

Hotel 8CH Relay Module

Datasheet



HDL-MHR8.231



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Before using this product, please read this datasheet carefully and keep it properly!

Document Version: C

◆◆ Overview

Hotel 8CH Relay Module is a multi-function control module which supports control output of relay switch. In conjunction with HDL Hotel Room Management System, the module can control hotel rooms, home appliances, lights and curtains, etc.

Key functions:

- 8 relay channels.
- The relay channel can control the switch of connected devices.
- The ID address of the module can be configured easily via dial code control, or via HDL Buspro Setup Tool/(previous) HDL Hotel Room Management System for detailed configuration.
- Inner Buspro communication is adopted. In conjunction with HDL Hotel Room Management System, the module can work in some more complicated scenes as a channel expansion module of HDL hotel host.

◆◆ Appearance

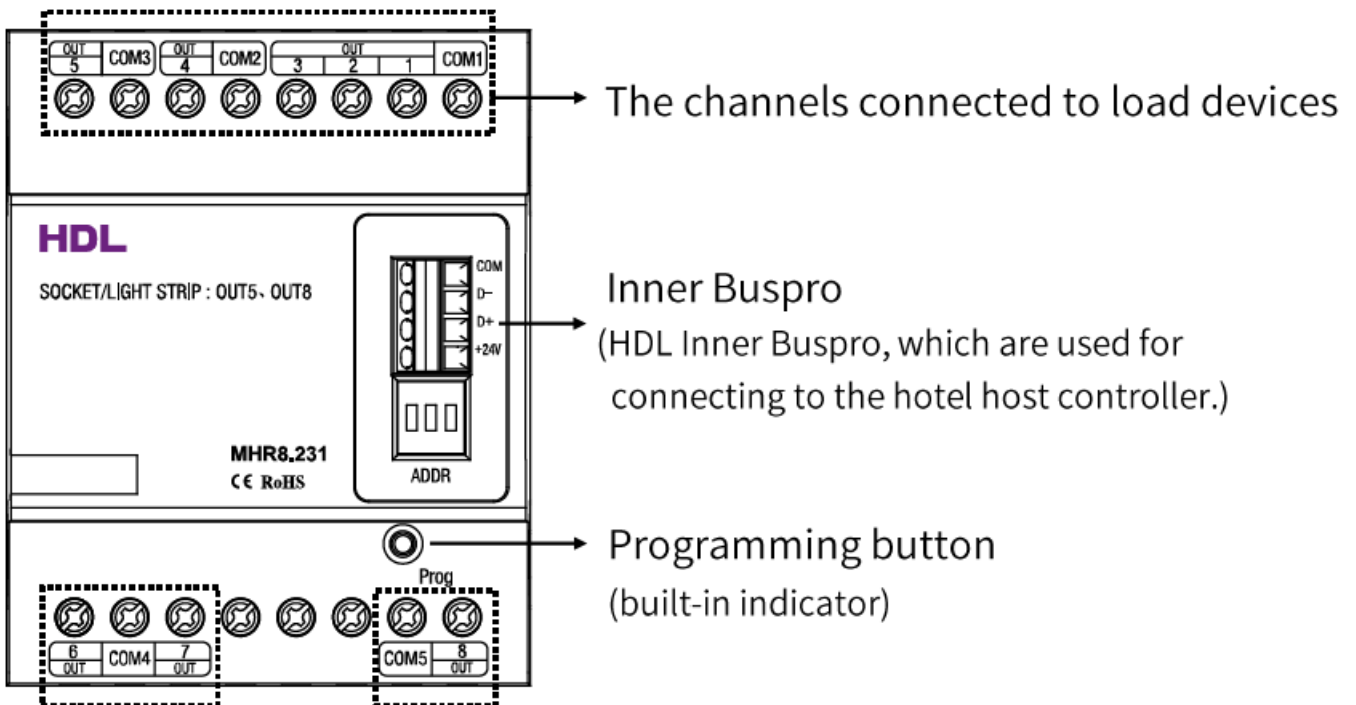


Figure 1

◆◆ Technical Data

Item	Parameter
Rated voltage	24V DC
Rated current	100mA/24V DC
Input voltage	100-240V AC 50/60Hz
Output channel	6CH, 5A/CH, relay channels (CH1~4, CH6~7) 2CH, 10A/CH, relay channels (CH5, CH8)
Communication protocol	HDL Buspro
Working temperature	-5°C~45°C
Working relative humidity	≤90%RH, non-condensed
Storage temperature	-20°C~60°C
Storage relative humidity	≤93%RH

