Flame Detectors on industrial safety





UV/IR Detector

FX-500EX / FX-500EX-S Triple IR (IR3) Flame Detector

longer detection range and reliable false alarm immunity



The new FX-500EX Triple IR (IR3) Flame Detector detects fuel and gas fires at long distances with the highest immunity to false alarms.

The FX-500EX IR3 can detect a 0.1m² gasoline pan fire at 65m in less than 5 seconds.

Its new features include RS484/ RS232 compatibilities for digital communications; lower power requirements; and a compact, lighter design and FX-500 series are approved to ATEX by DNV for explosion-proof.

FEATURES & BENEFITS

- Triple IR Spectrum for longer distance detection and high false alarm immunity
- Compact & lightweight design
- Enclosures : (Options) - Aluminium
 - Stainless (ST 316L) : for Offshore Facilities
- User Selectable (Sensitivity / Functions)
- Multiple output options -Relays for Alarm and Fault -0-20mA (stepped)
- -RS-485 / RS-232 spectrum monitoring
- Lower power requirement (35mA – standby / 75mA – alarm)
- Ex cable gland / 2-meter cable assembled & provided for users' easy installation
- Certifications
 - -ATEX approved by DNV for hazardous areas -KFI (Korea) / CE marking

APPLICATIONS

Offshore Oil & Gas Installations Onshore Oil & Gas Installations and pipelines Petrochemical plants Chemical plants Shipbuilding facility Automotive industry

Storage tank farms Power generation facility Petrochemical plants Painting industry Warehouse Waste disposal facility Explosive & Munitions



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GENERAL SPECIFICATIONS				
Spectrum Response	Three IR Bands			
Spectrum Response (at highest sensitivity setting for 0.1m ² pan fire)	Fuel n-Heptane Gasoline Diesel LPG* *0.5m high / 0.2	Distance 65m 65m 45m 30m m width plume fil	Fuel Ethanol IPA (isopropyl Alcoh Methanol re	Distance 40m 40m nol) 35m
Response Time	Typically 5 seconds			
Adjustable Time Delay	Up to 20 seconds			
Sensitivity Range	4 sensitivity ranges for 0.1m2 n-Heptane pan fire from 15m to 65m			
Field of View	Horizontal 90°, Vertical 90°			
Built-in-Test	Manual (optionally Automatic)			
Temperature Range	Operating/Storage: -40℃ to 75℃			
Humidity	Up to 95% non-condensing			
ELECTRICAL SPECIFIC	ATIONS			
Operating Voltage	24VDC normina	II (17-31VDC)		
Power Consumption	Standby: Alarm:	max. 35mA max. 75mA		
Cable Entry	1 x M20 (ISO)			
Wiring	AWG 16-26 (Str 1.5mm ² to 0.13mm ²)			
	EMI/RFI protected to EN61000 series			
Electrical Interface	The detector inc	ludes twelve(12)	terminals with fo	ur(4) wiring options
OUTPUTS				
Relays	Alarm, Fault SPST volt-free of	contacts rated 5A	at 30VDC or 250	OVAC
0-20mA (stepped)	Non-isolated "S Fault: Normal: Alarm:	ource" configurat 0 +1mA 4mA±10% 20mA±10%	ion Bit Fault: Warning: Resistance Loo	2mA±10% 16mA±10% p: max. 800Ω
RS-485 (option) RS-232C (option)	computer contro	s compatible com olled installations els spectrum mo		nat can be used in
MECHANICAL SPECIFIC				
Materials			um (less than 1%	b) with bright grey
Enclosure options Mounting(Tilt Mount) Options	 Stainless Stee Heavy duty co epoxy enamel 	I 316L with electi pper free alumini	um (less than 1%	b) with grey
Dimensions	Detector:	83(D) x 126(L) i	mm	
Weight	Detector (alumir Detector (ST 31 Tilt mount (alum	6L): 2.7kg	0.3kg / 0.7kg	
APPROVALS				
Hazardous Area		℃ to +75℃ (DN	V 09 ATEX 65127	7)
Performance	KFI (Korea) EN54-10 (desig	ned to meet)	_	
Nov. 2010 For more information view manua		ations subject to ch		INE-SYS Inc.

For more information view manual or web site: www.flame-detection.co.kr

