![GST logo]

DI-M9102N
Intelligent Multi-criteria Smoke Detector

SIGNALING
UL LISTED
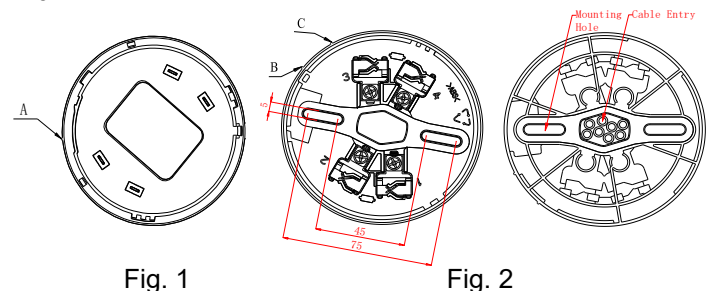Fire Alarm Subassembly

Description

DI-M9102N Intelligent Multi-criteria Smoke Detector is an addressable type fire detection device, 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 and vapor has been reduced.

Features and Benefits

- Address can be programmed in field;
- 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:

Fig. 1   Fig. 2

1&3: Loop connection (non-polarized)

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.	DI-M9102N
Device Name	Intelligent Multi-criterial Smoke Detector
Product No.	10106112
Compatible Products	GST-M200, GST-IFP4M Intelligent Fire Panel

Technical Specification

Operating Voltage	Loop 24V(16V~28V)
Standby Current	≤0.4mA
Alarm Current	≤1.4mA (without remote indicator) ≤3.4mA (with remote indicator)
Fire LED	Red, Flashes in polling, and illuminates 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
Address Range	Occupying one address within 1~242
Wiring	Loop: two wire, polarity-insensitive 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 Required Environmental 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
DI-M9402	Addressable Sounder Base	10105980
DC-M9402	Conventional Sounder Base	10106029
C-9314P	Remote Indicator	10102339
BP-9314P	Back Plate (for remote indicator)	30208096