



DC-9102E

Conventional Photoelectric Smoke Detector



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

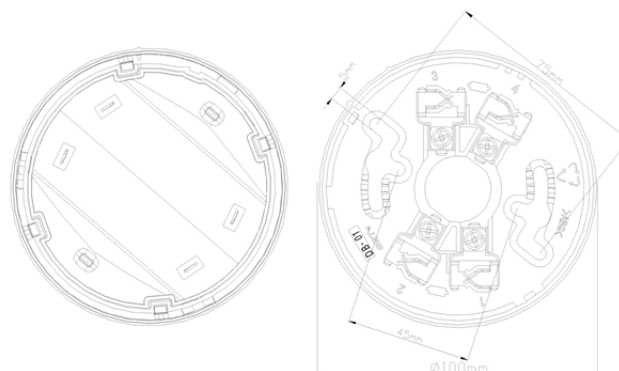
- Drift compensation enables strong environmental adaptability.
- Strong environmental adaptability due to drift compensation.
- Self-diagnostic.
- Reed switch test.
- Dirty chamber checking.
- Fire LED allows 360° viewing
- Remote indicator output.
- Removable innovative sensing chamber, easy for maintenance.
- 2 levels sensitivities 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

1.0mm² 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

When the detector connects with conventional fire alarm control panel or addressable zone monitor unit from GST, and if DP-9907 Active End of Line Unit is connected to the end of output loop, DB-01D base should be used.

- ✧ 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

Technical Specification

Operating Voltage	24V (16V ~ 28V)
Standby Current	≤60uA
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: 54.5mm (with base)
Mounting Hole Distance	45mm ~ 75mm
Weight	About 110g

Ordering Information and Compatible Products

Part No.	DC-9102E
Device Name	Conventional Photoelectric Smoke Detector
Order Code	2024828
Compatible Products	GST102A~GST116A Conventional Panels I-9319 Zone Monitor Module

Accessories and Tools



Part No.: DB-01
Device name: Standard Base
Order Code: 4045764



Part No.: DB-01D
Device name: Diode Base
Order Code: 4041432



Part No.: C-9314P
Device name: Remote Indicator
Order Code: 2132339



Part No.: DP-9907
Device name: Active End of Line
Order Code: 2713044



Part No.: P-9910B
Device name: Handhold Programmer
Order Code: 1274894