



The FD Series Single UV flame detector reacts to ultraviolet radiation in hydrocarbon and metal-based fires, delivering accurate and reliable fire monitoring

# **FD Series Single UV**







#### **Reliable Operation**

- Does not react to incandescent or fluorescent lighting, heaters or sunlight
- False alarms are virtually eliminated
- · Wide coverage per detector
- 120° field of view

#### **Cost Effective**

Reduces maintenance tasks

## **Easy to Use**

- Simplified installation and alignment
- Flexible installation
- User programmable sensitivity and time delay settings
- · Adjustable, no-tool swivel mount

### **Durable Housing**

 Tolerant to high temperatures and humidity levels

## Versatile Design

- Connect indoors or out, directly or up to 2000 feet away
- Multiple output configurations available
- Suitable for hazardous locations
- Adapt to different locations, conditions and activities
- Connect to a wide variety of equipment

Considerably reduce false alarms with the FD Series Single UV flame detector. A precisely tuned spectrum of radiation must be recognized and confirmed by the advanced UV sensor to initiate a fire condition, yet it is immune to incandescent or fluorescent lighting, heaters or sunlight.



The FD Series Single UV (ultra-violet) flame detector delivers high performance detection designed to meet the strict industry performance requirements. The FD Series Single UV is designed for simple installation and lower maintenance costs while delivering superior safety performance.

Enclosed in a rugged, explosion-proof housing, the FD Series Single UV uses the latest in microprocessor and UV sensor technology. Versatile configurations and user-defined settings make the FD Series Single UV flame detector ideal for a wide variety of applications. Built-in testing routines ensure continuous, round the clock protection for facilities.

# General Specifications





Standard Specifications for "S" Series Ultraviolet Flame Detection	
Operating Voltage Range	10 to 32 Vpc
Power Consumption (at 24 Vpc)	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
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	<4 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
<b>Humidity Range</b>	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 0hms at 32 Voc or 150 0hms at 11.0 Voc Non-isolated loop supply  AR Version:  Form C contacts rated 1 Amp at 30 Voc, 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 - Class I, Division 1, Groups B, C and D - Temperature code T4 - CANADA: Class 1, Zone 1, Ex d IIB + H2 T4  ANSI/UL - Class I, Division 1, Groups B, C and D - Temperature code T4 - UNITED STATES: Class 1, Zone 1, AEx d IIB + H2 T5  NEMA Type 4X • IP67 - Enclosure ratings
Warranty	3 years for electronics 2 years for sensors

Operating Voltage Range	10.5 to 32 Voc
Power Consumption (at 24 Vpc)	A Version: Nominal 80 mA / 1.92 W   Maximum 100 mA / 2.4W  AR Version: Nominal 100 mA / 2.4 W   Maximum 120 mA / 2.9W
Temperature Range	Certified: -40°C to +85°C (-40°F to +185°F)  Operational: -55°C to +125°C (-65°F to +257°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	<4 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
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# **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





#### Find out more

www.honeywellanalytics.com

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#### **Technical Services**

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www.honeywell.com

# **High Tech/Government**

A complete portfolio of gas and chemical detection instrumentation including infrared spectroscopy (MST) with no cross interference, to Chemcassette paper-based solutions (MDA Scientific) offering detection down to parts per billion

» Applications: semiconductor manufacturing and nanotechnology, aerospace propulsion and safety, specialty chemicals industry, research laboratories, emergency response

# **Technical Services**

24/7 global network includes post-sales service and Systems Integration teams

- » Emergency call out, service contracts, on/off-site repair, training and commissioning
- » Complete range of spares, consumables and accessories

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