

HDL-MHR05L.231

5CH High Power Switch Actuator (with Emergency Function)



Datasheet

Issued: April 17, 2019 Edition V1.0.0



Figure 1. 5CH High Power Switch Actuator (with Emergency Function)

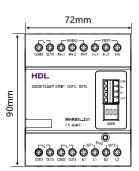


Figure 2. Dimensions - Front View

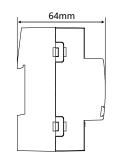
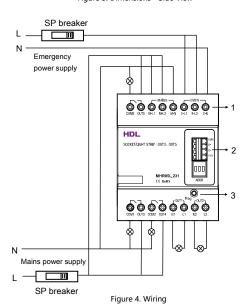


Figure 3. Dimensions - Side View



Overview

5CH High Power Switch Actuator (with Emergency Function) (See Figure 1) is a multifunction relay with emergency function. It has 2 emergency relay channels and 3 relay channels. The emergency relay channel supports connecting emergency power supply automatically, and providing power to emergency relay channels when the mains power is cut off. The relay channel has relay switch control function. In conjunction with HDL Hotel Room Management System, the relay module can control lights, air conditioners, curtains and plugs etc.

Functions

- The relay module has 2 emergency relay channels and 3 relay channels.
- Emergency relay channels: When the module works with mains, the loads can be connected to output terminals to control the relay switch. When the mains is cut off, the output terminals will directly connect to the emergency power supply to achieve the emergency lighting function.
- The relay channels can directly connect to channels to control the switch.
- The ID address of the dimming module can be configured easily via dial code control, it also can be freely configured via HDL Buspro Setup Tool/ (previous) HDL Hotel Room Management System.
- Inner Buspro communication is adopted. In conjunction with HDL Hotel Room Management System, the dimming module can work in some more complicated scenes as a channel expansion module of HDL hotel host.

Important Notes

- Communication: Inner Buspro communication.
- Inner Buspro connection Series connection (hand-in-hand recommended)
- Check and ensure all connections are correct after installation.
- Output power Each emergency relay channel needs to connect to a breaker or fuse for protection as it is not with short circuit protection function.
- The current of each channel must not exceed the rated current.

Product Information

Dimensions - See Figure 2 - 3

Wiring - See Figure 4

- 1. The channel connected to load devices
- 2. Inner Buspro: HDL Inner Buspro, 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 HDL Buspro Setup Tool/ (previous) HDL Hotel Room Management System.

Note : 5CH High Power Switch Actuator (with Emergency Function) shall be used with Hotel Room Control Host.

Installation - See Figure 5 - 7

Step 1. Fix the DIN rail with screws.

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

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

Safety Precautions

- 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 with DIN rail in DB box. HDL does not take responsibility for all the consequences caused by installation and wire connection that 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.

Package Contents

HDL-MHR05L.231*1 / Label*5 / Datasheet*1

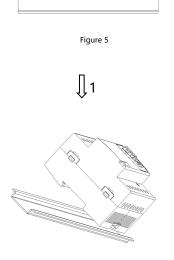


Figure 6

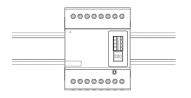


Figure 7

Figure 5 – 7. Installation

Technical support

E-mail: support@hdlautomation.com Website: https://www.hdlautomation.com

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Technical Data

Basic Parameters		
Working voltage	15~30V DC	
Working current	75mA/24V DC	
	2CH/10A (AC100-240V 50/60Hz)	
Output channel	Relay (CH3, CH5)	
	1CH/5A (AC100-240V 50/60Hz)	
	Relay (CH4)	
Emergency channel	2CH/5A (AC220V 50Hz)	
	Emergency relay (CH1~2)	
Electronic life time of relay	>60000 (Resistance Load)	
Protection	Connect a breaker in each	
FILECTION	channel	
External Environment		
Working temperature	-5°C~45°C	
Working relative humidity	≤90%	
Storage temperature	-20°C~60°C	
Storage relative humidity	≤93%	
Specifications		
Dimensions	72mm×90mm×64mm	
Net weight	418g	
Housing material	Nylon, PC	
Installation	35mm DIN rail installation	
Installation	(See Figure 5 - 7)	
Protection rating (Compliant with EN 60529)	IP20	

Name and Content of Hazardous Substances in Products

	Hazardous substances					
Components	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Chromium VI (Cr (VI))	Poly-brominated biphenyls (PBB)	Poly-brominated diphenyl ethers (PBDE)
Plastic	0	o	o	0	o	o
Hardware	0	o	0	0	-	-
Screw	0	o	0	×	-	-
Solder	×	ο	o	0	-	-
РСВ	×	ο	o	0	0	0
IC	0	o	0	0	×	×

The symbol "-" indicates that the hazardous substance is not contained.

The symbol "o" indicates that the content of the hazardous substances in all the homogeneous materials of the component is below the limit requirement specified in the Standard IEC62321-2015.

The symbol "x" indicates that the content of the hazardous substance in at least one of the homogeneous materials of the part exceeds the limit requirement specified in the Standard IEC62321-2015.

Inner Buspro Cable Guide

Inner Buspro	HDL Buspro Cable	CAT5/CAT5E
DATA+	Yellow	Blue/Green
DATA-	White	Blue white/Green white
СОМ	Black	Brown white/Orange white
24V DC	Red	Brown/Orange