keep a SharpEye" on your safety









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



40/40F

40/40UFI Ultra Fast Triple IR (IR3) Flame Detector

Superior performance, reliability and immunity to false alarms



SharpEye'

The new 40/40UFI, an Ultra-Fast multispectrum IR3 Flame Detector, detects hydrocarbon fuel and gas fires at long distances, and is especially designed to detect an explosive 1 ft (0.3m) diameter gas cloud explosion in max. 50 msecs for *1ft diameter sphere methane-air mixture* explosion at 66 ft (20m) with the highest immunity to false alarms. The 40/40UFI IR3 can also detect a 1 ft^2 (0.1 m^2) gasoline/ n-Heptane pan fire at up to 300 ft (90m). The 40/40UFI is part of the 40/40 Series, the most durable and weather resistant range of flame detectors currently on the market. Features include a heated window, to eliminate condensation and icing; HART *capability 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 per IEC 61508.

FEATURES & BENEFITS

- Multi Spectrum Design for long distance detection and high false alarm immunity
- High Speed Response 50 msec
- Sensitivity Selection to ensure no zone crossover detection
- 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
- Safety Integrity Level 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 (FM)

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 Industry Explosives & Munitions Waste Disposal facilities



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GENERAL SPECIFICATIONS

Spectral Respo Detection Rang		Thus - ID D	ndo				
		Three IR Ba		Fuel	ft / m	Fuel	ft / m
at highest Sen				Kerosene	τ / m 205 / 62	Fuel Methane*	205 / 62
or 1ft ² (0.1m ²)		Gasoline	,	Ethanol 95%	185 / 55	LPG*	205 / 62
,	. ,	Diesel Fuel		Vethanol	160 / 48	Polypropylene Pellets	160 / 48
		JP5	205/62	PA (Isopropyl Alco	ohol) 185 / 55	Office Paper	115/34
				n) width plume fire			
ligh Speed Re					air mixture explo	sion at 66ft (20m)	
lesponse Time	9		sec at 131ft (4				
diar to be the Time	- Dalass		sec at 300ft	(90m)			
Adjustable Tim Sensitivity Ran		Up to 30 se		$+2 (0.1 m^2)$ n hont	ana nan fira fram	66 ft (20m) to 300 ft (9	()m)
ield of View	iges		00°; Vertical 9		ane pan lire from	66 TL (2011) to 300 TL (9	Um)
Built-in-Test (B	(T)	Automatic		0			
emperature R		Operating:	-67°F to +16	7°F (-55°C to -	+75°C)		
omportaturo n	ungo	Option:	-67°F to +18				
		Storage:	-67°F to +18				
lumidity				g (withstands up t		hort periods)	
leated Optics				n and icing on the		. ,	
FIFCT	DICAL SD	ECIFICATION	2				
perating Volta			ninal (18-32 V				
Power Consumption				(110mA with head			
abla Entrica				(160mA with hea s or 2 x M25 x 1.5			
able Entries Viring			4NPT conduits i (0.3mm ² - 2		11111130		
Electrical Input	t Protection		MIL-STD-127				
Electromagnet				1326-3 and EN61	000-6-3		
Electrical Inter						ng options (factory set)	
OUTTDI	TTO			()			
OUTPU	515						
Relays			and Auxiliary				
				ated 2A at 30 VDC)		
Analogue Output		4-4.7 V at o					
0-20mA (stepp	oed)		e option) confi		10		
			0 +1mA	Warning:	16mA ±		
			$2mA \pm 10\%$	Alarm:	20mA ±		
HART Protocol			$4mA \pm 10\%$		e Loop: 100-600	nt (FSK) - used for maint	enance
IANT FIOLOCOI							
					ent avallanie in	ma source output wiring	ontions
RS-485						mA source output wiring ed in computer controlled	
		RS-485 Mo	bus compatibl			mA source output wiring ed in computer controllec	
	ANICAL S		bus compatibl				
MECHA	ANICAL S	RS-485 Mod PECIFICATIO	lbus compatibl		ink that can be us		
MECHA Materials		RS-485 Mod PECIFICATIO - Stainless - Heavy dut	lbus compatibl NS Steel 316L wit copper free a	e communication I h electro polish fi aluminum (less th	ink that can be us nish an 1%), red epox	ed in computer controllec	
