













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, bydroxyl and bydrogen 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)
- 3rd 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



keep a SharpEye" on your safety

| Spectral Response | PECIFICATIONS |
|---|--|
| -p | UV: 0.185 - 0.260 μm; IR: 2.5-3.0 μm |
| Detection Range | Fuel ft / m Fuel ft / m Fuel ft / l |
| at highest Sensitivity S | |
| for 1ft² (0.1m²) pan fire | |
| | 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 |
| Response Time | Typically 3 seconds. High speed 20 msec to flash fire |
| djustable Time Delay | |
| ield of View Built-in-Test (BIT) | Horizontal 100°; Vertical 95° Automatic |
| emperature Range | Operating: -67°F to +167°F (-55°C to +75°C) |
| emperature Kange | 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) |
| leated Optics | To eliminate condensation and icing on the window |
| | |
| | L SPECIFICATIONS |
| perating Voltage | 24 VDC nominal (18-32 VDC) |
| Power Consumption | Standby: Max. 90mA (110mA with heated window) |
| | Alarm: Max. 130mA (160mA with heated window) |
| Cable Entries | 2 x 3/4" - 14NPT conduits or 2 x M25 x 1.5mm ISO |
| Viring | 12 - 22AWG (0.3mm² - 2.5mm²) |
| Electrical Input Protec Electromagnetic Comp | |
| :lectromagnetic Comp Electrical Interface | The detector includes twelve (12) terminals with five (5) wiring options (factory set) |
| | The detector includes twelve (12) terminals with live (3) willing options (factory set) |
| OUTPUTS | |
| Relays | Alarm, Fault and Auxiliary |
| | SPST volt-free contacts rated 2A at 30V DC |
| Analogue Output | 4-4.7V at detection |
|)-20mA (stepped) | Sink (source option) configuration |
| | Fault: $0 + 1 \text{mA}$ IR: $8 \text{mA} \pm 5\%$ Alarm: $20 \text{mA} \pm 5\%$ |
| | BIT Fault: $2\text{mA} \pm 10\%$ UV: $12\text{mA} \pm 5\%$ Resistance Loop: $100\text{-}600~\Omega$ |
| | 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 |
| RS-485 | RS-485 Modbus compatible communication link that can be used in computer controlled installation |
| MECHANICA | AL SPECIFICATIONS |
| | |
| Matariala | Stainland Staal 2161 with alactra polich finish |
| | - Stainless Steel 316L with electro polish finish Heavy duty copper free aluminum (less than 1%), red energy enamel finish (not available in EM yers) |
| Inclosure options | - Heavy duty copper free aluminum (less than 1%), red epoxy enamel finish (not available in FM versi |
| inclosure options Mounting | - Heavy duty copper free aluminum (less than 1%), red epoxy enamel finish (not available in FM versi Stainless Steel 316L with electro polish finish |
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| Performance Reliability ACCESSORIE | $- Heavy duty copper free aluminum (less than 1\%), red epoxy enamel finish (not available in FM version Stainless Steel 316L with electro polish finish Detector 4" x 4.6" x 6.18" (101.6 x 117 x 157 mm) Detector (St.St.) 6.1 lb (2.8 kg) Detector, aluminum 2.8 lb (1.3 kg) Tilt mount 2.2 lb (1.0 kg) Meets MIL-STD-810C for Humidity, Salt & Fog, Vibration, Mechanical Shock, High Temp, Low Tell P66 and IP67 per EN60529, NEMA 250 6P ATEX and IECEX Ex II 2 G D Ex db eb op is IIC T4 Gb Ex tb op is IIIC T96°C Db Ex tb op is IIIC T106°C Db (-55°C \leq Ta \leq +75°C) (-55°C \leq Ta \leq +85°C) FM/FMC/CSA Class I Div. 1, Groups B, C & D Class II/III Div. 1, Groups E, F & G TR CU (EAC) 1Ex de IIC T5 Gb X Ex tb IIIC T106°C Db X (-55°C \leq Ta \leq +75°C) (-55°C \leq Ta \leq +85°C) EN54-10 (VdS) FM3260 IEC61508 - SIL2 (TUV)$ |
| Enclosure options Mounting Dimensions Weight Environmental Standar Water and Dust APPROVALS Hazardous Area Performance Reliability ACCESSORIE Flame Simulator FS-1200 | - Heavy duty copper free aluminum (less than 1%), red epoxy enamel finish (not available in FM versistainless Steel 316L with electro polish finish Detector $4" \times 4.6" \times 6.18"$ (101.6 x 117 x 157 mm) Detector $4" \times 4.6" \times 6.18"$ (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 Tell P66 and IP67 per EN60529, NEMA 250 6P ATEX and IECEX Ex II 2 G D Ex db eb op is IIC T4 Gb Ex db eb op is IIC T4 Gb Ex tb op is IIIC T96°C Db Ex tb op is IIIC T106°C Db (-55°C \leq Ta \leq +85°C) FM/FMC/CSA Class I Div. 1, Groups B, C & D Class II/III Div. 1, Groups E, F & G TR CU (EAC) 1Ex de IIC T5 Gb X 1Ex de IIC T4 Gb X Ex tb IIIC T106°C Db X (-55°C \leq Ta \leq +85°C) EN54-10 (VdS) FM3260 IEC61508 - SIL2 (TUV) CS Description: Output Defends T89260-2 (2" pole) Mini Laptop Kit 777820 Weather Cover 777163 (St. 200) Weather Cover 777163 (St. 200) |
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^{*}Supplied free of charge with the detector

