

Technical Datasheet

Algorithmic Detectors

Product category:

Detectors

SKU:

AXO/AXON/AXT/AXTN/AXOT/AXOTN

Description

EHOX Algorithmic Fire Detectors – AI-Based DM SENSOR Technology.

EHOX algorithmic fire detectors incorporate DM SENSOR technology, a next-generation detection solution developed with the help of Artificial Intelligence (AI), designed to offer the highest level of reliability, accuracy, and adaptability in early fire detection.

DM SENSOR technology enables each detector to perform advanced, dynamic analysis of the signals it captures, while also integrating local data storage capabilities. The detector records and stores in its own memory the information corresponding to the 5 minutes preceding a fire alarm, providing a detailed history of the event's progression and reinforcing the alarm's validation.

EHOX algorithmic detectors continuously interact with the NUSKU® smart platform. On this platform, the data provided by each detector is compared with progression curves and models of multiple fire types, generated from information received from detectors installed in different locations and real-world scenarios. This collaborative analysis process not only minimizes the false alarm rate but also constantly optimizes the system's ability to identify a genuine alarm.

Thanks to its architecture based on continuous learning, EHOX DM SENSOR technology is constantly evolving, adapting to new environmental conditions, applications, and real-world fire behavior.

All EHOX DM SENSOR algorithmic detectors are compatible with the EHOX ZX, LX, and BX control panel series.

Variants



OPTICAL
AXO



THERMAL
AXT



OPTICAL - THERMAL
AXOT

Features of the Optical Detector

- ✓ Sleek, low-profile design
- ✓ DM Sensor technology
- ✓ Optical labyrinth (Tyndall) detection
- ✓ Status indicator LED
- ✓ QR code programming via app
- ✓ Two-wire connection (non-polarized) with or without an isolator
- ✓ Lens protected by a grille
- ✓ Lens dirt compensation
- ✓ Base connection via dual contacts
- ✓ Compatible with all EHOX algorithmic control panels
- ✓ Address range from 1 to 250 or 350 (depending on the panel)
- ✓ Requires BS or BSA base

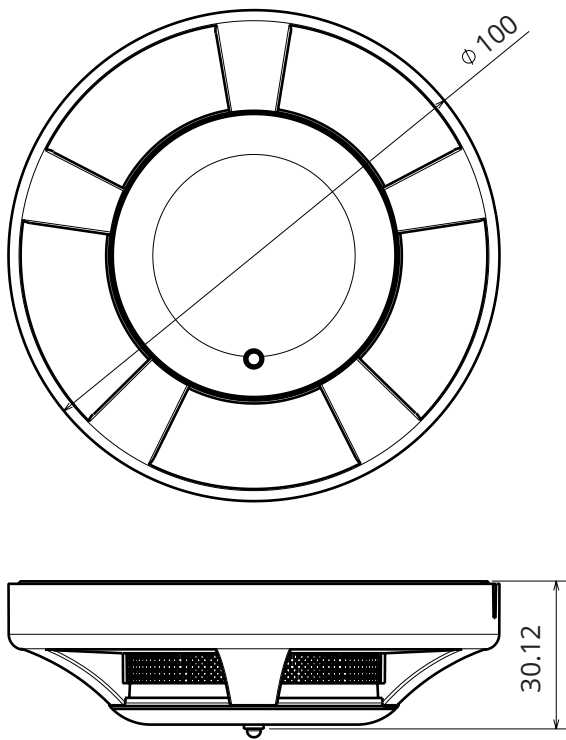
Features of the Optical-Thermal Detector

Optical-thermal detectors have the same features as optical detectors, plus the following:

- ✓ Fixed thermal detection threshold of 58°C

Technical Specifications	
Dimensions • AXO/AXON • AXT/AXTN/AXOT/AXOTN	100mm Ø x 30mm 100mm Ø x 38mm
Structure	ABS WHITE plastic box RAL 9010
Operating voltage	from 24 to 32 Vcc
Wiring	2 x 1,5mm ² shielded twisted-pair LSZH cable, BS or BSA compliant
Standby power consumption	<300 µA
Alarm power consumption	<11 mA
Climate classification	3K5, (IEC 721-2-3)
Operating temperature	-10°C to +70°C
Relative humidity	5% to 95% non-condensing
Ingress protection	IP20 (EN60529)
Certifications	EN54-5, EN554-7 Y EN54-17

Dimensions AXO



Dimensions AXT & AXOT

