

DHI-HY-L0100

LoRa Smoke Detector



- Completes EMC test, it has strong anti-electromagnetic interference ability, high stability and reliability
- Dual photoelectric smoking sensing chamber provides intelligent and accurate detection of smoke
- BLC algorithm automatically adjusts alarm threshold based on the smoke in the chamber, extending cleaning cycle and providing easier maintenance
- Promptly send out audible and visual alarm signals
- Contacts material is highly acid-resistant and rust-resistant

System Overview

DHI-HY-L0100 LoRa Smoke Detector can be connected to the Addressable Fire Alarm Control Panel. Compatible with wireless gateway, it transmits information through LoRa networking. This detector analyzes ambient smoke concentration through a dual photoelectric smoke sensing chamber.

Functions

Smoke detection

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

Dual photoelectric smoke sensing chamber

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

Wireless communication

Without wiring, easy installation.

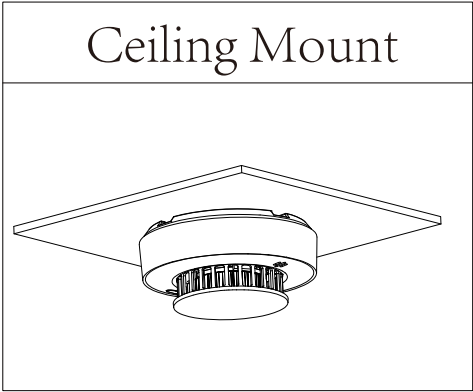
Scene

It is suitable for apartments, hotels, teaching buildings, office buildings, banks, libraries, warehouses, computer rooms, communication machine rooms, archives, and other industrial and civil buildings.

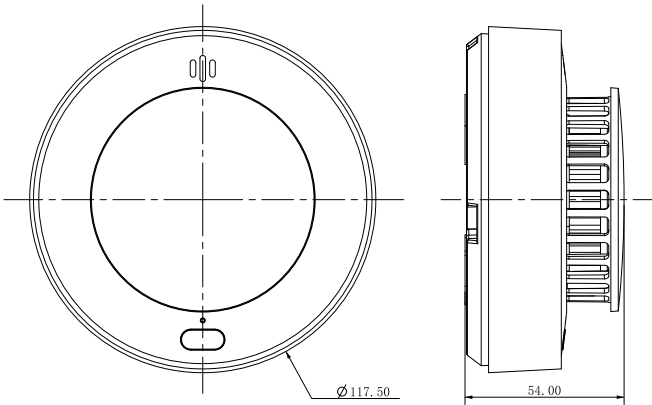
Technical Specification

Communication	LoRa(916MHz)
Communication Distance	Free space: a maximum of 1500 metres Ordinary walls: 3-5
Alarm Mode	Visual and audible alarm
Alarm Type	Smoke alarm, low battery warning, tamper alarm
Alarm Volume	Over 80 dB (A) at 3 m (9.84 ft)
Alarm Output	RF transmission
Manual Control	Manual alarm, manual silence, manual reset
Silence Duration	≤ 100 s
Operating Voltage	DC3V
Operating Current	Monitoring Current: ≤15uA Alarm Current: ≤35mA
LED Instruction	Alarm: Red indicator flashes once every second Fault: Red indicator flashes once every minute Standby: Green indicator flashes once every minute
Battery Life	About 3 years
Battery	DC3V, 1400mAh
Coverage Area	H ≤ 4 m (13.12 ft): 150 m ² 4 m(13.12 ft) ≤ H ≤ 12 m(39.37 ft): 80 m ²
Operating Temperature	-10°C to +55°C (+14°F to +131°F)
Storage Temperature	-20°C to +60°C (-4°F to +140°F)
Operating Humidity	≤ 95% RH (no condensation)
Dimensions (with base)	Φ117 mm × 53 mm (Φ 4.61" × 2.09")
Weight (with battery)	182 g (0.40 lb)
Installation	Ceiling Mount
Color	White

Installation



Dimensions (mm/inch)



Ordering Information		
Type	Part Number	Description
LoRa Smoke Detector	DHI-HY-L0100	LoRa Smoke Detector