

YC-RL.04.16A 4 CH 16A Relay Switch Module

Product Manual

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Figure 1. 4 CH 16A Relay Switch Module

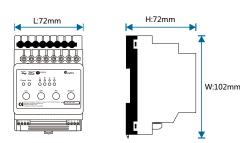


Figure 2. Dimensional Drawing - Front View Figure 3. Dimensional Drawing -Sideview

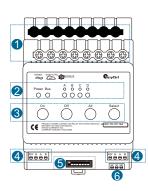


Figure 4. Product Information

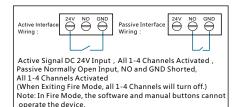
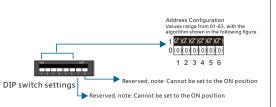


Figure 5. Fire Interface Description



Product Overview

The 4 CH 16A Relay Switch Module (see Figure 1) serves as a system switch execution unit, typically installed in a distribution box. It can control the switching of lights, the on/off state of devices, the on/off state of passive dry contacts, the opening and closing of strong or weak current curtains, the hot/cold valve of water-cooled air conditioning, and the switching between high/medium/low fan speeds.

Function Description

- Standard 35mm DIN rail installation: Occupies 4P module units
- Equipped with Tyco dual-contact relays, providing 4-channel 16A relay switching.
- Each circuit can independently control devices up to 3520W.
- 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.
- Includes two interlock modes for controlling two sets of curtains.
- Includes one interlock mode for controlling the low, medium, and high-speed settings of two central air conditioners.
- Returns the actual switch status of each circuit to the monitoring center immediately after executing scene commands.
- Equipped with manual buttons, circuit, and operation status indicators for convenient local maintenance.
- 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

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- 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
- Relay Output Wiring Terminals: Use a one-in-one-out method; the hole diameter can accommodate 4 square mm 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; lit indicates the relay is engaged, off indicates the relay is disconnected.
 Function Keys:
 - Function Keys: On: Short press to turn on the relay. • Off: Short press to turn off the relay.
 - All: Select all relays. Select: Select a single relay.
- 4. Bus Interface: 24V. G. A. B.
- 5. 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.
- 6. 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 16A Relay Switch 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

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• YC-RL.04.16A*1/User Manual*1/Certificate of Conformity*1

12345678 ID SET	
D006 D101 D111 D122 D133 D114 D ID17 D18 D19 D201 D213 D114 D ID17 D18 D19 D20 D211 D23 D ID14 ID2 ID26 D28 D27 D28 D29 D20 ID29 ID20 ID20 <th>223 ID24 031 ID32 039 ID40 047 ID48 055 ID56</th>	223 ID24 031 ID32 039 ID40 047 ID48 055 ID56
1057 1058 1059 1060 1061 1062 10	063
Figure 7. Address Dip Switch Tab	le 2

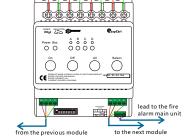
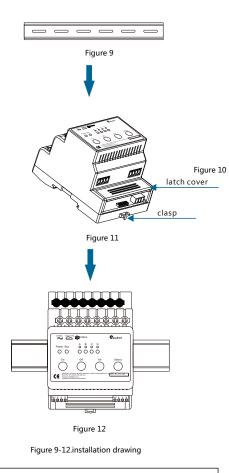


Figure 8. Product Wiring Diagram



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

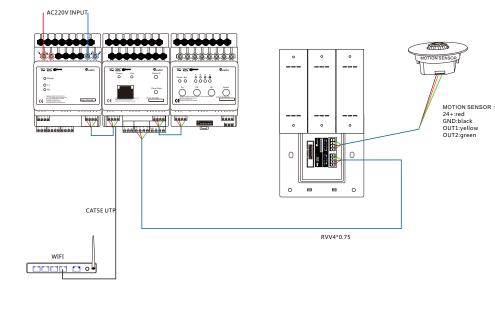
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Technical Parameters

Basic Parameters		
Operating Voltage	24VDC±10%	
Maximum Power Consumption	<1.3W	
Rated Voltage	250/400VAC	
Output Circuit	4-channel relay	
Relay	Tyco double-contact relay	
Rated Current	16A (single channel),Surge current capability: 165A/20ms (single channel	
Switching Cycles	no-load: 5,000,000 cycles , load: 3,000,000 cycles	
Protection	circuit breaker for each circuit	
External Environment		
Operating Temperature	-5°C~45°C	
Operating Relative Humidity	≤90%	
Storage Temperature	-20°C~60°C	
Storage Relative Humidity	≤93%	
Product Specifications		
Dimensions (L*W*H)	72 mm*102 mm*72 mm	
Net Weight	≤241 g/pcs	
Enclosure Material	flame retardantPP	
Installation Method	standard 35mm DIN rail mounting (see Figure 9-12)	
Protection Level	IP20	

System Diagram





Bus Specification

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