













40/40L-LB

UV-IR Flame Detector Series

Maximum choice of features in a high performance package



SharpEye®

Model 40/40L (or LB, with Built-in-test option) provides a combination of UV and IR sensors, where the IR sensor operates at a wavelength of 2.5-3.0 µm, and can detect bydrocarbon-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.

Due to increased reliability, the 40/40 Series warranty period has been extended to 5 years and is SIL2 (TUV) approved to IEC 61508.

FEATURES & BENEFITS

- UV/IR Dual-Sensor
- Solar blind
- · Automatic Built-In-Test (BIT) and Manual to assure continued reliable operation (in 40/40LB only)
- 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
 - 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) model 40/40LB only
- 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 approved
- EN54-10 (VdS)
- FM3260
- Marine Approval
 - MED 'Wheelmark' approval (DNV)

APPLICATIONS (model dependent)

Offshore Oil & Gas installations Onshore Oil & Gas installations and pipelines Chemical plants Petrochemicals plants Storage Tank farms Aircraft hangars Power Generation facilities

Pharmaceutical Industry **Printing Industry** Warehouses **Automotive Industry** Explosives & Munitions Waste Disposal facilities Aerospace Industry Paint, Polymer and Glue processes



keep a SharpEye on your safety

TOTAL MACRAMA	CIFICATIONS
Spectral Response Detection Range	UV: 0.185 - 0.260 μm; IR: 2.5-3.0 μm Fuel ft / m Fuel ft / m Fuel ft / m
Detection kange at highest Sensitivity Sett	
or 1ft ² (0.1m ²) pan fire)	ing n-Heptane 50 / 15 Kerosene 37 / 11 Methane* 26 / 8 Gasoline 50 / 15 Methanol 25 / 7.5 LPG* 43 / 13
of it (0.in) pairile)	Diesel Fuel 37 / 11 IPA (Isopropyl Alcohol) 25 / 7.5 Polypropylene Pellets 33 / 10
	JP5 37 / 11 Hydrogen* 33 / 10 Office Paper 16 / 5
	Alcohol 95% 25 / 7.5
	* 30" (0.75m) high, 10" (0.25m) width plume fire
tesponse Time	Typically 5 seconds
djustable Time Delay	Up to 30 seconds
ensitivity Ranges	1 ft² (0.1m²) n-heptane pan fire from 50 ft (15m)
ield of View	Horizontal 100°; Vertical 95°
Built-in-Test (BIT)	Automatic (and Manual)
emperature Range	Operating: -67°F to +167°F (-55°C to +75°C)
emperature mange	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 SI	PECIFICATIONS
perating Voltage	24 VDC nominal (18-32 VDC)
ower Consumption	Standby: Max. 90mA (110mA with heated window)
·	Alarm: Max. 130mA (160mA with heated window)
able Entries	2 x 3/4" - 14NPT conduits or 2 x M25 x 1.5 mm ISO
Viring	12 - 22AWG (0.3mm² - 2.5mm²)
lectrical Input Protection	
lectromagnetic Compati	bility 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	
OUTPUTS	
Relays	Alarm, Fault and Auxiliary
	SPST volt-free contacts rated 2A at 30V DC
0-20mA (stepped)	Sink (source option) configuration
	Fault: 0 +1mA IR: 8mA \pm 5% Alarm: 20mA \pm 5%
	BIT Fault: $2\text{mA} \pm 10\%$ UV: $12\text{m A} \pm 5\%$ Resistance Loop: $100\text{-}600~\Omega$
	Normal: $4\text{mA} \pm 10\%$ Warning: $16\text{mA} \pm 5\%$
	Optional HART communications on the 0-20mA analog current (FSK) - used for maintenance,
IART Protocol	
	configuration changes and asset management, available in mA source output wiring options
RS-485	configuration changes and asset management, available in mA source output wiring options RS-485 Modbus compatible communication link that can be used in computer controlled installations
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MECHANICAL Materials Inclosure options Mounting Dimensions Veight Invironmental Standards Vater and Dust APPROVALS Idazardous Area	configuration changes and asset management, available in mA source output wiring options RS-485 Modbus compatible communication link that can be used in computer controlled installations SPECIFICATIONS - Stainless Steel 316L with electro polish finish - 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 4" x 4.6" x 6.18" (101.6 x 117 x 157 mm) Detector (St.St.) 6.1 lb (2.8 kg) Tillt mount 2.2 lb (1.0 kg) Detector, aluminum 2.8 lb (1.3 kg) Meets MIL-STD-810C for Humidity, Salt & Fog, Vibration, Mechanical Shock, High Temp, Low Temp IP66 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 IIC T4 Gb Ex tb op is IIIC T96°C Db Class I Div. 1, Groups B, C & D Class I Jill Div. 1, Groups B, C & D Class II/III Div. 1, Groups E, F & G TR CU (EAC) 1 Ex db eb op is IIC T4 Gb X 1 Ex db eb mb op is II T4 GE Ex tb op is IIIC T96°C Db X Ex tb op is IIIC T98°C Db X (-55°C \leq Ta \leq +75°C) EN54-10 (VdS) FM3260 IEC61508 - SIL2 (TUV) - model 40/40LB only
