

# DATASHEET

## INTELLIGENT MULTI-CRITERIA DETECTOR

HFI-MA-05

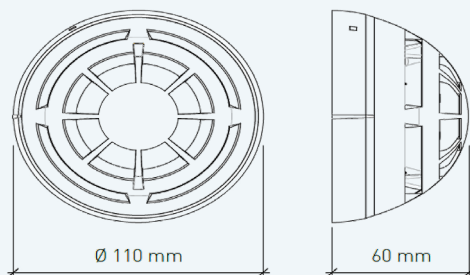
The HFI-MA-05 Intelligent Multi-Criteria Detector is a point detection device that continuously samples both the air and the temperature variation in the protected area to provide the earliest warning of a fire condition. Special algorithms utilise information from both the smoke and heat sensing elements to ensure high level of false alarm rejection without compromising genuine alarm sensing performance. This detector forms part of the Altair range of aesthetically pleasing low profile detection and alarm products and is fully compatible\* with all fire control equipment utilising the Hyfire fully digital communication protocol.

\* For BASE COMPATIBILITY see page 2

### KEY FEATURES

- Nine modes of operation
- Bi-directional isolator to protect against cable faults
- Utilises fully digital Argus 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

### TECHNICAL INFORMATION



# Hyfire



### TECHNICAL SPECIFICATION

Loop voltage	15Vdc – 40Vdc *
Average standby current	85µA @ 24Vdc
Remote Output Max Current	20mA
Dimensions (inc. base)	110mm x 60mm
Temperature Range (no icing)	-10°C to +55°C **
Max tolerated humidity (non condensing)	95% RH
Max number of loop addresses	240
Weight (standard base included)	130 g

\*\*Performance may vary at extremes of range.

### STANDARDS & APPROVALS

BS EN 54-5: + A2: Heat Detectors  
- Point Detectors AIR  
BS EN 54-7 Smoke Detectors  
- Point Detectors using scattered light,  
transmitted light or ionisation  
BS EN54-17: Short Circuit Isolator  
CEA 4021: Multisensor Detectors



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## HFI-MA-05



### LED INDICATION

The detector is equipped with two tri-colour 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 Green (blinking) can be disabled by the installer at the fire control panel or via the hand-held programming unit.

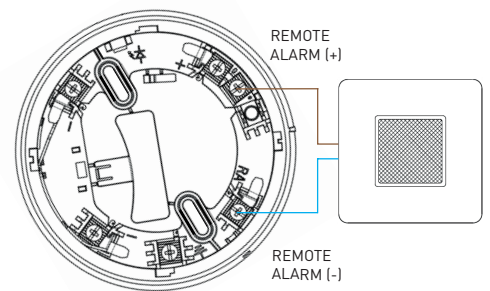
\* All functionality may not be available on all control equipment

### 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 on page 1 and assess the external device current absorption value. Ensure correct cable polarity.

- **Green: (blinking)** Normal operational status
- **Red:** Detector in an alarm condition
- **Amber:** Detector in a fault condition



### 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 Hyfire bases and base sounders:

- HFI-DMBS-05 Intelligent Base
- HFI-ABS-05 Intelligent Addressable Base Sounder
- HFI-ABSB-05 Intelligent Addressable Base Sounder VAD
- HFI-EBS-05 Platform Base Sounder
- HFI-EBSB-05 Platform Base Sounder VAD

