### ) a **SharpEye**" on your sa













# 40/40UFL ULTRA FAST UV-IR

Combined Explosion and High Sensitivity Flame Detector



### SharpEye

The new SharpEye UV-IR High-Speed Optical Flame detector 40/40UFL is designed to meet two major requirements:

- High-Speed Response (20 msec)

- *High Reliability (immunity to false alarm)* This detector is based on our well known military detector used in Armored Vehicle Explosion Suppression System combined with the industrial UV-IR detector 40/40LB.

The 40/40UFL can detect hydrocarbon-based fuel and gas fires, hydroxyl and hydrogen fires, as well as metal and inorganic fires.

The UV/IR flame detector senses radiant energy in the short wave section of both the ultraviolet and infrared portions of the electromagnetic spectrum. The signals from both sensors are analyzed for frequency, intensity and duration. Simultaneous detection of radiant energy in both the UV and IR sensors triggers an alarm signal.

The UV sensor incorporates a special logic circuit that helps prevent false alarms caused by solar radiation.

#### FEATURES & BENEFITS

- UV/IR Dual-Sensor
- High-Speed Response 20 msec to flash fire
- Solar blind
- Automatic Built-In-Test (BIT) to assure continued reliable operation
- Heated window for operation in harsh weather conditions (snow, ice, condensation)
- · Multiple output options for maximum flexibility and compatibility
  - Relays (3) for Alarm, Fault and Auxiliary
  - Analogue output for fast detection
  - 0-20mA (stepped)
  - HART Protocol for maintenance and asset management
  - RS-485, Modbus Compatible
- High reliability MTBF minimum 150,000 hours
- Approved to Safety Integrity Level 2 (SIL2 TUV)
- 5-Year warranty
- User programmable via HART or RS-485
- Hazardous area zones:
- Zones 1 & 2 with IIC gas group vapors present - Zones 21 & 22 with IIIC dust type present
- Ex approved to:
- ATEX & IECEX
- FM/FMC/CSA
- TR CU (EAC)
- 3<sup>rd</sup> party performance - EN54-10 (VdS)
  - FM3260

#### APPLICATIONS (model dependent)

Explosives & munitions Offshore Oil & Gas Onshore Oil & Gas Petrochemical plants Storage tank farms Aircraft hangars Chemical plants Power generation facilities Pharmaceutical industry Printing industry

Warehouses Automotive industry Waste disposal facilities Aerospace industry Hydrogen Fuel Cell Industry Hydrogen Vehicle Parking & Refueling **Battery Charging Areas Refinery Hydrogenation** Space Industry Hydroxyl Propellant Static Fuel Cell Systems



