

Product Manual

Release : September 10, 2026
Version : V1.1



Figure 1. 4-CHANNEL 4A CMOS DIMMING MODULE

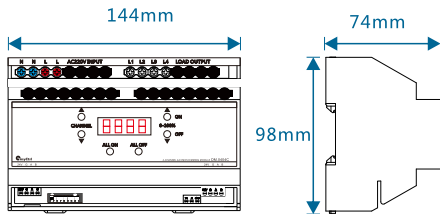


Figure 3. Dimensional Drawing -Sideview

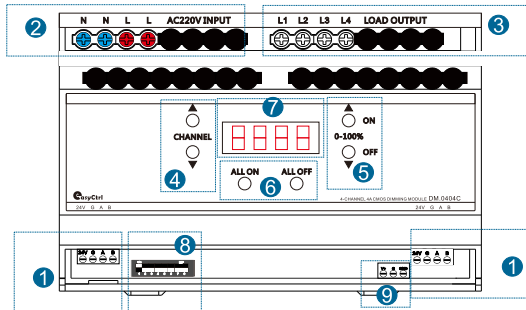


Figure 4. Product Information

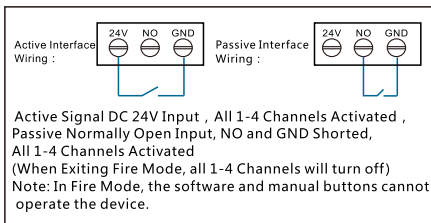


Figure 5. Fire Interface Description

ID SET	1	2	3	4	5	6	7	8	ON OFF
ID01									
ID02									
ID03									
ID04									
ID05									
ID06									
ID07									
ID08									
ID09									
ID10									
ID11									
ID12									
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ID62									
ID63									

Figure 6. Address Dip Switch Table

Product Overview

4-CHANNEL 4A CMOS DIMMING MODULE (see Figure 1) serves as the system's dimming execution unit. Typically installed in a distribution box, it controls the dimming and switching of halogen, incandescent, fluorescent, and LED lights.

Function Description

- Standard 35mm DIN rail mounting, occupies 8 module widths
- Supports one-touch switching between leading-edge and trailing-edge dimming modes, with 4 independent dimming channels
- Supports combined circuit function; flexible merging of 2, 3 or 4 channels for output according to load requirements
- Total output power of four channels: 3520W; maximum load per channel: 880W for dimmable luminaires
- Configurable power-on initial state for each channel (ON, OFF, or state before power failure)
- Equipped with comprehensive short-circuit protection and over-temperature protection to secure equipment and loads
- Returns actual dimming status of all channels to the monitoring centre immediately after executing scene commands
- Built-in multiple dimming curves including linear and logarithmic, compatible with LED, halogen, incandescent and other types of luminaires
- Local and remote programming & test functions available
- Equipped with manual buttons and status indicators for channels and operation, facilitating on-site commissioning
- Comes with 1 fire interface: 1 normally open dry contact and 1 active 24V terminal
- Supports on-line firmware update; Bus bus strip offline fault alarm function
- Supports open RS485 / bus communication

Product Information

Product Dimensions: See Figures 2 and 3
Interface description: See Figure 4

- Bus Interface: 24V, G, A, B.
- Input Interface: N, N, L, L for AC 220V power supply.
- Output Interface: L1, L2, L3, L4. Multiple combined circuits are supported to match loads of different power ratings (See Figure.8.1–8.6)
- Channel Selection
 - Channel Up: Short press to select next channel
 - Channel Down: Short press to select previous channel
- Brightness Adjustment
 - Brightness Up: Short press to turn ON; long press for brightness increase
 - Brightness Down: Short press to turn OFF; long press for brightness decrease
- ALL ON / ALL OFF Key
 - ALL ON: Short press to enable channels 1–4; long press to increase brightness of channels.
 - ALL OFF: Short press to disable channels 1–4; long press to decrease brightness of channels 1–4.
- Digital Tube
 - Thousands digit shows channel number; units and tens digits show brightness value (FL = 100% brightness). Hundreds digit indicates bus status (a horizontal bar means normal bus communication).
- Address Setting
 - Step 1: (See Fig.6) Refer to the address DIP switch table and set the DIP wheel to the corresponding address.
 - Leading/Trailing Edge Selection: DIP switch ID7. OFF = trailing edge dimming; ON = leading edge dimming
- Fire Alarm Interface
 - Normally closed signal from fire control center: 4 circuits close. Normally open signal from fire control center: 4 circuits open. This function has priority over software and manual control (See Figure.5).

Precautions

- Use CAT5E or RVV4*0.75 four-core wire for bus wiring.
- After installation, check all connections to ensure they are correctly connected.
- To protect the equipment and load, it is recommended to connect a 16A circuit breaker for each circuit.

