

# DHI-HY-BD1

## Beam Detector



- Auto-alignment and manual alignment supported
- Compatible with Dahua's addressable system protocol
- Direct integration with third-party detection systems
- Ultra low monitoring and alarm current
- Adjustable 3-level sensitivity
- Multi-state dual-color indicator
- CE Certified

### System Overview

Beam Detector is a reflective linear infrared smoke detector. The detector output an alarm signal if the amount of smoke on the optical path declines. It must be used in conjunction with the encoder.

### Functions

#### Convenient wiring

Two-wire, polarity-free

#### Strong anti-interference

Neural networks smoke recognition algorithm, immune to sunlight and other natural light interference

#### Ultra-low power consumption

Ultra-low monitoring current and operating current

#### Easy maintenance

A multi-stage drift compensation algorithm is used for dust accumulation

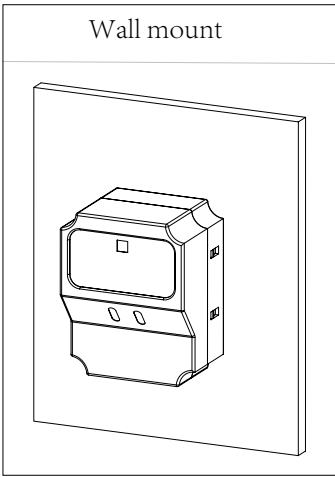
### Scene

It is suitable for factories, warehouses, airports, stations, and other unobstructed large spaces.

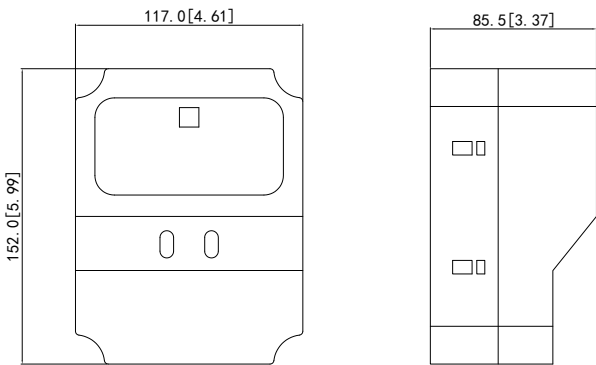
### Technical Specification

Working Voltage	24V DC
Current	Monitoring current: $\leq 1\text{mA}$ Operating current: $\leq 2.5\text{mA}$
Max. Optical Path Direction Deviation	$\pm 0.5^\circ$
Optical Path Length	10 m-100 m
Working Principle	Smoke detection
Installation Height	6-12m, max 20m
Coverage Radius	4.7m at 100m distance
Communication Method	Dahua addressable protocol or relay
Alert Events	Fire alarm and obstruction alarm
Calibration Method	Automatic calibration and manual calibration
Storage Temperature	$-10^\circ\text{C}$ to $+55^\circ\text{C}$ ( $+14^\circ\text{F}$ to $+131^\circ\text{F}$ )
Operating Humidity	$\leq 95\%$ RH (no condensation)
Color	White
Dimensions	117 mm $\times$ 152 mm $\times$ 85.5 mm (4.61" $\times$ 5.98" $\times$ 3.37")
Protection	IP65
Certification	CE

Installation



Dimensions (mm/inch)



Ordering Information

Type	Model	Description
Detector	DHI-HY-BD1	Beam Detector