MANUAL FOR PHOTOELECTRONIC SMOKE DETECTOR

PRODUCT INTRODUCTION

This product named Photoelectric smoke detector (hereinafter called detector) detects the smoke by a couple of infrared diodes. The principle of detecting is granule in the smoke can reflect infrared light. Infrared diodes are placed in the special chamber. The chamber can shield external light, but not affect the smoke entering into it. While no smoke, the diode receives very weak infrared light. But when smoke entering the chamber, diode shall receive more and more light. When the smoke accumulates to a certain density, the detector will give out alarm signal. In order to reduce the interference and lower power consumption, the emitting circuit adopts the pulse signal. With the special structure design, the detector also adopts ASIC and has the dustproof, mothproof and anti-outside light interference features etc. The detector is suitable for detecting the smoke in houses, shops, hotels, restaurants, office buildings, schools, banks, libraries and storehouses etc.

PRODUCT PROFILE

Buzzer

TEST KEY (INDICATOR)

TECHNICAL SPECIFICATION

OPERATING VOLTAGE : DC 9~16V (network type)
9V BATTERY (independence type)

STATIC CURRENT : 3mA (network type)
12uA (independence type)

ALARM CURRENT : 25mA
10mA (independence type)

ALARM INDICATION: RED LED FLASH

SOUND LEVEL: 85dB

OPERATING TEMPERATURE: -10 ℃ ～ +50 ℃

OPERATING HUMIDITY :≤95％RH

SIZE :100 mm dia.*50mm deep

ALARM OUTPUT : Sound & flash alarm (independence type)
Sound, flash and relay output NO/NC (network type)

DETECTING AREA: 80 ㎡ at installation height of 6-12m;60 ㎡ at installation height of less than 6m.

PRODUCT FEATURE

- TEST BY HAND
- AUTO RESET
- ASIC ADOPTED
- ANTI-LIGHT , MOTHPROOF , DUSTPROOF
- STRONG ADAPTABILITY FOR CIRCUMSTANCE
- SMT DESIGN, HIGH STABILITY

INSTALLATION

1. The detector should avoid installation under below environments:
   A) The smoke lingers in usual condition
   B) The humidity more than 95%
   C) Dusty, misty and oil-mist area
   D) Wind flow more than 5m/s
2. Select a proper place (normally mounted on the center of ceiling) , fix the mounting base and put the detector into the base and turn to lock it .

INSTRUCTION

1. Independence type: put battery into battery chamber of detector before installation.
2. Network type: connect DC 12V power, red wire for anode, black for cathode, white for COM, orange for NO, yellow for NC.
3. Connecting the power, the detector comes into operating state. Indicating LED flashes once per 53 seconds.
4. Alarm: when the level of smoke in surroundings arrive at alarm level, LED indicator in detector flashes quickly and buzzer beeps. Meanwhile, the network type detector will drive relay output.
5. Test: in order to ensure detector can work normally, the detector should be tested every month. Press the test key, the LED indicator flashes and buzzer beeps which shows the detector is in normal operation.
6. Battery low voltage check: when battery voltage is lower than operation voltage, buzzer sounds "di" once per 53 seconds. Please change the battery in this condition. Otherwise, the detector may not work normally.

NOTICE

1. If detector has malfunction, please contact with supplier in time. Do not repair by oneself in order to avoid accident.
2. If detector will not be used for a long period, please remove the detector and take out the battery. Put them into box and store them in a dry and good ventilated place.