Product Installation

See Figures 9-12

- Step 1. Secure the 35mm rail with screws.
- Step 2. Remove the bottom cover clips of the 4-channel 4A CMOS 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 4mm²; Load wire: Max 1mm².
- 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

- DM.04.04C*1/User Manual*1/Certificate of Conformity*1

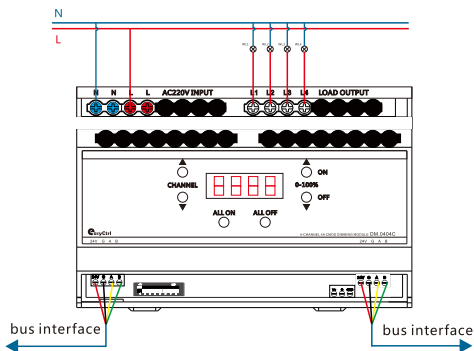


Figure 7. Product Wiring Diagram

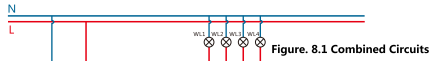
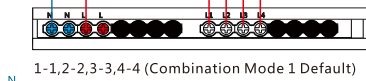


Figure 8.1 Combined Circuits



1-1,2-2,3-3,4-4 (Combination Mode 1 Default)

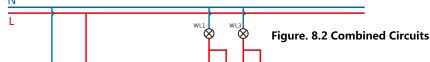
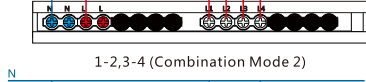


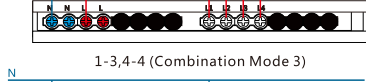
Figure 8.2 Combined Circuits



1-2,3-4 (Combination Mode 2)



Figure 8.3 Combined Circuits



1-3,4-4 (Combination Mode 3)



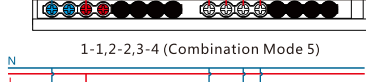
Figure 8.4 Combined Circuits



1-4 (Combination Mode 4)



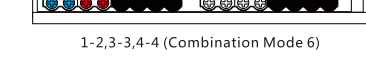
Figure 8.5 Combined Circuits



1-1,2-2,3-4 (Combination Mode 5)



Figure 8.6 Combined Circuits



1-2,3-3,4-4 (Combination Mode 6)



Figure 9

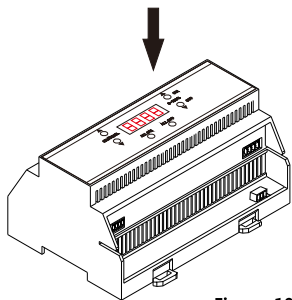


Figure 10

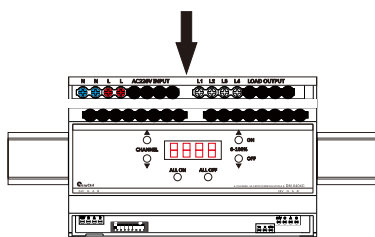


Figure 11

Figure 9-11. Installation Drawing

Technical Parameters

Basic Parameters

Operating Voltage	AC110~230VAC
Operating Frequency	50/60Hz
Output Circuit	4-Channel Dimming
Max. Current per Channel	4A (Resistive load), Min. load per channel $\geq 15W$
Combined Circuits	2-in-1: 8A (Resistive load) / 3-in-1: 12A (Resistive load) 4-in-1: 16A (Resistive load)
Dimming Mode	Leading edge / Trailing edge (Set via DIP wheel, ID7)
Short-circuit Protection	each circuit
Protection	each circuit

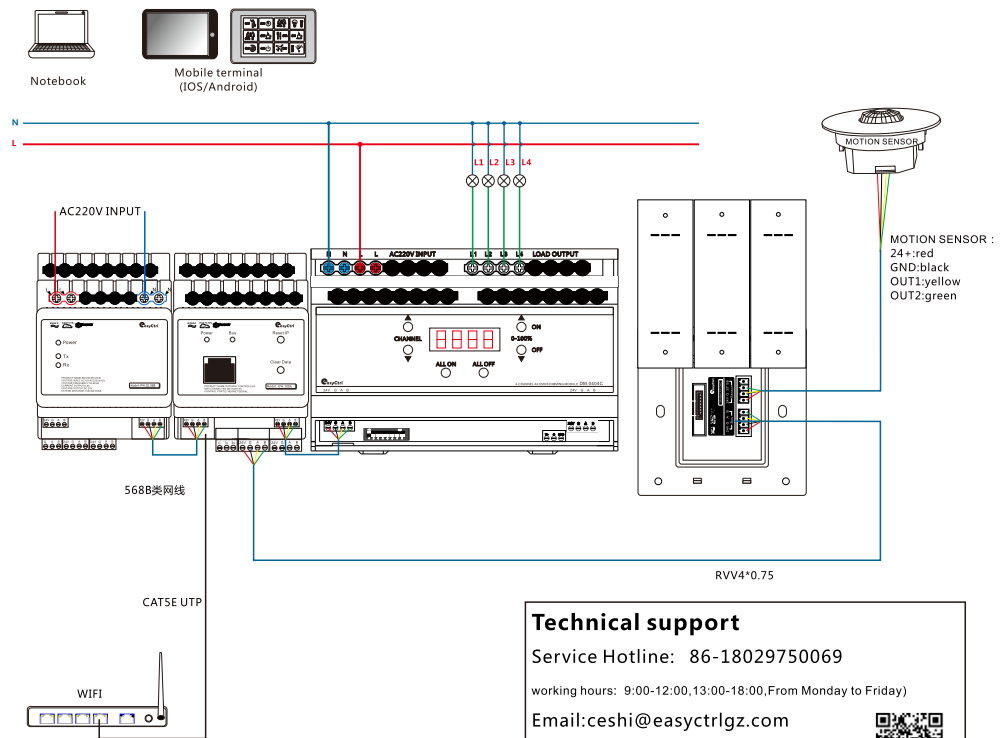
External Environment

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)	144 mm*98 mm*74 mm
Net Weight	≤ 520 g/pcs
Enclosure Material	Aluminum housing + PP
Installation Method	standard 35mm DIN rail mounting (see Figure 9-11)
Protection Level	IP20

System Diagram



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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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