

DC-M9103 Conventional Rate of Rise and Fixed Temperature **Heat Detector**





Description

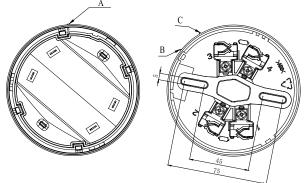
DC-M9103 is Conventional Rate of Rise and Fixed Temperature Heat Detector, can build up fire alarm system together with fire alarm panel and other alarm devices. The detector shows fire alarm by the LED indicator and transmits the signal to the FACP.

Features and Benefits

- Self-diagnostic
- Reed switch test
- Fire LED allows 360° viewing
- LED indication for both fire and normal status
- LED indication for normal status can be turned off by handheld programmer
- Remote indicator output
- Rate of rise detection can be disabled by programmer

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: positive IN
- 2: positive OUT
- 3: negative IN and OUT
- 2: Positive terminal of remote indicator
- 4: Negative terminal of remote indicator

Recommended Cabling

17AWG ~ 14AWG fire cable is recommended, but subject to local codes.



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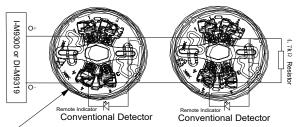
Application

Warning:

The detector should be connected with fire alarm control panel or other devices with current limit function. Otherwise the detector may be damaged by too heavy alarm current.

The alarm current depends on the current limit of the control panel or interface unit.

The detector is compatible with I-M9300 and DI-M9319 interface module. The typical connection is shown below.



DO NOT USE LOOPED WIRE UNDER TERMINAL 3. BREAK WIRE RUN TO PROVIDE SUPERVISION OF CONNECTIONS

Below table shows relative setting codes for working modes. Factory defaults at Normal LED.

| Detector Code | Class | Polling LED |
|---------------|---------------------------------------|-------------|
| 7 | Rate of Rise and Fixed Temperature | Normal |
| 8 | Fixed Temperature | Normal |
| 135 | Rate of Rise and Fixed Temperature | OFF |
| 136 | Fixed Temperature | OFF |

Certificates and Compliance

- Standards: UL 521
- Listed by UL
- WEEE & RoHS Compliant

Order Information

| Part No. | DC-M9103 |
|---------------------|--|
| Device Name | Conventional Rate of Rise and Fixed Temperature Heat Detector |
| Product No. | 10104834 |
| Compatible Products | DI-M9319 Zone Monitor Module |

Technical Specification

| Operating Voltage | 24VDC |
|---------------------------|--|
| | |
| Standby Current | ≤60µA |
| Alarm Current | ≤55mA |
| LED Indicator | Red, periodically flash once in polling when the status is set to "ON"; don't illuminate when the status is set to "OFF". Periodically flash twice in fault; illuminate in alarming. |
| Remote Indicator Output | Polarity-sensitive output ,Directly connecting with remote indicator (built in 10k resistor in series, maximum output current is 2.0mA); The remote indicator does not illuminate in normal and flashes in alarm. |
| Maximum Ripple Voltage | 2V (peak-to-peak) |
| Alarm Reset | Instantaneous power down (Min.10sn, Max. 1.0VDC) |
| Sensitivity | Action Temperature:135°F (57.2°C) Response rate of rise:15°F /min (8.3°C /min) |
| Class and Setup | Rate of rise and fixed temperature (default), and fixed temperature programmable. |
| Maximum spacing | 50 ft. (15.2 m) |
| UL Temperature Range | 32°F (0°C) - 100°F (37.8°C) |
| Operating Temperature | 14°F (-10°C) - 122°F (+50°C) |
| Relative Humidity | ≤95%, non condensing |
| Material of Enclosure | ABS White (RAL 9016) |
| Ingress Protection Rating | IP2X |
| Dimensions | Diameter: 100mm Height: 53.3mm (with base) |
| Mounting Hole Distance | 45mm-75mm |
| Weight | 110g |

Accessories and Tools



Part No.: Device name: Product No.:

DC-M9402 **Conventional Sounder Base** 10106029

Device name: Product No.:





Part No .:

Part No.: Device name: Product No.:

Part No .: Device name: Product No.:

DB-M01 **Common Detector Base** 30205767

C-9314P **Remote Indicator** 10102339

P-9910B Handheld Programmer 10104894



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