### keep a SharpEye on your safety









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





# **40/40I** Triple IR (IR3) Flame Detector

Superior performance, reliability and immunity to false alarms



### **SharpEye**`

The new 40/40I, a multi spectrum based on three IR bands (IR3), detects fuel and gas fires at long distances with the highest immunity to false alarms. The 40/40I IR3 can detect a 1 ft<sup>2</sup> (0.1m<sup>2</sup>) gasoline pan fire at 215 ft (65m) in less than 5 seconds.

The 40/40I is the most durable and weather resistant 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.

#### FEATURES & BENEFITS

- Multi spectrum design for long distance detection and 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)
   EM3200
- FM3260
- Marine Approval
  - MED 'Wheelmark' approval (DNV)

#### 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



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#### GENERAL SPECIFICATIONS

Care estand Desau										
Spectral Resp			e IR Ba							
Detection Ran		Fue		ft / m	Fuel		ft / m	Fuel	ft / m	
at highest Ser				215/65	Kerosene		150/45	Methane*	150/45	
or 1ft <sup>2</sup> (0.1m <sup>2</sup> )	) pan fire)		oline	215/65	Ethanol 95%	)	135/40	LPG*	150/45	
			sel Fuel	150/45	Methanol		115/35	Polypropylene Pellets	,	
		JP5		150/45	IPA (Isoprop		135/40	Office Paper	83 / 25	
Doononoo Timo					.25m) width plume	fire				
Response Tim				seconds						
Adjustable Tim			o 30 se							
Sensitivity Rai	nges					n-heptane	oan fire fron	n 50 ft (15m) to 215 ft (	(65m)	
ield of View				LOO°; Verti						
Built-in-Test (E	/			and Manu						
Cemperature R	Range		0	-67°F to	(	°C to +75°	,			
		Opti	on:	-67°F to		°C to +85°	C)			
		Stor	age:	-67°F to	+185°F (-55	°C to +85°	C)			
lumidity		Up t	o 95% i	non-conde	nsing (withstand	ls up to 10	00% RH for s	short periods)		
leated Optics		To e	liminate	e condens	ation and icing o	on the wind	wol			
FIFCT	'RICAL SI		TION	S						
Operating Volt				minal (18-3						
Power Consumption			Standby: Max. 90mA (110mA with heated window)							
		Alar			mA (160mA wi					
Cable Entries					duits or 2 x M25	x 1.5 mm	ISO			
Wiring					<sup>2</sup> -2.5mm <sup>2</sup> )					
Electrical Inpu				o MIL-STD-						
Electromagnet					EN61326-3 and					
Electrical Inte	rface	The	detecto	or includes	twelve (12) terr	minals with	n five (5) wir	ing options (factory set)	)	
OUTP	ITS									
	010	A.L.			•					
Relays				t and Auxil		01/ 5.0				
					ts rated 2A at 3	OV DC				
0-20mA (stepp	ped)				onfiguration					
	Fau		0 +1mA		ning:	16mA ±				
				2mA ± 10			20mA ±			
		Nor		4mA ± 10	% Resi	stance I o	op: 100-60	$\land \land$		
HART Protoco	I	Opt			unications on th	e 0-20mA	analog curr	ent (FSK) - used for mai		
	I	Opti con	figuratio	on changes	unications on th and asset mar	e 0-20mA lagement,	analog curr available in	ent (FSK) - used for mai mA source output wirin	ng options	
	I	Opti con	figuratio	on changes	unications on th and asset mar	e 0-20mA lagement,	analog curr available in	ent (FSK) - used for mai	ng options	
RS-485		Opti con RS-4	figuratio 185 Mo	on changes dbus comp	unications on th and asset mar	e 0-20mA lagement,	analog curr available in	ent (FSK) - used for mai mA source output wirin	ng options	
