D8 series key panel

Product series	Product name	Product model
D8 series smart panel(plastic)	Smart 2-key panel	YC.KP.02C.485
	Smart 4-key panel	YC.KP.04C.485
	Smart 6-key panel	YC.KP.06C.485

Product Manual

Release : September 8, 2020

Version : V1.4

Figure 1.2 Key smart panel

Figure 2.4 Key smart panel

Figure 3.6 Key smart panel

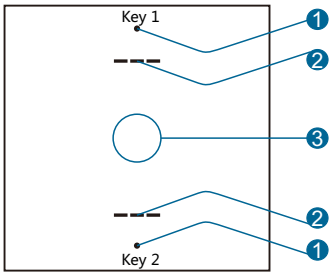


Figure 4.2 Key smart panel

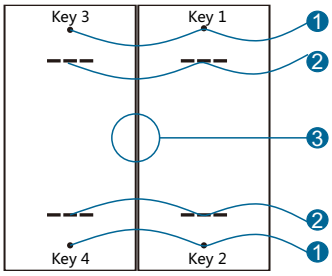


Figure 5.4 Key smart panel

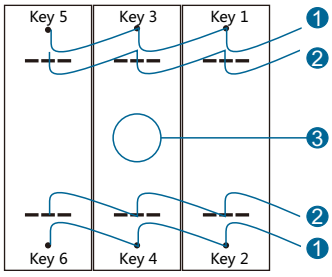


Figure 6.6 Key smart panel

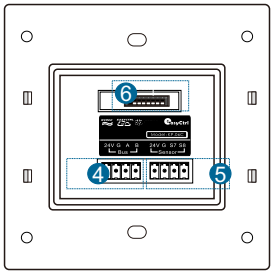


Figure 7. Back view

Product Overview

Smart 2/4/6 key panel(see Figure 1 - 4) , serves as a system control unit , typically installed in the local, to achieve single control or scene control of lighting switch, dimming, curtain opening and closing, music and other devices.

Function Description

- Standard 86-type back box installation, supports seamless cascading of multiple panels.
- Panel appearance colors: Standard options include black, gray, gold; other colors available for customization.
- Provide 2/4/6 programmable keys, with icons engraved or silk-screened for labeling..
- Supports key actions: Short press, short release, long press, and long release to control lights, curtains, scenes, etc..
- Offers two long-distance dry contact sensor input ports, with built-in 24V power supply.
- Sensor interface: Opto-isolated design with high-voltage and overcurrent protection, ensuring strong anti-interference and reliability.
- Built-in manual backlight adjustment keys to adapt to different scenarios.
- Proximity sensing function: Prevents accidental activation by background lighting in sleep mode.
- Each key features customizable base-color and activated-state LED backlighting.
- Supports online firmware updates.
- Supports RS485 BUS communication.

Precautions

- Use CAT5E or RVV4*0.75 four-core wire for bus wiring.
- Do not connect the AB signal of the bus interface incorrectly, otherwise the bus signal will be abnormal.

Product Information

Product Dimensions: See Figures 11 and 12
Installation opening size, see Figure 13 and 14
Product Information: See Figure 4 - 7

1. The key, key indicator and bus are abnormal:
   - Key trigger : Trigger conditions, can be set by software, short press, release, long press, when binding dimming, short press for switch, long press for dimming.
   - Indicator light: indicator light can be switched, dimming, timing, grouping, binding to synchronous, reverse display, no synchronous state, set by software. The indicator is off by default, When the key is pressed, the current key indicator will flash for a while, and the backlight will also light up (the backlight will go out after 30s). Note: The color of key indicator is white.
   - Bus anomaly: When the bus is abnormal, the panel key indicator 1 will keep flashing. At this time, it is necessary to eliminate problems such as line problems and address duplication.
2. Standby backlight setting and brightness
   - Brightness: backlight color is orange, the default is 0% brightness.
   - Standby backlight settings: Note: 2 key panel is key 1 and key2, 4, 6 key panel is key3 and key4. Example: 4-key and 6-key panels: Press key 3 and 4 at the same time, and the backlight will flashUnder, press key 4 to increase brightness, press key 3 to decrease brightness. After adjusting to the desired backlight standby effect, press button 3 and 4 again at the same time, and the backlight light flashes again. Note: this parameter can only be set by hardware, triggering the key 9.
3. Proximity sensing button: comes with one manual touch sensing button, sensing distance 1cm.
4. Bus interface: 24V, G, A, B, and other bus interface cascade, do not connect the wrong (see Figure 9).
5. Dry contact interface: 24, G, P7, P8, trigger mode, G is the common end, G and S7 or S8 short contact to send IO signal, trigger signal can be short press, long press, release trigger mode. Note: S7 is the first dry input. S8 is the second dry contact input (see Figure 10), triggering key 7 and key 8.
6. Address setting: the default address is 01, the address is set to 01-63 (decimal), using 6-bit dial, binary dial mode, setting mode (see Figure 8).

Product Installation

See Figures 15-17

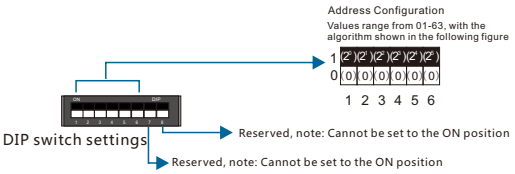
- Step 1. Disassembly port, use a small knife to pry the gap of the disassembly port can be removed, 4 disassembly port, same as above.
- Step 2. Mounting port, mounting screw with M4*25, install to the appropriate position.
- Step 3. During installation, check whether the panel is installed in the wrong direction.
- Step 4. After installation, remove the key cover, align it with the hole, and install it properly.

