Multi Sensor Detector
(Combined Smoke & Heat)

Optical Smoke Detector

ROR & Fixed Temp.
Heat Detector

UV Detector

Standard Base

Features :-

- **Comply to EN54 Part 5 & Part 7 Standards**
- **Address is Soft Coded by Electronic Programmer**
- **Compensation for drift of Temperature & Humidity, and detection of dust accumulation.**
- **Non-polarised two-bus signal**
- **8 Bit Intelligent Processor with Fire Algorithms Analysis**

Multi Sensor Detector

The Detector combined the features of DET-A102 Optical Smoke Detector and DET-A103 Heat Detector, to provide superior multi-sensing coverage for fire detection.

Optical Smoke Detector

Particularly effective in detecting large visible smoke particles such as those produced by smouldering wood, paper, PVC or polyurethane foam. General usage is also suitable.

The smoke detectors detect fire by the scattering of infrared beam, whose circuits are consisted of infrared beam emitters and receivers. The emitting and receiving lens are in the optical sensing chamber, screening any interference from outside lights, without preventing the entrance of smoke particles. In a smokeless condition, it only receives very weak infrared light; when smoke particles enter, the received light signal increases due to scattering. When the smoke reaches a predetermined density, it will trigger an alarm signal.

To reduce interference and power consumption, pulsed emitting circuits are used to increase the life of the emitting lens.

etect a 3cm flame at 6

acilities or Warehousing

The Detector Range :-

The range of Addressable Fire Detectors are designed to suit various site requirement and conditions

With an aesthetically pleasing low profile to blend into any interior architectural layout, the detectors are stable and reliable in performance with high environmental resistance.

Smoke and Heat sensitivity are programmable by Handheld Programmer.

Combination Rate-of-Rise & Fixed Temp Heat Detector

Rate-of-Rise Heat Detectors are particularly suited in areas where the temperature is normally fairly stable – useful for low ambient temperature areas where the response of fixed temperature may be slower.

Rate-of-Rise heat detectors respond to rises in temperature, but also include a fixed temperature circuit, preset approximately to 57°C, for even higher safety.

Fixed Temp. Heat Detectors are particularly suited to areas where temperature can fluctuate for natural reason – e.g. where there are large windows or industrial heat producing processes.

Fixed Temp. heat detectors are preset to trigger alarm when the temperature reaches approximately 57°C – therefore an excellent way of avoiding continual false alarms in areas where the temperature fluctuates rapidly.

Electronic thermistor type detector element provides high accuracy with no moving parts, which results in excellence reliability.

Ultraviolet Flame Detector

Designed as a general purpose flame detector, where threat of fires involves hydrocarbon fuels such as gasoline, hydraulic fluid, paint, natural gas, propane, acetylene,..etc.

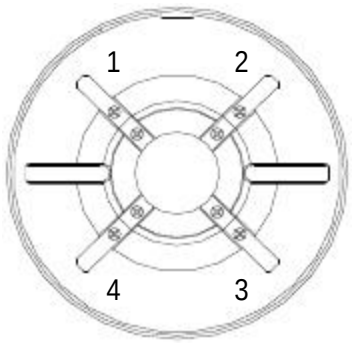
The detection angle is at 80°, set to d

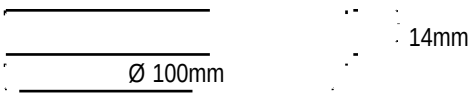
metres, suitable for Petrochemical F

of flammable liquid or gases.

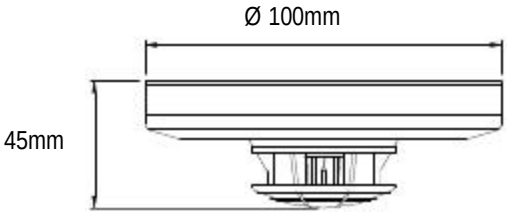
Type of Detector	Multi Sensor	Optical Smoke	ROR / Fixed Temp.	Ultra Violet
Operating Voltage	Loop 24VDC (Range 16V to 28V)			
Standby Current	0.8mA	0,8mA	0.8mA	2.0mA
Alarm Current	1.8mA	2.0mA	2.0mA	2.5mA
Max. Air Velocity	7.6m/s	7.6m/s	NA	NA
Weight (with Base)	165g	165g	135g	155g
Temp. Range	-10°C to +50°C			
Relative Humidity	≤ 95%			
Alarm LED	Red (Flashes during polling, constantly lit when Alarm)			
Ingress Protection	IP42	IP42	IP53	IP52
Material of Body	ABS			
Colour of Body	White			
Programming Mode	Electronically Soft Addressing, Address Code 1 to 242			

TYPICAL DETECTOR DIMENSION

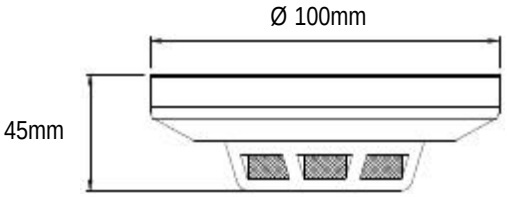




DETECTOR BASE
MODEL : DZ-03



HEAT DETECTOR
MODEL : DET- A103



OPTICAL SMOKE DETECTOR
MODEL : DET-A102

TYPICAL DETECTOR TERMINATION DIAGRAM