keeb a **SharpEye**" on vo













40/40M

40/401

40/40I-I B

40/40I 4-I 4B 40/40U-UB

40/40I

Triple IR (IR3) Flame Detector

Superior performance, reliability and immunity to false alarms



SharpEye*

The new 40/40I Triple IR (IR3) Flame Detector detects fuel and gas fires at long distances with the highest immunity to false alarms. The 40/40I IR3 can detect a 1ft² $(0.1m^2)$ 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 approved to IEC 61508 Safety Integrity requirements of SIL2.

CONTACT INFORMATION

GasTech Australia Ptv Ltd 24 Baretta Rd Wangara Western Australia 6065 Tel 1800 999 902 Fax 1800 999 903 http://www.gastech.com.au

- Triple 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

FEATURES & BENEFITS

- 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
- Ex approved for Zone 1 hazardous area location
 - ATEX
 - IECEx
 - FM
 - CSA
- 3rd party Performance Tested
- EN54-10 (LPCB)
- FM3260 (FM)
- DNV Marine Approval

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



keep a SharpEye" on your safety

GENERAL SPECIFICA							
Spectral Response	Three IR Bands						
Detection Range (at highest Sensitivity Setting for 1ft ² (0.1m ²) pan fire)	n-Heptane 2: Gasoline 2: Diesel Fuel 1:	t / m 15 / 65 15 / 65 50 / 45 50 / 45 8" (0.2m) wid	Fuel Kerosene Ethanol 95% Methanol IPA (Isopropyl / th plume fire	1! 1: 1:	ft / m 50 / 45 35 / 40 15 / 35 35 / 40	Fuel Methane* LPG * Polypropylene Pelle Office Paper	ft / n 100/30 100/30 ts 16/5 33/10
Response Time	Typically 5 secor	nds					
Adjustable Time Delay	Up to 30 second	S					
Sensitivity Ranges	4 Sensitive range	es for 1 ft ²	(0.1m ²) n-hep	tane pan f	fire from	50 ft (15m) to 215 ft	(65m)
Field of View	Horizontal 100°;	Vertical 9	5°				
Built-in-Test (BIT)	Automatic (and I	Manual)					
Temperature Range	Option: -6	57°F to +16 57°F to +18 57°F to +18	35°F	(-55°C	to +75°C to +85°C to +85°C	S)	
Humidity	Up to 95% non-c	ondensing	(withstands up	to 100%	RH for sh	nort periods)	
Heated Optics	To eliminate con						
ELECTRICAL SPECIFI	CATIONS						
		(10.20.1/2)(C)				
Operating Voltage Power Consumption		ax. 100m/	0C) A (150mA with I A (200mA with I				
Cable Entries	2 x 3/4" - 14NPT	conduits	or 2 x M25 x 1.	5 mm ISO			
Wiring	12 - 22AWG (2.5						
Electrical Input Protection	According to MIL	-STD-1275	В				
Electromagnetic Compatibility	EMI/RFI protecte	ed to EN50	130-4				
Electrical Interface	The detector inc	ludes twelv	/e (12) terminal	s with five	(5) wirin	g options (factory se	t)
OUTPUTS							
Relays	Alarm, Fault and SPST volt-free co	Auxiliary Intacts rate	ed 5A at 30 VD0	C or 250 V	AC.		
0-20mA (stepped)	BIT Fault: 2	ion) config +1mA 2mA ± 10% 5mA ± 10%	\	Varning: Narm: Resistance	e Loop:	$10\text{mA} \pm 5\%$ $15\text{mA} \pm 5\%$ $100\text{-}600~\Omega$	
HART Protocol	HART communic changes and ass	ation on th	e 0-20mA analo ement	og current	(FSK) - u	sed for maintenance	, configuratio
RS-485	RS-485 Modbus installations	compatibl	e communication	on link tha	it can be	used in computer co	ntrolled
MECHANICAL SPECI	FICATIONS						
Materials	- Stainless Steel	2161 with	alaatra palich f	nich			
Enclosure options	- Heavy duty cop	per free al	uminum (less th	nan 1%), r	ed epoxy	enamel finish	
Mounting	Stainless Steel 3	316L with e	electro polish fir	ish			
Dimensions	Detector		3.5" x 4.5" x 6.	1" (90 x	114 x 15	56 mm)	
Weight	Detector (St.St.) Detector, alumin Tilt mount	um	2.5 lb (1.	5 kg) 2 kg) 0 kg)			
Environmental Standards	Meets MIL-STD-8	10C for Hu	midity, Salt & Fo	og, Vibratio	on, Mech	anical Shock, High Te	mp, Low Tem
Water and Dust	IP66 and IP67 p	er EN6052	29, NEMA 250 6	SP			
APPROVALS							
Hazardous Area	ATEX and IECEx	Ex II 2 G	D				
nazaruous Area	FM / CSA	Ex de IIE Ex tD A2 Class I D	D, 3+H2 T5 (-55°C 21 IP66/X7 T 95 Div. 1, Groups B III Div. 1, Group	5°C . C & D	Ex tD	IIB+H2 T4 (-55°C to + 8 A21 IP66/X7 T 105°0	35°C) C
Performance	EN54-10 (LPCB) FM-3260 (FM) DNV Marine App						
Reliability	IEC61508 - SIL2						
-							
ACCESSORIES	Weather P		777163		aser Poin		7166

