

### Features

- ✧ Two-wire and four-wire modes are set by a programmer.
- ✧ Electronically addressed. The address is programmable in field.
- ✧ The built-in microprocessor processes messages intelligently.
- ✧ Insulation technology for input signal, good anti-interference ability.
- ✧ Fault and active indicators available.
- ✧ Loop cable checking.
- ✧ Power cable checking.
- ✧ Plug-in structure.
- ✧ Standards:UL864, NFPA[70,72]

### Description

I-M9300 Addressable Input Module (the module) can be set to two-wire and four-wire modes by the programmer.

In four-wire mode, the module receives input signal (alarm signal from conventional detectors) and transmits that input signal to fire alarm control panel (FACP) which will give fire alarm signal and indicate the address of the module. In case the input loop is broken or short, or the power fails, the module is able to transmit the fault signal to the FACP, and the FACP will then display the address of the module.

In two-wire mode, the module receives input signal (closed switching signal) and transmits that signal to the FACP which will generate action signal and indicate the address of the module. In case the input loop is broken, the module is able to transmit the fault signal to the FACP which will then indicate the address of the module.

### Connection and Cabling

Fig. 1 shows terminals on the module.

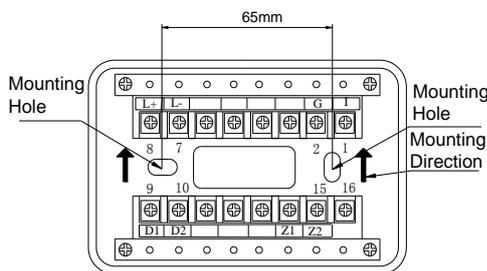


Fig. 1

Z1,Z2:Connecting with loop of FACP, polarity-insensitive.

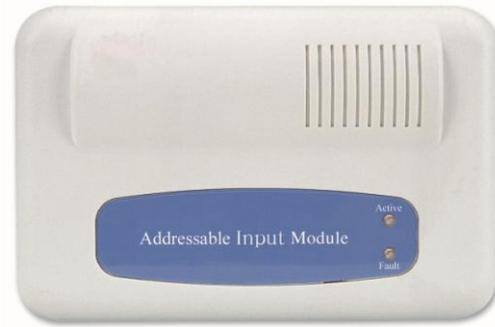
D1,D2: Connecting with 24VDC, polarity-insensitive (only for four-wire mode)

L-,L+: Four-wire input, polarity-sensitive.

I,G: Two-wire input.

### Recommended Cabling

17AWG to 14AWG (maximum 14AWG) fire cable, subject to local codes.



### Installation

The module is simply plugged onto the base after corresponding terminals are connected. If the cable conduit is installed on the surface of the wall, B-9310 Back Box is available (Fig. 2).

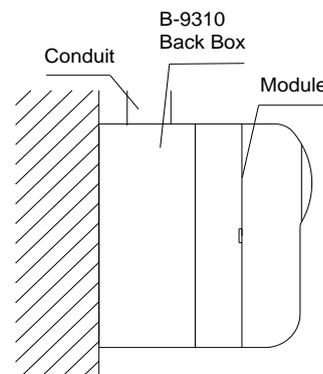


Fig. 2

Note the upward arrow for mounting direction (Fig. 1).

### Application

In four-wire mode, the module can receive fire alarm signal from input terminal and transmit that input signal to the FACP. 4.7kΩ end-of-line resistor is supervised for open or short circuit status.

In two-wire mode, the module can receive switching signals, and transmit that input signal to the FACP. 4.7kΩ end-of-line resistor is supervised for open circuit status.

Address and working mode of the module can be set through GST programmer, refer to *P-9910B Hand Held Programmer Installation and Operation Manual* for specific operation. Working mode is defaulted to two-wire (2) in field which can be modified to four-wire mode (1) in field.

When connecting with field devices, the output loop can connect up to 15 conventional devices. Detectors, such as C-9102 Photoelectric Smoke Detector, C-9103 Rate of Rise and Fixed Temperature detector, DC-M9204 Manual Call Point can be used together. Four-wire mode is used. The wiring diagram is shown in Fig. 3.

