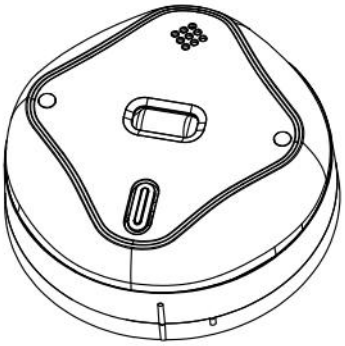
4 Wire Conventional UV Flame Detector AW-D146R

----------Please read this manual carefully before installing and using the product----------

BEFORE INSTALLING
NOTICE: This manual should be left with the owner / user of this equipment.
IMPORTANT: The detector must be tested and maintained regularly following the proper authority requirements. The detector should be cleaned at least once a year.

1. Overview



This UV flame detector uses the best flame sensor. It has sensitive response and large detection angle, and it is consistent and long-term stable and reliable.
The red LED indicators on the flame detector provide local 360° visual alarm indication. They flash every 5 seconds to indicate the detector is on and is working. When a flame is detected, the fire alarm will be triggered, the red LED indicator will be on, and the buzzer will make a loud alarm sound.
The test button is used to test whether the detector works normally. Each time the button is pressed, the buzzer will beep once and the red LED indicator will flash. During fire, the test button can be used to reset silence.
This product is 4-wire system, using relay output.

2. Features

- Easy to install, including mounting bracket
- Highly sensitive sensor, high-quality and durable
- Has alarm sound louder than 85dB@3m
- Local 360° visual alarm indicator
- Excellent reliability and stability
- Suitable for homes and other places where flame detection is required
- Complies with all requirements of the latest EN54-10 standard
- Neat appearance, large detection angle

3. Technical Parameters

Operating Voltage	DC12-24V
Operating Current	Monitoring status≤3mA, alarm status≤30mA
Spectrum	185-260nm
Sensitivity	Grade 1
Detection Angle	≤120°
Relay Contact Capacity	1A@DC 24V
Alarm SPL	≥85dB @3m
Operating Temperature	-10℃～50℃ 5% to 95% RH (non-condensing)
Application	For indoor use only
Standard Number Ref	EN54-10

Materials and Color	ABS, white
Size	φ99.8mm*43.2mm (Figure 1)
Weight	About 120g

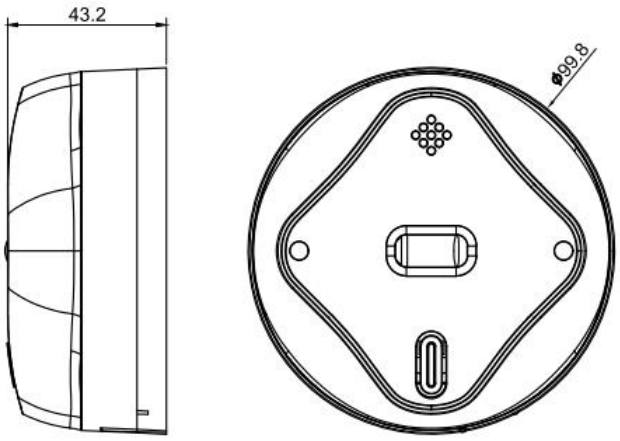


Figure 1

4. Mounting Base and Product Details

This UV flame detector should comply with all local codes. As shown in Figure 2, install the base of the fire detector on the wall. Then install the main body onto the base.
The UV flame detector's product details are shown in Figure 3.

