

FX-30M-IR3 / FX-30M-UVIR

Triple IR (IR3) & UV/IR Flame Detectors

for use in non-hazardous applications



FX-30M-IR3



FX-30M-UVIR

The newly-developed FX-30M series is specially designed for use in non-hazardous applications. The detector is also provide a rapid response to the presence of a fire which makes it ideal for use in high-value facilities monitoring where detection of the onset of a fire is critical to prevent any significant damage to the facilities.

Features & Benefits

- ◆ **Triple IR (IR3) , Dual UV & IR**
– for longer distance detection and high false alarm immunity
- ◆ **Slim-sized & Light-weight design**
- ◆ **Increased detection coverage**
– up to 60m (IR3) / 36m (UV/IR) or max.120°
- ◆ **Optical Path Monitoring without external reflector (optional)**
– greatly reduces fault and maintenance where salt, heavy rain, sand or snow are constantly present
- ◆ **Enclosure** : Aluminum with power-coated
- ◆ **Certifications**
-KFI (for Korea)
-FM3260 for performance : (pending)

Applications

- Warehouses
- Production line
- Waste disposal facility
- Storage facilities
- Test laboratories
- Battery storage facilities
- Electrical Discharge Machine (EDM)
- Offices
- Commercial buildings
- High-value equipment

Specification Data of Flame Detectors

GENERAL SPECIFICATIONS

Spectrum Response	*Triple IR (FX-30M-IR3)		*UV: 0.185 – 0.260um / IR: 4.3um (FX-30M-UVIR)	
Detection Range (at highest sensitivity setting for 1ft ² (0.1m ²) pan fire)	Triple IR (FX-30M-IR3)		UV/IR (FX-30M-UVIR)	
	Fuel	Distance	Fuel	Distance
	n-Heptane	65m	n-Heptane	30m
	IPA	40m	IPA	25m
	LPG*	30m	LPG*	20m
	Ethanol	40m	Ethanol	20m
Methane**	35m	Methane**	20m	
	*0.5m high / 0.2m width plumb fire , **30" plume fire			
Response Time	Typically 5 seconds			
Adjustable Time Delay	Up to 20 seconds			
Sensitivity Range	4 sensitivity ranges for 1ft ² (0.1m ²) n-heptane pan fire			
Field of View	Horizontally/vertically typical. 90° & max.120°			
Built-in-Test (Optional)	Automatic self-check to verify the lens cleanliness/electronic circuits & etc			
Temperature Range	Operational/Storage : -40°C to +75°C (-40°F to +167°F)			
Humidity	0 to 95% RH, non-condensing			

ELECTRICAL SPECIFICATIONS

Operating Voltage	24VDC nominal (18-32VDC)		
Power Consumption	Standby:	max. 50mA	
	Alarm:	max. 70mA	
Cable Entry	1 x Ø6mm		
Wiring			
Electromagnetic Compatibility	Complies with EN 61000-6-4 and EN 50130-4		

OUTPUTS

Relays	Alarm, Fault SPDT volt-free contacts rated 5A at 30VDC
---------------	---

RS-485 <optional>	RS-485 Modbus compatible communication link that can be used in computer controlled installations
--------------------------------	---

MECHANICAL SPECIFICATIONS

Enclosure Materials	Heavy duty copper free aluminum with power-coated
Mounting(Tilt Mount)	Heavy duty copper free aluminum with power-coated
Dimensions	Detector: 63D) x 110(L) mm
Weight	Detector + Mounting Bracket : 0.3kg
Water and Dust	IP65

APPROVALS

Performance	- designed to meet the standard of FM3260 / EN54-10
Reliability	- KFI (for Korea) approved

ACCESSORIES

Flame Simulator	FS-TL-10Ex (up to 25m for multi-IR and 15m for UV/IR)
------------------------	--