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.
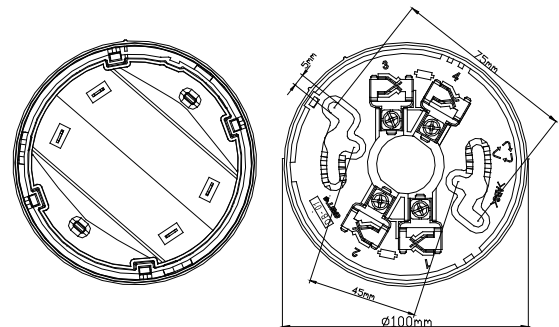
Features and Benefits

- Electrically addressed, can be modified by programmer
- Self-diagnostic
- Reed switch test
- Fire LED allows 360° viewing
- Possible to switch off pulling LED
- Remote indicator output
- 3 classes programmable
- LPCB approved at EN54-5

Certificates and Compliance

- Standards: EN54-5
- 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

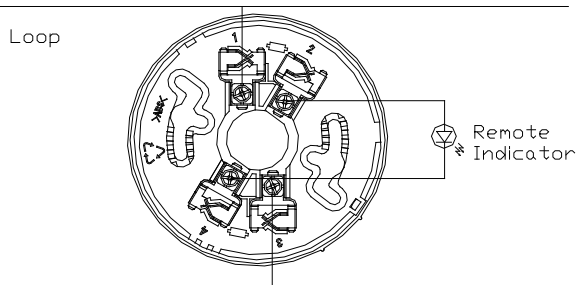4: Negative terminal of remote indicator

The base 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.

Loop

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.

Detector Code

Input Number	Class	Polling LED State
2	A1R	Normal
3	A2S	Normal
5	BS	Normal
130	A1R	Close
131	A2S	Close
133	BS	Close

Technical Specification

Operating Voltage	loop 24V (16V ~ 28V)
Standby Current	≤0.6mA
Alarm Current	≤1.5mA (without remote indicator) ≤3.5mA (with remote indicator)
Indicator	Red. Flashes in polling, and illuminates in alarm
Programming Method	Electronically programming
Code Range	1 ~ 242
Classes and Setup	3classes (A1R, A2S, BS)
Wiring	Non-polarized 2-core for loop. Polarized 2-core for remote indicator.
Ambient Temperature	Class A1: -10°C ~+50°C Class A2: -10°C ~+50°C Class B: -10°C ~+65°C
Typical Fixed Temperature	Class A1: 58°C Class A2: 62°C Class B: 77°C
Relative Humidity	≤95%, non condensing
Material of Enclosure	ABS
Ingress Protection Rating	IP2X
Dimensions	Diameter: 100mm Height: 53.3mm (with base)
Mounting Hole Distance	45mm ~ 75mm
Weight	About 110g

Ordering Information and Compatible Products

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 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

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