

Parameters

Electrical Parameters:	
Working voltage	DC15~30V
Static power consumption	23mA/DC24V
Dynamic power consumption	75mA/DC24V
Input channel	2CH mains supply input 2CH emergency supply input
Output channel	5 channels
Relay	2CH/10A magnetic latching relay 1CH/5A TV8 relay
Electronic life time of relay	>60000 (Resistance Load)
Protection	Connect a breaker in each channel
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
DC24V	Black	Brown White/Orange White
COM	White	Blue White/Green White
DATA-	Yellow	Blue/Green
DATA+	Red	Brown/Orange

Important Notes

- Communication: Inner Bus communication;
- 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 ;
- Each channel needs to connect to a breaker or fuse for protection.

Overview



The HDL-MHR05L.231 5CH Relay Module (with Emergency Function) is a multifunction control module. It supports relay control output and emergency output. It also can control air conditioners, curtains etc. via modifying the configuration of software and program.

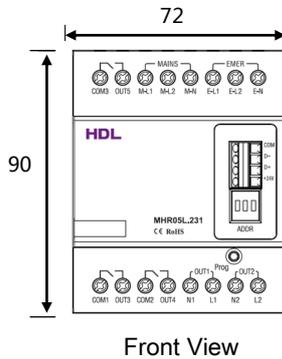
Functions

- The relay module ID supports hardware identification, and adopts dial code control;
- COM1, OUT3 and COM3, OUT5 are 2CH magnetic latching relay; COM2 and OUT4 is a TV8 relay channel , E-L1、 E-L2 and E-N are 2CH emergency supply input; M-L1, M-L2 and M-N are 2CH mains supply input; L1、 N1 and L2、 N2 are output channels;
- The relay module has 2 relay channels with emergency function and 3 universal relay control channels;
- It also can control air conditioners, curtains etc. via modifying the configuration of software and program;
- The relay module can be extended to several module groups and used in some more sophisticated scenes;
- Inner Bus communication is adopted.

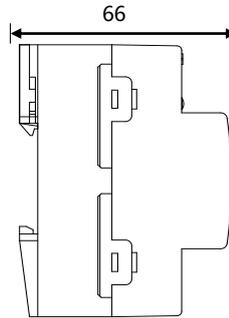
Installation Steps

- 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.

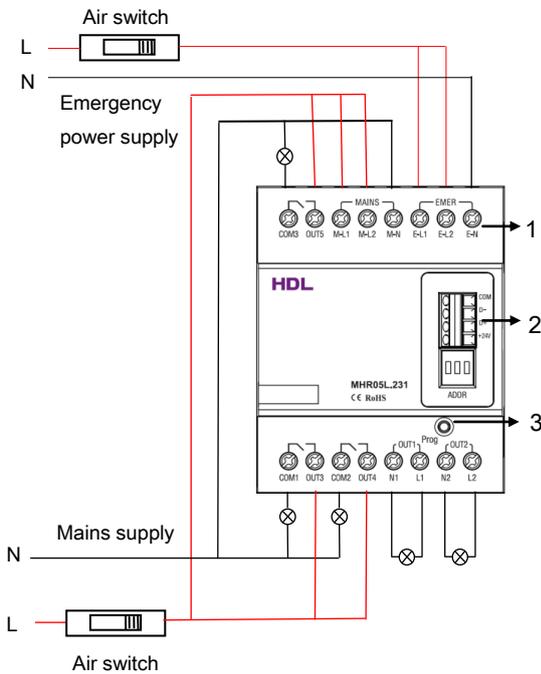
Dimensions and Wirings (Unit: mm)



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 6;
Dial code 011: The channel address is 11;
Dial code 100: The channel address is 16;
Dial code 101: The channel address is 21;
Dial code 110: The channel address is 26;
Dial code 111: The channel address is 31.
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-MHR05L.231 5CH Relay Module (with Emergency Function) shall be used 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.
- Ensure make correct connection to Inner Bus interface, or it will damage the Inner Bus interface of this device.
- Never let the liquids get into the module, or it will damage 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 |

Contact Us

Need help or advice? Please visit www.hdlautomation.com, or Contact us via: support@hdlchina.com.cn.