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MECHA Materials Enclosure optic Mounting Dimensions Veight Environmental	ons Standards	RS-485 Mod PECIFICATIO - Stainless - Heavy dut Stainless S Detector Detector (S Detector, a Meets ML-5	bus compatibl NS Steel 316L wit y copper free a teel 316L with 4" x 4 t.St.) uminum STD-810C for H	e communication l h electro polish fi aluminum (less th electro polish fin 4.6" x 6.18" (10 6.1 lb (2.8 kg) 2.8 lb (1.3 kg) 4umidity, Salt & Fo	ink that can be us nish an 1%), red epox ish D1.6 x 117 x 157 Tilt mount og, Vibration, Mec	ed in computer controllec / enamel finish mm)	l installations
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MECHA Materials Enclosure optic Mounting Dimensions Weight Environmental Water and Dus APPRO Hazardous Area Performance Reliability ACCES	SORIES	RS-485 Mod PECIFICATIO - Stainless - Heavy dut Stainless S Detector Detector (S Detector, a Meets MIL-3 IP66 and IF ATEX and IECEX FM/FMC/CSA IR CU (EAC) EN54-10 (VdS) FM3260 EC61508 - SIL2 (1	dbus compatibl NS Steel 316L wit $_{y}$ copper free a teel 316L wit $_{4}$ " x 4 t.St.) Comparison Ex II 2 G D Ex II 2 G D Ex II 2 G D Ex db eb op Ex tb op is I (-55°C \leq Ta Class I Div. Class I D	e communication I th electro polish fin aluminum (less the electro polish fin 4.6" x 6.18" (10 5.1 lb (2.8 kg) 1.0 (2.8 k	ink that can be us nish an 1%), red epoxy ish $01.6 \times 117 \times 157$ Tilt mount og, Vibration, Med Ex db el Ex tb op (-55°C D E & G 1 Ex db eb op is Ex tb op is IIIC T (-55°C \leq Ta \leq +4	ed in computer controllec i enamel finish mm) 2.2 lb (1.0 kg) hanical Shock, High Tem i op is IIC T4 Gb is IIIC T106°C Db \leq Ta \leq +85°C) IIC T4 Gb X 1 Ex db eb 106°C Db X Ex tb op is 1 35°C) (-55°C \leq Ta	nb op is II T4 G IIC T98°C Db X IIC T98°C)
MECHA Materials Enclosure optic Mounting Dimensions Weight Environmental Water and Dus APPRO Hazardous Area Performance Reliability ACCES Flame Simulator	Standards t VALS a SORIES FS-1100	RS-485 Mod PECIFICATIO - Stainless - Heavy dut Stainless S Detector Detector (S Detector, al Meets MIL-3 IP66 and IF ATEX and IECEX FM/FMC/CSA IR CU (EAC) EN54-10 (VdS) FM3260	tbus compatibl NS Steel 316L wity y copper free a teel 316L wity 4" x 4 t.St.) (uminum 2 STD-810C for H 67 per EN605 Ex II 2 G D Ex db eb op Ex db eb op Ex tb op is I (-55°C \leq Ta Class I Div. Class I Div.	e communication I h electro polish fi aluminum (less th- electro polish fin 4.6" x 6.18" (10 5.1 lb (2.8 kg) 1.0 (1.3 kg)	ink that can be us nish an 1%), red epoxy ish $01.6 \times 117 \times 157$ Tilt mount og, Vibration, Med Ex db el Ex tb op (-55°C D E & G 1 Ex db eb op is Ex tb op is IIIC T (-55°C \leq Ta \leq +4	ed in computer controllec v enamel finish mm) 2.2 lb (1.0 kg) hanical Shock, High Tem v op is IIC T4 Gb is IIIC T106°C Db \leq Ta \leq +85°C) IIC T4 Gb X 1 Ex db eb 106°C Db X Ex tb op is I 35°C) (-55°C \leq Ta	nb op is II T4 Gi IIC T98°C Db X a < +75°C) 7163 (St.St)
MECHA Materials Enclosure optic Mounting Dimensions Weight Environmental Water and Dus APPRO Hazardous Area Performance Reliability ACCES Flame Simulator Filt Mount	Standards t VALS a SORIES FS-1100 40/40-001	RS-485 Mod PECIFICATIO - Stainless - Heavy dut Stainless S Detector Detector (S Detector, a Meets MIL-3 IP66 and IF ATEX and IECEX FM/FMC/CSA IR CU (EAC) EN54-10 (VdS) FM3260 EC61508 - SIL2 (1	blues compatible Steel 316L with $(copper free a begin{aligned} $	e communication l th electro polish fi aluminum (less th electro polish fin 4.6" x 6.18" (10 6.1 lb (2.8 kg) 2.8 lb (1.3 kg) 4umidity, Salt & Fc 29, NEMA 250 6I is IIC T4 Gb IIC T96°C Db $\leq +75°C$) 1, Groups B, C & Div. 1, Groups B, C & Div. 1, Groups B, C & IIC T96°C Db X $\leq +75°C$) 0.2 (2" pole) Air 0-2 (2" pole) Air	ink that can be us nish an 1%), red epoxy ish $01.6 \times 117 \times 157$ Tilt mount og, Vibration, Med Ex db el Ex tb op (-55°C D E & G 1 Ex db eb op is Ex tb op is IIIC T (-55°C \leq Ta \leq +4	ed in computer controllec v enamel finish mm) 2.2 lb (1.0 kg) hanical Shock, High Tem v op is IIC T4 Gb is IIIC T106°C Db \leq Ta \leq +85°C) IIC T4 Gb X 1 Ex db eb 106°C Db X Ex tb op is I 35°C) (-55°C \leq Ta	nb op is II T4 G IIC T98°C Db X IIC T98°C)

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