Safety Warning

- Tightening torque should not exceed 0.4 Nm.
- Installation location:Wall or distribution box
- Do not connect the RS485 BUS interface incorrectly, as it may damage the equipment.
- The RS485 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

- Smart key panel*1/User Manual*1/Certificate of Conformity*1



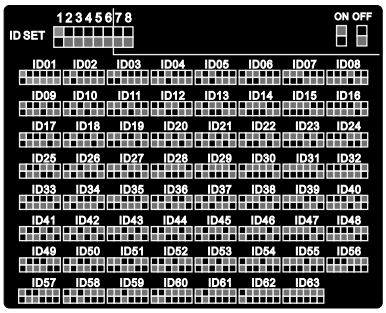


Figure 8. Address DIP Switch Table

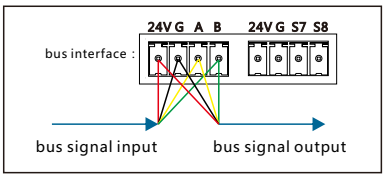


Figure 9. Description of bus interface wiring

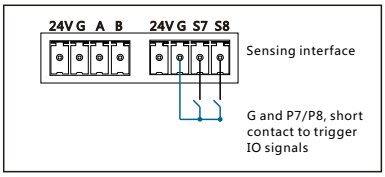


Figure 10. Sensing interface wiring diagram

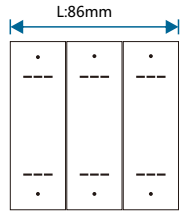


Figure 11. Dimensional Drawing - Front View

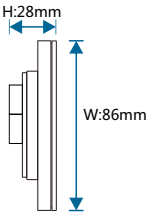
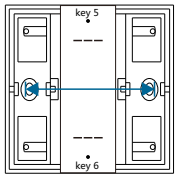


Figure 12. Dimensional Drawing -Sideview



mounting aperture:60mm

Figure 13.Installation hole position diagram

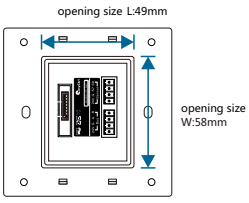


Figure 14. Opening size diagram

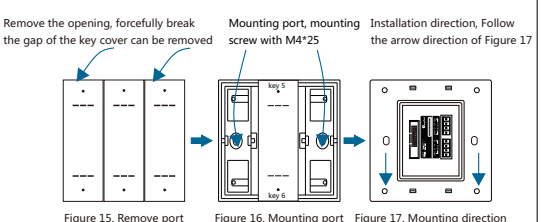


Figure 15. Remove port

Figure 16. Mounting port

Figure 17. Mounting direction

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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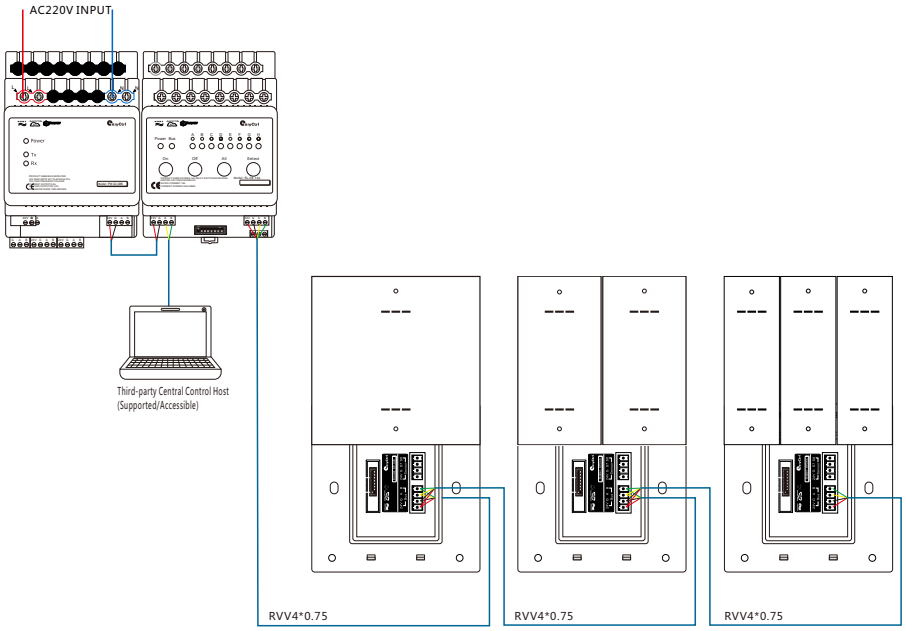
This manual may be changed or updated without prior notice.

Technical Parameters

Basic Parameters	
Operating Voltage	24VDC±5%
Rated Power Consumption	YC.KP.02C ≤0.4W YC.KP.04C ≤0.5W YC.KP.06C ≤0.5W
Proximity Induction	induction interface *1
Number Of Keys	two/four/six keys
Key Category	reset touch key
Bus Interface	bus Interface*1
Sensing Interface	sensing interface*3
Protection	IP20
External Environment	
Operating Temperature	0℃~45℃
Operating Relative Humidity	≤90%
Storage Temperature	-20℃~60℃
Storage Relative Humidity	≤93%
Product Specifications	
Dimensions (L*W*H)	86mm*86mm*28mm
Net Weight	≤74gpcs
Enclosure Material	plastic
Installation Method	standard 86 bottom box mounting (see Figure 15-17)
Opening Size (L * W)	49mm*58mm , bottom box depth is greater than 40mm(see Figure 13-14)

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