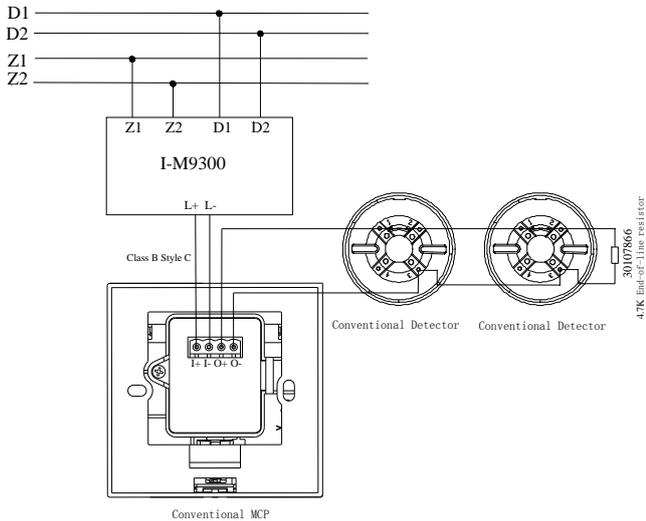


Fig.3

In two-wire mode (2), the module connects to devices with normally-open contact. Wiring diagram is shown in Fig. 4.

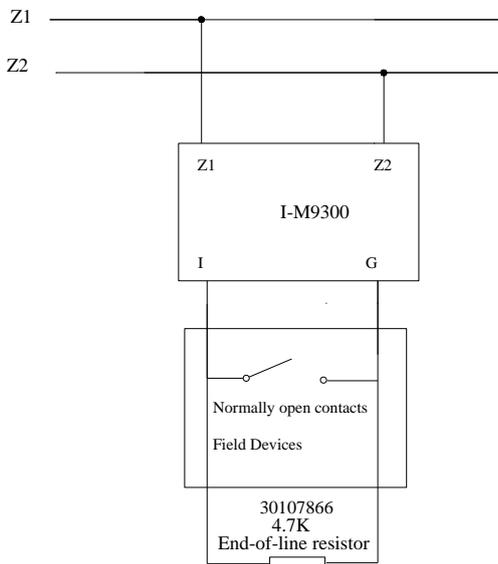


Fig. 4

### Setting Working Modes

On power on state, press *Function* and number “3” on the programmer, “—” will show on the last digit. Inputting one working mode and pressing *Program*, it will display “P” on the screen. The working mode has been set. Factory default mode is two-wire (number “2”). Four-wire mode (number “1”) can be programmed in field. Program the module before installation and select the working mode according to actual situation.

## Specification

Operating Voltage	Signal Loop: 24V Power Loop: 24VDC
Standby Current	Loop≤1mA Power≤10mA
Action Current	Loop≤5mA Power≤60mA
max line resistance to L+ and L-	50Ω
L+ , L- standby current	≤6mA
L+ , L- standby voltage	19VDC
Indicators	Active Indicator: Red, flashes when polling. Illuminates in active state. Fault Indicator: Yellow, illuminates in fault.
Ingress Protection Rating	IP30
Operating Temperature	0℃~+49℃
Relative Humidity	≤93%, non condensing
Material of Enclosure	ABS
Dimension (L×W×H)	120mm×80mm×43mm (with base)
Weight	About 200g (with base)

## Accessories and Tools

Model	Name	Remark
P-9910B	Hand Held Programmer	Order separately
B-9310	Back Box	Order separately

## Limited Warranty

**GST** warrants that the product will be free of charge for repairing or replacing from defects in design, materials and workmanship during the warranty period. This warranty does not cover any product that is found to have been improperly installed or used in any way not in accordance with the instructions supplied with the product. Anybody, including the agents, distributors or employees, is not in the position to amend the contents of this warranty. Please contact your local distributor for products not covered by this warranty.

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

### Gulf Security Technology Co., Ltd.

No. 80, Changjiang East Road, QETDZ, Qinhuangdao, Hebei, P. R. China 066004

Tel: +86 (0) 335 8502434 Fax: +86 (0) 335 8502532

[service.gst@fs.utc.com](mailto:service.gst@fs.utc.com) [www.gst.com.cn](http://www.gst.com.cn)