

SM30

Photoelectric Smoke Detector

This product is a photoelectric smoke detector, which operates according to the principle of sensing smoke particles. Adopting unique structural design and photoelectric signal processing technology, it has the functions with dust, insect, anti-external light interference and others, which ensures the stability of the product. This product has a good detection to visible smoke produced by slow vulva or bright combustion. It's widely used in indoor environments such as residential, shopping malls, hotels and warehouses.



Features

This detector is non-coded, when working directly connected to dc power supply can be operated . The indicator flashes while it is working. When the alarm is raised, the indicator is on. The detector has a pair of output contacts, which are normally open /normally closed after the alarm. Power loss/automatic reset is required after no smoke. The detector has a base to install it.

- Power-off/auto-reset is optional
- Infrared photoelectric sensor
- The sensitivity is adjustable
- Intelligent logic control to filter out all kinds of false positives
- The normally open/normally closed (N.O/N.C) alarm output is optional

- The networked output/LED light indicates an alarm
- SMT process manufacturing, strong stability
- Anti-dust, insect-proof, anti-white light interference design
- Metal shield, anti-RF interference (20V/m to 1GHz)

Technical Specification

| | |
|------------------------------|--|
| Power supply | DC9-35V |
| Static current | ≥2mA (DC24V) |
| Alarm current | ≥10mA (DC24V) |
| Alarm indication | Red LED |
| Sensor | Infrared photoelectric sensor |
| Operating temperature | -10°C ~ 50°C |
| Ambient humidity | 0%RH ~ 95%RH (no condensation) |
| Anti-RF interference | 10MHz to 1GHz 20V/m |
| Alarm output | normally on/normally closed Meets 12V contact loads, and contact load currents need to meet ≥24mA |
| Monitoring area | When the space height is 6m to 12m, the protection area of a detector is 80 m ² for the general protection site, and the protection area is 60 m ² when the space height is less than 6m |
| Sensitivity rating | Level 1 |
| Dimension | 104mm (diameter) * 53mm (height) |

Installation

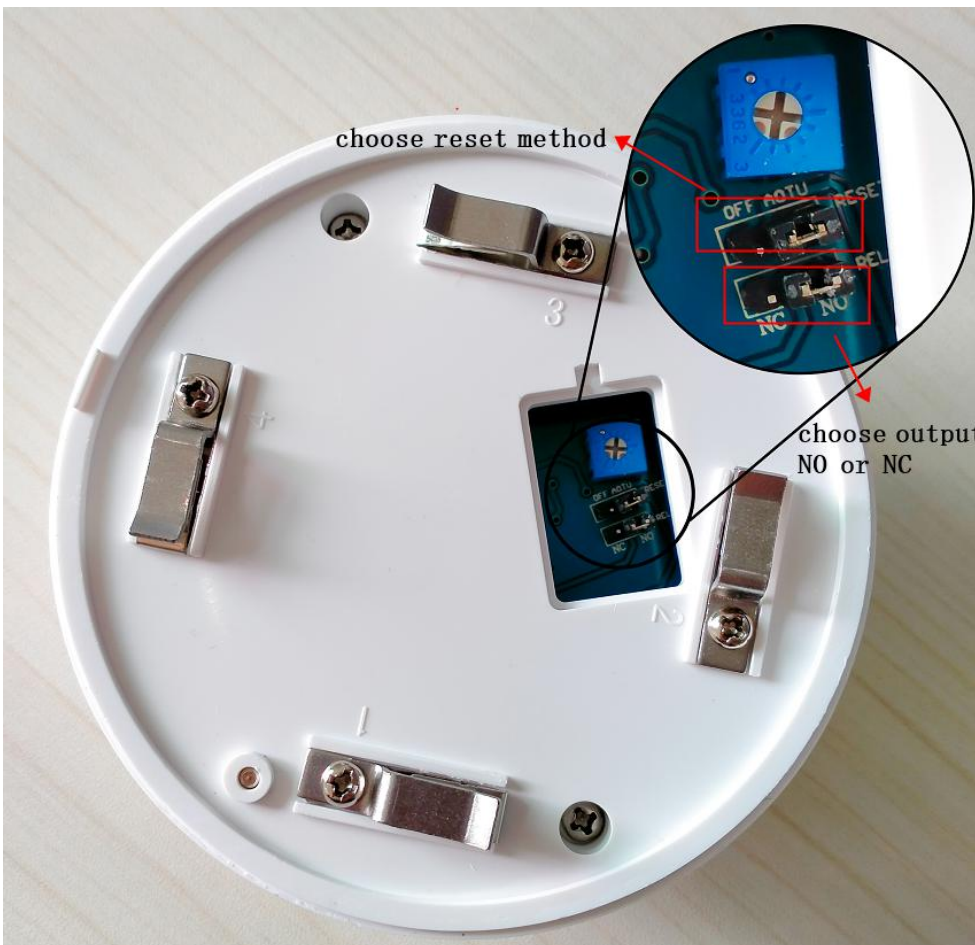
- Select a suitable installation location, usually install it on the ceiling in the center of the detector monitoring area.
- Uncover the small buckle on the base and select the corresponding reset mode and alarm output mode of the detector with the jump cap according to the instructions on the board (default normally open signal, automatic reset function).

