

Operating Principle

The light-emitting chamber projects light that scatters upon hitting smoke particles. When the light-receiving chamber detects the scattered light and the smoke concentration reaches the preset alarm threshold, it immediately signals the fire alarm control panel.

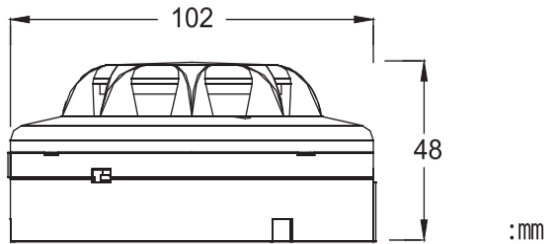
Features & Structure

- Sleek modern design with dual LEDs providing 360° visual angle.
- Universal multi-functional base design for convenient site installation.
- Special smoke chamber design significantly improves detection accuracy and minimizes dust accumulation.
- Passed EMC testing; resists interference from installation environments to prevent false alarms.
- Energy-saving, eco-friendly low power consumption design.
- Contacts made of non-oxidizing metal material to ensure excellent conductivity.
- Durable, flame-retardant engineering plastic housing that resists deformation and discoloration.
- Base wiring terminals feature captive screw design to prevent screw loss during installation.
- Drainage design prevents water accumulation, eliminating false alarms caused by ceiling or pipe leaks.



Specifications

Detector Type	Type 2
Sensitivity / Threshold	15% / m within 30 seconds
Alarm Current	DC 24V 40mA
Standby Current	DC 24V 30~80 μA
Ambient Temperature	0°C ~ +50°C
Relative Humidity	10% ~ 95% non-condensing
Material	Fireproof Plastic
Dimensions	102 mm (Dia.) × 48 mm (H)
Weight	Approx. 130 g
Color	White



Effective Coverage Area

Detector Type	Building Height	Coverage Area
Type 1 or Type 2	Under 4 meters	150 m ²
	4 m to under 20 m	75 m ²