



The FD Series UV/IR reacts to both UV and IR flame radiation, delivering accurate and reliable fire monitoring

FD Series UV/IR







Reliable Operation

- 120° field of view
- Two radiation wavelengths necessary for alarm— minimize false alarm events from lightning, welding, sunlight and radiation
- Manual and automatic testing of optical surfaces— monitors internal electronics
- Operating Range of -50°C to +75°C
- 3 year electronics and 2 year sensor warranty

Easy to Use

- Compact and lightweight for ease of installation
- · Fully adjustable swivel mount is included
- User-defined sensitivity and time delay settings
- Built-in testing routines ensure continuous operation

Durable Housing

- Rugged, explosion-proof housing
- Stainless steel option ideal for harsh environments

Versatile Design

 Stand-alone operation or can be connected to a variety of control devices to create a dependable fire monitoring system The protection you need and trust. Protect your site and personnel with the FD Series UV/IR flame detector. Two spectrums of radiation must be recognized and confirmed by precisely tuned sensors for the detector to initiate a fire condition, which vastly reduces false alarms.



The detector reacts to both UV and IR flame radiation delivering accurate and reliable fire monitoring, yet is immune to arc welding, hot body radiation, lightning or sunlight.

Enclosed in a rugged, explosion-proof housing, the FD Series UV/IR uses the latest in modular microprocessor and UV/IR sensor technology. Capable of stand-alone operation or can be connected to a variety of control devices to create a dependable fire monitoring system. User-defined sensitivity and time delay settings combine with built-in testing routines to ensure continuous, reliable operation.

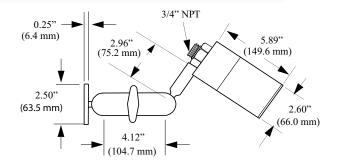
General Specifications

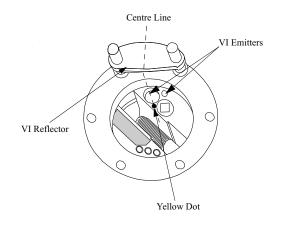


Standard Specifications		
Operating Voltage Range	10 to 32 Voc	
Power Consumption	A Version: Nominal 35 mA / 0.84 W Maximum 65 mA / 1.6W (at 24 Vpc) Nominal 78 mA / 1.88 W Maximum 112 mA / 2.7W (with heater) AR Version: Nominal 52 mA / 1.25 W Maximum 84 mA / 2.02W (at 24 Vpc) Nominal 98 mA / 2.35 W Maximum 130 mA / 3.12W (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 Vbc Non-isolated loop supply AR Version: Form C contacts rated 1 Amp at 30 Vbc, 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	
Certifications	CSA and NRTL/C certified for hazardous locations. Class I, Division 1, Groups B, C and D. Temperature code T5 Enclosure type NEMA 4X, IP67. Ex d II B+H2 T5 (Class I, Zone 1, Grp II B+H2 T5) For Canada only: CSA certified for hazardous locations. Class I, Division 1, Groups B, C and D. Temperature code T5 Enclosure type NEMA 4X. Ex d II B+H2 T5. CE Ex II 2 G, Ex d II B+H2 T5 Factory Mutual (FM) flame detector performance certification FM3260	

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		





Honeywell Analytics Lines of Business







Commercial

Vulcain-brand gas detection from standalone units to fully engineered, multipoint systems, all offering cost-effective regulatory compliance

» Applications: parking structures, chillers, mechanical rooms, office towers, commercial buildings, shopping centers, swimming pools, golf courses, schools and universities, laboratories

Industrial

Renowned Sieger and Manning gas detection systems with advanced electrochemical, infrared and open path sensing technologies

» Applications: oil and gas, cold storage, water/wastewater treatment, chemicals, engine rooms, plastics and fibers, agriculture, printing and light industrial

Portables

Single or multi-gas Lumidor and other premium detectors with compact, lightweight designs ranging from simple alarm only units to advanced, fully configurable and serviceable instruments

» Applications: underground utility and electricity ducts, boiler rooms, post-fire sites, sewers, industrial plants, industrial hygiene, first responder teams, remote fleets





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