Setting reset method

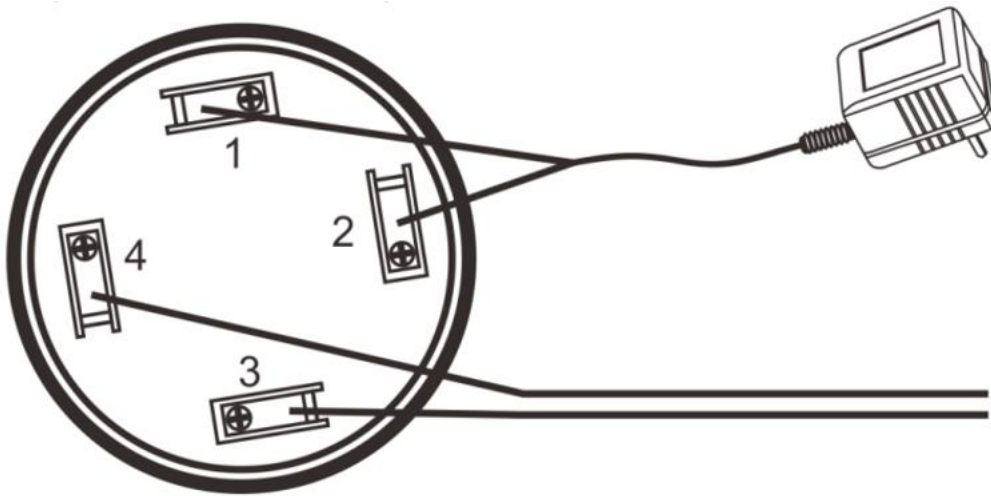
Off: close alarm by hand

Aotu: will reset aromatically when smoke gone

NO/NC output: Default NO output, this can be set by move the jump cap



- Connect the power cord and the signal line to the detector base (contact 1 & 2 connect to power DC adapter(9-35V available), regardless positive and negative; "3 & 4" is normally open/normally close contact connecting to monitoring system).



- Fix it on the ceiling with screws.



- The detector can be installed by rotating the positioning groove of the mounting base clockwise by aligning the positioning bumps at the bottom end of the detector. Pay attention to the numbers on the detector, must one-to-one correspondence when close the two parts as below.



Notes

- There should be no shelter around the detector 0.5m.
- The horizontal distance from the detector to the air conditioning air supply hole should not be less than 1.5m.
- Detector to wall, beam edge horizontal distance should not be less than 0.5m.
- When setting up detectors on the roof of the inner walkway with a width of less than 3m, the center arrangement is livable. The installation spacing of the detector should not exceed 15m, and the distance of the detector from the end of the wall should not be greater than half the distance between the detector installations.
- The detector should be installed horizontally, if it must be tilted, the tilt angle should not be greater than 45 degrees.
- The detector base should be fitted securely and its wire connections must be reliable.
- It is recommended that a simulated fire test should be conducted every six months to test whether the detector is working properly.