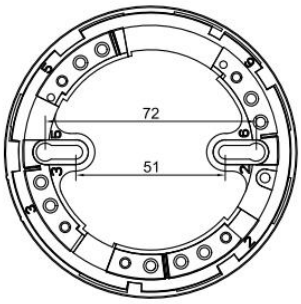


Figure 2

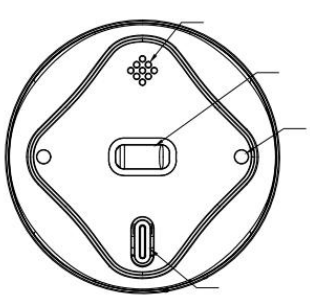


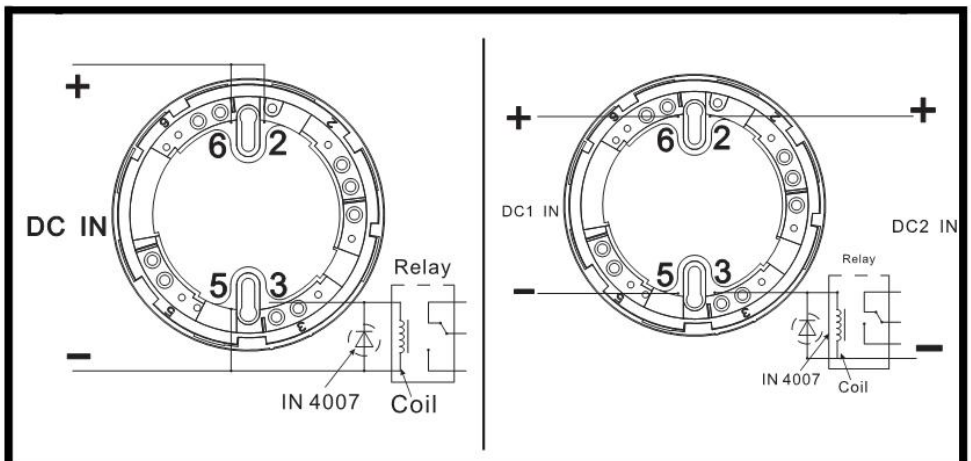
Figure 3

Notes: This device cannot be installed in an environment with ultraviolet lamps or ultraviolet anti-virus lamps.

5. Wiring Diagram

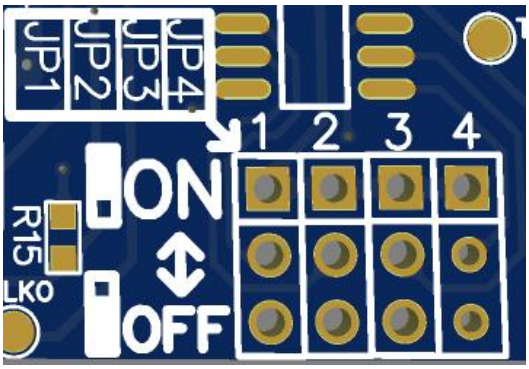
Terminal 6: DC POWER IN (Non-polar)
Terminal 5: DC POWER IN (Non-polar)

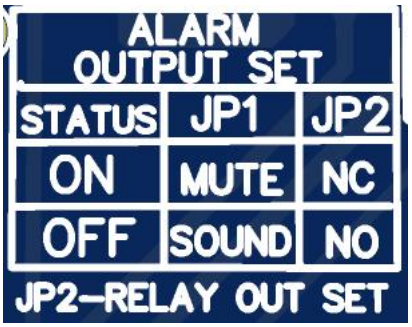
Terminal 2: ALARM OUT (Non-polar)
Terminal 3: ALARM OUT (Non-polar)



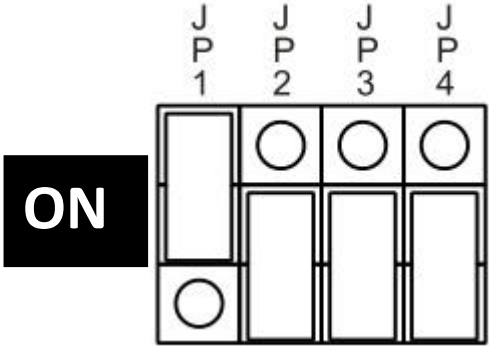
Relay Output Set NO-FIGURE1 Terminal Wiring

