

Features

- ❖ Cable checking for output cables input audio cables or 24V input cables.
- ❖ Occupying one address. It can be modified in field.
- ❖ Output port utilizes AD sampling technology for precise testing.
- ❖ DIN-Rail mounted or Wall mounted.
- ❖ Standard: EN 54-18:2005



Description

With a microprocessor, DI-9305E Digital Single Riser Output Module (the module) can communicate with a FACP. The module is designed to connect with 70V/100V input audio signal cables or 24VDC input cable, featuring of checking states of input or output ports. Checking method can be set.

- 1) Before installation, make sure the enclosure is in good condition and markings are complete.
- 2) The module can be mounted on a 35mm DIN-Rail as shown on Fig. 2.
- 3) The module can also be wall mounted by 4 mounting screws as shown in Fig. 3. Mounting space is 67mm x 40.5mm.

Connection and Cabling

Fig. 1 shows terminals on the module.

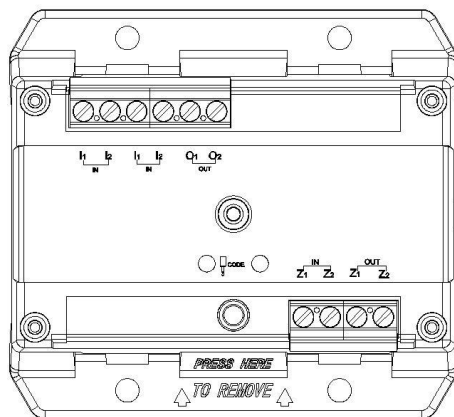


Fig. 1

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

O1, O2: Output terminals

(I1, I2) IN & OUT: Power input terminals. For connecting with 24V signal terminals or 70V/100V audio signal terminals (Note: there is 50kΩ resistance between I1 and I2).

CODE: connecting with P-9910B programmer.

Recommended Wiring

1.0mm² or above fire cable for all terminals, and subject to local codes.

Installation

Warning:

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

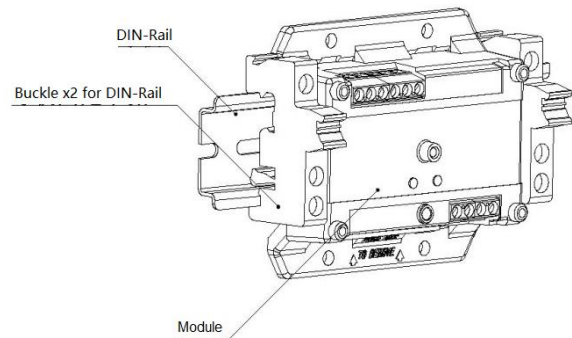


Fig. 2

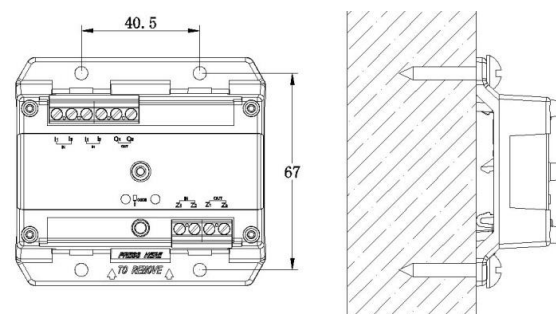


Fig. 3

Application

Connect terminals of I1/I2 with O1/O2. The address can be programmed in field through a P-9910B Hand Held Programmer.

Programming Parameters:

In standby state of the programmer, Inputting "456" and then pressing "Clear" can unlock the programmer, pressing *Fn* and then number 3, "—" (data waiting for programming) will be popped up on the screen. Writing a parameter and then pressing "Program", a "P" will show on the screen meaning the parameter is programmed.

Operation of *Fn* and 4 can be done as the same as

Fn and 3.

Press Fn and then number 3, input checking methods can be set.

| | |
|--------|-------------|
| 1 | No checking |
| others | Checking |

Pressing Fn and then number 4, output checking methods can be set.

| | |
|------------------|-------------|
| 1 | No checking |
| others (Default) | Checking |

The relationship between the output port resistance and the product state is shown in the following table:

| | |
|-----------------------|--------------|
| O1/O2 port resistance | Output state |
| < 7.5 kΩ | Fault |
| > 100kΩ | Fault |
| other | Normal |

The relationship between the input port voltage and the product state is shown in the following table:

| | |
|--------------------|-------------|
| Input port voltage | Input state |
| <18 V | Fault |
| >19 V | Normal |

The system connection for applying input audio signals is shown in Fig. 3.

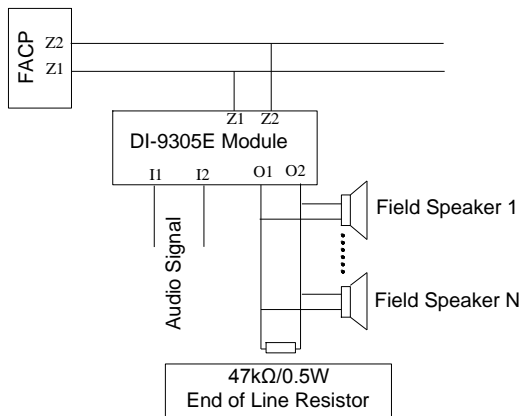


Fig. 3

The system connection for applying 24VDC is shown in Fig. 4.

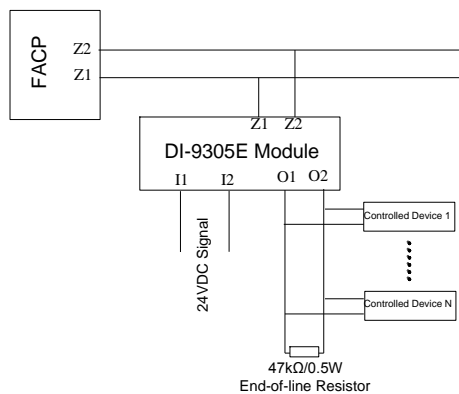


Fig. 4

Specification

| | |
|---------------------------------|---|
| Operating Voltage | Loop: 24VDC (16VDC - 28VDC) |
| Standby Current | Loop ≤ 0.26mA |
| Action Current | Loop ≤ 0.5mA |
| Maximum Output Load | 2A@30VDC Maxi capacity of 60W for 70V audio input; Maxi capacity of 60W for 100V audio input. |
| Relay Output | Volt-free contact |
| Programming Method | Electrically addressed, one address within 1 - 242. |
| Active LED | Illuminates red when the relay is activated, turns off as loop power cuts down and flashes in other states. |
| Fault LED | Illuminates yellow when input fault occurs and flashes 0.5s on and 0.5s off when output fault occurs. The LED is quiet in other states. |
| Ingress Protection Rating | IP30 |
| Operating Temperature | -10°C - +55°C |
| Relative Humidity | ≤ 95%, non-condensing |
| Compatible DIN-Rail | 35mm DIN-Rails |
| Material and Color of Enclosure | ABS, white (RAL 9016) |
| Dimension (LxWxH) | 85.3mmx78mmx33mm |
| Weight | About 66.6g |

Accessories and Tools

| Model | Name | Remark |
|-----------------|----------------------|------------------|
| P-9910B | Hand Held Programmer | Order separately |
| RJ-0.5W-47kΩ±1% | Resistor | Provided |

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