



Flame Detector Ultra-Violet

FIREGUARD's ultra-violet (UV) flame detector delivers protection you can trust—the protection you need! The detector reacts to the UV radiation found in hydrocarbon fires, delivering accurate and reliable fire monitoring. Its smart sensor technology even detects hard to see hydrogen, ammonia and sulphur fires. As an added advantage, the UVS does not react when exposed to incandescent or fluorescent lighting, heaters or sunlight—so false alarms are virtually eliminated.

Enclosed in a rugged, explosion-proof housing, the UVS uses the latest in microprocessor and UV sensor technology. It is capable of stand-alone operation or can be connected to a variety of control devices to create a dependable fire monitoring system. The user can define sensitivity and time delay settings to virtually eliminate false alarms and the built-in testing routines ensure continuous operation.

The UVS has a Field of View of up to 120 degrees and is available with analog or analog/relay output configurations for 12 or 24 V dc systems—just let us know your requirements!

Fireguard has once again engineered a cost effective, high-performance flame detector, ideal for even the most high-risk, industrial applications!



Features

- Sees hydrocarbon, hydrogen, ammonia and sulphur fires
- Field of view of up to 120 degrees
- Explosion-proof, Class I, Division 1 certified
- CSA, FM, and ATEX certified
- Connect indoors or out, directly or up to 2000 feet away
- Immune to sunlight and hot body radiation
- Adjustable, no-tool swivel mount
- User programmable sensitivity and time delay settings
- Tolerant high temperatures and humidity levels
- Multi-coloured, high intensity LEDs
- Manual and automatic testing of optical surfaces
- Watchdog timer monitors internal electronics
- Detects reflected UV light
- Multiple output configurations available

Benefits

- detects different fire types for flexible coverage
- wider coverage per detector
- suitable for installation in hazardous locations
- engineered to the highest international standards
- flexible installation options
- limits false alarms caused by nearby activities
- simplifies installation and alignment
- adapt to different locations, conditions and activities
- lowers operating costs by reducing maintenance tasks
- highly visible detector status in the field
- schedule maintenance by evaluating cleanliness
- continuous system self-diagnosis
- increased protection with an extended range
- connects to a wide variety of equipment

**Fireguard's flame detection systems safeguard lives,
protect capital investments and ensure uninterrupted production!**

Flame Detector

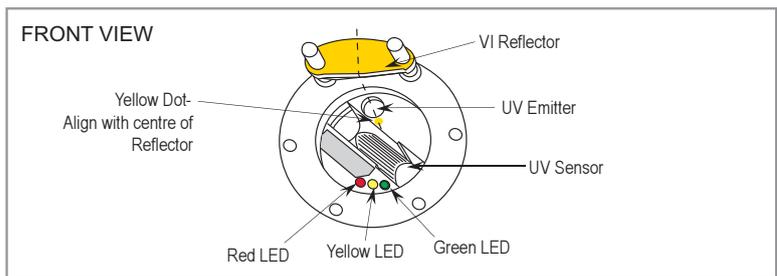
Ultra-Violet

SPECIFICATIONS

UVS	"A" VERSION	"AR" VERSION
Operating Voltage Range	11.0 to 32 V dc	
Power Consumption (at 24 V dc)	Nominal (70 mA, 1.7 Watts) Maximum (120 mA, 2.9 Watts)	Nominal (90 mA, 2.2 Watts) Maximum (135 mA, 3.3 Watts)
Operating Temperature Range	Certified -40°C to +75°C (-40F to +167F)	
Spectral Range	UV Radiation 185 to 260 nanometres (1850 to 2600 angstroms)	
Time Delay	DIP switch selectable to 3, 4, 5 or 7 seconds	
Sensitivity Settings	DIP switch selectable to 8, 16, 24 or 32 counts per second	
Typical Response Time	<5 seconds depending on fuel source, fire size and distance	
Enclosure Material	Anodized aluminum (optional stainless steel) factory sealed housing	
Humidity Range	0 to 100% relative humidity, non-condensing	
Field of View	120 degrees horizontal / 70 degrees vertical at 50% of the on-axis detection distance	
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. Ex d II B+H2 T5 (Class I, Zone 1, Grp II B+H2 T5) or For Canada only: CSA certified for hazardous locations. Class I, Division 1, Groups A (Canada only – with special cementing), 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	
Weight (with swivel)	2.1 Kg/4.5 lb (Stainless Steel Option 3.4 Kg/7.5 lb)	
Outputs	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.	Form C contacts rated 1 Amp at 30 V dc, 0.5 Amp at 125 V ac. Selectable energized / de-energized, latching / non-latching Fire relay. Fault relay factory set as energized / non-latching and cannot be modified.

PERFORMANCE

SUMMARY OF DISTANCES		
Fuel	Fire Size	Distance
n-heptane	1' x 1'	50 feet
methanol	1' x 1'	30 feet
diesel	1' x 1'	35 feet
H2	16" plume	34 feet
jet fuel (JP4)	1' x 1'	50 feet
lube oil	1' x 1'	35 feet
propane	16" plume	90 feet
paper	2' x 2'	70 feet



ORDERING INFORMATION

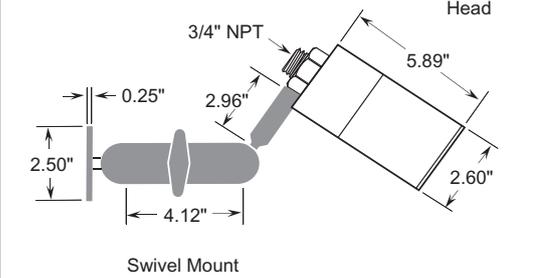
UVS "S" SERIES FIRE DETECTOR	
UVS-A	0 to 20 mA Analog output
UVS-AR	0 to 20 mA Analog output with Fire & Fault relays

ACCESSORIES

JB-F-A	Junction box (NEMA 4 and 7CD) c/w connector board
JB-F-A-SS	Stainless Steel Junction box (NEMA 4 and 7CD) c/w connector board
TL-UV-KIT	Test Lamp Kit with Aluminum carrying case, charger, (2) 9.6 Volt battery pack and window cleaner. Weight - 2.0 Kg (4.4 lb)
LAT-120	Laser Alignment Tool Weight - 0.3 Kg (0.7 lb)
Air Shield	Air Shield (device to protect lens from dirt build up)

NOTE: Specify flammable source when ordering

DIMENSIONS



Warranty - 2 years electronics / 1 years sensors