



Figure 1. 4 CH 0-10V Dimming Module

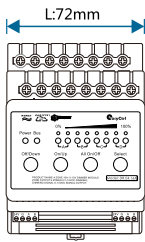


Figure 2. Dimensional Drawing - Front View

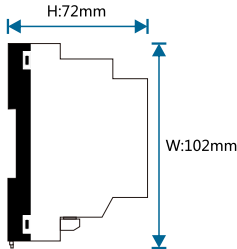


Figure 3. Dimensional Drawing - Sideview

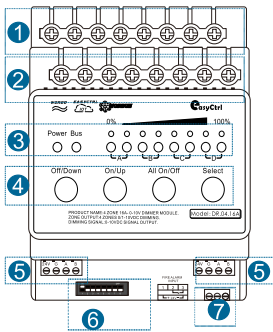


Figure 4. Product Information

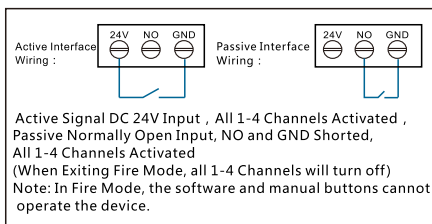


Figure 5. Fire Interface Description

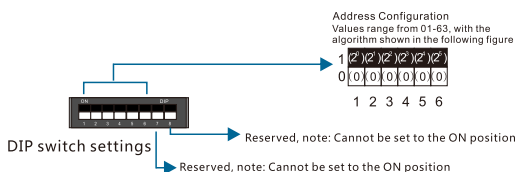


Figure 6. Address DIP Switch Table 1

## Product Overview

4 CH 0-10V Dimming Module (See Figure 1), serves as a system dimming execution unit, typically installed in a distribution box, using DIN rail mounting. It occupies 4P module units. It provides 4 channels of fluorescent lamp dimming, compatible with 0/1-10V dimmable electronic ballasts for LED lights, enabling brightness adjustment and switch control of the lighting.

## Function Description

- Standard 35mm DIN rail installation: Occupies 4P module units.
- Supports 0-10VDC signal control for LED dimming, provides 4 channels of 16A switching.
- Maximum current for 0-10V signal is 40mA (per channel).
- Supports setting the initial power-on state for each circuit (on, off, or previous power state).
- Features sequential delay startup for multiple circuits to prevent power grid surges from simultaneous startup.
- Dimming interface includes  $\pm 2$  kV ESD protection, with short-circuit and overcurrent protection.
- Returns the actual dimmer status of each circuit to the monitoring center immediately after executing scene commands.
- With local and remote programming and testing functions.
- Includes a fire protection interface with one normally open passive and one active 24V connection.
- Supports online firmware updates and Bus network disconnection alarm function.
- Supports RS485/YC-BUS communication.

## Precautions

- Use CAT5E or RVV4\*0.75 four-core wire for bus wiring.
- After installation, check all connections to ensure they are correctly connected.
- The current for each output circuit must not exceed 16A.
- To protect the equipment and load, it is recommended to connect a 16A circuit breaker for each circuit.

## Product Information

Product Dimensions: See Figures 2 and 3

Product Wiring: See Figure 8

Product Information: See Figure 4

- 0-10V Output Terminals: Two terminals per group (one positive, one negative), totaling 4 groups. The aperture can accommodate 4 square millimeters of wire.
- Relay Output Terminals: Adopts a one-in-one-out configuration, totaling 4 channels. The aperture can accommodate 4 square millimeters of wire.
- LED Indicators:
  - Power: Power indicator light
  - Bus: Network indicator light; steady on indicates normal network connection, slow blinking indicates abnormal network connection.
  - Small Round Light: Circuit selection indicator light
  - Large Round Light: Relay status indicator light; It indicates the relay is engaged, off indicates the relay is disconnected.
- Function Keys:
  - Off/Down: Short press to turn off dimming, long press to gradually decrease brightness.
  - On/Up: Short press to turn on dimming, long press to gradually increase brightness.
  - All On/off: Short press to turn all dimming on/off.
  - Select: Select single-channel dimming.
- Bus Interface: 24V, G, A, B.
- Setting Address:
  - Step 1: (See Figure 8) Remove the latch cover; it requires some force to pull it out.
  - Step 2: (See Figures 6-7) Refer to the address setting dip switch table to set the dip switch to the corresponding address.
  - Step 3: After setting the address, remember to replace the latch cover.
- Fire Interface:
  - Fire Center: Provides a normally closed signal to engage all 4 circuits; provides a normally open signal to disconnect all 4 circuits, with priority over software and manual control (see Figure 5).

