

DI-9101E

Intelligent Combination Heat Photoelectric Smoke Detector



Description

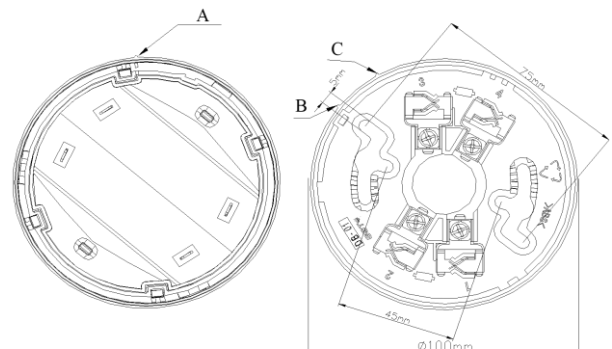
DI-9101E Intelligent Combined Heat Photoelectric Smoke Detector integrates photoelectric detection, fixed temperature and rate of rise detection technology. The smoke sensor and heat sensor are integrated in mechanism and circuitry structure, provide wide range of application, to detect more types of fire conditions like black smoke with small particles and alcohol flame.

Features and Benefits

- Electrically addressed, can be modified by programmer
- 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
- 2 levels smoke sensitivities, level 1 complies with EN 54-7
- LPCB approved at EN 54-7 and EN 54-5

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&3: Loop connection (non-polarized)
- 2: Positive terminal of remote indicator
- 4: Negative terminal of remote indicator

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

Recommended Cabling

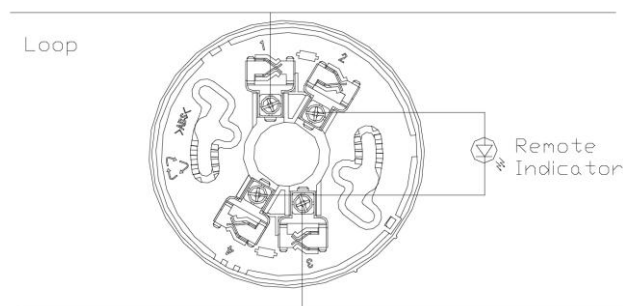
1.0mm² or above fire cable is recommended, but subject to local codes.

Application

Address can be set through P-9910B programmer, also the sensitivity. Below table shows relative codes for sensitivity levels and working modes. Factory defaults at Level 1 + Rate of Rise + Normal LED.

Parameter	Smoke Sensitivity	Heat Part	Polling LED Status
1	1	Rate of Rise	ON
2	2	Rate of Rise	ON
129	1	Rate of Rise	OFF
130	2	Rate of Rise	OFF

The typical wiring diagram is shown below.



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

Technical Specification

Operating Voltage	loop 24V (16V ~ 28V)
Standby Current	≤0.8mA
Alarm Current	≤1.8mA (without remote indicator) ≤3.8mA (with remote indicator)
LED Indicator	Red, Flashes in polling, and illuminates in alarm
Programming Method	Electronically programming
Code Range	1 ~ 242
Wiring	Non-polarized 2-core for loop. Polarized 2-core for remote indicator.
Sensitivity Level	Level 1: 0.084dB/m - 0.162dB/m Level 2: 0.101dB/m - 0.220dB/m
Heat Detector Class	A2R
Action Temperature	62 °C
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

Certificates and Compliance

- Standards: EN 54-5, EN 54-7
- Certifications: LPCB

Order Information

Part No.	DI-9101E
Device Name	Intelligent Combination Heat Photoelectric Smoke Detector
Product No.	10106285
Compatible Products	GST100 Intelligent Fire Alarm Control Panel GST200N Intelligent Fire Alarm Control Panel GST-IFP4E Intelligent Fire Alarm Control Panel GST- IFP8 Intelligent Fire Alarm Control Panel

Accessories and Tools



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



Part No. DC-9504E
Device Name Diode Base
Product No.: 10105103



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



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