

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

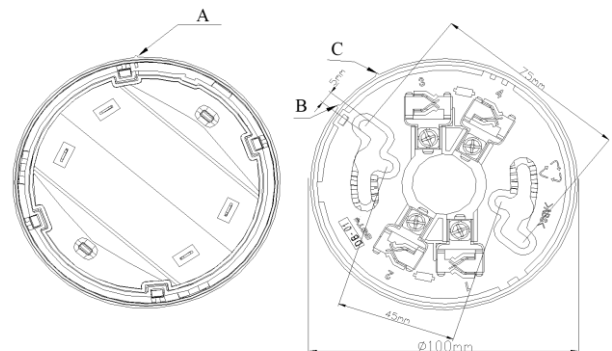
- Strong environmental adaptability due to drift compensation
- Self-diagnostic, reed switch test
- Dirty chamber checking
- Fire LED allows 360° viewing
- Possible to switch off polling LED
- Remote indicator output
- Removable innovative sensing chamber, easy for maintenance
- 2 levels sensitivities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

Certificates and Compliance

- Standards: EN 54-7
- 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
- 4: Positive terminal of remote indicator
- 5: Negative terminal of remote indicator

The base can 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.

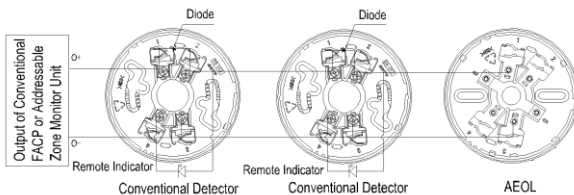
Application

Detection sensitivities 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.

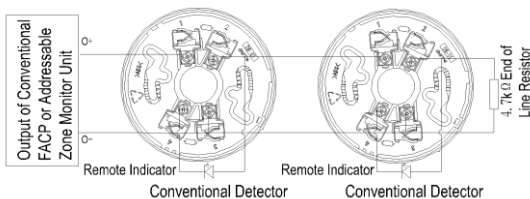
Parameter	Smoke Sensitivity	Polling LED Status
1	1	ON
2	2	ON
129	1	OFF
130	2	OFF

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



The operating radius is 7.5 meters under flat ceiling below 25 meter high. Other parameters, please refer to EN 54-14 Annex A.6.4.

Order Information

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

Technical Specification

Operating Voltage	24VDC(16VDC ~ 28VDC)
Standby Current	≤60μA
Alarm Current	≤55mA
LED 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.
Sensitivity Level	Level 1: 0.066dB/m - 0.140dB/m Level 2: 0.080dB/m - 0.209dB/m
Alarm Reset	Instantaneous power down (Min. 2sn, Max. 1.0VDC)
Environment Temperature	-10°C ~ 50°C
Relative Humidity	≤95%, non-condensing
Material of Enclosure	ABS
Ingress Protection Rating	IP2X, for indoor use only
Dimensions	Diameter: 100mm Height: 54.5mm (with 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