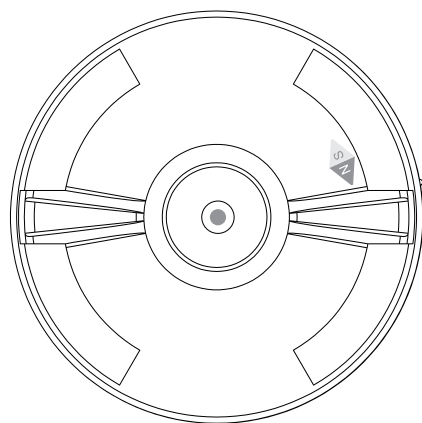


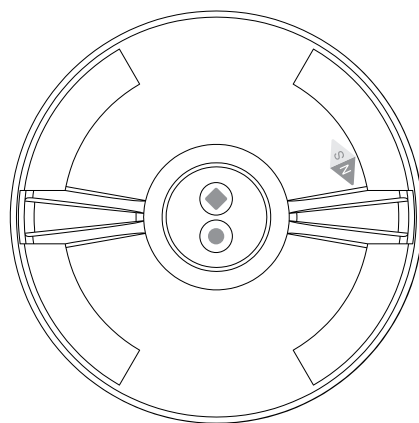
# Infrared Flame Detector



## 1. Introduction



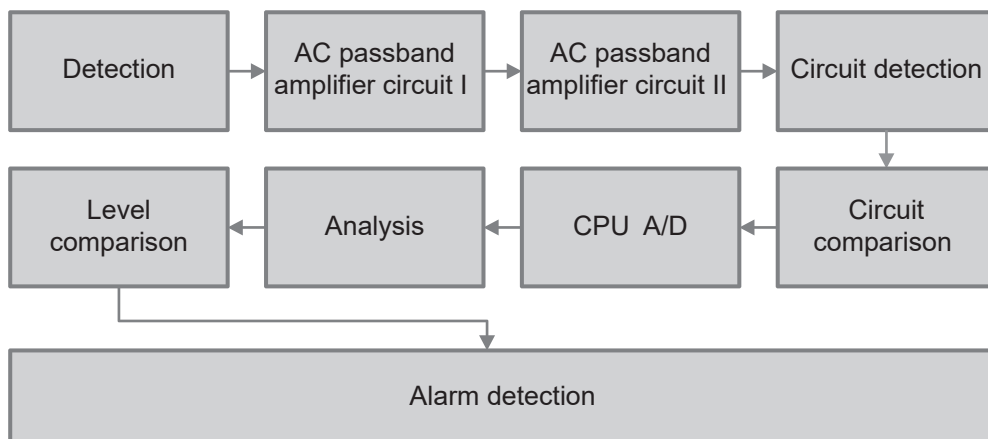
Single flame detector



Dual flame detector

## 2. Operating Principle

This product uses the middle of infrared spectrum which can analyze infrared radiation emitted by fire. Making use of infrared inductor can measure distinctive CO<sub>2</sub> produced from fire. The analysis from receiving signals is a combination of digit & analog data to deal with latent danger to print out alarm data with high-accuracy.



## 3. Characteristics

- Red dual LED for fire alarm
- Magnetic test for simulated detection

## 4. Specifications:

Model	EDFS1	EDFS2
Type	2-wire	2-wire
Alarm Contact	N/A	N/A
Sensor Type	Single IR	Dual IR
Wavelength	4.48μm	4.48μm 3.38μm
Standby Current @24V dc 470Ω	190μA	310μA
Voltage Range	12V~30V dc	12V~30V dc
Alarm Current @24V dc 470Ω	38mA	38mA
Ambient Temperature	-10°C+55°C	-10°C+55°C
Material	Fire-proof plastic	Fire-proof plastic
Dimensions	102 mm (Dia.) × 38 mm (H)	102 mm (Dia.) × 38 mm (H)
Weight	About 120g	About 120g
Color	White	White

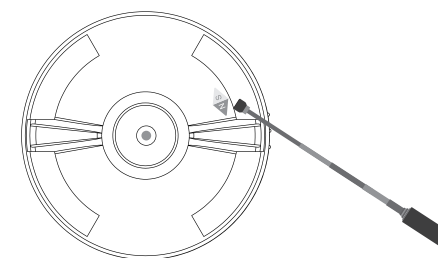
Comply with EN54-10 Class 1

A maximum angle of reception of  $\pm 30^\circ$  from the centre line of the device in vertical and Horizontal planes shall not be exceeded.

The manufacturer preforms the test with a brazier by itself, and it can move up to 40 meters away.

## 5. Magnetic Test

Close the Detector Testing Device to the sticker on the detector to simulate action.



## 6. Recommended Mounted Location

- **Premises with higher ceilings** : theater, gym, storage, gallery or warehouse, etc.
- **Places where fires happen easily** : places storing with combustible goods, gas stations, factory working places, machine rooms, etc.
- **Ventilate places** : open markets, station platforms, hotel lobbies, department stores, etc. (places that smoke and heat cannot gather during early period of fire)
- **Others** : tunnels, computer rooms, etc.