MECHANICAL Materials Mounting Dimensions Weight Invironmental Standards Vater and Dust APPROVALS Lazardous Area Performance Reliability Marine ACCESSORIES	configuration changes and asset management, available in mA source output wiring options RS-485 Modbus compatible communication link that can be used in computer controlled installations SPECIFICATIONS - Stainless Steel 316L with electro polish finish - 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 $4" \times 4.6" \times 6.18" (101.6 \times 117 \times 157 \text{ mm})$ Detector $4" \times 4.6" \times 6.18" (101.6 \times 117 \times 157 \text{ mm})$ Detector (St.St.) $6.1 \text{ lb} (2.8 \text{ kg}) \text{Tilt mount} 2.2 \text{ lb} (1.0 \text{ kg})$ Detector, aluminum $2.8 \text{ lb} (1.3 \text{ kg})$ Meets MIL-STD-810C for Humidity, Salt & Fog, Vibration, Mechanical Shock, High Temp, Low Temp IP66 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 T106°C Db (-55°C \leq Ta \leq +75°C) FM/FMC/CSA Class I Div. 1, Groups E, F & G TR CU (EAC) 1 Ex db eb op is IIC T4 Gb X 1 Ex db eb mb op is II T4 Gb Ex tb op is IIIC T96°C Db X Ex tb op is IIIC T106°C Db X Ex tb op is IIC T106°C Db X Ex tb op is IIC T106°C Db X Ex tb o
MECHANICAL Materials Mounting Dimensions Veight Environmental Standards Vater and Dust APPROVALS Lazardous Area Performance Reliability Marine ACCESSORIES Clame Simulator FS-1200	configuration changes and asset management, available in mA source output wiring options RS-485 Modbus compatible communication link that can be used in computer controlled installations SPECIFICATIONS - Stainless Steel 316L with electro polish finish . 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 $4" \times 4.6" \times 6.18"$ ($101.6 \times 117 \times 157 \text{ mm}$) Detector $4" \times 4.6" \times 6.18"$ ($101.6 \times 117 \times 157 \text{ mm}$) Detector, aluminum 2.8 lb (1.3 kg) Meets MIL-STD-810C for Humidity, Salt & Fog, Vibration, Mechanical Shock, High Temp, Low Temp IP66 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 (-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) 1 Ex db eb op is IIC T4 Gb X 1 Ex db eb op is IIC T4 Gb X 1 Ex db eb mb op is III T4 Gb X 1 Ex db eb pis IIIC T98°C Db X (-55°C \leq Ta \leq +75°C) EN54-10 (VdS) FM3260 IECG1508 - SIL2 (TUV) - model $40/40\text{LB}$ only MED 'Wheelmark' approval (DNV) U-Bolt/Pole Mount 789260-2 (2" pole) Air Shield 777650 Weather Cover 777163 (St.St)
MECHANICAL Platerials Inclosure options Plounting Dimensions Veight Invironmental Standards Vater and Dust APPROVALS Plazardous Area Performance Peliability Plarine ACCESSORIES	configuration changes and asset management, available in mA source output wiring options RS-485 Modbus compatible communication link that can be used in computer controlled installations SPECIFICATIONS - Stainless Steel 316L with electro polish finish - 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 $4" \times 4.6" \times 6.18" (101.6 \times 117 \times 157 \text{ mm})$ Detector $4" \times 4.6" \times 6.18" (101.6 \times 117 \times 157 \text{ mm})$ Detector (St.St.) $6.1 \text{ lb} (2.8 \text{ kg}) \text{Tilt mount} 2.2 \text{ lb} (1.0 \text{ kg})$ Detector, aluminum $2.8 \text{ lb} (1.3 \text{ kg})$ Meets MIL-STD-810C for Humidity, Salt & Fog, Vibration, Mechanical Shock, High Temp, Low Temp IP66 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 T106°C Db (-55°C \leq Ta \leq +75°C) FM/FMC/CSA Class I Div. 1, Groups E, F & G TR CU (EAC) 1 Ex db eb op is IIC T4 Gb X 1 Ex db eb mb op is II T4 Gb Ex tb op is IIIC T96°C Db X Ex tb op is IIIC T106°C Db X Ex tb op is IIC T106°C Db X Ex tb op is IIC T106°C Db X Ex tb o

^{*}Supplied free of charge with the detector

