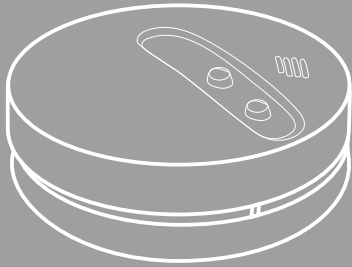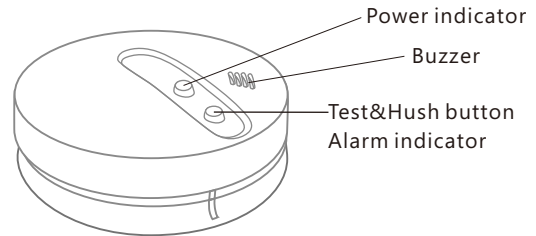# Smoke Detector

User Manual

Description

It is intelligent photoelectric smoke detector, designed to detect smoke by infrared diodes and generate the alarm signal. The detector features as dustproof, mothproof and anti external interference. The design ensures high reliability. Photoelectric smoke detectors respond faster to fire in it's early, smouldering stage before it breaks into flame. It's suitable for house, office, garage, hotel, restaurant etc.

General view

Power indicator
Buzzer
Test&Hush button
Alarm indicator

Features

Adopts MCU auto-processing technology
Mute function
Malfunction self-test function
Low battery indication
Auto-reset after alarm
Sound& flash Alarm/ LED indicating alarm
High density SMT design,high stability
Dust-proof, moth-proof and anti-white light interference
Anti-RF interference(20V/m-1GHz)

Specification

Operating voltage: 9V/6F22 (DC type)

Static current: <10uA

Alarm current: <35mA

Sound level: ≥85dB/3m

Operating temperature: -10 ~ +50

Operating humidity: ≤95%RH

RF frequency: 315MHz or 433MHz

Transmitting distance: 80m(open area)

Detection range: 80m² at 6-12m installation height;
                 60m² at installation height   6m

Dimensions:φ128*38mm

Using the Smoke Detector

When the control panel is in enrolling state, press the testing button of the detector to send an alarming signal, the enrollment is successful after one beep is heard and LED light flashes once. The detector is set in 24-H zone 1 as default.

Working State:

Connect the battery with the holder, and place it into the battery compartment. The detector enters the working state.

Alarming State:

When smoke density in surroundings exceeds the alarm density level, the buzzer beeps and the alarm indicator flashes rapidly. At this time, press the TEST& HUSH BUTTON to enter into mute status that lasts for 10 minutes. During this period, the indicator flashes once per 10s and if the density is still higher than the alarm density level, the TEST& HUSH BUTTON is not working. When the smoke density goes below the alarm density level, press the TEST& HUSH BUTTON to enter the testing state . After the 10 minutes, it will return to normal working status.

Malfunction State:

Low battery is indicated if the buzzer beeps once every 40 seconds along with the LED flashing once. Please replace the battery immediately, otherwise the detector can not work normally.The infrared photoelectronic sensor is with malfunction problem if the buzzer beeps twice every 40 seconds along with the LED flashing twice. Please contact with the supplier in time. Don't attempt to repair this unit by yourself in case any incidents happen.

Installation & Test

It's recommended to mount the smoke detector on ceilings.
Fix the mounting plate in position, fix the smoke detector
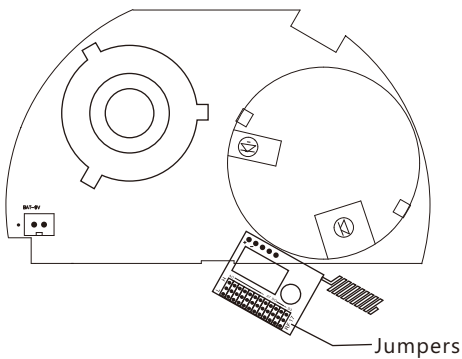to the mounting plate, and rotate until it snaps into place.

Do not install detector in the place as below：
1) Places where smoke stagnates in normal circumstances
2) Places where the humidity is higher than 95%
3) Places where heavy dust, heavy water mist, heavy oil mist exist
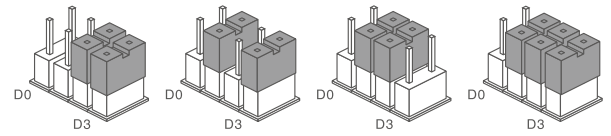4) Places where wind speed is higher than 5m/s

Sensitivity Test

It is recommended to monthly test the detector to protect its
normal working. Press TEST&HUSH BUTTON for more than 1
second to enter sensitivity test state. During this time, the LED
flashes rapidly and the detector alarms. It indicates that the
detector can work normally.

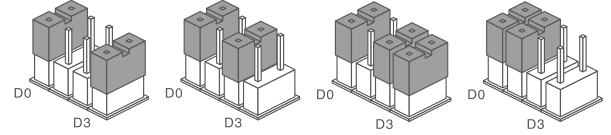## Jumper Setting Sketch

Jumpers

Setting Jumpers

The smoke detector is set in 24-H zone 1 as default.
Users can setup the smoke detector in Normal Zone, Stay
Mode Zone or 24-Hour Zone.

D0 D3	D0 D3	D0 D3	D0 D3
Normal Zone 1	Normal Zone 2	Normal Zone 3	Normal Zone 4

D0 D3	D0 D3	D0 D3	D0 D3
Home Mode 1	Home Mode 2	24-Hour Zone 1	24-Hour Zone 2

Notice

1. The malfunction self-test function is only for testing infrared
   photoelectronic sensor and low battery. It is required to do
   sensitivity test for testing the detector's sensitivity.
2. To guarantee detector's sensitivity, it is suggested to clean the
   detector surface using soft brush every six months. Make sure
   power supply is disconnected before cleaning.
3. Don't attempt to repair repair this unit yourself. If there's any
   problem, please contact supplier for service.
4. If it is unused for a long time, please dismount the detector,
   remove the battery and place it in the box, then store in a dry
   ventilated place.
5. For various reasons, 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.