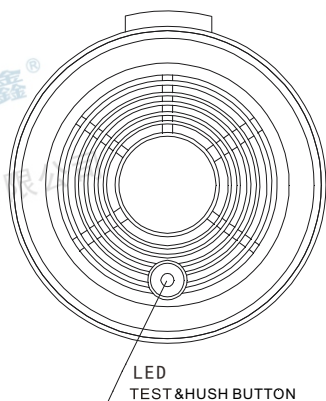


MANUAL FOR PHOTOELECTRONIC SMOKE DETECTOR

PRODUCT INTRODUCTION

This product is called photoelectric smoke detector (hereinafter called detector) it has the features of dust-proof, moth-proof and anti-interference from outside light, all for the stability of the product, especially for detecting smoldering or burning object. The detector is suitable for detecting the smoke in house, shop, hotel, restaurant, office building, school, bank, library, computer house and storehouse, etc.

PRODUCT PROFILE



PRODUCT WORKING PRINCIPLE

The detector adopts the reflection principle of smoke particles that can reflect infrared light. The main circuit includes a MCU processing section, an infrared-emitting portion and an infrared receiving portion. Transmitting and receiving diodes are placed in the optical chamber which can shield stray light from outside interference, but does not affect the smoke getting into the detector. Usually when in a smoke-free environment, infrared signal is very weak. When smoke enters the optical chamber, due to scattering effect, the infrared signal increases. When the smoke concentration accumulated reaches to the MCU alarm level, the detector will flash warning lights and warning alarm, meanwhile sending alarm signal to trigger other devices which connected to it.

PRODUCT FEATURE

- MCU Automatic processing technology
- Manual test
- Automatic reset
- Mute button
- Automatic detection
- Infrared photoelectric sensor
- Sound-light alarm
- SMT design, high stability
- Dust-proof, Insect-proof, Anti-visible light

TECHNOLOGY PARAMETER

Operating Voltage : 9V 6F22 Battery / AC 110V-220V
Static Current : $\leq 15\mu\text{A}$
Alarm Current : $\leq 30\text{mA}$ (9V 6F22 Battery)
Battery life : About 1 year
Power Indicator : red LED Flash
Alarm Indication : red LED fast blink
Level of Sound : $\geq 85\text{dB/m}$
Operating temperature : $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$

Operating Humidity : $\leq 95\% \text{RH}$
Alarm Output : sound & flash alarm
Size : $\Phi 140 \text{ mm} \times 41 \text{ mm}$

Execute Criterion: EN14604

Detectin garea: 40square meters when installation height between 6 to 12 meters.
20square meters when installation height within 6 meters.

INSTALL AND TEST

1. Avoiding installing in a place that is stagnant smoke, dust, heavy fog, heavy mist, humidity $> 95\%$ and wind speed $> 5 \text{ m/s}$.
2. Install the battery into the battery slot or power by AC 110-220V. Select an appropriate location. Typically, it is recommended to install it at the ceiling in the center of the testing area. Fix the detector based to the selected location, and screw the detector on the base.

INSTRUCTIONS FOR USE

1. Connect the battery and put it into battery slot, or power by AC 110-220V (L is live wire, N is neutral wire). LED will flash once and send out a "Di" sound.
2. Detector will get into normal working state after connecting battery power. LED will flash once per every 8 seconds.
3. Sensitivity test
 - A. Taking periodic testing of the sensor to ensure detector working properly. Recommending once a month. Long press the test and hush button more than 3 seconds to enter the detector test status. If the alarm LED flashes rapidly and the buzzer "Di" means the detector working properly.
 - B. Test the detector alarm or not by man-made smoke. (Recommended).
4. Alarm and mute
When the detector is alarming and flashing, press down the test and hush button, the detector will be mute, the buzzer will stop sounding and the LED will continue fast blinking. It will last 10 minutes. If the smoke concentration continue to rise, it will be failed though you press down the test and hush button again. If the smoke concentration decreases below down the alert value, the detector will auto-exit the mode of mute and be back to the normal condition.
5. Low battery voltage
When the buzzer make a "Di" every 8 seconds, the LED have a flashing at the same time, it means the battery voltage is low, pls change the battery. Otherwise, it will affect the proper functioning.
6. Failure testing
When the buzzer make a "Di--Di" every 8 seconds, the LED flashes twice at the same time, it means the detector is a defective product, please contact the dealer. DO NOT disassemble or repair it by yourself.

NOTICE

1. Sensitivity testing is recommended once a month to ensure the detector in a normal working condition.
2. Cleaning the dust around the chamber with a soft brush every six months to ensure the detection's sensitivity, cut off the power when cleaning.
3. Cut off the power if no use for a long time.
4. Detector can reduce the rate of the disaster, but not 100%. In the consideration of safety, please using the detector correctly and increasing the vigilance, safety awareness and taking protective measures.