DI-9102E
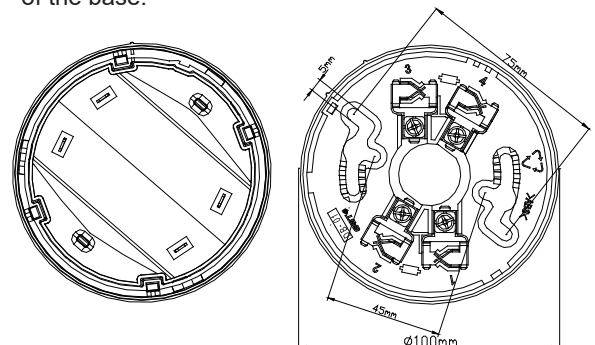# Intelligent Photoelectric Smoke Detector

Description

DI-9102E Intelligent Photoelectric Smoke Detector is addressable type fire detection device, build up fire alarm system together with fire alarm panel and other alarm devices. By light-scattering technology, the detector is suitable for hotel, restaurant, office building, school, bank, warehouse, library, computer room, switch room, and etc

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
- Removable innovative sensing chamber, easy for maintenance
- 2 levels sensitivities programmable (Level 1 certified)
- LPCB approved at EN 54-7

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
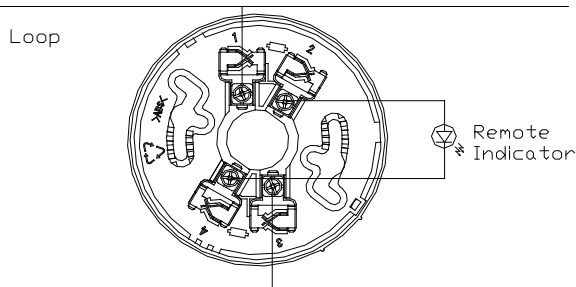4: Negative terminal of remote indicator
The base is suitable to be installed onto standard European embedded back box, with hole-distance 45mm to 75mm

Recommended Cabling

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

Application

The typical wiring diagram is shown below.

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 + Normal LED.

Detector Code	Sensitivity	Polling LED
1	1	Normal
2	2	Normal
129	1	Close
130	2	Close

Technical Specification

Operating Voltage	loop 24V (16V ~ 28V)
Standby Current	≤0.8mA
Alarm Current	≤1.8mA (without remote indicator) ≤ 3.8mA (with remote indicator)
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	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

Certificates and Compliance

- Standards: EN54-7
- Certifications: LPCB

Order Information

Part No.	DI-9102E
Device Name	Intelligent Photoelectric Smoke Detectorr
Product No.	10106287
Compatible Products	GST100 Intelligent Fire Alarm Control Panel GST200-2 Intelligent Fire Alarm Control Panel GST200N 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:	Base Mount Isolator
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