RS-485 MECH	ANICAL	Opti con RS-4 SPECIFIC	figuratic 185 Mo ATIO	on changes dbus comp NS	unications on th and asset mar atible communic	e 0-20mA agement, ation link tl	analog curr available in nat can be u	ent (FSK) - used for mai mA source output wirin	ng options	
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RS-485 MECH	ANICAL	Opti con RS-4 SPECIFIC - Sta - He	figuratio 185 Mo ATIO ainless avy duty	on changes dbus comp NS Steel 316 copper fre	unications on th and asset mar atible communic _ with electro po e aluminum (less	e 0-20mA agement, ation link tl blish finish than 1%),	analog curr available in nat can be u	ent (FSK) - used for mai mA source output wirin	ng options ed installations	
RS-485 MECH Materials	ANICAL	Opti con RS-4 SPECIFIC - Sta - He	figuratio 185 Mo ATIO ainless avy duty	on changes dbus comp NS Steel 316 copper fre	unications on th and asset mar atible communic with electro po e aluminum (less with electro pol	e 0-20mA lagement, ation link th blish finish than 1%), ish finish	analog curr available in nat can be u	ent (FSK) - used for mai mA source output wirin sed in computer controlle	ng options ed installations	
RS-485 MECH Materials Enclosure optic	ANICAL	Opti con RS-4 SPECIFIC - Sta - He Stai	figuratio 185 Mo ATIO ainless avy duty	on changes dbus comp NS Steel 316 copper fre	unications on the and asset man atible communic with electro pol aluminum (less with electro pol 4" x 4.6" x 6	e 0-20mA agement, ation link tl blish finish than 1%), ish finish 5.18" (10	analog curr available in nat can be u	ent (FSK) - used for mai mA source output wirin sed in computer controlle amel finish (not available	ng options ed installations	
RS-485 MECH Materials Enclosure optic Mounting	ANICAL	Opti con RS-4 SPECIFIC - Sta - He Stai Dete	figuratic 185 Mo ATIO ainless avy duty nless S	on changes dbus comp NS Steel 316l copper fre teel 316L	unications on th and asset mar atible communic with electro po e aluminum (less with electro pol	e 0-20mA agement, ation link tl blish finish than 1%), ish finish 5.18" (10	analog curr available in nat can be u red epoxy en 01.6 x 117 ×	ent (FSK) - used for mai mA source output wirin sed in computer controlle amel finish (not available	ng options ed installations	
RS-485 MECH Materials Enclosure optic Mounting Dimensions	ANICAL	Opti con RS-4 SPECIFIC - Sta - He Stai Dete	figuratic 185 Mor ATIO ainless avy duty nless S actor actor (S	on changes dbus comp NS Steel 316l copper fre teel 316L	unications on the and asset man atible communic with electro pol aluminum (less with electro pol 4" x 4.6" x 6	e 0-20mA hagement, ation link tl blish finish than 1%), ish finish 5.18" (10 kg)	analog curr available in nat can be u red epoxy en 01.6 x 117 ×	ent (FSK) - used for mai mA source output wirin sed in computer controlle amel finish (not available x 157 mm)	ng options ed installations	
RS-485 MECH Materials Enclosure optic Mounting Dimensions Weight	ANICAL	Opti con RS-4 SPECIFIC - Sta - He Stai Detr Detr Detr	figuratic 185 Mo ATIO ainless avy duty nless S actor actor (S actor, a	n changes dbus comp NS Steel 316L copper fre teel 316L t.St.) luminum	with electro pol with electro pol with electro pol 4" x 4.6" x 6 6.1 lb (2.8 2.8 lb (1.3	e 0-20mA hagement, ation link tl blish finish than 1%), ish finish 5.18" (10 kg) kg)	analog curr available in hat can be u red epoxy en <u>01.6 x 117 x</u> Tilt moun	ent (FSK) - used for mai mA source output wirin sed in computer controlle amel finish (not available x 157 mm)	ng options ed installations in FM version)	