## Product Installation

See Figures 9-12

- Step 1. Secure the 35mm rail with screws.
- Step 2. Remove the snap-on cover from the 4 CH 1-10V Dimming Module.
- Step 3. Press the entire module onto the rail and slide it until it is in the correct position, then snap the cover into place.

## Safety Warning

- Each relay circuit requires a suitable circuit breaker or fuse.
- Tightening torque should not exceed 0.4 Nm.
- Input power wire: Max 4mm<sup>2</sup>; Load wire: Max 1mm<sup>2</sup>.
- Installation location: Distribution box.
- Do not connect the YC-BUS interface incorrectly, as it may damage the equipment.
- The YC-BUS interface must not be connected to AC power; otherwise, it will damage all devices on the bus.
- Ensure a good ventilation environment.
- Do not expose to rain, contact with other liquids, or corrosive gases.

## Packing List

- DR.04.16A\*1/User Manual\*1/Certificate of Conformity\*1

| 1 2 3 4 5 6 7 8 |      |      |      |      |      |      |      | ON OFF |  |
|-----------------|------|------|------|------|------|------|------|--------|--|
| ID01            | ID02 | ID03 | ID04 | ID05 | ID06 | ID07 | ID08 |        |  |
| ID09            | ID10 | ID11 | ID12 | ID13 | ID14 | ID15 | ID16 |        |  |
| ID17            | ID18 | ID19 | ID20 | ID21 | ID22 | ID23 | ID24 |        |  |
| ID25            | ID26 | ID27 | ID28 | ID29 | ID30 | ID31 | ID32 |        |  |
| ID33            | ID34 | ID35 | ID36 | ID37 | ID38 | ID39 | ID40 |        |  |
| ID41            | ID42 | ID43 | ID44 | ID45 | ID46 | ID47 | ID48 |        |  |
| ID49            | ID50 | ID51 | ID52 | ID53 | ID54 | ID55 | ID56 |        |  |
| ID57            | ID58 | ID59 | ID60 | ID61 | ID62 | ID63 |      |        |  |

