

FF Data Sheet | Multi-Criteria & Multi-Sensor Detector

FWOHX

Digital Addressable Multi-Criteria Detector

The FWOHX is a high-performance digital multi-criteria detector that combines both smoke and heat sensing technologies in a single point-type device.

Designed for compatibility with Fusion AU-5000 control panels, it utilises Distributed Intelligence to ensure fast, accurate detection while significantly reducing false alarms.

By continuously analysing the protected environment for smoke particles and temperature variations, the FWOHX provides earliest possible warning of fire conditions.

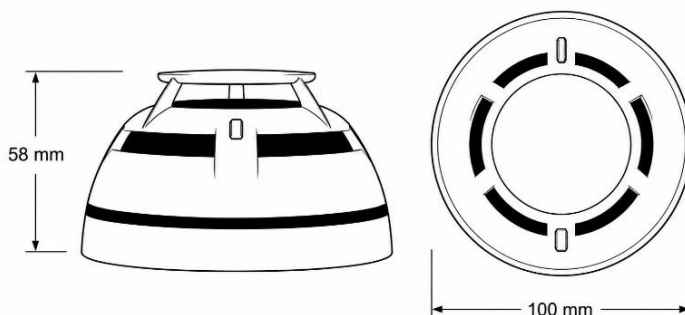
Advanced algorithms evaluate inputs from both sensors to optimise response, maintain high immunity to false triggers, and support Drift Compensation, automatically adjusting sensitivity as the detector becomes contaminated. When 80% of the adjustment threshold is reached, a maintenance alert is sent to the CIE.

The FWOHX can also operate as a multi-sensor detector, with each sensing element used independently, ideal for complex cause-and-effect logic requirements.

Its enhanced optical chamber design and Dust Restrict Chamber (DRC) technology provide excellent resistance to airborne contaminants without compromising detection performance.

With a low-profile aesthetic, this detector is suited for modern environments and easy installation.

Diagram



Key Features

- 9 fully approved sensitivity modes
- Combines smoke and heat detection for early warning and versatility
- Uses Fusion's Digital Distributed Intelligence protocol for high noise immunity
- Dust Restrict Chamber (DRC) technology for advanced dust resistance
- Dual bi-colour 360° LEDs for clear visibility
- Integrated bi-directional short circuit isolators
- Built-in magnet test for easy verification
- Open style mounting base for simple wiring and secure locking
- Supports manual or auto addressing via panel or programming tool

*The suffix 'X' denotes the device is fitted with a Short Circuit Isolator. The FWOH is the same as the FWOHX in terms of functionality, but it does not have an in-built short circuit isolator or a magnet test facility.

Specifications

Dimensions	49 × 100 mm
Weight	130 g
Operating Temperature	–30°C to +70°C
Maximum Humidity	up to 95% RH
Loop Voltage	18–40 V DC (operates down to 15 V without LED indication)
Average Standby Current	85 µA @ 24 V DC
Remote Output Max Current	20 mA
Max Loop Addresses	240
IP Rating:	IP40 (IP42 with silicone base gasket)

Certification & Approval

AS 7240.5	Heat Detectors
AS 7240.7	Smoke Detectors
AS 7240.15	Multi-Criteria Detectors
AS 7240.17	Short Circuit Isolators
AS 7240.13	System Compatibility

Part Numbers

FWOHX	Digital Addressable Multi-Criteria Detector c/w Short Circuit Isolator,
FWOH	Digital Addressable Multi-Criteria Detector c/w Automatic Drift Compensation (non-SCI)
FWMB	Standard Addressable Detector Mounting Base c/w Loop Continuity Clip
FWS2AMB	Slave Sounder Base. Loop Powered and addressed from the Detector Sub-Address
FWS2MB	Addressable Synchronised Sounder Base. loop powered with primary and secondary tones.
FWSV2AMB	Addressable Sounder & VAD Base. Loop Powered and Controlled from the Detector Sub-Address.
FWSV2MB/RF	Addressable Synchronised Sounder & VAD Base. Loop Powered and addressed from the detector sub address.
FWSV2MB	Addressable Synchronised Sounder & VAD Base. Loop Powered and addressed from the detector sub address.
FWSV2MB/RF	Addressable Synchronised Sounder & VAD Base. Loop Powered and addressed from the detector sub address.
FWSMB	Digital Addressable Loop Powered, Synchronised Sounder Base c/w 30 Tones Selectable by logic
FWP	Silicon Gasket for AXIS Standard Addressable Detector Mounting Base