

20/20MPI

Flame Detector “Mini” Series

The 20/20MPI is a low cost, high performance, compact Triple IR (IR3) Flame Detector in a lightweight polycarbonate housing. It retains all the benefits of IR3 technology - long distance detection (up to 140ft / 43m) along with the highest immunity to false alarms.

The IR3 detector, with its lightweight housing and low power consumption, is especially suited to indoor applications, such as airport terminals, train stations, storage areas, public buildings and many more.

APPLICATIONS

- Airport terminals
- Train stations and terminals
- Storage areas
- Archives
- Malls
- Hospitals
- Car parking towers and garages
- Public buildings
- Banks
- Historical Sites
- Offices



KEY FEATURES

- Long distance Flame Detection (up to 140ft / 43m)
- Large Field of View (100° horizontal / 90° vertical)
- Highest immunity to false alarms
- Output options (two models):
 - Alarm and Fault relay outputs (4 wire) or
 - Stepped mA output (3 wire source)
- RS-485 Modbus Compatible
- Automatic and Manual Built-In-Test (BIT)
- 3 Year Warranty

20/20MI, 20/20ML

SPECIFICATIONS Specifications subject to change without notice

Spectral Response	Three IR Bands			
Detection Range (Highest Sensitivity Setting for 1 ft ² (0.1m ²) pan fire.)	n-Heptane	140 ft (43m)	Methanol	100 ft (30m)
	Gasoline	140 ft (43m)	IPA (Isopropyl Alcohol)	115 ft (35m)
	Diesel Fuel	100 ft (30m)	Methane*	40 ft (12m)
	JP5	100 ft (30m)	LPG (Propane)*	40 ft (12m)
	Kerosene	100 ft (30m)	Polypropylene Pellets	50 ft (15m)
	Alcohol (Ethanol)	100 ft (30m)	Office Paper	50 ft (15m)

*20" (0.5m) long 8" (0.2m) width plume fire

Response Time	Typically 5 sec.
Adjustable Time Delay	Up to 30 seconds
Sensitivity Range	4 sensitivity ranges for 1 ft ² (0.1m ²) gasoline pan fire: 35 ft (11m) up to 140 ft (43m)
Field of View	100° horizontal, 90° vertical
Built-in-Test:	Manual and Automatic BIT
Temperature Range	Operating: -40°F (-40°C) to +160°F (+70°C) Storage: -40°F (-40°C) to +160°F (+70°C)
Humidity	Up to 95%
Power Supply	Operating Voltage: 18-32 VDC
Power Consumption	20/20MPI-R at 24V DC: Max. 15mA at Normal Max. 25mA at Alarm 20/20MPI-M at 24V DC: Max. 16mA at Normal Max. 36mA at Alarm
Electrical Connection	M20 Gland Connection
Electrical Input Protection	Per EN54-10
Electromagnetic Compatibility	EMI/RFI protected CE Marked per EN50130-4

Outputs	
20/20MPI-R:	Relays Alarm and Fault SPST volt-free contacts rated 2A at 30 VDC Fault relay normally closed, Alarm Relay normally open
20/20MPI-R:	0-20mA Source configuration Fault: 0 +0.5mA Warning: 16mA ±5% BIT Fault: 2mA ±10% Alarm: 20mA ±5% Normal: 4mA ±10% Resistance Loop: 100-600 Ω
Dimensions:	4.7" dia x 2.9" (119mm x 74mm)
Weight:	10.6 oz (300g)
Tilt Mount Weight:	2.5 oz (70g)
Enclosure and Tilt Mount:	Polycarbonate
Water and Dust:	IP55
Performance Approval:	FM3260, EN54-10 (VdS)
PART NUMBER:	85-2020MPI



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