easyCtrl®

YC-MI.06A
6 CH Dry Contact Module

Product Manual

Release : September 22, 2023
Version : V1.2

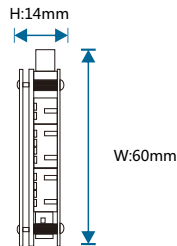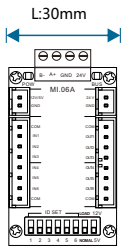Figure 1. 6 CH Dry Contact Module

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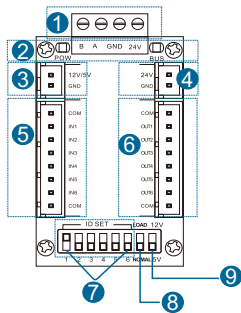

Figure 4. Product Information

Address Configuration
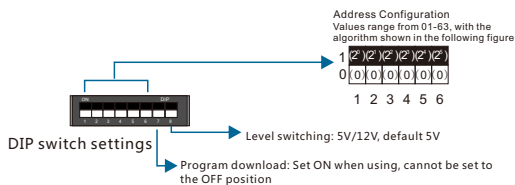Values range from 01-63, with the
algorithm shown in the following figure

DIP switch settings

Level switching: 5V/12V, default 5V

Program download: Set ON when using, cannot be set to the OFF position

Figure 5. Address DIP Switch Table 1

Figure 6. Address Dip Switch Table

Product Overview

6 CH Dry Contact Module (see Figure 1), serves as a system control unit, typically installed in the 86 bottom box. The product is small in size, can be hidden installation, provides 6 channels dry contact sensor input and 6 channels TTL level output, can be used with reset panel or self-locking panel, can access a variety of sensors input dry contact, such as human body sensing, radar sensing, light sensing module.

Function Description

- Small size, perfect for 86 box hidden installation.
- Provides 6 dry contact signal inputs for identification of mechanical keys and sensor trigger switches.
- Output level can be set to 5V or 12V, can adapt to a variety of LED switch panel.
- Comes with hardware logic function, 1 way or logic and 1 way and logic input.
- Port status LED indicator.
- 5/12/24V voltage output to adapt to a variety of sensors.
- Supports online firmware updates and Bus network disconnection alarm function.
- Support YC-BUS communication.

Precautions

- Use CAT5E or RVV4*0.75 four-core wire for bus wiring.
- Do not connect signals of bus interfaces A and B incorrectly; otherwise, bus signals will be abnormal.
- IN1-IN6 channel dry contact input, do not exceed 28V; otherwise, the device will be burned.

Product Information

Product Dimensions: See Figures 2 and 3
Product Wiring: See Figure 7-9
Product Information: See Figure 4

1. Bus Interface: 24V, G, A, B. When cascading with other bus interfaces, do not misconnect (see Figure 8).
2. LED Indicators: :
- Pow : Power indicator light.
- NET : Network indicator light; steady on indicates normal network connection, slow blinking indicates abnormal network connection.
3. Voltage output: 12/5V output voltage. The default output is 5V. If dip dial 8 is ON, the output is 12V.
4. Voltage output: 24V output voltage
5. Dry contact input interface: IN1-IN6 input interface, the two COM is the common interface, any connection, a total positive, COM and IN1-IN6 short contact sends IO signal, NET light will blink when short-circuiting, this indicates that the IO signal is triggered, and the trigger signal can be set by the software to short press, long press, and release the trigger mode.
   Note: When IN1-IN6 is entered at the same time, IN7 and logic are triggered. If either IN1-IN6 is triggered, IN8 or logic is triggered. This setting is virtual and needs to be set by software.
6. TTL level interface: OU1-OU6 input interface,the two COM is the common interface, any connection, a total positive. The default output of the level is 5V, and when the dip dial 8 is ON, the output is 12V
7. Address setting: The default address is 01, the address is set to 01-63 (decimal), using a 6-bit dial, binary dial mode, setting mode (see Figure 6).
8. Program download: Note: This dial is set to OFF, not ON.
9. Level switching switch: The default is 5V output level, 5V/12V adjustable.

Product Installation

- Step 1. Hidden installation, typically installed in the 86 bottom box , or electric box .