◆◆ Specifications

Item	Parameter
Dimensions	72×90×64(mm)
Net weight	237g
Housing material	Nylon
Installation	DIN rail installation
Protection rating (Compliant with EN 60529)	IP20
Approved	CE, RoHS

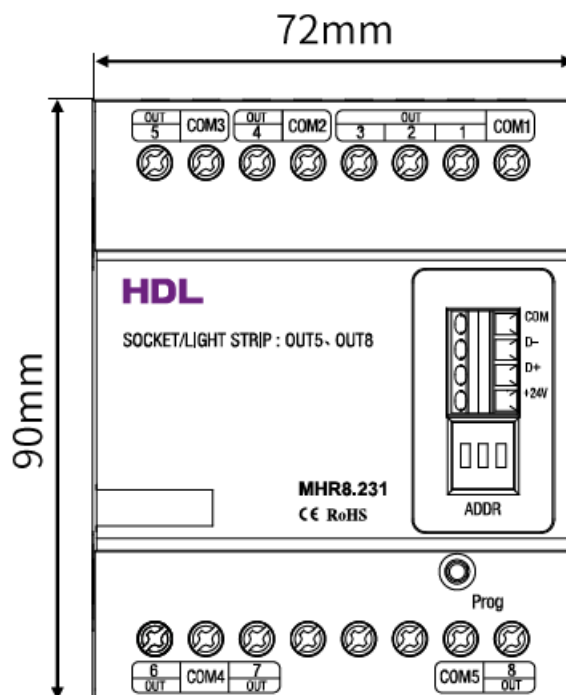


Figure 2

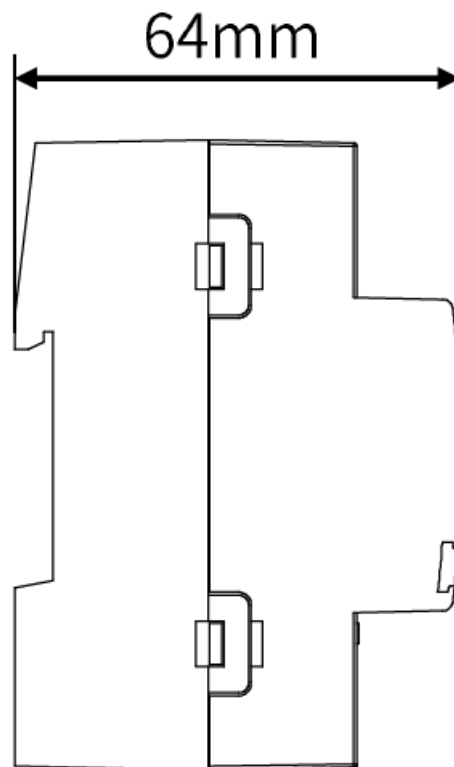


Figure 3

◆◆ Safety Precaution

- The installation and commissioning of the device must be carried out by HDL or the organization designated by HDL. For planning and construction of electric installations, the relevant guidelines, regulations and standards of the respective country are to be considered.
- The device should be installed in distribution box with din rail. HDL takes no responsibility for all consequences caused by installation and wire connection which are not in accordance with this document.
- Please do not privately disassemble the device or change components, otherwise it may cause mechanical failure, electric shock, fire or body injury.
- Please resort to our customer service department or designated agencies for maintenance service. The warranty is not applicable for the product fault caused by private disassembly.
- Inner Buspro cable - CAT5E or dedicated HDL Buspro cable.
- Inner Buspro connection - Series connection (hand-in-hand recommended)
- Check and ensure all connections are correct after installation.
- Output channel - The current of each channel must not exceed the rated current.
- Load types - Incandescent lamp, halogen lamp, low-voltage halogen lamp, LED lamp, etc.
- Each channel needs to connect to a breaker or fuse for protection.

◆◆ Wiring

Warning: Prior to performing wiring on the device, disconnect the device from all voltage sources.

