DI-M9319
Digital Zone Monitor Module

Features

✧ Input port (G, I) is provided with Class B pathway supervision when connects with 4.7KΩ EOLR (Part Number 3010786).

✧ Normally-open (NO) or Normally-close (NC) output automatically follows Input port to change state.

✧ Electronically addressing. Addresses can be modified in field.

✧ Compatible with GST-M200 and GST-IFP4M Fire Alarm Control Panels (FACP).

✧ Standard: UL864, NFPA [70,72].

Description

DI-M9319 Digital Zone Monitor Module (the module) is designed to connect with conventional detectors. When any device connecting to the module reports alarm, the module will transmit the signal to the FACP which generates fire alarm and displays the address of the module.

Connection and Cabling

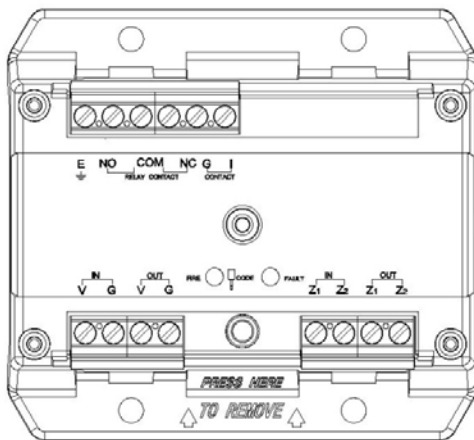Fig. 1 shows terminals of the module.

Fig. 1

(Z1, Z2) IN & OUT: Connecting with Signaling Line Circuit (SLC) loop of FACP, polarity-insensitive.

(V, G) IN & OUT: Connecting with 24VDC power, V connects with a positive terminal and G with a negative terminal.

I, G: Connecting with conventional detectors.

E: Ground cable. Optional. This terminal shall not be connected when the 24VDC power circuit provides cable checking. Otherwise, it shall be connected to ground.

COM, NO, NC: Dry Output terminals.

CODE: Connecting with the programmer.

Recommended Wiring: Minimum 17AWG. Subject to local codes.

Installation

Warning: Before installing the module, disconnect power from the loop and verify that the guide rail is securely installed.

1) Before installation, make sure the enclosure is in good condition and markings are complete.

2) The module shall either be installed in a North America standard metal electrical box. Minimum size is 4 in. square, 2-1/8 in depth (in this case, standard box cover is required), or in a UL Signaling Listed enclosure that provides minimum wiring entries and spacing as shown on Fig 2 and Fig 3. Minimum mounting space is 67×40.5mm.

3) The module can be mounted on a guide rail as shown on Fig 4.

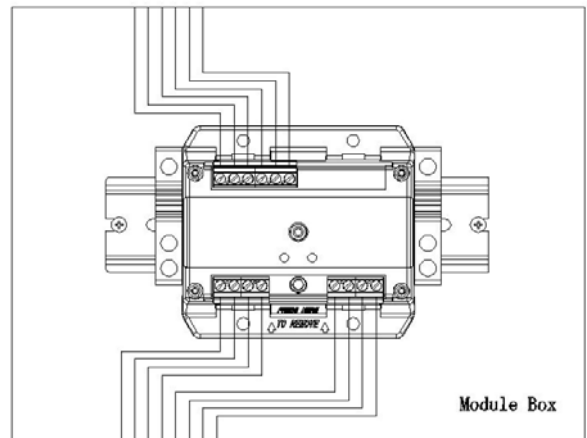4) The module can also be installed in the enclosure by 4 mounting screws as shown in Fig.5.