Safety Warning ⚠ WARNING

- Tightening torque should not exceed 0.4 Nm.
- Installation location: Distribution box./86 bottom 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

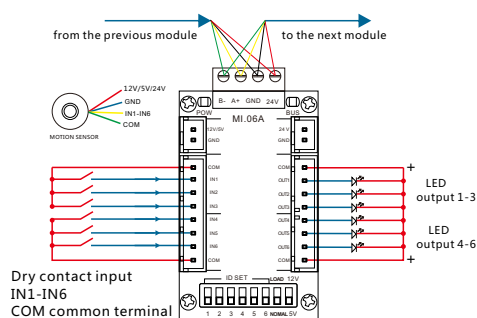- YC-MI.06A*1/8P cables*2/2P cables*2/User Manual*1/Certificate of Conformity*1
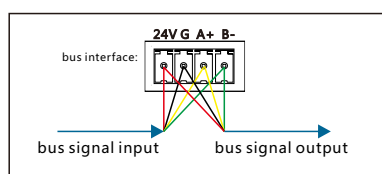
Figure 7. Dry Contact Wiring Diagram
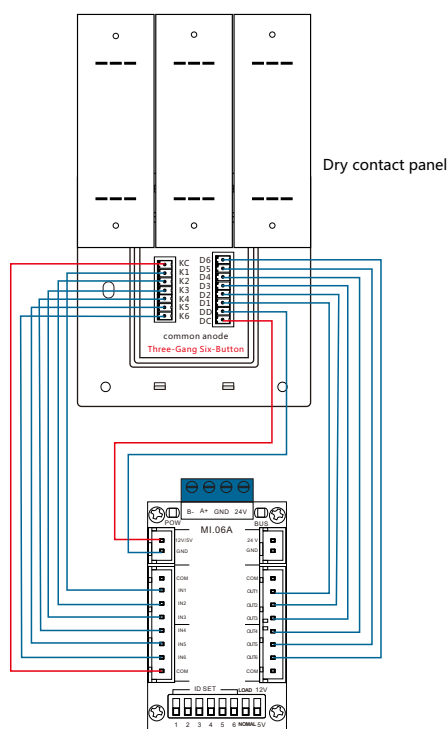

Figure 8. Bus Interface Wiring Diagram


Figure 9. Connect the dry contact panel with feedback

Technical Parameters

Basic Parameters

Operating Voltage	24VDC±10%
Rated Power Consumption	≤0.5W
Bus Interface	bus interface*1
Dry Contact Input	6 dry contact inputs, contact 28V
LED Output	6 ordinary switch LED output control, 5V/12V can be set
Logical Function	1 way or logic and 1 way with logic input
Control Panel	2*running light
Protection	NONE

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)	60mm*30mm*14mm
Net Weight	≤41 g/pcs
Enclosure Material	PCB board quality
Installation Method	hidden installation
Protection Level	NONE

System Diagram
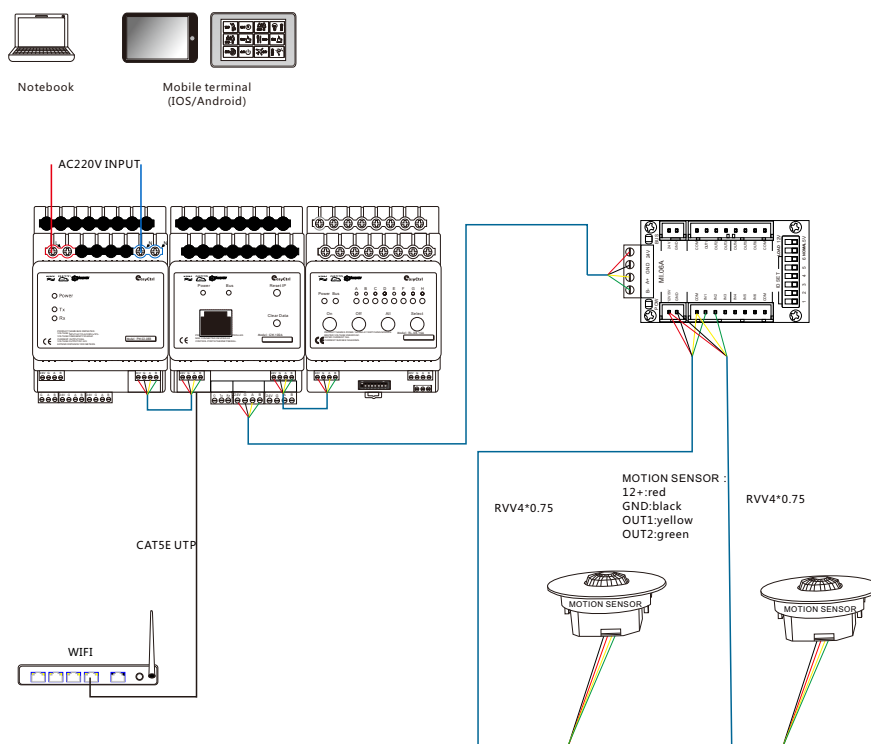
Bus Specification

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

Technical support

Service Hotline: 86-18029750069

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