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

Finally...
...a Low Cost, High Performance, High Reliability, Long Distance...

NEW IR3 Flame Detector for INDOOR applications!!!
GENERAL SPECIFICATIONS

**Spectral Response**
Three IR Bands

**Detection Range**
- n-Heptane: 140 ft (43m)
- Methanol: 100 ft (30m)
- IPA (Isopropyl Alcohol): 115 ft (35m)
- Methane*: 40 ft (12m)
- LPG (Propane)*: 40 ft (12m)
- Polypropylene Pellets: 50 ft (15m)
- Office Paper: 50 ft (15m)

*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

**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, 25mA at Alarm
- 20/20MPI-M at 24V DC: Max. 16mA at Normal, 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) |
| Protectve 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