

Parameters

Electrical Parameters:

Working voltage	15~30V DC
Static power consumption	26mA/24V DC
Dynamic power consumption	100mA/24V DC
Channel control	6CH/5A/220V AC Common relay (CH1~4、CH6~7)
	2CH/10A/220V AC Common relay (CH5、CH8)
	2CH/0.5A MOS tube dimming (CH9~10)
MOS tube voltage input	110VAC/220VAC
MOS tube dimming mode	Trailing edge
MOS tube dimming curves	Linear

Environmental Conditions:

Working Temperature	-5°C~45°C
Working Relative Humidity	Up to 90%
Storage Temperature	-20°C~+60°C
Storage Relative Humidity	Up to 93%

Approved

CE

RoHS

Product Information:

Dimensions	72×90×66 (mm)
Net weight	417.5(g)
Housing Material	Nylon, PC
Installation	35mm DIN rail installation
Protection rating	IP20
Installation position	Distribution box (DB)

Inner Bus Cable Guide

INNER BUS	HDL Bus/KNX	CAT5/CAT5E
24V DC	Black	Brown White/Orange White
COM	White	Blue White/Green White
DATA-	Yellow	Blue/Green
DATA+	Red	Brown/Orange

Installation Steps

- 35mm DIN rail installation, inside DB box.
- Label all cables, check and ensure there is no short circuits for the load devices.
- Connect load devices and Inner Bus cables, and ensure they are correctly connected.
- Tidy up the cables, separate the high and low voltage cables.

Overview



HDL-MHMIX10.231 10CH Mix Controller is a multifunction control module. It supports relay control output and MOS tube dimming output. In conjunction with the HDL hotel management control system, the mix controller can control hotel rooms, home appliances, lights (including incandescent light, dimmable LED light, low-voltage halogen light, etc.) and curtains.

Functions

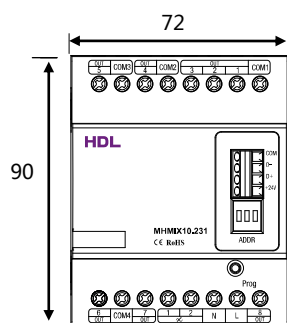
- The mix controller has 8 common relay channels and 2 MOS tube dimming channels
- The Common relay can control the switch of the connected channels.
- The MOS tube dimming channels can control lights (including incandescent light, dimmable LED light, low-voltage halogen light, etc.) for trailing dimming.
- The MOS tube dimming channels supports short circuit and over heat protection.
- The ID address of the mix controller can be configured easily via dial code control, it also can be freely configured via HDL hotel management software.
- Inner Bus communication is adopted. In conjunction with the HDL hotel management control system, the dimming module works in some more complicated scenes as a channel expansion module of HDL hotel host.

Important Notes

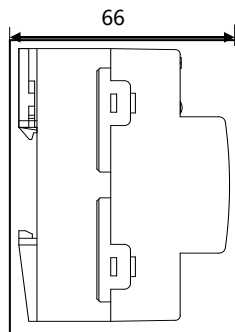
- Inner Bus cable - CAT5E, HDL Bus/KNX cable and 0.8mm single-core copper wire;
- Inner Bus connection - Series connection (hand-in-hand);
- Check and ensure all connections are correct after installation;
- The current of each channel must not exceed the specific current ;
- Load types - Incandescent lamp, halogen lamp, low-voltage halogen lamp, LED lamp etc;
- The trailing dimming mode is not allowed to be used when the inductive load is connected;
- The dimming environment should not exceed 50°C;
- Each channel needs to connect breaker or fuse for protection.



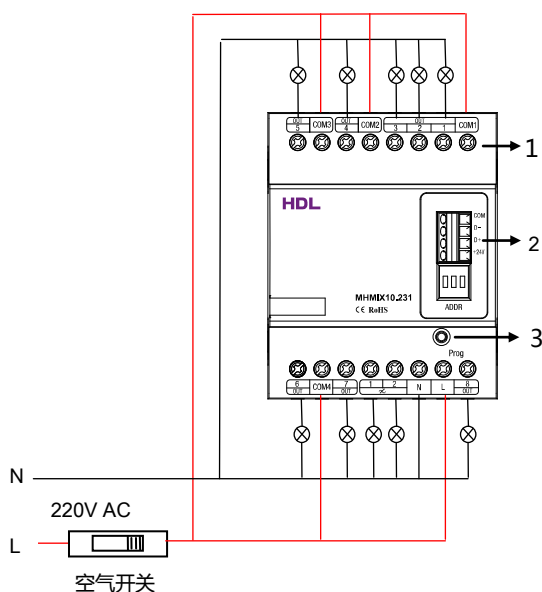
Dimensions and Wiring (Unit: mm)



Front View



Side view



1. The channel connected to load devices
2. INNER Bus: HDL Inner Bus, connected to the hotel host controller.
Dial code 000: The original address of each channel is configured by software.
Dial code 001: The channel address is 1;
Dial code 010: The channel address is 11;
Dial code 011: The channel address is 21;
Dial code 100: The channel address is 31;
Dial code 101: The channel address is 41;
Dial code 110: The channel address is 41;
Dial code 111: The channel address is 41.
3. Programming button & indicator : The indicator flickers, when the relay module runs normally. Press the programming button for 1 second, the indicator turns red, then the channel original address can be read and configured via the hotel management software.

Note : The HDL-MHMIX10.231 10CH Mix Controller shall be used in conjunction with the hotel room host controller.

Safety Precautions



- Each channel needs to connect breaker or fuse for protection.
- The tightening torque should not exceed 0.4Nm.
- The input power cable should be 2.5mm² ~4mm².
- The load cable should be 1.5mm² ~2.5mm².
- Installation position-inside DB box.
- Ensure make correct connection to Inner Bus interface, or it will damage the Inner Bus interface of this device.
- Do not connect AC power to Inner Bus wire, or it will damage all devices in the system.
- Avoid contact with liquids and aggressive gases.
- Ensure good ventilation.

Packing Contents

- | | |
|-------------|----|
| ■ Datasheet | ×1 |
| ■ Device | ×1 |

