

MANUAL FOR PHOTOELECTRIC SMOKE DETECTOR Art. 30099002

PRODUCT INTRODUCTION

This product named Photoelectric detector (hereinafter called detector) detects the smoke by a couple of infrared diodes. The principle of detecting is that particles in the smoke can reflect infrared light. Infrared diodes are placed in the special chamber. The chamber can shield external light, but doesn't affect the smoke into it. In no smoke condition, the diode can receive very weak infrared light. When the smoke enters the chamber, diode can receive more light. When the smoke attains the certain density, the detector can give out alarm signal. In order to reduce the interferences and achieve lower power consumption, the emitting circuit adopts a pulsed signal. The detector adopts a special structure design and ASIC circuitry, has the dustproof, bugs-proof and anti-outside light interference features etc. The detector is suitable for detect the smoke in house, shop, hotel, restaurant, office building, school, bank, library, computer house and storehouse etc.

PRODUCT PROFILE



PRODUCT FEATURE

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

TECHNICAL SPECIFICATION

OPERATING VOLTAGE: DC 12V (wired type)

9V BATTERY (stand-alone or wireless type)

STATIC CURRENT: < 200uA (network type)

<10uA (independence or wireless type)

ALARM CURRENT: < 20mA

ALARM INDICATION: RED LED FLASH

SOUND LEVEL: >85dB/m (independence or wireless type)

OPERATING TEMPERATURE: -10 +50

OPERATING HUMIDITY : 95 %

DETECTING AREA: 20 square meter

ALARM OUTPUT : sound & flash alarm (stand-alone type)

RF signal 315MHz or 433MHz (wireless type)

Relay output NO/NC (wired type)

RADIO DISTANCE: 100m(open area, wireless type)

SIZE :107 mm dia.*35mm deep

EXECUTE CRITERION GB4715-1993

INSTALLATION AND TEST

1. (stand-alone or wireless type) Place the battery into battery box before installation.
2. (wired type) Connect DC 12V power, red wire for anode, black for cathode, white for COM, orange for NO, yellow for NC.
3. Connect the power: the detector comes into operating state. Indicating LED flashes once per 40 seconds, once per 1 second at alarm state.
4. Select proper place (normally mounted on the center of the ceiling) , fix the mounting base, then put the detector into the base and turn it.
5. After installation, press the test button to test the output of the detector. LED should flash once per 1s. The detector should give out sound should send out RF signal (wireless type), should drive relay (wired type).
6. You can press the test button to test the detector or blow a little of smoke into the detector to test if it works properly. The detector will recover to normal working state when the smoke disperses.

NOTICE

1. The detector cannot be installed under harsh environment. E.g. too cold, too hot, too dusty.
2. Please test it monthly.
3. Please clean the detector by soft brush once every six months to ensure the sensitivity and life of product. Pay attention to switch off power before cleaning.
4. When the voltage of battery is low or the chamber is dirty, the detector will beep once every 40s. Please change the battery at this condition.
5. For various reason, including, but not limited to changes in environmental conditions, electric disruptions and tampering, the product may not perform as expected. The user is advised to take all necessary precautions for his/her safety and the protection of his/her property.