DHI-HY-1310

Addressable 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: Accurate temperature detection by sensitive sensor
- Designed in accordance with EN54-5 standard

System Overview

DHI-HY-1310 Addressable Heat Detector is a mated product of the Addressable Fire Alarm Control Panel. Integrated with non-polarity two wire and temperature sensor, this detector analyzes ambient temperature by intelligent algorithm to trigger alarms. When the temperature has reached the alarm threshold, 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 temperature reaches the alarm threshold, the detector reports fire alarm within 1 second.

Fire 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 that have a great deal of heat when fire takes place, such as kitchens, boiler rooms, generator rooms, drying workshops and smoking rooms and it is not suitable for places with a great deal of smoke but little heat.
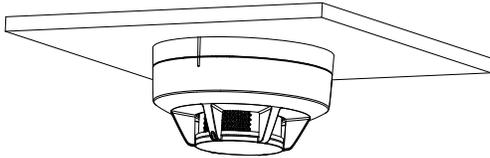
Technical Specification

Power	24V DC
Current	Monitoring current: ≤ 120μA Maximum operating current: ≤ 200μA
Indicator	Red Polling: Flash 6 seconds Alarm: Remain lit Fault: Flash 2 seconds
Sensor Class	A2R
Fixed Detection Threshold	62°C ± 3°C (144°F ± 37.4°F)
Dynamic Detection	1 to 30 K min^{-1}
Wiring	Two-wire, polarity-free
Addressing Method	Electrical encoder
Address Range	1–254
Communication Distance	≤ 1500 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	≤ 95% RH (no condensation)
Color	White
Dimensions (with base)	Φ 100 mm × 50 mm (Φ 3.00" × 1.50")
Weight (with base)	81 g (0.18 lb)
Compliance Standard	EN54-5

Response Time Limits

Rate of Rise of Air Temperature	Lower Limit of Response Time		Upper Limit of Response Time	
K min^{-1}	min	s	min	s
1	29	0	46	0
3	7	13	16	0
5	4	9	10	0
10	2	0	5	30
20	1	0	3	13
30		40	2	25

Installation

Dimensions (mm/inch)

100[3.00]　　50[1.50]
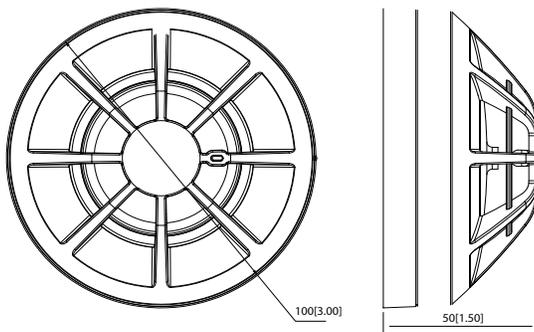
Ordering Information

Type	Model	Description
Addressable Heat Detector	DHI-HY-1310	Addressable Heat Detector
Accessories	DHI-HY-TCDZ	Detector Base