

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 doesn't affect the smoke into it.

While there is no smoke, the diode can receive very weak infrared light. When the smoke enters the chamber, diode can receive more and more light, and the detector can give out an alarm signal when the smoke attains the certain density. In order to reduce interference and lower power consumption, the emitting circuit adopts the pulse signal.



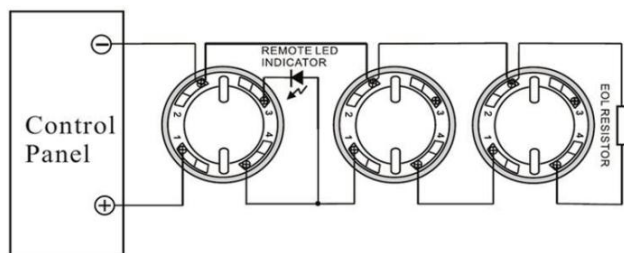
Product Features

STRONG ADAPT ABILITY FOR CIRCUMSTANCE	FLASHING LED POWER INDICATOR
SMT DESIGN, HIGH STABILITY	ALARM RELAY N.C./N.O.OPTIONAL (4 WIRE)
METAL SHIELD, ANTI-RFI & ANTI-EMI	REMOTE LED INDICATOR OUTPUT (2 WIRE)
LOW STANDBY CURRENT	MAGNETIC SWITCH SELF-TEST FUNCTION (OPTION)
POWER SUPPLY NON-POLARIZED INPUT	ALARM INDICATION

TECHNICAL SPECIFICATION

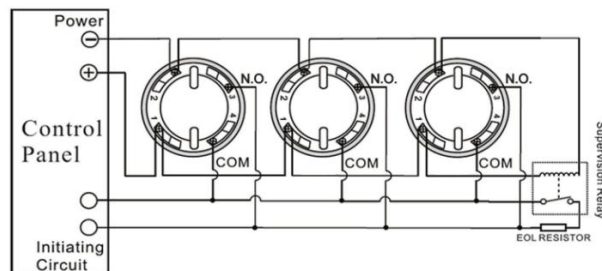
Product Category	2-Wire Detector	4-Wire Detector
Operating Voltage	DC 9V ~ 35V	
Standby Current	≤ 50 uA	≤ 50 uA (Relay NO) ≤ 16 mA (Relay NC)
Alarm Current	20~25 mA @12V 40~50 mA @24V	≤ 40 mA (Relay NO) ≤ 20 mA (Relay NC)
Alarm Indication	RED LED ON	
Temperature Range	0°C ~ 50°C	

WIRING DIAGRAM & TERMINALS



2 WIRE BASE TERMINALS

- | | |
|--------------------|----------------------|
| 2. POWER (-) INPUT | 3. REMOTE LED OUTPUT |
| 1. POWER (+) INPUT | 4. POWER (+) OUTPUT |



4 WIRE BASE TERMINALS

- | | |
|--------------------|------------------------|
| 2. POWER (-) INPUT | 3. RELAY OUTPUT (N.O.) |
| 1. POWER (+) INPUT | 4. RELAY OUTPUT (COM) |

Connection Description

- 2 wire smoke detectors: Base terminals "1" and "2" for DC power input, non-polarized. When remote indicator is used, "1" in must be connected to the positive line in. "4" for DC power positive output. "3" for remote indicator cathode.
- 4 wire smoke detectors: Base terminals "1" and "2" for DC power input, non-polarized. "3" for relay output N.C. or N.O., "4" for relay output COM.

Magnetic Switch Self-Test

- Connect the detector to circuit, and place magnetic close to the detector (between the terminal 3 and 4 on the bottom side), if the detector work normally, the red indicator LED would light on.

Installation

- Connect the wires to the mounting base.
- Select a proper place (normally mounted on the center of ceiling). Fix the mounting base and then put the detector into the base and twist to fasten it

NOTICE & WARNINGS

- The detector can't be installed under worse environment. E.g.: coldest, hottest, dusty, do not move away the dustproof cover until use the detector indeed.
- Make sure that there is no block within 0.5m from detector.
- Keep the distance between detector and wall more than 0.5m.
- Make sure the distance between detectors be less than 15m. And the distance between detector and corner must be less than half of the one between detectors.
- Horizontally install the detector. If have to be installed slantingly, please keep the angle less than 45 degrees.
- Base be installed solid, wire connection must be reliable.
- Recommendations should be carried out every six months a simulated fire test, the test detectors are working properly.
- 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.

Verification of Compliance

Verification No.: TMC210622101-E
Name and address of Applicant: **NINGBO DELING ELECTRON TECHNOLOGY CO., LTD**
 8, Sanjiang Road, Wuxiang industrial park, Yinzhou district, Ningbo
 Zhejiang
Name and address of Manufacturer: **NINGBO DELING ELECTRON TECHNOLOGY CO., LTD**
 8, Sanjiang Road, Wuxiang industrial park, Yinzhou district, Ningbo
 Zhejiang
Product name: **Smoke Detector**
Rated: 24V===
Product model(s): SD-604, SD-604D, SD-601, SD-602, SD-603, SD-605, SD-606, SD-607,
 SD-608, SD-609
Product trademark: N/A

This Verification of Compliance of EMC Compliance has been granted to applicant based on the results of tests, performed by Laboratory of TMC Testing Services (Shenzhen) Co., Ltd. on sample of the above-mentioned product in accordance with the provisions of the relevant specific standards and the EMC Directive (2014/30/EU)

EN 55032:2015+A11:2020

EN 55035:2017+A11:2020

The Verification has been carried out in accordance with individual rules and conditions agreed with the applicant. Evaluation has been carried out in accordance with:

Test report(s) No.: TMC210622101-E
Test conducted by: TMC Testing Services (Shenzhen) Co., Ltd.
Verification issue date: June 30, 2021

Notes:

This Verification refers to the above mentioned product and its conformity in regards of above mentioned standard(s) was proven on test sample.

This Verification does not imply meeting all essential requirements, assessment of the series-production or any other restricted Notified Bodies conformity assessment procedure appropriate for the product.

This Verification holder shall use this Verification in connection to Verification of Compliance and technical data relevant for the product the Verification was issued.

TMC Testing Services (Shenzhen) Co., Ltd.

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