

DC-M9102N Conventional Multi-criteria Smoke Detector



Description

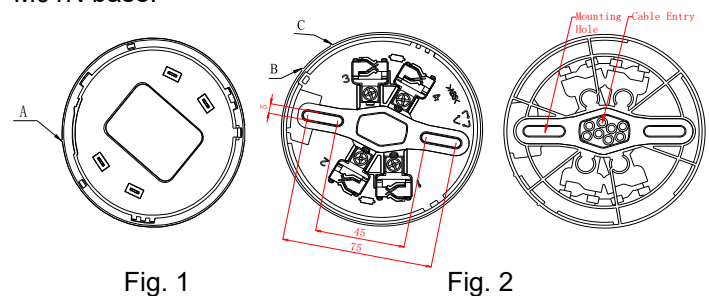
DC-M9102N Conventional Multi-criteria Smoke Detector which can build up fire alarm system together with fire alarm panel and other alarm devices. Using Multi-Wave Multi-Angle (MWMA) techniques, DI-M9102N detector can recognize features of smoke particles from different type of fire. Therefore, sensitivity has been enhanced and the false alarms caused by dust has been reduced.

Features and Benefits

- Strong environmental adaptability due to drift compensation
- Remote indicator output available;
- Reed switch test;
- Self-diagnostic;
- Polling LED can be set to OFF;
- 3 levels of smoke sensitivity programmable, complying to UL268 7th Edition.

Terminals and Installation Holes

Fig. 1 shows the detector bottom and Fig. 2 DB-M01N base:



- 1: Positive terminal of the power output of DI-M9319
- 3: Negative terminal of the power output of DI-M9319
- 2: Positive terminal of remote indicator
- 4: Negative terminal of remote indicator

Warning: Do not punch mounting holes and cable entry holes bigger than needed. Do not punch more holes than needed.

Recommended Cabling

1.0mm² or above fire cable is recommended, laid through metal or flame-retardant conduit, but subject to local codes. It's suggested to use cables of different color for remote indicator connection to distinct polarity.

Application

The factory default setting is smoke sensitivity Level 2. The detector can be addressed, and information be read or written in field using P-9910B programmer. Below is the parameters set using programmer.

| Detector Parameter | Smoke Sensitivity | Polling LED |
|--------------------|-------------------|-------------|
| 1 | 1 | Normal |
| 2 | 2 | Normal |
| 3 | 3 | Normal |
| 129 | 1 | OFF |
| 130 | 2 | OFF |
| 131 | 3 | OFF |

Certificates and Compliance

- Standards: UL 268. Listed by UL
- WEEE & RoHS compliant

Order Information

| | |
|---------------------|--------------------------------------------|
| Part No. | DC-M9102N |
| Device Name | Conventional Multi-criteria Smoke Detector |
| Product No. | 10106113 |
| Compatible Products | GST-M200, GST-IFP4M Intelligent Fire Panel |

Technical Specification

| | |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Voltage | 24VDC (16V~28V) |
| Standby Current | ≤70μA |
| Alarm Current | ≤55mA |
| Fire LED | Red. Flashes in polling, and illuminates steadily in alarm. |
| Fault LED | Yellow. Illuminates steadily in fault. |
| Remote Indicator Output | Polarity-sensitive output, directly connects to remote indicator (built in 10k resistor in series with max. output current 2mA); Flashes in alarming and does not illuminate in normal state. |
| Programming Method | Electronically addressed |
| Max. Ripple Voltage | 2V (peak to peak) |
| Alarm Reset | Instantaneous cut off (min. 10 seconds, max. 1.0VDC) |
| Wiring | Power: two wire, polarity-sensitive Remote indicator: two-wire, polarity-sensitive |
| Smoke sensitivity Range | Level 1: 1.38%~3.38%/ft Level 2: 2.25%~4.25%/ft Level 3: 3.12%~5.12%/ft |
| UL Approved Environment Temperature | 32° F (0° C)~120° F (49° C) 0~95%, non condensing |
| Operating Environment Temperature | 14° F (-10° C)~131° F (+55° C) 0~95%, non-condensing |
| Ingress Protection Rating | IP2X |
| Dimensions | Diameter: 100mm Height: 54.5mm (with base) |
| Mounting Hole Distance | 45mm~75mm |
| Weight | About 110g |

Accessories and Tools

| Model | Name | Product No. |
|----------|-----------------------------------|-------------|
| P-9910B | Hand held programmer | 10104894 |
| DB-M01N | Common Detector Base | 30209761 |
| DC-M9402 | Conventional Sounder Base | 10106029 |
| C-9314P | Remote Indicator | 10102339 |
| BP-9314P | Back Plate (for remote indicator) | 30208096 |