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RS-485 MECH Materials Enclosure optic Mounting Dimensions Weight Environmental	ANICAL Sons	Opti com RS-4 SPECIFIC - Sta - He Stai Dete Dete Dete Mee	figuratic 185 Mo ATIO ainless avy duty nless S actor actor (S actor, a ts MIL-3	n changes dbus comp NS Steel 316 copper fre iteel 316L t.St.) luminum STD-810C	with electro por aluminum (less with electro por aluminum (less with electro por 4" x 4.6" x 6 6.1 lb (2.8 2.8 lb (1.3 for Humidity, Sa	e 0-20mA hagement, ation link tl blish finish than 1%), ish finish 5.18" (10 kg) kg) kg) lt & Fog, V	analog curr available in hat can be u red epoxy en <u>01.6 x 117 x</u> Tilt moun	ent (FSK) - used for mai mA source output wirin sed in computer controlle amel finish (not available (157 mm) t 2.2 lb (1.0 kg)	ng options ed installations in FM version)	
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RS-485 MECH Materials Enclosure optic Mounting Dimensions Weight Environmental Water and Dus APPRC	ANICAL : ons Standards St DVALS	Opti com RS-4 SPECIFIC - Sta - He Stai Dete Dete Dete Mee IP60	figuratic 485 Mor ATTO ainless avy duty nless S ector ector (S ector (S ector, a ector, a ector, a for and IF	n changes dbus comp NS Steel 3161 copper fre teel 316L t.St.) luminum STD-810C c67 per EN c7 a C D cx II 2 G D cx db eb op	unications on the and asset man atible communic - with electro pol e aluminum (less with electro pol 4" x 4.6" x 6 6.1 lb (2.8 2.8 lb (1.3 for Humidity, Sa 60529, NEMA 2	e 0-20mA hagement, ation link tl blish finish than 1%), ish finish 5.18" (10 kg) kg) kg) lt & Fog, V	analog curr available in hat can be u red epoxy en 01.6 x 117 × Tilt moun ibration, Me Ex db eb op	ent (FSK) - used for mai mA source output wirin sed in computer controllo amel finish (not available (157 mm) t 2.2 lb (1.0 kg) chanical Shock, High Te	ng options ed installations in FM version)	
RS-485 MECH Materials Enclosure optic Mounting Dimensions Weight Environmental Water and Dus APPRC	ANICAL : ons Standards St DVALS	Opti com RS-4 SPECIFIC - Sta - He Stai Dete Dete Dete Mee IP60	figuratic 185 Mo ATTO ainless avy duty nless S actor actor (S actor, a actor, a ts MIL-4 5 and IF	n changes dbus comp NS Steel 3161 copper fre teel 316L t.St.) luminum STD-810C c67 per EN c7 a C D cx II 2 G D cx db eb op	unications on the and asset man atible communic with electro pol 4" x 4.6" x 6 6.1 lb (2.8 2.8 lb (1.3 for Humidity, Sa 60529, NEMA 2 b is IIC T4 Gb IIIC T96°C Db	e 0-20mA hagement, ation link tl blish finish than 1%), ish finish 5.18" (10 kg) kg) kg) lt & Fog, V	analog curr available in hat can be u red epoxy en 01.6 x 117 × Tilt moun ibration, Me Ex db eb op	ent (FSK) - used for mai mA source output wirin sed in computer controlle amel finish (not available x 157 mm) t 2.2 lb (1.0 kg) chanical Shock, High Te o is IIC T4 Gb IIIC T106°C Db	ng options ed installations in FM version)	
