













40/40L-LB

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

40/40U-U]

UV Flame Detector

A low cost solution in a durable, high spec package



SharpEye

The new 40/40 UV Flame Detector detects bydrocarbon-based fuel and gas fires, invisible hydrogen flames, and fires from bydrides, ammonia, silane and other organics. The 40/40U-UB is the most durable and weather resistant UV flame detector currently on the market. Its new features include a heated 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.

The model 40/40UB includes a Built-in-Test (BIT) feature, whereas the 40/40U model does not.

Note: This type of detector should not be exposed to UV radiation sources such as welding, sparks, and electric arcs as it will cause false alarms.

FEATURES & BENEFITS

- UV spectrum design
- Automatic and Manual Built-In-Test (BIT) to assure continued reliable operation (in 40/40UB 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 40/40UB 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 Tested
 - EN54-10 (VdS)
 - FM3260

APPLICATIONS

Chemical plants Petrochemicals plants Power Generation facilities Pharmaceutical Industry **Printing Industry** Warehouses

Automotive Industry Aerospace Explosives & Munitions Waste Disposal facilities Paint and solvent processes



keep a SharpEye on your safety

OLINDIAL OI	ECIFICATIONS
Spectral Response	UV 0.185-0.260 μm
Detection Range	Fuel ft / m Fuel ft / m Fuel ft / m
(at highest Sensitivity Se	etting n-Heptane 50 $/$ 15 Ethanol 95% 37 $/$ 11 LPG* 43 $/$ 13
for $1ft^2$ (0.1 m^2) pan fire)	
	Diesel Fuel 37 / 11 IPA (Isopropyl Alcohol) 37 / 11 Silane** 22 / 7
	JP5 37 / 11 Hydrogen* 39 / 12 Office Paper 20 / 6
	Kerosene 37 / 11 Methane* 43 / 13
	* 30" (0.75m) high, 10" (0.25m) width plume fire
D	**20" (0.5m) high, 8" (0.2m) width plume fire
Response Time	Typically 3 seconds Up to 30 seconds
Adjustable Time Delay Sensitivity Ranges	1 ft ² (0.1m ²) n-heptane pan fire from 50 ft (15m)
Field of View	Horizontal 100°; Vertical 95°
Built-in-Test (BIT)	Automatic (and Manual)
Temperature 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)
Humidity	Up to 95% non-condensing (withstands up to 100% RH for short periods)
Heated Optics	To eliminate condensation and icing on the window
ELECTRICAL	SPECIFICATIONS
Operating Voltage	24 VDC nominal (18-32 VDC)
Power Consumption	Standby: Max. 90mA (110mA with heated window)
- Circi Comoumpuon	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 Protect	tion According to MIL-STD-1275B
Electromagnetic Compa	
Electrical Interface	The detector includes twelve (12) terminals with five (5) wiring options (factory set)
OUTPUTS	
Relays	Alarm, Fault and Auxiliary
0-20mA (stepped)	SPST volt-free contacts rated 2A at 30V DC Sink (source option) configuration
u-zuma (steppeu)	Fault: 0 +1mA Warning: 16mA ± 5%
	BIT Fault: 2mA ± 10% Alarm: 20mA ± 5%
	Normal: $4mA \pm 10\%$ Resistance Loop: $100-600 \Omega$
HART Protocol	Optional HART communications on the 0-20mA analog current (FSK) - used for maintenance,
	optional in the communications on the calculations can be called the contraction of the calculations of th
	configuration changes and asset management, available in mA source output wiring options
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^{*}Supplied free of charge with the detector