40/40L-LB 40/40UFL 40/40L4-L4B 40/40U-UB

## keep a SharpEye® on your safety

pectral Response	
lataction Dance	UV: 0.185 - 0.260 μm; IR: 2.5-3.0 μm Fuel ft / m Fuel ft / m Fuel ft / μ
etection Range at highest Sensitivity Setting	Fuel   ft / m   Fuel   ft / n     n-Heptane   66 / 20   Ethanol 95%   25 / 7.5   LPG*   43 / 1
or $1 \text{ft}^2$ (0.1m <sup>2</sup> ) pan fire)	Gasoline 66 / 20 Methanol 26 / 8 Polypropylene Pellets 43 / 1
	Diesel Fuel 49 / 15 IPA (Isopropyl Alcohol) 43 / 13 Ammonia** 20 /
	JP5 50 / 15 Hydrogen* 37 / 11 Silane** 6 / 1
	Kerosene 50 / 15 Methane* 26 / 8 Office Paper 16 /
	* 30" (0.75m) high, 10" (0.25m) width plume fire
	**20" (0.5m) high, 8" (0.2m) width plume fire
esponse Time	Typically 3 seconds. High speed 20 msec to flash fire
djustable Time Delay	Up to 30 seconds
ield of View	Horizontal 100°; Vertical 95°
uilt-in-Test (BIT)	Automatic
emperature Range	Operating: -67°F to +167°F (-55°C to +75°C)
	Option: -67°F to +185°F (-55°C to +85°C)
	Storage: -67°F to +185°F (-55°C to +85°C)
lumidity	Up to 95% non-condensing (withstands up to 100% RH for short periods)
eated Optics	To eliminate condensation and icing on the window
ELECTRICAL SPECIE	FICATIONS
perating Voltage	24 VDC nominal (18-32 VDC)
ower Consumption	Standby: Max. 90mA (110mA with heated window)
able Future	Alarm: Max. 130mA (160mA with heated window)
able Entries	2 x 3/4" - 14NPT conduits or 2 x M25 x 1.5mm ISO
Viring	12 - 22AWG (0.3mm <sup>2</sup> - 2.5mm <sup>2</sup> )
lectrical Input Protection lectromagnetic Compatibility	According to MIL-STD-1275B
	EMI/RFI protected to EN61326-3 and EN61000-6-3
lectrical Interface	The detector includes twelve (12) terminals with five (5) wiring options (factory set)
OUTPUTS	
elays	Alarm, Fault and Auxiliary
ciays	SPST volt-free contacts rated 2A at 30V DC
nalogue Output	4-4.7V at detection
-20mA (stepped)	Sink (source option) configuration
o-zonia (stepped)	Fault: $0 \pm 1$ mA IR: 8mA $\pm 5\%$ Alarm: 20mA $\pm 5\%$
	BIT Fault: $2mA \pm 10\%$ UV: $12mA \pm 5\%$ Resistance Loop: $100-600 \Omega$
	Normal: $4\text{mA} \pm 10\%$ Warning: $16\text{mA} \pm 5\%$
IART Protocol	Optional HART communications on the 0-20mA analog current (FSK) - used for maintenance,
	configuration changes and asset management, available in mA source output wiring options
S-485	RS-485 Modbus compatible communication link that can be used in computer controlled installation
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MECHANICAL SPEC	
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MECHANICAL SPEC Materials Inclosure options Mounting Dimensions Veight Invironmental Standards Vater and Dust	CIFICATIONS   - Stainless Steel 316L with electro polish finish   - Heavy duty copper free aluminum (less than 1%), red epoxy enamel finish (not available in FM versi   Stainless Steel 316L with electro polish finish   Detector 4" x 4.6" x 6.18" (101.6 x 117 x 157 mm)   Detector (St.St.) 6.1 lb (2.8 kg)   Detector, aluminum 2.8 lb (1.3 kg)   Tilt mount 2.2 lb (1.0 kg)   Meets MIL-STD-810C for Humidity, Salt & Fog, Vibration, Mechanical Shock, High Temp, Low Te   IP66 and IP67 per EN60529, NEMA 250 6P   ATEX and IECEx Ex II 2 G D
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MECHANICAL SPEC laterials nclosure options lounting imensions /eight nvironmental Standards /ater and Dust APPROVALS azardous Area erformance eliability ACCESSORIES	<b>IFICATIONS</b> - Stainless Steel 316L with electro polish finish- Heavy duty copper free aluminum (less than 1%), red epoxy enamel finish (not available in FM versi Stainless Steel 316L with electro polish finishDetector4" x 4.6" x 6.18"Detector4" x 4.6" x 6.18"(101.6 x 117 x 157 mm)Detector (St.St.)6.1 lb0.1 lb(2.8 kg)Detector, aluminum2.8 lb2.8 lb(1.3 kg)Tilt mount2.2 lb2.2 lb(1.0 kg)Meets MIL-STD-810C for Humidity, Salt & Fog, Vibration, Mechanical Shock, High Temp, Low TeIP66 and IP67 per EN60529, NEMA 250 6PATEX and IECExEx II 2 G D Ex db eb op is IIC T4 Gb Ex tb op is IIIC T106°C Db (-55°C ≤ Ta ≤ +75°C)FM/FMC/CSAClass I Div. 1, Groups B, C & D Class II/III Div. 1, Groups E, F & GTR CU (EAC)1Ex de IIC T5 Gb XEx tb IIIC T96°C Db X (-55°C ≤ Ta ≤ +75°C)EN54-10 (VdS) FM3260IEC61508 - SIL2 (TUV)

\*Supplied free of charge with the detector

Specifications subject to change For more information view manual or website www.spectrex.net