RS-485 MECH Materials Enclosure optic Mounting Dimensions Weight Environmental Water and Dus APPRC	ANICAL : ons Standards St DVALS	Opti com RS-4 SPECIFIC - Sta - He Stai Dete Dete Dete Mee IP60	figuratic 185 Mo ATTO ainless avy duty nless S ector ector (S ector, a ector, a ets MIL- 5 and IF	n changes dbus comp NS Steel 3161 copper fre teel 316L t.St.) luminum STD-810C '67 per EN ix II 2 G D ix db eb op ix db eb op ix tb op is :55°C $\leq$ Ta	unications on the and asset man atible communic with electro pol 4" x 4.6" x 6 6.1 lb (2.8 2.8 lb (1.3 for Humidity, Sa 60529, NEMA 2 b is IIC T4 Gb IIIC T96°C Db	e 0-20mA hagement, ation link the blish finish than 1%), ish finish 3.18" (10 kg) kg) lt & Fog, V 250 6P	analog curr available in hat can be u red epoxy en D1.6 x 117 × Tilt moun ibration, Me Ex db eb op Ex db eb op Ex tb op is	ent (FSK) - used for mai mA source output wirin sed in computer controlle amel finish (not available x 157 mm) t 2.2 lb (1.0 kg) chanical Shock, High Te o is IIC T4 Gb IIIC T106°C Db	ng options ed installations in FM version)	
RS-485 MECH Materials Enclosure optic Mounting Dimensions Weight Environmental Water and Dus APPRC	ANICAL : ons Standards St DVALS	Opti com RS-4 SPECIFIC - Sta - He Stai Detr Detr Detr Detr Mee IP66	figuratic ISS More ATTO ainless avy duty niless S ector ector (S ector, a ector, a ector, a ector, a ector (S ector, a ector (S ector, a ector (S ector (S ector (S ector (S ector (S ector (S ector (S)) ector (S ector (S)) ector (S) ector (S) ecto	on changes dbus comp NS Steel 316I copper fre teel 316L t.st.) luminum STD-810C '67 per EN Car II 2 G D X db eb op X db eb op X tb op is $55^{\circ}C \leq Ta$ Class I Div.	unications on the and asset mar atible communic - with electro pol $4" \times 4.6" \times 6$ 6.1  lb (2.8  l) 2.8  lb (1.3  for Humidity, Sa 60529, NEMA 2 o is IIC T4 Gb IIIC T96°C Db $\leq +75°$ C)	e 0-20mA hagement, ation link the blish finish than 1%), ish finish 5.18" (10 kg) kg) lt & Fog, V 250 6P & D	analog curr available in hat can be u red epoxy en D1.6 x 117 × Tilt moun ibration, Me Ex db eb op Ex db eb op Ex tb op is	ent (FSK) - used for mai mA source output wirin sed in computer controlle amel finish (not available x 157 mm) t 2.2 lb (1.0 kg) chanical Shock, High Te o is IIC T4 Gb IIIC T106°C Db	ng options ed installations in FM version)	
RS-485 MECH Materials Enclosure optic Mounting Dimensions Weight Environmental Water and Dus APPRC	ANICAL : ons Standards St DVALS	Opti com RS-4 SPECIFIC - Sta - He Stai Detr Detr Detr Detr Mee IP66	figuratic 485 Mor ainless avy duty nless S ector ector (S ector, a ets MIL-3 and IF ECEx E E ECEx E E () SA () C	on changes dbus comp NS Steel 316 copper fre teel 316L t.St.) luminum STD-810C 267 per EN cx II 2 G D cx db eb op ix tb op is 55°C ≤ Ta Class I Div. Class II/III	unications on the and asset man atible communic with electro pol $4" \times 4.6" \times 6$ 6.1 lb (2.8 l 2.8 lb (1.3 for Humidity, Sa 60529, NEMA 2 b is IIC T4 Gb IIIC T96°C Db $\leq +75°$ C) 1, Groups B, C Div. 1, Groups E	e 0-20mA hagement, ation link the blish finish than 1%), ish finish 5.18" (10 kg) kg) lt & Fog, V 250 6P & D c, F & G	analog curr available in hat can be u red epoxy en $1.6 \times 117 \times$ Tilt moun ibration, Me Ex db eb op Ex db eb op Ex tb op is (-55°C $\leq$ Ta	ent (FSK) - used for mai mA source output wirin sed in computer controlle amel finish (not available (157  mm) t 2.2 lb (1.0 kg) chanical Shock, High Te p is IIC T4 Gb IIIC T106°C Db $\leq +85°C$ )	ng options ed installations in FM version) mp, Low Temp	
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