# DC-9102E
# Conventional Photoelectric Smoke Detector



LPCB 548d/03

CE 2831-CPR-F0003 GST-0007-01 14

## Description

DC-9102E is Conventional Photoelectric Smoke Detector, can build up fire alarm system together with fire alarm panel and other alarm devices. The detector is suitable for hotel, restaurant, office building, school, bank, warehouse, library, computer room, switch room, and etc.
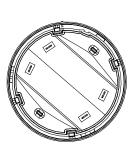
## Features and Benefits

- Drift compensation enables strong environmental adaptability
- Strong environmental adaptability due to drift compensation
- Self-diagnostic
- Reed switch test
- Dirty chamber checking
- Fire LED allows 360° viewing
- Possible to switch off polling LED
- Remote indicator output
- Removable innovative sensing chamber, easy for maintenance
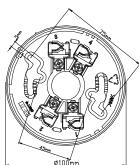- 2 levels sensitivies programmable (Level 1 certified)
- LPCB approved at EN 54-7

## Certificates and Compliance

- Standards: EN54-7
- Certifications: LPCB

## Terminals and Installation Holes

Below figures show the detector bottom and terminals of the base.



There are four terminals with marks on the base.

 1: Positive IN

 2: Positive OUT

 3: Negative IN and OUT

 2: Positive terminal of remote indicator

 4: Negative terminal of remote indicator

The base is suitable to be installed onto standard European embedded back box, with hole-distance 45mm to 75mm.

## Recommended Cabling

1.0mm$^2$ or above fire cable is recommended， but subject to local codes.

## Application

Detection sensitivities and LED status can be set through P-9910B programmer. Below table shows relative codes for sensitivity levels and working modes. Factory defaults at Level 1, LED on.

### Sensitivity Codes

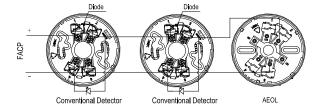| Parameter | Smoke Sensitivity | Polling LED Status |
|---|---|---|
| 1 | 1 | ON |
| 2 | 2 | ON |
| 129 | 1 | OFF |
| 130 | 2 | OFF |

Detection sensitivities and LED status can be set through P-9910B programmer. Below table shows relative codes for sensitivity levels and working modes. Factory defaults at Level 1, LED on.
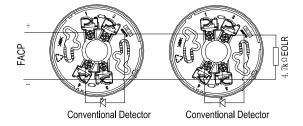
The typical connection of Active End of Line. The Active End of Line Unit is not used as the detector base, a cover should be added to it.



The typical connection of End of Line Resistor



## Order Information

| Part No. | DC-9102E |
|---|---|
| Device Name | Conventional Photoelectric Smoke Detector |
| Product No. | 10106286 |
| Compatible Products | GST102A~GST116A Conventional Panels I-9319 Zone Monitor Module |

## Technical Specification

| | |
|---|---|
| Operating Voltage | 24V (16V ~ 28V) |
| Standby Current | ≤ 60μA |
| Alarm Current | ≤ 55mA |
| Indicator | Red, periodically flash once in polling when the status is set to "ON"; don't illuminate when the status is set to "OFF". Periodically flash twice in fault or sensing chamber dirty; illuminate in alarming. |
| Wiring | Polarized 2-core for Zone. Polarized 2-core for remote indicator. |
| Alarm reset | Instant power down (Min.2s, Max.1.0VDC) |
| Sensitivity | Level 1 (default) & Level 2. |
| Environment Temperature | -10°C ~ 50°C |
| Relative Humidity | ≤95%, non condensing |
| Material of Enclosure | ABS |
| Ingress Protection Rating | IP2X |
| Dimensions | Diameter: 100mm Height: 44.5mm (without base) |
| Mounting Hole Distance | 45mm ~ 75mm |
| Weight | About 110g |

## Accessories and Tools

| | | |
|---|---|---|
| Part No.: | DB-01 |
| Device name: | Standard Base |
| Product No.: | 30205764 |

| | |
|---|---|
| Part No.: | DB-01D |
| Device name: | Diode Base |
| Product No.: | 20101432 |

| | |
|---|---|
| Part No.: | C-9314P |
| Device name: | Remote Indicator |
| Product No.: | 10102339 |

| | |
|---|---|
| Part No.: | DP-9907 |
| Device name: | Active End of Line |
| Product No.: | 10103044 |

| | |
|---|---|
| Part No.: | P-9910B |
| Device name: | Handheld Programmer |
| Product No.: | 10104894 |