Fusion Advanced

Axis AU

Intelligent Multicriteria Detector

The **Axis-OHX** Digital Multicriteria Detector is a point type addressable detection device that continuously monitors the air in the protected area to provide the earliest warning of a fire condition. The detector utilises the fully digital Axis protocol with high noise rejection and a fast response, even over long cable distances.

The advanced design of the smoke inlet and optical chamber employs our unique **Dust Restrict Chamber (DRC)** technology, offering almost total immunity to airborne contaminants and insects. The design ensures maximum airflow for improved detection of genuine fires and the chamber also incorporates a contaminant collection pan, which is designed for easy removal and cleaning of the smoke chamber. The **DRC** design guarantees a very high resistance to the entry of dust and insects, ensuring a higher level of false alarm rejection without compromising sensing performance.

240 Devices can be installed on 1 loop and each detector has a freely programmable **Sub-Address** (additional to the 240). This can be used for operating sounder bases and remote indicators. The Sub-Address can be programmed to operate from any device or event in the system.

Individual devices can be programmed for optimum performance by using multiple sensitivity settings and the control panel's in-built **False Alarm Management Tool** software. This allows the device to operate according to differing time of day requirements, or specific site conditions. Full **Pre-Alarm** notification can also be adjusted from 1 to 99% of the alarm threshold, providing very early indication of a potential alarm. Events can also be programmed from the Pre-Alarm condition.

Incorporated in each device is **Automatic Drift Compensation** . Each detector will automatically adjust itself for any contamination over time. This ensures the detector does not become more sensitive and further reduces the potential for false alarms. **Maintenance Warnings** are indicated at the control panel once the device has reached 80% of its adjustment capability, alerting users to the need for maintenance.

The Axis-OHX has additional unique capabilities. In-built bi-directional **Short Circuit Isolators** (SCI) protect against cable faults and increase the system's integrity. For example, no devices are lost during a single short circuit condition and only the devices between each short circuit are lost with multiple short circuits. This also saves time when commissioning and finding cable faults.

Auto Addressing is available when using these devices by selecting 'sequential addressing' on the control panel, the system will Auto Address the devices on a loop. **Dual bi-colour LEDs** are provided offering a clear 360deg cone of visibility. The devices can also be programmed to poll Green when normal and Red in Alarm. The poll indication can also be switched off if required. A **Magnet Test Facility** is also incorporated allowing easy testing of device location during commissioning and service.

Features

- Nine modes of operation
- Bi-directional isolator to protect against cable faults
- Utilises Axis protocol with high noise rejection
- Dual bi-colour LEDs providing 360° cone of visibility
- Dust Restrict Chamber (DRC) technology offering advanced immunity to airborne contaminants
- Short Circuit Isolators (SCI) - Improves system integrity and saves time when commissioning and fault finding.
- Open style mounting base offers easy wiring and low pressure locking
- Addressing and sensitivity settings using the Device Programming Tool or Auto addressing capability via the fire control panel
- Magnet test capability

All Axis Detectors share the common **Axis-MB Mounting Base** . This also incorporates an open centre style design that provides a large cable entry area which makes it easy to install. The base also has a **Continuity link** to ensure line continuity if a device with a short circuit isolator is removed. This also enables circuit continuity testing without devices installed. Optional **Address Tags** are provided in the form of a break out tab in every base and this offers an elegant solution to providing loop and sensor identification for each device. The tab easily clips into the base. A Locking Tab is also provided with each base incorporates a locking tab that be inserted to prevent unauthorised removal of the device.

Standards & Approvals

- AS 7240.5 - Point type heat detectors

Specification

Loop Voltage (*)	18-40 V_{dc}
Average Standby Current	85 µA @ 24V_{dc}
Remote Output Max Current	20 mA
Max number of loop addresses	240
Operating Temperature Range	-10°C / +55°C
Humidity (non condensing)	95% RH
Dimensions H x D	60 x 110 mm
Weight (Standard Base included)	130 g

(*) Product operates down to 15 V, but without LED indication.

Order Codes and Options

Axis-OHX	Digital Multicriteria Detector
Axis-MB	Base
Axis-SAMB	Slave Sounder Base
Axis-SVAMB	Slave Sounder Beacon Base
Axis-SMB	Digital Sounder Base
Axis-SVMB	Digital Sounder Beacon Base
Axis-WP	Silcon Base Gasket

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