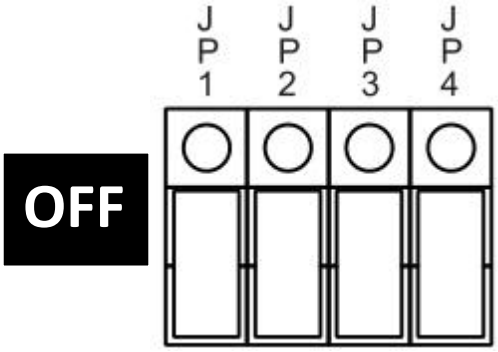
6. Operation



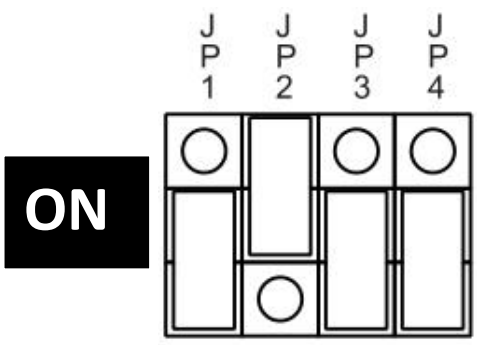


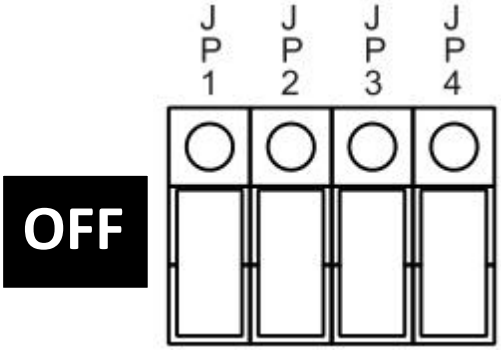
- **JP1** is the setting of the <u>buzzer sound alarm</u> during fire alarm:
  ON is mute, no sound output during fire alarm.
  OFF is the sound output during fire alarm. **(default)**





- **JP2** is the setting of the <u>relay output</u>:
  ON is relay NC output.
  OFF is relay NO output.**(default)**





- **JP3** and **JP4** is the setting of the alarm time:

When JP3 is **OFF** and JP4 is **OFF,** the fire alarm will be on after **2s** of the flame detection.**(default)**

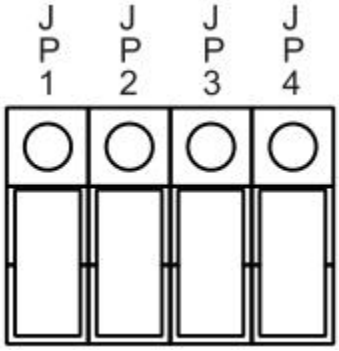
When JP3 is **ON** and JP4 is **OFF,** the fire alarm will be on after **5s** of the flame detection.

When JP3 is **OFF** and JP4 is **ON,** the fire alarm will be on after **10s** of the flame detection.

When JP3 is **ON** and JP4 is **ON,** the fire alarm will be on after **10s** of the flame detection.

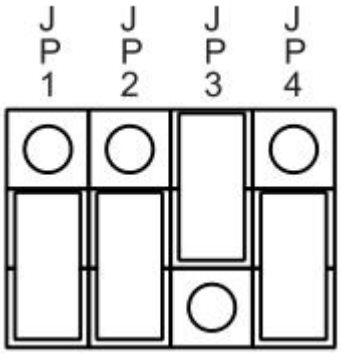
Alarm Time: 2s

JP3-OFF JP4-OFF



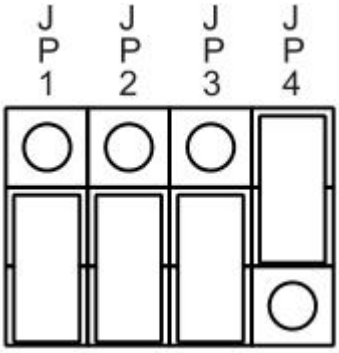
Alarm Time: 5s

JP3-ON JP4-OFF



Alarm Time: 10s

JP3-OFF JP4-ON



JP3-ON JP4-ON