## 7. Not recommended Mounted Location

- **Places with amount of smoke flows to.**  
(diet preparation room, front room of kitchen, food storage in kitchen, corridor and passageway around kitchen and restaurant...)
- **Places with amount of steam retains.**  
(steam clean room, dressing room, hot water service room and disinfection room...)
- **Places smelled off subversive gas.**  
(electroplating factory, accumulator room and sewage treatment plant...)
- **Places equipped with fire devices or exposed to fire.**  
(glass factory, placed with iron melting furnace, welding workplace, kitchen, foundry and forging...)
- **Places with high temperature or any other places where may bring about barriers to detectors.**
- **Places with sunlight beating or reflecting.**

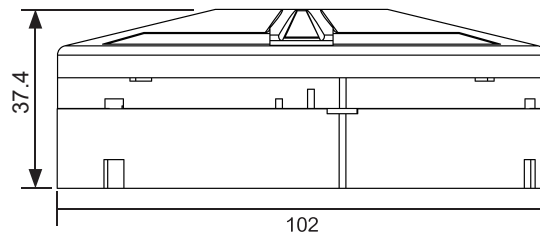
## 8. Maintenance

There is no need to clean & maintain. Please just keep the glass surface of detectors clean to assure it is under normal condition.

## 9. Attentions

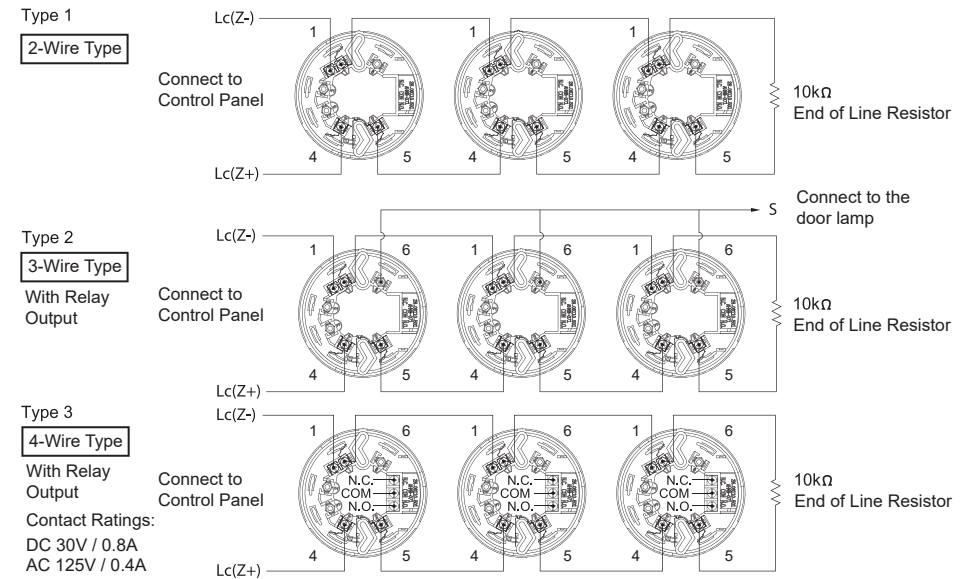
Prohibit from taking down the product to overhaul or make a change to it.

## 10. Dimension Diagram

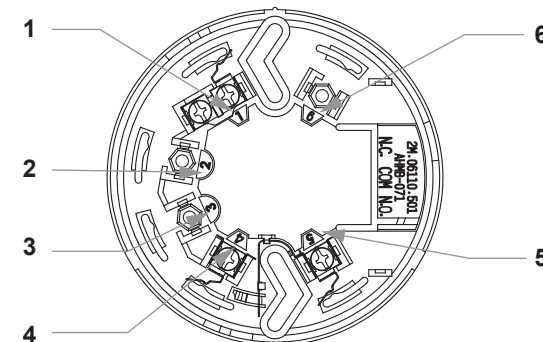
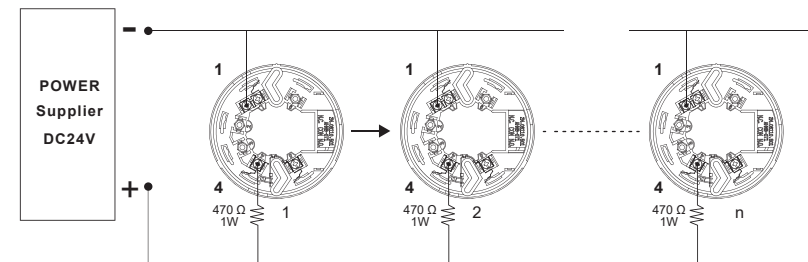


Unit: mm

## 11. Unit Connection Diagram



## DC power supply wiring diagram



P/N:10.EDFS0.M01 Ver.F

**Infrared FlameDetector**  
**EDFS1 / EDFS2**

**HORING LIH INDUSTRIAL CO., LTD.**