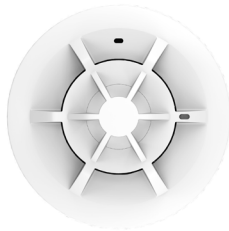


# DHI-HY-1320

## 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
- Designed in accordance with EN54-5 and EN54-7 standards

### 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.

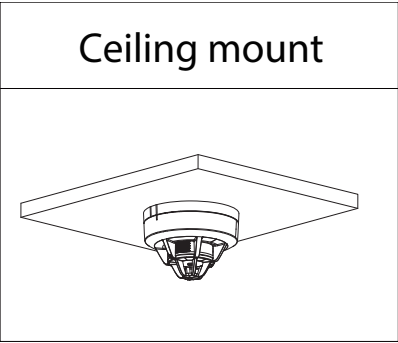
### Scene

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

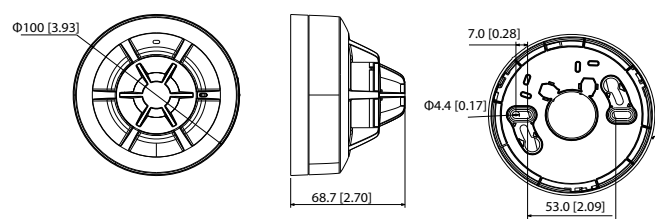
### Technical Specification

|                                    |   |
|------------------------------------|---|
| Power                              | 24V DC  |
| Current                            | Monitoring current: $\leq 150\mu\text{A}$<br>Alarm current: $\leq 240\mu\text{A}$ |
| Indicator                          | Red<br>Polling: Flash 6 seconds<br>Alarm: Remain lit<br>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°C (+14°F to +122°F)  |
| Storage Temperature                | –20°C to +65°C (–4°F to +149°F)   |
| Operating Humidity                 | $\leq 95\% \text{ RH}$ (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)   |
| Compliance Standard                | EN54-5, EN54-7  |

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                                    |