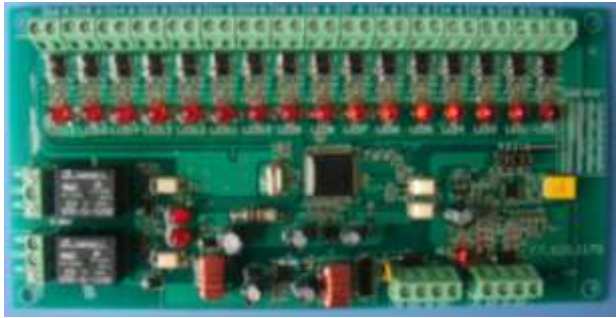


### Addressable Multi-Channel Interface



An integrated solution for application of multi-input signals, saving routing space and installation cost. With microprocessor, DI-9309 Addressable Multi-Channel Interface can communicate with fire alarm control panel (FACP), monitor power supply, and judge the logic state of input signal, control output and state indicators.

Each output channel occupies an individual address and receives start command from FACP, energizes the related relay, gives dry contact output. Each input is corresponded to one address to receive the state signal and transmit it to FACP. The quantity of channels can be set by jumpers.

#### Features

- Providing Max. 16 channels of independent inputs. The quantity can be set as required.
- Input signals are insulated from the loop.
- Providing two channels of independent dry contact output.
- 3-18 consecutive addresses, changing with selected channel quantity.
- Power supply monitored.
- Cable monitored for open circuit and short circuit.

#### Wiring

Fig. 1 shows dimensions and hole distances.

Z1, Z2: loop of FACP, non-polarized.

D1, D2: 24VDC power, non-polarized.

I(n)G: Channel (n) volt-free normally open input.

NC1 (NC2), COM1(COM2), NO1(NO2): Dry contact outputs of Channel I (Channel II).

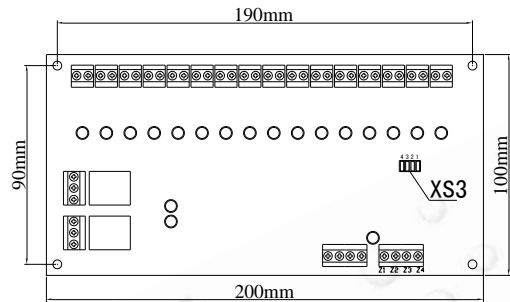


Fig.1

#### Recommended Cabling

1.0mm<sup>2</sup> or above fire cable, subject to local codes  
1.0mm<sup>2</sup> or above fire cable for others. Subject to local codes.

#### Application

The DI-9309 interface is designed to connect with active equipment such as flow switch, pressure switch, position switch, signal valve and others which able to transmit back normally open signals. The outputs can be used to connect with the equipment controlled by FACP such as fire door, pump, smoke exhaust fan, smoke vent, air vent, fire damper and etc.

##### 1. Setting

###### Address setting

DI-9309 interface can be addressed with power off by using P-9910B programmer connected to Z1 and Z2, as shown in the Fig.2. Please refer to P-9910B Hand Held Programmer Installation and Operation Manual for details.

###### Input Channel Quantity Setting

Set input channel quantity from 1 to 16 (always beginning from Channel 1) through jumpers inserting to XS3. The code is printed on the PCB.

**Code Range:**

Occupying 3-18 addresses, the output address of Channel 1 can be set within 1~225. The output address of Channel 2 is automatically increased 1 to Channel 1. The input addresses are following the 2<sup>nd</sup> output address.

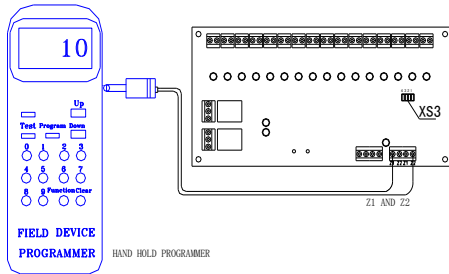


Fig.2

Please refer to DI-9309 Addressable Multi-Channel Interface Installation and Operation Manual for details.

**2. Connection**

1) Fig.3 shows the input connection with volt-free normally open input.

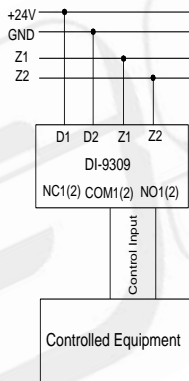


Fig.3

2) Fig.4 shows the output connection with dry contact output.

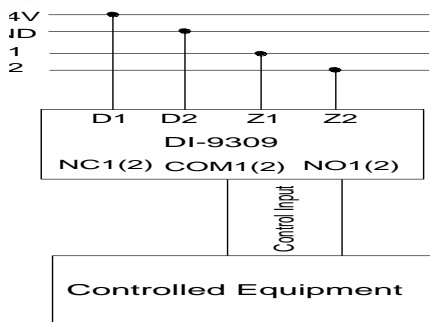


Fig.4

**Note: This interface cannot be used to control gas extinguishing equipment.**

**Specification**

Operating Voltage	Loop voltage: 24V (16V~28V). Power Supply Voltage: 24VDC (20VDC~28VDC).
Standby Current	Loop ≤1.5mA Power ≤50mA
Action Current	Loop ≤3mA Power ≤100mA
Output Capacity	Output contact capacity: 220V/2A.
Programming Method	Electronically programming.
Code Range	Occupying 3-18 addresses, the output address of Channel 1 can be set within 1~225.
Action Indicators	Red. Separate polling indicator HL0. Individual state LED (n) for each input channel. Flashes in fault state. Illuminates in action state. Quiet in normal supervisory. HL1 and HL2 for each channel output. Illuminates when activated.
Ambient Temperature	-10°C~+50°C
Relative Humidity	≤95%, non condensing
Mounting Distance	Hole 190mm× 90mm
Dimensions (LxWxH)	200mm×100mm×20mm
Weight	About 240g

**Accessories and Tools**

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

Please contact with GST sales for compatible devices.