Fig. 2
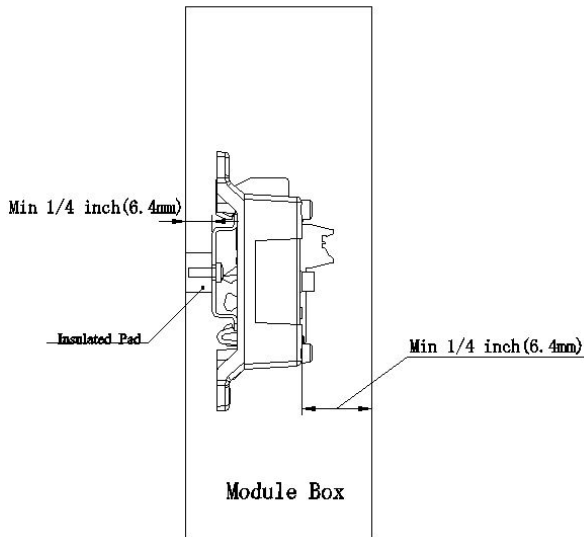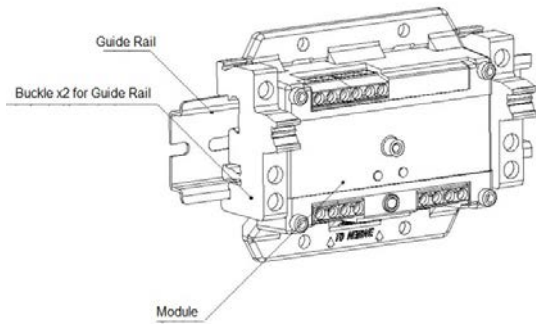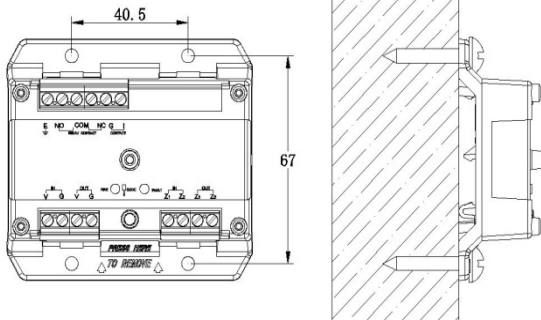
Fig. 3

Fig. 4

Fig. 5

Application

The module can connect up to 30 (*) smoke or heat conventional detectors, manual call points, or the combination.

Compatible devices are:

- DC-M9101 Conventional Combination Heat Photoelectric Smoke Detector;
- DC-M9102 Conventional Photoelectric Smoke Detector;
- DC-M9103 Conventional Rate of Rise and Fixed Temperature Heat Detector;
- DC-M9204 Manual Call Point

(*) Note:

✧ When the detectors are connecting with C-9314P passive remote indicator, the module can only connect up to 9 compatible detectors above.

✧ If optional FACP features, such as Positive Alarm Sequence (PAS) apply to the input zone, the module shall only connect with automatic fire detectors.
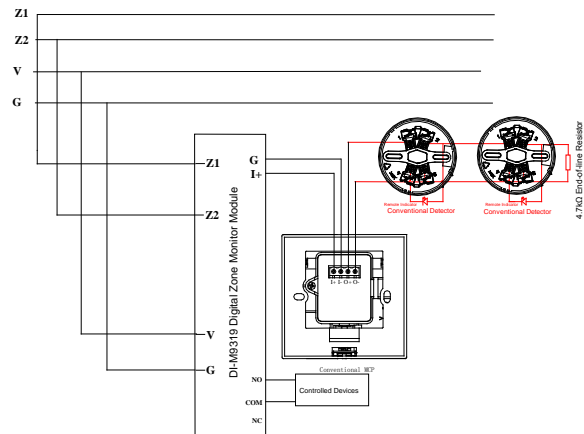
The system connection is shown in Fig. 6.

Fig. 6

Accessories and Tools

Model	Name	Remark
P-9910B	Hand Held Programmer	Order separately
RY-1W-4.7k±5%	End-of-Line Resistor	Provided

Specification

SLC Operating Voltage	SLC loop: 24VDC (16VDC - 28VDC) Power: 24VDC (20VDC - 28VDC) Power Limited.
Standby Current	SLC Loop ≤ 0.38mA Power ≤ 18mA
Action Current	SLC Loop ≤ 0.39mA Power ≤ 60mA
Dry Contact Output Capacity	2A @ 30VDC,0.35PF
Maximum initiating circuit operating voltage range	16.8VDC - 27.6VDC
Compatibility Zone Identifier	10105377
Input Capacity	Connecting with up to 30 detectors or manual call points , or up to 9 detectors with C-9314P passive remote indicator
Initiating circuit maximum line impedance	25Ω each wire
Programming Method	Electronically addressed. Code range is within 1 - 242.
Indicators	Alarm LED: Red, illuminates in fire condition, quiet when 24VDC power is off and flashes in other states. Fault LED: Yellow, it turns 0.5s on, 0.5s off when input fault occur, 0.2s on and 0.8s off when ground fault occurs. It lights steadily when loop faults occur and it turns off in other states.
Ingress Protection Rating	IP30 (not tested by UL)
Operating Temperature	0℃ - +49℃
Relative Humidity	≤ 93%, Non Condensing
Material and Color of Enclosure	ABS, white (RAL9016)
Dimension (L×W×H)	85.3mm×78mm×33mm (with base)
Weight	About 74.1g (with base)

Limited Warranty

This Data Sheet is subject to change without notice. Please contact GST for more information or questions.