

HDL-MHRCU.433

HDL Bus Enable RCU Mix Control Actuator

buspro

Datasheet

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Edition V1.0.0



Figure 1. HDL Bus Enable RCU Mix Control Actuator

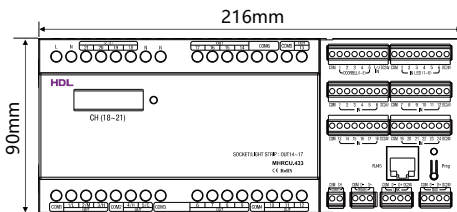


Figure 2. Dimensions - Front View

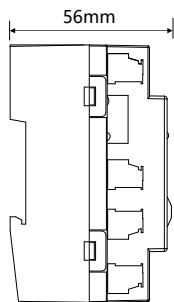


Figure 3. Dimensions - Side View

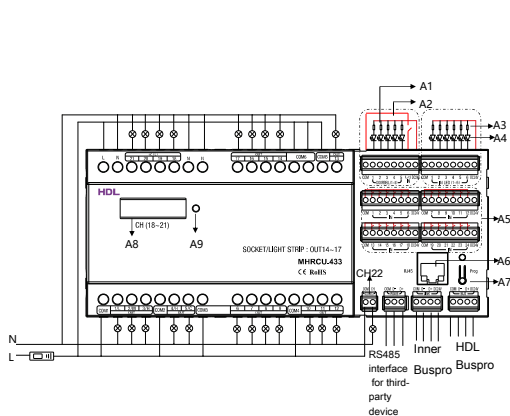


Figure 4. Wiring

Overview

HDL Bus Enable RCU Mix Control Actuator (See Figure 1) has the functions of gateway, mix controller, dry contact, and LED output. Hotel room mix module has 22 channel outputs, 24-channel dry contacts and 12-channel LED outputs.

Functions

Mix control functions

- It supports 12 scenes.
- Channel 1 to 13 are relay outputs, and each channel outputs 5A current. The load types are incandescent lamp, halogen lamp, low voltage halogen lamp.
- Channel 14 to 17 are relay outputs, and each channel outputs 10A current. The load types are incandescent lamp, halogen lamp, low voltage halogen lamp.
- Channel 18 to 21 are dimming outputs, each channel outputs 0.8A current. It has short circuit protection with replaceable fuse. If the channel is short circuit or the fuse is wrong, the fuse indicator will flash.
- Channel 22 is 1A relay output channel.

Dry contract

- 24-channel dry contact inputs.

Door bell function

- 5-channel LED outputs. (It can connect to the third-party door bell panel.)

LED output function

- 6-channel switch indicator outputs.

Important Notes

- Buspro cable - CAT5E or dedicated HDL Buspro cable.
- The fuse must be aR type.
- Device must be powered off when replacing fuse.

Product Information

Dimensions - See Figure 2 - 3

Wiring - See Figure 4

A1: LED indicators of 5CH doorbell

A2: Doorbell control

A3: Resistor of 1kΩ - 5kΩ recommended, which depends on the working voltage of the LED lamp.

A4: 6CH dry contact LED display. When the dry contact closes, the LED will be on, otherwise, keeps off.

A5: 24CH dry contacts

A6: RJ45 port

A7: Button and Indicator: The indicator flickers in green when the module is working properly. Keep pressing for 2s to read and set the start channel, when the indicator turns red. Keep pressing for 10s, it will turn red, the module will be reset to factory setting.

Default setting parameters:

IP: 192.168.10.250

Router IP: 192.168.10.1

Port: 6006

The network segment of the module should be same as the PC.

A8: Fuse socket

A9: Indicator of fuse

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-MHRCU.433*1 / Label*5 / Datasheet*1



Figure 5

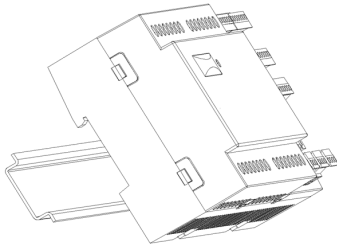


Figure 6

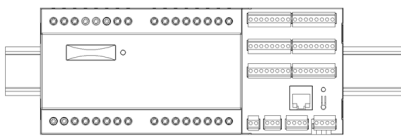


Figure 7

Figure 5 – 7. Installation

Technical Data

Basic Parameters

Working voltage	20~30V DC
Working current	300mA/24V DC
Input voltage	AC100-240V(50/60Hz)
Communication interface	HDL Buspro, RJ45
RJ45 interface	UDP/IP network interface
TRIAC	16A TRIAC, minimum load is 30W
Cable diameter of Buspro terminal	0.6-0.8mm
Relay output	5A/10A

External Environment

Working temperature	-5°C~45°C
Working relative humidity	≤90%
Storage temperature	-20°C~60°C
Storage relative humidity	≤93%

Specifications

Dimensions	216mm×90mm×56mm
Net weight	725g
Housing material	Nylon
Installation	35mm DIN rail installation (See Figure 5 - 7)
Protection rating (Compliant with EN 60529)	IP20

Name and Content of Hazardous Substances in Products

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

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.

HDL Buspro Cable Guide

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

Technical support

E-mail: support@hdlautomation.com

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

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