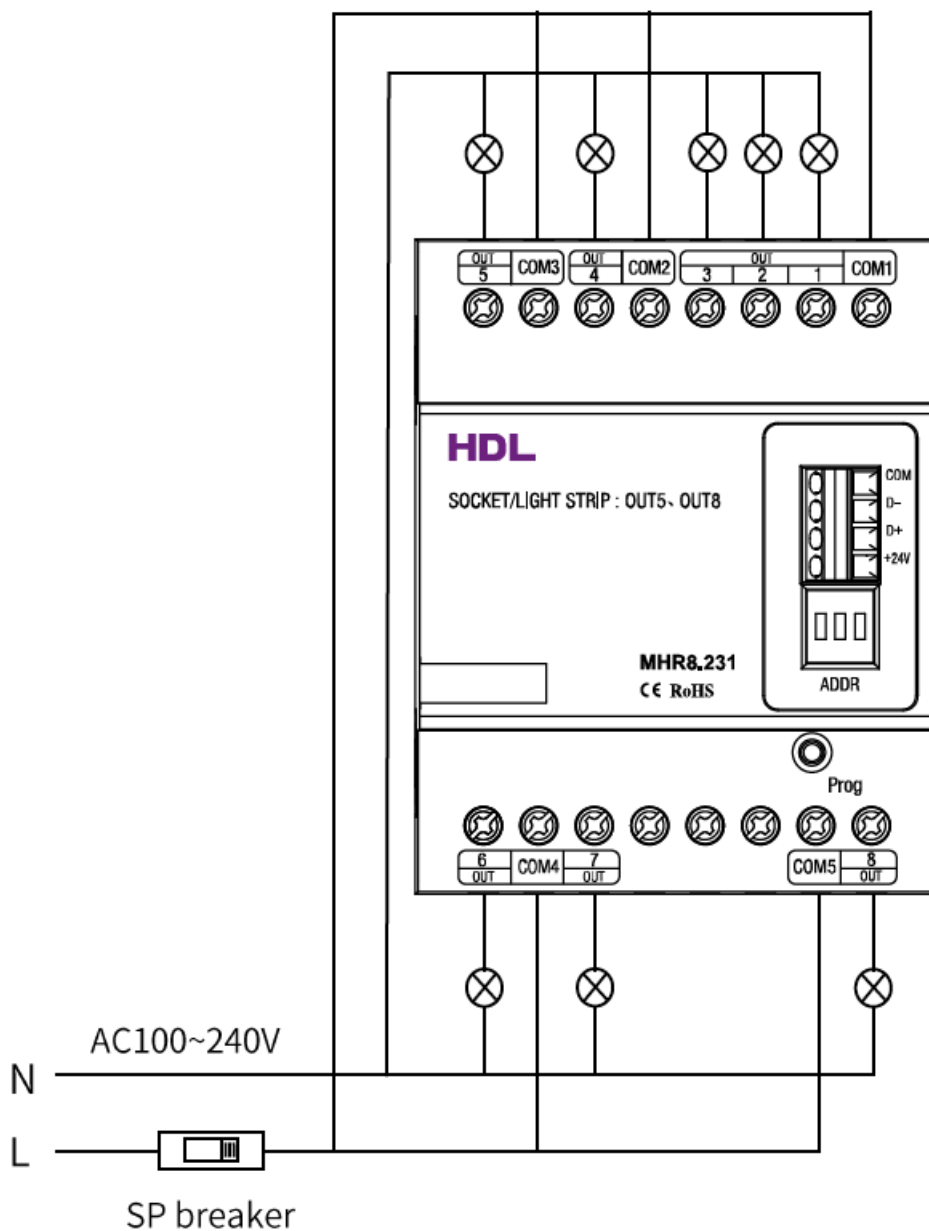


Figure 4

◆◆ Installation

Warning: Prior to performing installation on the device, disconnect the device from all voltage sources.

Step 1. Fix the DIN rail with screws.



Figure 5

Step 2. Buckle the bottom cap of the device on the edge of the DIN rail.

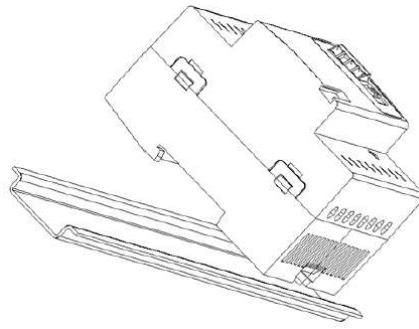


Figure 6

Step 3. Press the device on the DIN rail, slide it and fix it up until an appropriate position is adjusted.

