relay Fault relay factory set as energized/non-latching, cannot be modified H Version: HART Communication Protocol
Certifications	CSA: Class I, Division 1, Groups B, C and D - Temperature code T5 - CANADA: Class 1, Zone 1, Ex d IIB + H2 T5 ANSI/UL: Class I, Division 1, Groups B, C and D - Temperature code T5 - UNITED STATES: Class 1, Zone 1, AEx d IIB + H2 T5 ATEX: II 2 G Ex d II B+H2 T5; INMETRO: BR-Ex d II B+H2 T5 Factory Mutual (FM) 3260: Performance Certification; SIL2; NEMA Type 4X; IP66: Enclosure ratings

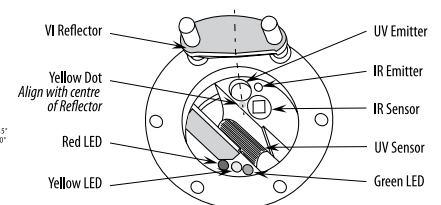
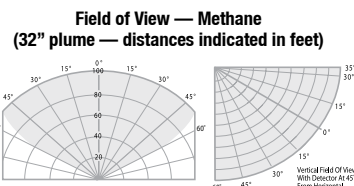
Summary of Distances

Fuel	Fire Size	Typical Response
n-heptane	1 ft. x 1 ft.	< 11sec @ 140 ft.
gasoline	1 ft. x 1 ft.	< 6sec @ 120 ft.
methane	30 in. plume	< 6sec @ 100 ft.



Immunity False Alarm Stimuli

Stimuli	Immunity Range
Direct/indirect sunlight	Total
1500W heater	10 ft.
Halogen, incandescent light	3 ft.
Florescent light	10 ft.
Arc welding (unmodulated)	10 ft.
Lightning	Total



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