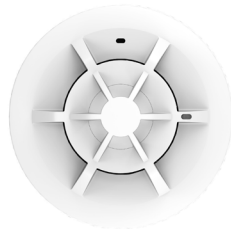


# DHI-HY-1320

## 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.

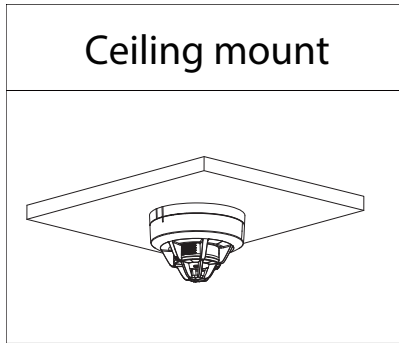
### Scene

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

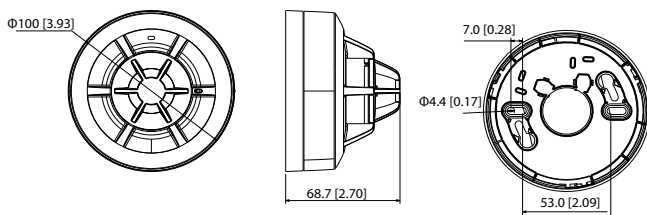
### Technical Specification

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	$-10^{\circ}\text{C}$ to $+50^{\circ}\text{C}$ ( $+14^{\circ}\text{F}$ to $+122^{\circ}\text{F}$ )
Storage Temperature	$-20^{\circ}\text{C}$ to $+65^{\circ}\text{C}$ ( $-4^{\circ}\text{F}$ 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	Model	Description
Addressable Multi-sensor Detector	DHI-HY-1320	Addressable Multi-sensor Smoke and Heat Detector
Accessories	DHI-HY-TCDZ	Detector Base