Figure 7. Address Dip Switch Table 2

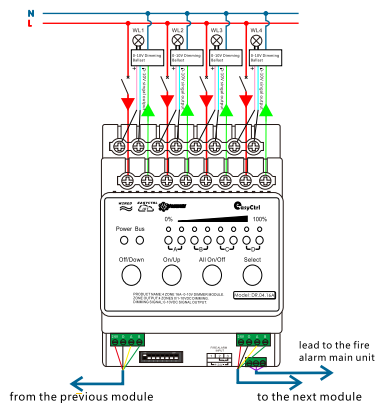


Figure 8. Product Wiring Diagram



Figure 9

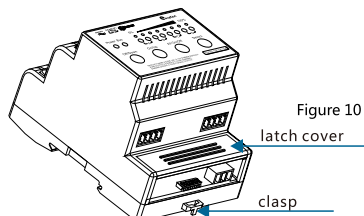


Figure 10

Figure 11

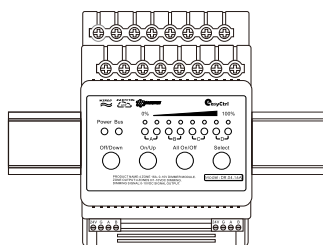


Figure 12

Figure 9-12. Installation Drawing

## Technical Parameters

### Basic Parameters

|                           |                                                    |
|---------------------------|----------------------------------------------------|
| Operating Voltage         | 24VDC $\pm$ 10%                                    |
| Dynamic Power Consumption | $\leq$ 2.5W                                        |
| Rated Current             | 250/400VAC                                         |
| Output Circuit            | 0-10V output, maximum current 40mA (per channel)   |
| Relay                     | 4 relay outputs, 16A/3520W (per channel)           |
| Switching Cycles          | no-load: 5,000,000 cycles , load: 3,000,000 cycles |
| Bus Interface             | bus interface*2                                    |
| Protection                | circuit breaker for each circuit                   |

### External Environment

|                             |            |
|-----------------------------|------------|
| Operating Temperature       | -5°C~45°C  |
| Operating Relative Humidity | $\leq$ 90% |
| Storage Temperature         | -20°C~60°C |
| Storage Relative Humidity   | $\leq$ 93% |

### Product Specifications

|                      |                                                      |
|----------------------|------------------------------------------------------|
| Dimensions ( L*W*H ) | 72 mm*102 mm*72 mm                                   |
| Net Weight           | $\leq$ 316 g/pcs                                     |
| Enclosure Material   | flame retardant PP                                   |
| Installation Method  | standard 35mm DIN rail mounting<br>(see Figure 9-12) |
| Protection Level     | IP20                                                 |

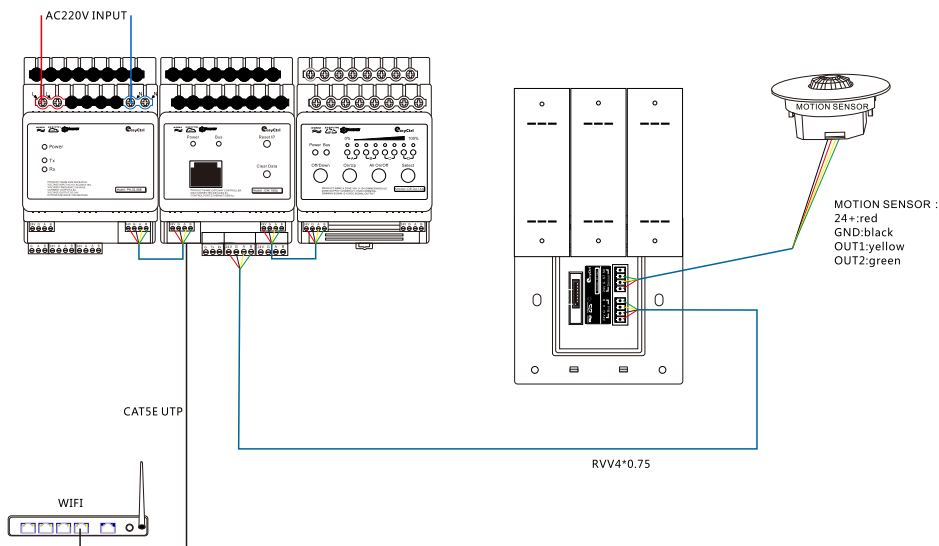
### System Diagram



Notebook



Mobile terminal  
(iOS/Android)



## Bus Specification

| Bus interface | 4-core wire : RVV4*0.75 | UTP : CAT5/CAT5E         |
|---------------|-------------------------|--------------------------|
| 24V           | RED                     | BROWN WHITE/BROWN        |
| GND           | BLACK                   | BLUE WHITE/BLUE          |
| A             | YELLOW                  | ORANGE WHITE/GREEN WHITE |
| B             | GREEN                   | ORANGE/GREEN             |

### Technical support

Service Hotline: 86-18029750069

working hours: 9:00-12:00,13:00-18:00,From Monday to Friday)

Email: ceshi@easyctrlgz.com

website: <http://www.easyctrlgz.com>



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