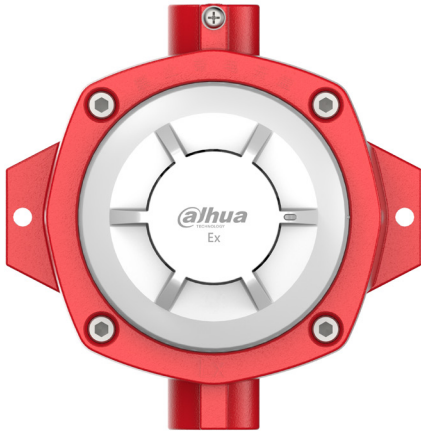


DHI-HY-A0120E

Addressable Explosion-proof Smoke Detector



- Certified by CE
- The product has an explosion-proof rating of Exd ib IIC T6 Gb
- The two-wire, non-polar design allows for quick and easy installation, making maintenance straightforward
- It features automatic sensitivity calibration and supports temperature and humidity compensation, ensuring stable operation over the long term
- The device is designed with a built-in isolation circuit and safety barrier, ensuring safe operation in environments containing flammable and explosive gases or dust

System Overview

The DHI-HY-A0120E Addressable Explosion-proof Smoke Detector includes two main components: a smoke sensing probe and a safety barrier. The probe uses infrared scattering technology as a point-type photoelectric smoke detector, while the explosion-proof safety barrier features a durable aluminum alloy casing for easy installation and excellent mechanical strength.

Functions

Reliable communication

It utilizes a high-performance microprocessor, ensuring stable operation.

Ultra-low power consumption

The static current and alarm current are extremely low, reaching as low as approximately 0.2mA.

Integrated intelligent algorithm

The intelligent learning compensation algorithm reduces false positives for greater detection accuracy, and the background light compensation algorithm assesses maze contamination levels, extending cleaning cycles.

High durability

Intrinsically safe and explosion-proof design, featuring excellent resistance to high humidity and strong corrosion.

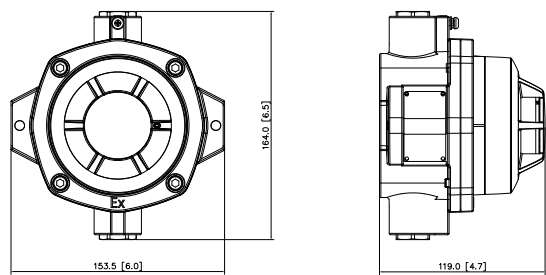
Scene

Used in high-risk areas such as petroleum, chemical, coal mining, and power generation, where flammable and explosive gases or dust are present, to ensure early fire hazard warning and safety in dangerous environments.

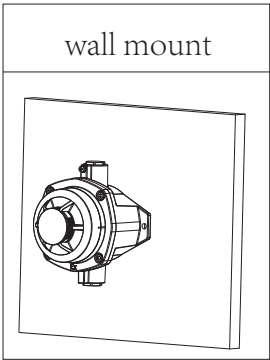
Technical specification

Working Voltage	DC24V
Current	Monitoring current: $\leq 160\mu\text{A}$ Alarm current: $\leq 210\mu\text{A}$
Indicator	Red Polling: Flash 6 seconds Alarm: Remain lit Fault: Flash 2 seconds
Explosion-proof Rating	Exd ib IIC T6 Gb
Protection Level	Explosion-proof section: IP67 Intrinsic safety section: IP43
Address Range	1–254
Communication Distance	$\leq 1500\text{ m}$
Operating Temperature	-10°C to $+50^{\circ}\text{C}$ ($+14^{\circ}\text{F}$ to $+122^{\circ}\text{F}$)
Storage Temperature	-20°C to $+65^{\circ}\text{C}$ (-4°F to $+149^{\circ}\text{F}$)
Operating Humidity	$\leq 95\%$ RH (no condensation)
Material	Main body: ABS Explosion-proof section: Die-cast aluminum ADC12
Color	Main body: White Explosion-proof section: Red
Dimensions	Main body: $\Phi 100.0\text{ mm} \times 54.0\text{ mm}$ (with base) Full product: $153.5\text{ mm} \times 154.0\text{ mm} \times 119.0\text{ mm}$
Weight (with base)	1.34 kg
Certifications	CE

Dimensions (mm/inch)



Installation



Ordering Information

Type	Model	Description
Addressable Explosion-proof Smoke Detector	DHI-HY-A0120E	Addressable Explosion-proof Smoke Detector