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IR3 Detector   *UV/IR Detector*

FX-20P

UV/IR Flame Detector

Non-explosion proof in reliable false alarm immunity

FEATURES & BENEFITS

- UV/IR Spectrum – for medium distance detection and high false alarm immunity

- Compact & lighter design

- 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 / 1-meter cable assembled
  & provided for users' easy installation

- Certifications
  - CE marking

The new FX-20P UV/IR Flame Detector detects fuel and gas fires at long distances with the highest immunity to false alarms.
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The FX-20P UV/IR can detect a 0.1m² gasoline pan fire at 30m 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-20 series are approved to ATEX by DNV for explosion-proof.

APPLICATIONS

*__Non-Hazardous Areas__

Semiconductor Process Equipments
Warehouse
Waste disposal facilities
Culture Centres

FX-20PS UV/IR Flame Detector

GENERAL SPECIFICATIONS

Spectrum Response	UV /IR (Dual Bands)

Spectrum Response (at highest sensitivity setting for 0.1m^2 pan fire)

Fuel	Distance	Fuel	Distance
n-Heptane	30m	Ethanol	20m
Gasoline	30m	IPA	25m
Diesel	20m	(isopropyl Alcohol)	
LPG*	20m	Methanol	20m

*0.5m high / 0.2m width plume fire

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 SPECIFICATIONS

Operating Voltage	24VDC norminal (17-31VDC)
Power Consumption	Standby: max. 35mA Alarm: max. 75mA
Cable Entry	1 x M20 (ISO)
Wiring	AWG 16-26 (Str 1.5mm^2 to 0.13mm^2)
Electromagnetic Compatibility	EMI/RFI protected to EN61000 series
Electrical Interface	The detector includes twelve(12) terminals with four(4) wiring options

OUTPUTS

Relays	Alarm, Fault SPST volt-free contacts rated 5A at 30VDC or 250VAC

0-20mA (stepped) Non-isolated "Source" configuration

Fault:	0 +1mA	Bit Fault:	2mA±10%
Normal:	4mA±10%	Warning:	16mA±10%
Alarm:	20mA±10%	Resistance Loop: max. 800Ω	

RS-485 (option)	RS-485 Modbus compatible communication link that can be used in computer controlled installations
RS-232C (option)	Three IR channels spectrum monitoring with PC

MECHANICAL SPECIFICATIONS

Materials	- Polycarbonate Enclosure
Mounting(Tilt Mount)	- Stainless Steel
Dimensions	Detector: 80 x 82 X 86 mm
Weight	Detector : 0.3kg (1.0kg with cable gland / 1m-length cable / Tilt Mount)
Water and Dust	IP66 per EN60529

APPROVALS

EMI/RFI	CE Marking
Performance	EN54-10 (designed to meet)