

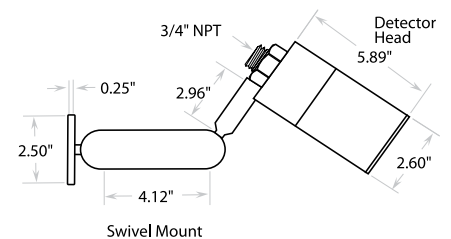
FD Series Flame Detector SPECIFICATIONS

Single UV

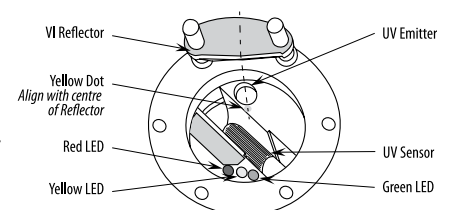
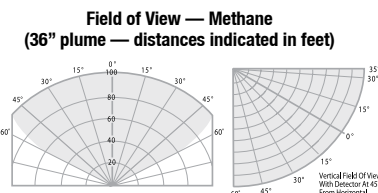


Standard Specifications for "S" Series Ultraviolet Flame Detection	
Operating Voltage Range	10 to 32 V _{DC}
Power Consumption (at 24 V_{DC})	A Version: Nominal 32 mA / 0.768 W Maximum 64 mA / 1.54W AR Version: Nominal 51 mA / 1.23 W Maximum 82 mA / 1.97W H Version: Nom 71 mA / 1.7 W Max 173 mA / 3.36 W
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 View	120° horizontal / 95° vertical
Spectral Range	UV Radiation 185 to 260 nanometres (1850 to 2600 angstroms)
Time Delay	DIP switch selectable to 3, 4, 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	Yellow powdercoat with clear anodizing, 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 V _{DC} Non-isolated loop supply AR Version: Form C contacts rated 1 Amp at 30 V _{AC} , 0.5 Amp at 125 V _{AC} 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: Ex II 2 G Ex d II B+H2 T5; INMETRO: BR-Ex d II B+H2 T5 Factory Mutual (FM) 3260: Performance Certification; NEMA Type 4X; IP66: Enclosure ratings
Warranty	3 years for electronics 2 years for sensors

Summary of Distances		
Fuel	Fire Size	Typical Response
n-heptane	1 ft. x 1 ft.	< 8.5sec @ 150 ft.
gasoline	1 ft. x 1 ft.	< 3sec @ 120 ft.
methane	36 in. plume	< 3sec @ 120 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.



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