DI-9102E

Intelligent photoelectric smoke detector

Description

DI-9102E intelligent photoelectric smoke detector is a new generation product, connected with intelligent fire alarm control panel to form fire alarm system.
The detector turns on fire LED to indicate fire alarm condition and transmits the fire signal to the control panel.

The detector is developed from sensing chamber by scattering theory. Besides stable performance and easy maintenance, the detector has the ability to endure dust contamination and environmental light.

The detector utilizes drift compensation algorithm: When the environment is changing, such as dust accumulation, humidity and temperature changing, the detector can figure out these drift variation to make up for sensitivity, thus the amount of smoke needed to generate an alarm remains constant, irrespective of environmental conditions.

Features

- Integrated algorithm of analyzing fire, recognize black smoke quickly
- Drift sensitivity, suit to environment extensively
- Identification of defective detectors
- Featuring magnetic test
- Removable innovative sensing chamber, easy for maintenance
- Reporting dirt fault for contaminated chamber
- The fire LED allows 360°viewing
- Providing output terminal connecting with remote indicator
- 2-level sensitivities (complying with EN 54-7 just when sensitivity is level 1)
- Built-in microprocessor stores 14 history data
- Polling LED can be set to close

Specifications

	DI-9102E
Operating voltage	Loop 24V(16V – 28V)
Standby current	≤0.8mA
Alarm current	≤1.8mA (without remote indicator) • ≤ 3.8mA (with remote indicator)
Fire LED	Red. flashes in polling, and illuminates in alarming.
Remote indicator output	Polarized output. Directly connect to remote indicator (built in 10k resistor in series, output current is 2mA); flash in alarming and do not illuminate in normal.
Programming	Electronically addressed
Programming range	Occupying one address within 1 – 242
Setting of sensitivity and range	The sensitivity can be set by programmer with two levels: level 1(default), level 2.
Wiring	Loop: two wire, polarity-insensitive
Environment temperature	-10°C – +50°C
Relative humidity	≤95%, non condensing
Material and color	ABS white (RAL 9016)
Ingress protection rating	IP2X
Dimensions	Diameter: 100mm – Height: 44.5mm(without base)
Mounting hole distance	45mm – 75mm
Weight	About 110g

Accessories and Tools

	DI-9102E	
Model	P-9910B	DB-01
Name	Hand held programmer	Orientation base
Remark	Supplied separately	Supplied separately