

DHI-HY-2311-RE

Addressable Heat Detector



- 4W-B Heat Detector, compatible with remote indicator
- Non-loosening screws on base terminal for easy installation
- Contacts material is highly acid-resistant and rust-resistant
- Designed in accordance with EN54-5 standard

System Overview

The DHI-HY-2311-RE is a 4W-B addressable heat detector that operates on a polarity-free two-wire power supply. It primarily utilizes a thermal sensing element to detect fires. During the initial stages of a fire, a significant amount of heat is released, causing a rapid increase in the surrounding temperature. The thermal element in the detector undergoes a physical change in response to abnormal temperature, temperature rate, and temperature differential, converting the temperature signal into an electrical signal to trigger an alarm.

Functions

Sensitive Heat detection

The detector uses a sensitive thermal element to monitor temperature and emits an alarm when a fire raises the temperature.

Addressability

After a fire alarm is triggered, the specific location of the alert can be accurately identified.

Scene

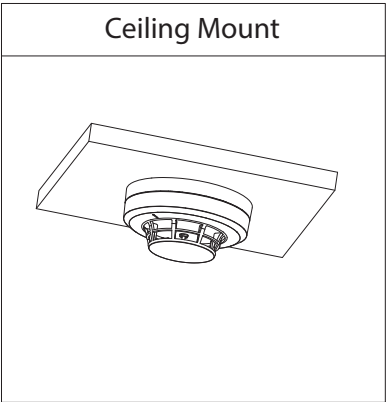
It is compatible with addressable fire alarm control panels and is suitable for use in residential buildings, hotels, offices, educational institutions, banks, libraries, warehouses, computer rooms, communication rooms, and archival storage in both civilian and industrial structures.

Technical Specification

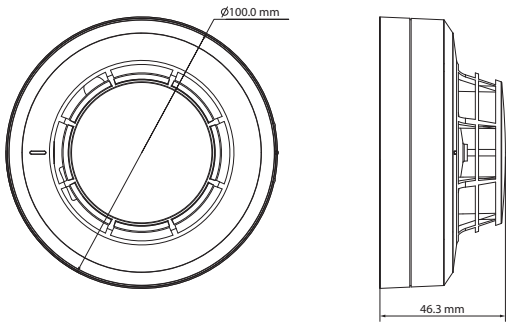
Surveillance Area	For installation heights below 4 m, the coverage area is 150 m ² For installation heights between 4 m and 12 m, the coverage area is 80 m ²
Relay Out	Yes
Working Principle	Heat detection
Sensor Class	A2R
Fixed Detection Threshold	62°C ± 3°C (144°F ± 37.4°F)
Dynamic Detection	1 to 30 K min ⁻¹
Alarm Mode	Indicator light alarm
Operating Voltage	DC 24V
Operating Current	Static current: ≤ 300μA Alarm current: ≤ 7.5mA
Operating Temperature	-10°C to +50°C (14°F to 122°F)
Operating Humidity	≤ 95% RH (no condensation)
Dimensions (with base)	Φ100 mm × 46.3 mm (Φ 3.94" × 1.82")
Weight (with base)	102 g (0.22 lb)
Installation	Ceiling Mount
Compliance Standard	EN54-5

Response Time Limits				
Rate of Rise of Air Temperature	Lower Limit of Response Time		Upper Limit of Response Time	
	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)



Ordering Information		
Type	Model	Description
Addressable Heat Detector	DHI-HY-2311-RE	Addressable Heat Detector