keep a SharpEye" on vour sa













40/40M

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

40/40M

Multi IR Flame Detector

Superior performance, reliability and immunity to false alarms



SharpEye

The new 40/40M Multi IR Flame Detector is specifically designed for detection of hydrocarbon and hydrogen flames. It detects bydrocarbon-based fuel and gas fires at long distances with the highest immunity to false alarms. The 40/40M can detect a gasoline pan fire at 215 ft (65m) or a hydrogen flame at 125 ft (38m) in less than 5 seconds.

The 40/40M is the most durable and weather resistant flame detector currently on the market. Its new features include a beated window, to eliminate condensation and icing; HART capabilities, for digital communications; lower power requirements, and a compact, lighter design.

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

- Multi spectrum design for long distance detection of hydrocarbons and hydrogen flames
- · High false alarm immunity
- Sensitivity selection to ensure no zone crossover detection
- · Automatic and Manual 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
- 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 tested
 - EN54-10 (VdS)
- FM3260

APPLICATIONS

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 **Explosives & Munitions** Waste Disposal facilities 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

	CIFICATIONS Multi-IR Rende
Spectral Response Detection Range	Multi IR Bands Fuel ft / m Fuel ft / m Fuel ft / m
Detection kange at highest Sensitivity Sett	
or 1ft² (0.1m²) pan fire)	Gasoline 215 / 65 Methanol 115 / 35 Polypropylene Pellets 115 / 35
or art (o.am) pair ine)	Diesel Fuel 150 / 45 IPA (Isopropyl Alcohol) 135 / 40 Ammonia** 60 / 18
	JP5 150 / 45 Hydrogen* 125 / 38 Silane** 7 / 2
	Kerosene 150 / 45 Methane* 150 / 45 Office Paper 82 / 25
	*30" (0.75m) high, 10" (0.25m) width plume fire
	**20" (0.5m) high, 8" (0.2m) width plume fire
Response Time	Typically 5 seconds
Adjustable Time Delay	Up to 30 seconds
Sensitivity Ranges	
Field of View	4 Sensitive ranges for 1 ft² (0.1m²) n-heptane pan fire from 50 ft (15m) to 215 ft (65m) Horizontal 80°, Vertical 80° for Gasoline
leid of view	Horizontal 70°, Vertical 80° for Hydrogen
Puilt in Toot (DIT)	Automatic (and Manual)
Built-in-Test (BIT) Femperature Range	,
remperature Kange	
	Option: -67°F to +185°F (-55°C to +85°C)
I	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
ELECTRICAL SI	PECIFICATIONS
Operating 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 1.5 mm ISO
Wiring	12 - 22AWG (0.3mm² - 2.5mm²)
Electrical Input Protection	
Electromagnetic Compati	
Electrical Interface	The detector includes twelve (12) terminals with five (5) wiring options (factory set)
OUTPUTS	
Relays	Alarm, Fault and Auxiliary
	SPST volt-free contacts rated 2A at 30V DC
0-20mA (stepped)	Sink (source option) configuration
	Fault: $0 + 1$ mA Normal: 4 mA $\pm 10\%$ Alarm: 20 mA $\pm 5\%$
	BIT Fault: $2\text{mA} \pm 10\%$ Warning: $16\text{mA} \pm 5\%$ Resistance Loop: $100\text{-}600~\Omega$
HART 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 installations
13-403	
	SPECIFICATIONS
MECHANICAL	SPECIFICATIONS
MECHANICAL Materials	SPECIFICATIONS Stainless Steel 316L with electro polish finish
MECHANICAL Waterials Wounting	SPECIFICATIONS Stainless Steel 316L with electro polish finish Stainless Steel 316L with electro polish finish
MECHANICAL Materials Mounting Dimensions	SPECIFICATIONS Stainless Steel 316L with electro polish finish Stainless Steel 316L with electro polish finish Detector 4" x 4.6" x 6.18" (101.6 x 117 x 157 mm)
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MECHANICAL Materials Mounting Dimensions Weight Environmental Standards Water and Dust APPROVALS Hazardous Area Performance Reliability ACCESSORIES	$ \begin{array}{c} \textbf{SPECIFICATIONS} \\ \textbf{Stainless Steel 316L with electro polish finish} \\ \textbf{Stainless Steel 316L with electro polish finish} \\ \textbf{Detector} \qquad 4" \times 4.6" \times 6.18" (101.6 \times 117 \times 157 \text{ mm}) \\ \textbf{Detector (St.St.)} \qquad 6.1 \text{ lb } (2.8 \text{ kg}) \qquad \text{Tilt mount } 2.2 \text{ lb } (1.0 \text{ kg}) \\ \textbf{Meets MIL-STD-810C for Humidity, Salt & Fog, Vibration, Mechanical Shock, High Temp, Low Temp} \\ \textbf{IP66 and IP67 per EN60529, NEMA 250 6P} \\ \textbf{ATEX and IECEx} \qquad \textbf{Ex II 2 G D} \\ \textbf{Ex db eb op is IIC T4 Gb} \qquad \textbf{Ex db eb op is IIC T4 Gb} \\ \textbf{Ex tb op is IIIC T96°C Db} \qquad \textbf{Ex tb op is IIIC T106°C Db} \\ (-55°C \le Ta \le +75°C) \qquad (-55°C \le Ta \le +85°C) \\ \textbf{FM/FMC/CSA} \qquad \textbf{Class I Div. 1, Groups B, C & D} \\ \textbf{Class II/III Div. 1, Groups E, F & G} \\ \textbf{TR CU (EAC)} \qquad \textbf{1 Ex db eb op is IIC T4 Gb X} \qquad \textbf{1 Ex db eb mb op is II T4} \\ \textbf{Ex tb op is IIIC T96°C Db X} \qquad \textbf{Ex tb op is IIIC T106°C Db X} \qquad \textbf{Ex tb op is IIIC T98°C Db X} \\ \textbf{(-55°C} \le Ta \le +75°C) \qquad (-55°C \le Ta \le +85°C) \qquad (-55°C \le Ta \le +75°C) \\ \textbf{EN54-10 (VdS)} \\ \textbf{FM3260} \\ \textbf{IEC61508 - SIL2 (TUV)} \\ \end{array}$
MECHANICAL Materials Mounting Dimensions Weight Environmental Standards Water and Dust APPROVALS Hazardous Area Performance Reliability ACCESSORIES Flame Simulator FS-1400	SPECIFICATIONS Stainless Steel 316L with electro polish finish 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) Tilt mount 2.2 lb (1.0 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 ≤ Ta ≤ +75°C) (-55°C ≤ Ta ≤ +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 mb op is II T4 Ex tb op is IIIC T96°C Db X Ex tb op is IIIC T106°C Db X (-55°C ≤ Ta ≤ +75°C) (-55°C ≤ Ta ≤ +85°C) EN54-10 (VdS) FM3260 IEC61508 - SIL2 (TUV)
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^{*}Supplied free of charge with the detector

