

Features

- ✧ Input port can be programmed to monitor either normally open or normally closed dry contact input.
- ✧ Input can also be programmed as “self-answering”, which means that the Input port monitoring is disabled, and the module will directly send a “status” signal to FACP when the dry-contact output changes state.
- ✧ Addressable unit. Address can be programmed in field.
- ✧ Input port utilizes AD sampling technology for precise testing.
- ✧ Guide rail for easy installation.
- ✧ Standard: EN 54-18:2005

Description

With a microprocessor, DI-9302E Digital High Voltage Relay Module can communicate with fire alarm control panel (FACP), control output, input circuit fault, logic state of input signals, and state LEDs. On receiving start command from the FACP, it will close the output relay and illuminate the Active indicator.

Connection and Cabling

Terminals of the module are shown in Fig. 1.

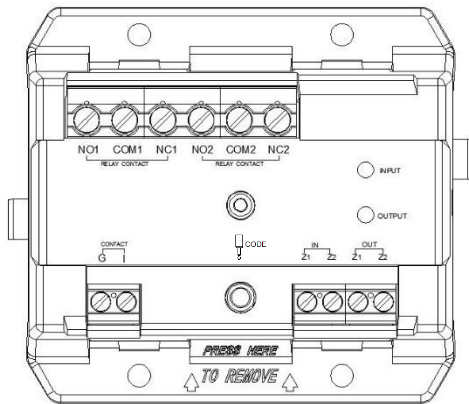


Fig. 1

- ✧ (Z1, Z2) IN & OUT: Connecting with Signaling Line Circuit (SLC) loop of FACP, polarity-insensitive.
- ✧ I, G: Connecting with normally open dry contact of an input device that closes when the device is in alarm or changes state. It may also be set to normally closed input by hand held programmer.
- ✧ COM1,NO1,NC1,COM2,NO2,NC2: Dry contact output terminals.
- ✧ CODE: Connecting with the programmer.
- ✧ TEST: Relay start test port. Press the internal key through this hole to simulate receiving the start command of the FACP.

Recommended Wiring: 1.0mm² or above fire cable for



2831-CPR-F2176
GST-0018-01



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21

all terminals. Subject to local codes.

Installation

Warning:

- ✧ **Before installing the module, disconnect power from the loop.**
 - ✧ **The module should be connected to the controlled device after passing No-load test.**
- 1) Before installation, make sure the enclosure is in good condition and markings are complete.
 - 2) The module can be mounted on a guide rail as shown on Fig2.
 - 3) The module can also be installed in the enclosure by 4 mounting screws as shown in Fig3. Minimum mounting space is 68.2x40.5mm.

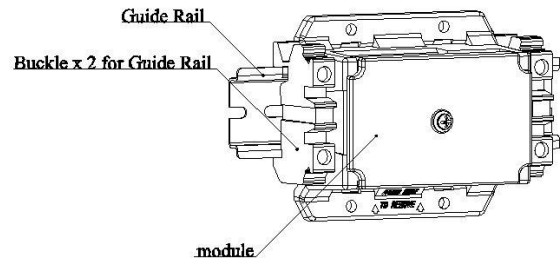


Fig. 2

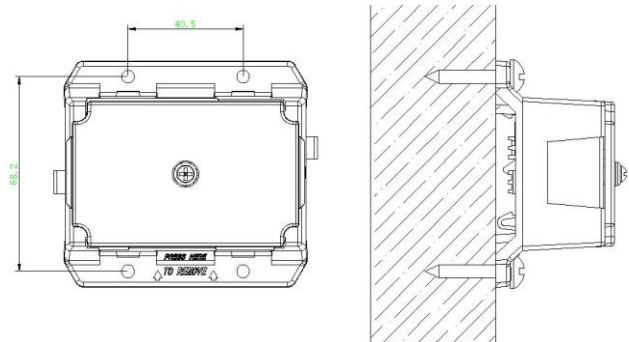


Fig. 3

Application

The module connects with fire control devices which are activated by the FACP.

The address and working mode of the module can be

programmable by a programmer in field. Please refer to *P-9910B Hand Held Programmer Installation and Operation Manual* for details.

Programming Parameters:

In standby state of the programmer, Inputting “456” and then pressing “Clear” button can unlock the programmer.

In standby state of the programmer, press *Fn* and then number 3, “—” will be popped up on the screen to indicate it is in programming mode. Write a parameter and then pressing “Program”, a “P” will show on the screen meaning the parameter is programmed.

Press *Fn* and then number 3, input checking methods and the number of address points can be set.

Parameters Setting	Input
11	Self-answering, one address
12	normally-closed, one address
13 or other number	normally-open, one address,
22	normally-closed, Occupies two addresses, one for the input and one for output.
23	normally-open, Occupies two addresses, one for the input and one for output.

✧ Using GST-IFPx series Panel, invert mode or normal mode can be set. The operation process is as follows: Click the setting key (⊙), project settings key, loops key in turn, select the loop and address to be set, enter dev info interface. Then select "DI-9302E" in spec option, and switch between "fail" and "safe" modes in class option;

Safe mode is the normal output mode, and fail mode is opposite to safe mode.

✧ Connection of the module to field devices with normally open dry contact is shown in Fig. 4.

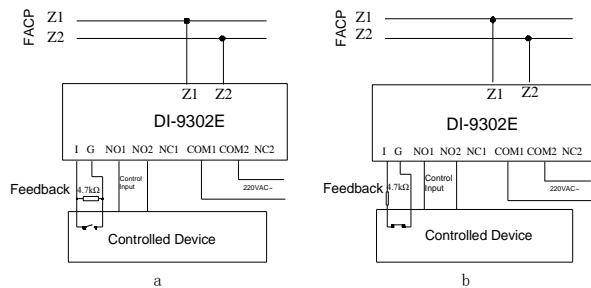


Fig. 4

Notes:

✧ It's only applied for not more than 30VDC or AC.

✧ Some fire door control panel, elevator control box has low starting current because of using comparator, logic level. We don't recommend that the module is adopted due to false alarms caused by circuit or special interference. Please add relays between the module and the control devices if the module is used necessarily.

✧ The module is not used for gas extinguishing equipment.

Accessories and Tools

Model	Name	Remark
P-9910B	Hand Held Programmer	Supplied separately
RT-0.25W-4.7kΩ±5% -25mm	Resistor	Provided

Specification

Operating Voltage	Loop 24V(16V~28V)
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Standby Current	≤0.34mA
Action Current	Loop ≤ 7.88mA
Output Capacity:	Capacity is 220VAC /5A.
Output Control Way	Relay normally open/normally closed contact input
Programming	Electronically addressing
Address Range	Two options preset by manufacturer: Option 1: Both Input and Output occupy one address that ranges from 1 to 242. Option 2: Occupy two addresses representing Input and Output. Input address range is 1 to 241. Output address is automatically programmed as input address plus 1.
LED	Input LED: Red. It lights in receiving feedbacks, lights 0.5s on, 0.5s off in input faults, flashes twice in power fault and flashes in other states. Output LED: Red. It lights in relay action. It turns off in other states.
Ingress Protection Rating	IP30
Operating Temperature	-10℃~+55℃
Relative Humidity	≤95%, non condensing
Materials of the Enclosure	ABS, white(RAL9016)
Dimension(LxWxH)	92.8mmx79.2mmx46mm
Weight	About 120g

For Article33 information, please refer to the following website: <https://www.gst.com.cn/en/reacharticle33.asp>

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