

Features

- ✧ Two-wire and four-wire modes can be programmed through hand held programmer.
- ✧ Electronic address can be modified in field.
- ✧ Built-in MCU processes messages intelligently.
- ✧ Monitoring power supply.
- ✧ Fault and action indicators available.
- ✧ Four wire output cable checking.
- ✧ Plug-in structure.
- ✧ Standard: EN 54-18:2005.

Description

I-9301 Addressable Single I/O Module works in two-wire mode and four-wire mode.

In four-wire mode, on receiving start command from the fire alarm control panel (FACP), it will close the output relay to output 24VDC and illuminate the Active indicator. If there is short, open circuit, or power down, the module can check failure and report it to the FACP.

In two-wire mode, on receiving start command from the fire alarm control panel (FACP), it will close the output relay to output normally-open normally close contact signal and illuminate the Active indicator.

Connection and Cabling

Fig. 1 shows terminals on the module.

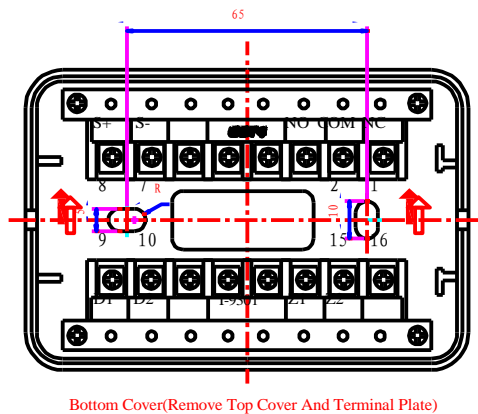


Fig. 1

Z1, Z2: Connecting with loop of FACP, polarity-insensitive.
D1, D2: 24VDC power cable, polarity-insensitive (only for four-wire mode).

S+, S-: Output for four-wire mode, polarity-sensitive. Connecting with D1 (9), D2 (7) of C-9403. S+ connects with D1(9), and S- with D2(7).

NC, COM, NO: Normally open and normally close terminals for two-wire mode.

Recommended Wiring

1.5mm² or above fire cable for 24VDC, 1.0mm² or above fire cable for others, subject to local codes.



Installation

The module is simply plugged onto the base after corresponding terminals are connected.

If the cable conduit is on the surface of the wall, the B-9310 Back Box is available. Note the upward arrow for mounting direction (Fig.1).

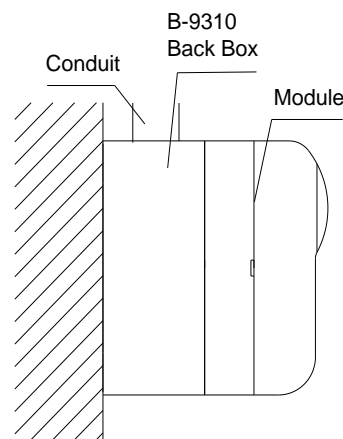


Fig. 2

Application

The module connects with fire control devices such as lifts and fire doors which are activated by FACP.

The address and working mode of the module can be programmable by a GST programmer in field.

Please refer to *P-9910B Hand Held Programmer Installation and Operation Manual* for details. Factory default mode is four-wire (number "1"). Two-wire mode (number "2") can be programmed in field.

- ✧ The module connects with C-9403 conventional sounder strobe. Its system connection is shown in Fig. 3. Working mode should be set to four-wire (1), volt output for S+, S- should connect with 4.7kΩ resistor in parallel (refer to Fig. 3).

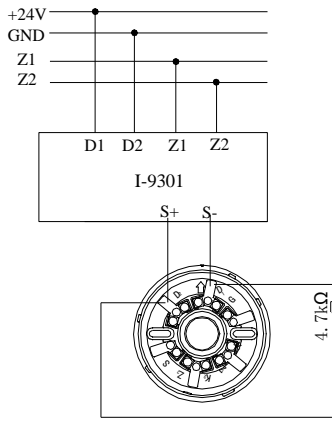


Fig. 3

◇ The module connects with filed devices as shown in Fig. 4. The working mode is two-wire.

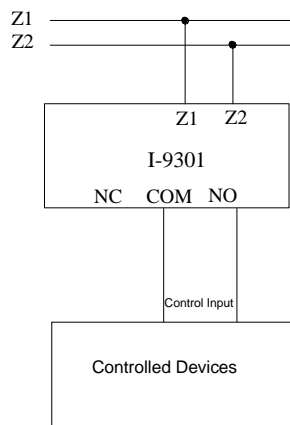


Fig. 4

Setting Working Modes

On power on state, press *Program* 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 four-wire (number “1”). Two-wire mode (number “2”) can be programmed in field. Program the module before installation and select the working mode according to actual situation.

Warning:

Please do not connect the contact to AC control loop directly to avoid the module or controlled devices being damaged by strong AC interference.

Accessories and Tools

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

Specification

Operating Voltage	Signal Loop 24V(16V~28V) Power 24VDC(20VDC~28VDC)
Standby Current	Loop≤1mA ; Power≤5mA
Action Current	Loop≤3mA ; Power≤20mA
Output Capacity	Four-wire mode: 24VDC/1A Two-wire mode: 24VDC/2A
Output Control Type	Four-wire mode: Volt contact output Two-wire mode: Relay normally open normally closed volt-free contact output
Programming Method	Electronically addressed
Code Range	One address within 1~242.
Indicators	Active Indicator: Red, flashes when polling. Illuminates in action. Fault Indicator: Yellow, illuminates in fault.
Ingress Protection Rating	IP30
Operating Temperature	-10℃~+55℃
Relative Humidity	≤93%, non condensing
Material of Enclosure	ABS
Dimension (L×W×H)	120mm×80mm×43mm (with base)
Weight	About 194g (with base)

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 shall not apply to 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 document is subject to change without notice. Please contact GST for more information or questions.

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