

DI-9103E

Intelligent Rate of Rise and Fixed Temperature Heat Detector



Description

DI-9103E Intelligent Rate of Rise and Fixed Temperature Heat Detector is a new addressable fire alarm device cooperating with GST intelligent fire alarm control panels to build a fire detection system. The detector shows fire alarm by the LED indicator and transmits the signal to the FACP.

Features and Benefits

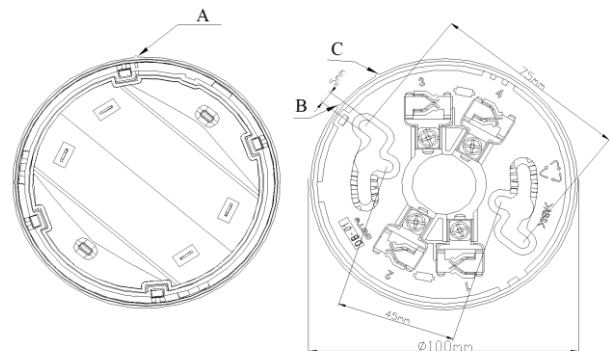
- Electrically addressed, can be modified by programmer
- Self-diagnostic
- Reed switch test
- Fire LED allows 360° viewing
- Possible to switch off polling LED
- Remote indicator output
- 3 classes programmable
- LPCB approved at EN 54-5

Certificates and Compliance

- Standards: EN 54-5
- 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&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.

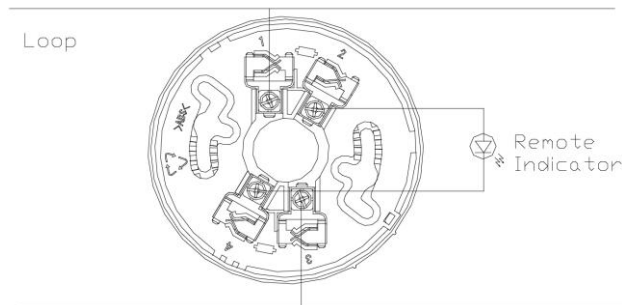
Application

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 A1R + Normal LED.

Sensitivity Codes

Parameter	Class	Polling LED Status
2	A1R	ON
3	A2S	ON
5	BS	ON
130	A1R	OFF
131	A2S	OFF
133	BS	OFF

The typical wiring diagram is shown below.



The operating radius is 5 meters under flat ceiling below 11 meters high. Other parameters, please refer to EN 54-14 Annex A.6.4.

Technical Specification

Operating Voltage	loop 24V (16V ~ 28V)
Standby Current	≤0.6mA
Alarm Current	≤1.5mA (without remote indicator) ≤3.5mA (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.
Class and Setup	3 Classes, A1R, A2S, BS
Typical Fixed Temperature	Class A1: 58°C Class A2: 62°C Class B: 77°C
Environment Temperature	Class A1: -10°C ~ +50°C Class A2: -10°C ~ +50°C Class B: -10°C ~ +65°C
Relative Humidity	≤95%, non-condensing
Material of Enclosure	ABS
Ingress Protection Rating	IP2X, for indoor use only
Dimensions	Diameter: 100mm Height: 53.3mm (with base)
Mounting Hole Distance	45mm ~ 75mm
Weight	About 110g

Order Information

Part No.	DI-9103E
Device Name	Intelligent Rate of Rise and Fixed Temperature Heat Detector
Product No.	10106289
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