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.

**MAIN 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)
  - Stepped mA output (3 wire source)
- RS-485 Modbus Compatible
- Automatic and Manual Built-In-Test (BIT)
- 3 Year Warranty

**APPLICATIONS**

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

<table>
<thead>
<tr>
<th>Spectral Response</th>
<th>Three IR Bands</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detection Range</td>
<td>n-Heptane 140 ft (43m)</td>
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<tr>
<td></td>
<td>Gasoline 140 ft (43m)</td>
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<tr>
<td></td>
<td>Diesel Fuel 100 ft (30m)</td>
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<tr>
<td></td>
<td>JP5 100 ft (30m)</td>
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<tr>
<td></td>
<td>Kerosene 100 ft (30m)</td>
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<tr>
<td></td>
<td>Alcohol (Ethanol) 100 ft (30m)</td>
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</tbody>
</table>

*Highest sensitivity setting for 1 ft² (0.1m²) pan fire

Response Time: Typically 5 sec.
Adjustable Time Delay: Up to 30 seconds

Sensitivity Range: 4 sensitivity ranges for 1 ft² (0.1m²) 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%

ELECTRICAL SPECIFICATIONS

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 or 0.5A at 250 VAC Fault relay normally closed, Alarm Relay normally open

20/20MPI-M 0-20mA: Source configuration
Fault: 0 +0.5mA
BIT Fault: 2mA ±10%
Normal: 4mA ±10%

Warning: 16mA ±5%
Alarm: 20mA ±5%
Resistance Loop: 100-600 Ω

MECHANICAL SPECIFICATIONS

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 APPROVALS

FM3260: Approved
EN54-10 (CPD): Pending

ACCESSORIES

Tilt Mount: 768004 (included with each new detector)
Protective Cover: 768005 (included with each new detector)
Fire Simulator: 20/20-310

Specifications subject to change
For more information view manual or website www.spectrex.net