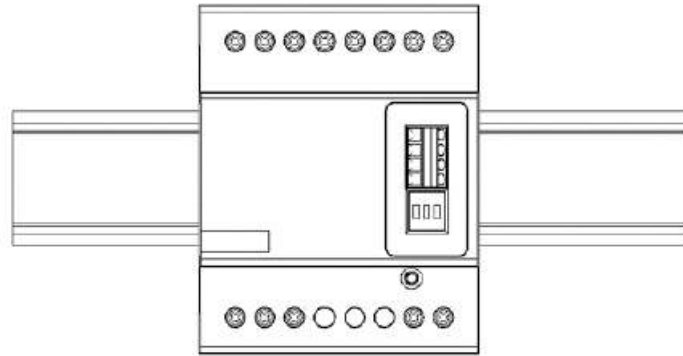


Figure 7

◆◆ Operation

Note: The device should be connected with HDL Hotel Room Management System.

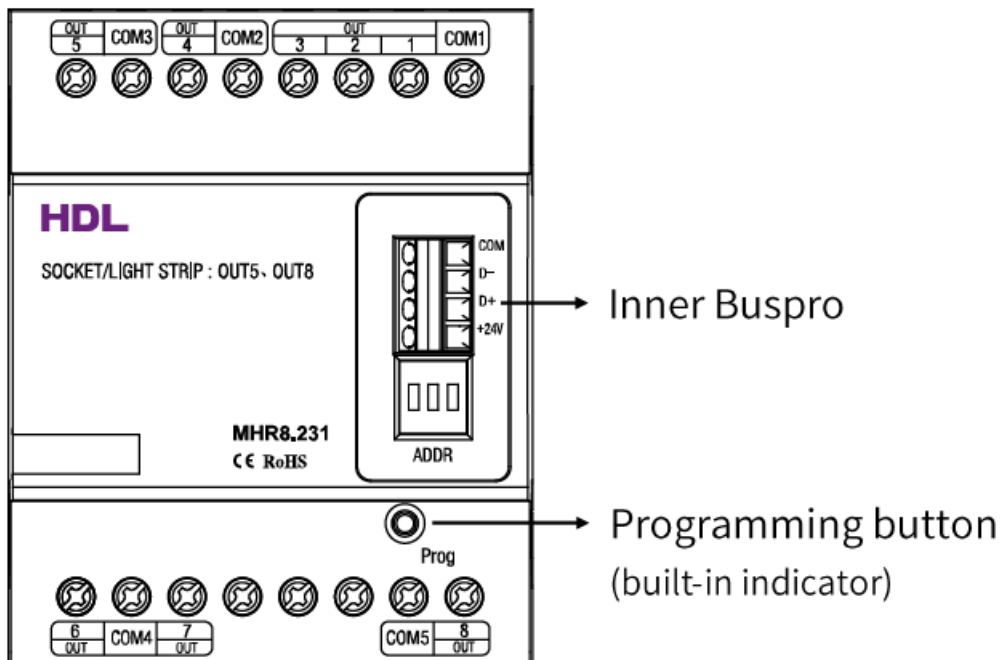


Figure 8

•Inner Buspro

Dial Code	Device Status
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000	The original address of each channel is configured by software.
001	The channel address is 1.
010	The channel address is 11.
011	The channel address is 21.
100	The channel address is 31.
101	The channel address is 41.
110	The channel address is 41.
111	The channel address is 41.

•Programming button (built-in indicator)

Operation	Device Status
/	When the device runs normally, the indicator flashes green.
When the device runs normally, press the programming button for 1s.	The indicator turns red, then the original channel address can be read and modified via HDL Hotel Room Management System.

◆◆ Packing List

- Hotel 8CH Relay Module*1
- Module label*5
- PET label*2

Note: After unpacking, please check if the product and the parts are complete.

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Update History

The form below contains the information of every update. The latest version contains all the updates of all former versions.

Version	Update Information	Date
V1.0	Initial release	March 12, 2026

◆◆ Technical Support

E-mail: hdltickets@hdlautomation.com

Website: <https://www.hdlautomation.com>