keep a SharpEye on your safety









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



40/40L4-L4B UV-IR Flame Detector Series

Maximum choice of features in a high performance package



SharpEye"

Model 40/40L4 (& L4B, with Built-In-Test option) provides a combination of UV and IR sensors, where the IR sensor operates at a wavelength of 4.5 µm, and can detect hydrocarbon-based fuel and gas 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 40/40L4B 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 40/40L4B 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 Waste Disposal facilities Aerospace Industry Paint, Polymer and Glue processes



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		CIFICATIO							
Spectral Respo				.260 µm; IR: 4				•	
etection Rang		Fue		ft / m	Fuel	ft / m			ft / m
at highest Sen		0	eptane	93 / 28	Kerosene			ohol 95%	57/17
or 1ft ² (0.1m ²)	pan fire)		oline	93 / 28	Methanol			lypropylene Pellet	
			sel Fuel	70 / 21	IPA	70 / 22		fice Paper	33/10
		JP5		70 / 21	Methane ³		S LP	G *	60/18
				gh, 10" (0.25m) v	vidth plume fir	e			
esponse Time			cally 5 se						
djustable Tim			o 30 seco						
ensitivity Ran	iges			n-heptane pan		3 ft (28m)			
ield of View				0°; Vertical 95	0				
uilt-in-Test (B				d Manual)					
emperature Ra	ange		rating:	-67°F to +16			to +75°C)		
		Opti		-67°F to +18		,	to +85°C)		
			rage:	-67°F to +18			to +85°C)		
lumidity				n-condensing			H for short	periods)	
eated Optics		To e	eliminate c	ondensation a	and icing on	the window			
ELECTI	RICAL SP	PECIFICA	TIONS						
					2)				
perating Volta				nal (18-32 VDC					
ower Consum	ption		ndby:			ith heated win			
		Alar				ith heated wir	idow)		
able Entries				NPT conduits o		1.5 mm ISO			
Viring				0.3mm ² - 2.5m					
Electrical Input				MIL-STD-1275					
lectromagneti				ected to EN613					
lectrical Inter	face	The	detector	includes twelve	e (12) termi	nals with five	(5) wiring op	otions (factory set)
OUTPL	ITS								
	510		E 14						
lelays				Ind Auxiliary					
/ /				contacts rate		/ DC			
-20mA (stepp	ed)			option) configu					
		Faul		0 +1mA	IR:	8mA		Alarm:	20mA ± 5%
		BIT	Fault:	2mA ± 10%	UV:	12m/	A + 5%	Resistance Loop	: 100-600 <u>೧</u>
			mal:	4mA ± 10%	Warnir	ıg: 16m/	t ± 5%		
ART Protocol		Opti	ional HAR	T communicati	ons on the	ng: 16mA 0-20mA analo	A ± 5% g current (F	SK) - used for ma	intenance,
ART Protocol		Opti cont	ional HAR figuration	T communicati changes and a	ons on the asset mana	ng: 16mA 0-20mA analo gement, availa	A ± 5% g current (F able in mA s	SK) - used for ma source output wirir	intenance, ng options
		Opti cont	ional HAR figuration	T communicati changes and a	ons on the asset mana	ng: 16mA 0-20mA analo gement, availa	A ± 5% g current (F able in mA s	SK) - used for ma	intenance, ng options
RS-485		Opti cont RS-4	ional HAR figuration 485 Modb	T communicati changes and a us compatible (ons on the asset mana	ng: 16mA 0-20mA analo gement, availa	A ± 5% g current (F able in mA s	SK) - used for ma source output wirir	intenance, ng options
NECHA		Opti cont RS-4 SPECIFIC	ional HAR figuration 485 Modb ATION	T communicati changes and a us compatible o S	ons on the asset mana communicat	g: 16mA O-20mA analo gement, availa ion link that ca	A ± 5% g current (F able in mA s	SK) - used for ma source output wirir	intenance, ng options
RS-485		Opti con RS-4 SPECIFIC - Sta	ional HAR figuration 485 Modb ATION ainless St	T communicati changes and a us compatible o S eel 316L with	ons on the asset mana communicat electro polis	g: 16mA 0-20mA analo gement, availa ion link that ca sh finish	A ± 5% g current (F able in mA s n be used ir	SK) - used for ma source output wirir a computer controll	intenance, ng options ed installatio
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