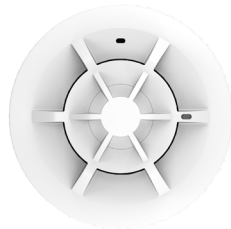


DHI-HY-1320

Multi-sensor Smoke and Heat Detector



- Convenient wiring: Two-wire, polarity-free
- Reliable communication: Built-in microprocessor, stable performance
- Ultra-low power consumption: Ultra-low monitoring current and alarm current
- Detection performance: Split-spectrum optical smoke sensor and sensitive thermistor

System Overview

DHI-HY-1320 Addressable Multi-sensor Detector is a mated product of the addressable fire alarm system. Integrated with an optical smoke sensor and a thermistor temperature sensor, this detector analyzes smoke and ambient temperature by intelligent algorithm to trigger alarms. When the pre-setting alarm threshold reaches, the Addressable Fire Alarm Control Panel will confirm a fire alarm according to the received message sent from the detector, and the detector indicator will light simultaneously to indicate alarm.

Functions

Fast response

When the smoke concentration reaches the alarm threshold, the detector reports fire alarm within 1 second.

Split-spectrum photoelectric smoke sensing chamber

Integrated with split-spectrum photoelectric smoke sensing chamber, it identifies smoke effectively and provides higher fire detection accuracy.

Back light compensation

The smart algorithm of automatic compensation against dust concentration helps adjust alarm threshold, prolong cleaning cycle of chamber, and offer a convenient maintenance.

Heat detection

When the temperature reaches differential or constant alarm threshold, temperature alarm is triggered, suitable for different situation.

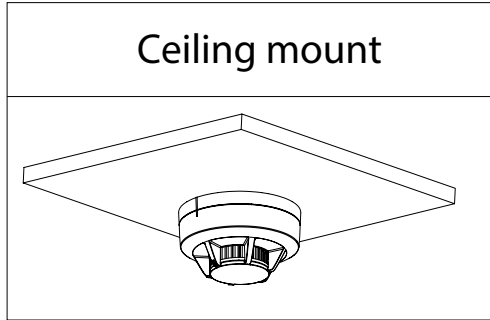
Scene

It is suitable for such industrial and civil buildings such as apartments, condominiums, offices, retail stores, and warehouses.

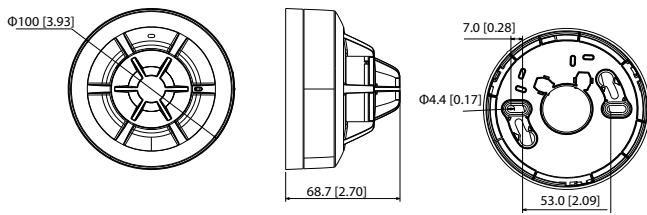
Technical Specification

Power	24V DC
Current	Monitoring current: $\leq 180\mu\text{A}$ Alarm current: $\leq 270\mu\text{A}$
Indicator	Red Polling: Flash 6 seconds Alarm: Remain lit Fault: Flash 2 seconds
Alarm Threshold for Heat Detection	A2R (54°C to 62°C)(129°F to 144°F)
Wiring	Two-wire, polarity-free
Addressing Method	Electrical encoder
Address Range	1–254
Communication Distance	$\leq 1500\text{ m}$ (4921.26 ft)
Operating Temperature	-10°C to $+50^{\circ}\text{C}$ ($+14^{\circ}\text{F}$ to $+122^{\circ}\text{F}$)
Storage Temperature	-20°C to $+65^{\circ}\text{C}$ (-4°F to $+149^{\circ}\text{F}$)
Operating Humidity	$\leq 95\%$ RH (no condensation)
Color	White
Dimensions (with base)	$\Phi 100\text{ mm} \times 68.7\text{ mm}$ ($\Phi 3.00'' \times 2.70''$)
Weight (with base)	106.3 g (0.23 lb)

Installation



Dimensions (mm/inch)



Ordering Information

Type	Part Number	Description
Addressable Multi-sensor Detector	DHI-HY-1320	Addressable Multi-sensor Smoke and Heat Detector
Accessories	DHI-HY-TCDZ	Detector Base