



Eurotech EURV-PHI Intelligent Multi-Criteria Detector (100-2401V)

The EURV-PHI Intelligent Multi-Criteria Detector is a point detection device that continuously samples both the air and the temperature variation in the protected area to provide the earliest warning of a fire condition. Special algorithms utilise information from both the smoke and heat sensing elements to ensure high level of false alarm rejection without compromising genuine alarm sensing performance.

This detector forms part of the Eurotech range of aesthetically pleasing low profile detection and alarm products and is fully compatible* with all fire control equipment utilising the Eurotech fully digital communication protocol.

KEY FEATURES

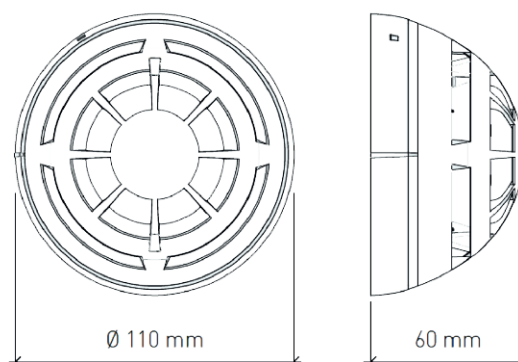
- Nine modes of operation
- Bi-directional isolator to protect against cable faults
- Utilises fully digital Eurotech protocol with high noise rejection
- Dual bi-colour LEDs providing 360deg cone of visibility
- Dust Restrict Chamber (DRC) technology offering good immunity to airborne contaminants
- Open style mounting base offers easy wiring and low pressure locking
- Programmable using the Device Programming Tool
- Magnet test capability
- 5 year product warranty
- Thermal part Category A1R approved

TECHNICAL SPECIFICATION

Loop voltage range	15 – 40Vdc*
Average Standby Current	85µA @ 24Vdc
Remote Output Max Current	220mA
Dimensions	110mm x 60mm
Weight (standard base included)	130g
Temperature Range (no icing)	-30°C to +70°C
Max. humidity (non condensing)	95% RH
Max number of loop addresses	240
IP rating	40 (42 with base's waterproof protection)
*Min 18Vdc for operation of LED	

STANDARDS & APPROVALS

- EN 54-5: Heat Detectors - Point Detectors
- EN 54-7: Smoke detectors
- EN 54-17: Short circuit isolators



LED INDICATORS

The detector is equipped with two LEDs mounted to give 360 degree visibility. These indicators display device status and condition*:

NOTE : The LED indicators are managed directly by the fire control panel and the Red (blinking) can be disabled by the installer at the fire control panel or via the hand-held programming unit.

** All functionality may not be available on all control equipment*

Green: Normal operational status (blinking)

Red: Detector in an alarm condition

Amber: Detector in a fault condition

REMOTE OUTPUT CAPABILITY

A remote output capability is available as a standard feature on this device. This allows the connection of a Remote Indicator Module or a compatible Platform Sounder (check power requirements) to be connected to the detector base terminals and controlled from the fire alarm control panel.

NOTE: If other equipment is connected to the remote output, its supply current must be limited by using an adequate resistor. Consult the TECHNICAL SPECIFICATIONS and assess the external device current absorption value. Ensure correct cable polarity.

INSTALLATION - WIRING

The detector must be mounted on a compatible detector base and all analogue loop wiring must be correctly terminated as shown:

- Connections to the detector base terminals are polarity sensitive.
- Care should be taken to ensure correct cable polarity.

BASE COMPATIBILITY

This device is compatible with the following Eurotech bases and base sounders:

100-3000V Intelligent Base

100-2010V Intelligent Addressable Base Sounder

100-5011V Intelligent Addressable Base Sounder VAD

