

The Operating Manual of Two-wire Photoelectric Smoke Detector

User manual

Product overview

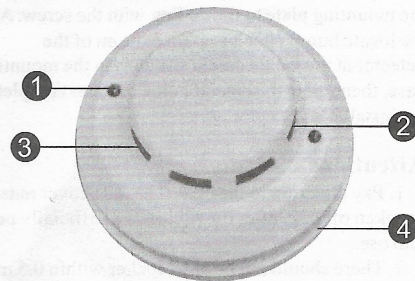
This product is a photoelectric smoke detector (the following referred to as the detector). The detector uses the principle that smoke particle can refract infrared light to detect fires. Its circuit consists of an infrared transmitter and a receiver part. Its launch tube and receiving tube are placed in the optical maze which can shield the interference of the stray light from outside and does not affect the smoke entering. The detector only receives weak infrared light in a smokeless state, but it can enhance the signal of received light when the smoke reaches a certain concentration and finally output the alarm signal. In order to reduce interference and power consumption, the detector takes pulse mode to transmit circuit, thus, the life of the launch tube can be extended.

Features

- Strong environmental adaptability
- SMT manufacturing process, Strong stability
- Operating voltage range: 9-35VDC
- Low quiescent current
- Metal shield, anti-radio frequency interference (20V/m-1GHz)

Technical parameters

- Operating voltage: DC9V-35V
- Quiescent current: $\leq 100\mu\text{A}$
- Alarm current: 70-90mA (DC24V/h)
- Remote output: $\leq 15\text{mA}$
- Alarm indicator: red LED
- Operating temperature: $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$
- environment humidity: $\leq 95\%\text{RH}$
- Coverage area: 80m^2 (space height : 6m~12m)
 60m^2 (space height : $\leq 6\text{m}$)
- Dimension: 104 mm (d) * 49 mm (h)



- 1、LED indicator light
- 2、Dust-proof covers
- 3、Maze
- 4、Installed base

Product installation

1. Connect the power line and the signal line to the mounting plate (Type A of the detector mounting plate: "1" represents the negative, "6" represents the positive and "3" represents the LED output. Type B of the detector mounting plate: "1" represents the positive, "2" represents the negative and "3" represents the LED output).

2. Select the appropriate installation location (the ceiling of the central region covered by detector), fix the mounting plate to the ceiling with the screw. Aim the locate bump which is at the bottom of the detector at the locate detent which is in the mounting base, then rotate the detector clockwise to complete the installation.

Attentions

1. Pay attention to the dust. The dust cover must be taken off only after the project was officially put into use.

2. There should not be any blocker within 0.5 m around the detector.

3. The horizontal distance from the detector to the edge of air hole on air conditioner should not be less than 1.5 m.

4. The horizontal distance from the detector to the walls and beam edge should not be less than 0.5 m.

5. When setting the detector on the inside aisle roof of less than 3 meters in width, the detector should be arranged in the center. The installation space of the detector should be no more than 15 meters. The distance from the detector to the side wall should not be more than half of the installation space of the detector.

6. The detector should be installed horizontally. If you have to tilt the detector, the angle of inclination should not be greater than 45 degrees.

7. The detector base should be firmly installed and its wire connection must be reliable.

8. It is recommended that a simulated firedrill should be carried out every six months.

Warranty information

Model	The Operating Manual of Two-wire Photoelectric Smoke Detector		
Warranty period			
Customer	Name		
	Tel.		Zipcode
	Address		
Supplier	Name		
	Tel.		Zipcode
	Address		
Warranty will be void if this product is used abnormally. Warranty will be void if the user tries to repair this product by himself.			