

Parameters

| Electrical Parameters: | |
|-------------------------------|-----------------------------------|
| Working power | DC15~30V |
| Static power consumption | 15mA/DC24V |
| Dynamic power consumption | 40mA/DC24V |
| Output channel | 12CH/10A |
| Relay | 16A Magnetic latching relay |
| Max current in each channel | 10A |
| 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 | 216×90×66 (mm) |
| Weight | 645.5(g) |
| Housing material | Nylon, PC |
| Installation | 35mm DIN rail installation |
| Protection degree | IP20 |
| Installation position | Distribution box (DB) |

Installation Steps

- 35mm DIN rail installation, inside DB box.
- Mark up for each output connection cable.
- Connect the load and HDL Buspro cable.
- Check if there is any short circuit in output connection cable.
- Check the HDL Buspro connection, avoid any mistake.
- Isolate the high power and low power.
- Tighten the screw again for all of terminal.
- Recommended Load type and Power

| | |
|----------------------------|-----------------|
| Motors: | 1H (1HP=746W) |
| Incandescent lamp load: | 1600 W |
| Inductive transformer : | 1000 W |
| Electronic transformer: | 800 W |
| Halogen lamp 230 V | 1600 W |
| Mercury-vapour lamp | |
| * Uncompensated luminaire: | 1000 W |
| * Parallel compensated : | 800 W |
| Fluorescent lamp T5 / T8 | |
| * Uncompensated luminaire: | 1000 W |
| * Parallel compensated : | 800 W |
| * DUO lamp : | 800 W |
| Dulux lamp | |
| * Uncompensated luminaire: | 1000 W |
| *Parallel compensated : | 800 W |

Overview



HDL-MR1210.433 Intelligent Relay Module, has 16A magnetic launching relay inside, zero power consumption and high reliability. The communication interface is HDL Buspro Pro, which is based on RS485 protocol.

Functions

- 12-channel relay output unit.
- Scene controller function available.
- Up to 12 separate areas.
- Each area has 24 scenes with maximum running time of 60 minutes.
- Each channel has light protection delay (0-60 minutes).
- Each channel has batch turn-on delay (0-25 seconds).
- Each channel has manual control for relay unit
- You can select specified scene or scene before power off when the device restarts.
- Supports easy programming and HDL Buspro online upgrading.
- Communication: HDL Buspro.

Important Notes

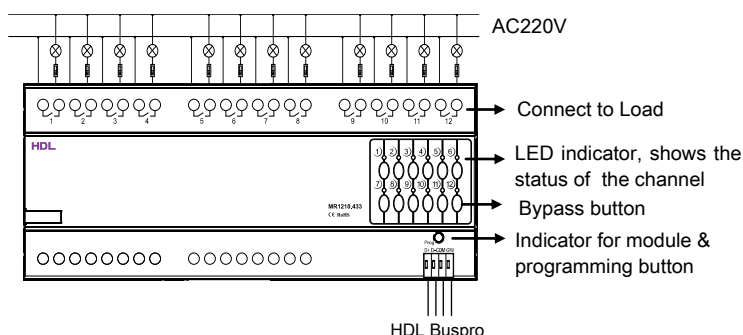
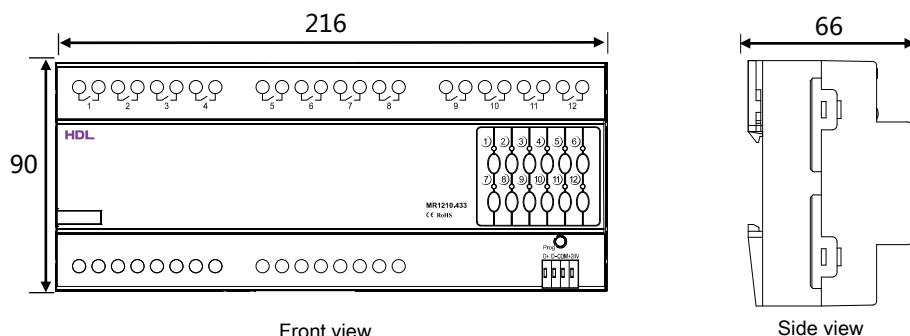
- Buspro cable - HDL Buspro/KNX cable, 0.8mm single-core copper cable.
- Buspro Connection - Series connection (hand –in-hand).
- Output channel - The following list is the recommended load for output channel. To protect the relay, please connect a 10A breaker for each channel.

HDL Buspro Cable Guide

| HDL Buspro | HDL Buspro/KNX |
|------------|----------------|
| DC24V | Red |
| COM | Black |
| DATA- | White |
| DATA+ | Yellow |



Dimensions and Wiring



Indicator for module: Flickers when the module is working properly. Keep pressing the indicator for 3 seconds, it will turn to red, then user can read and modify the address of the module in the HDL Buspro Pro setting software.

Steps for easy programming mode :

1. Press the programming button for about 10s, all output channel will be turned off automatically, the indicator will flicker fast
2. Now the panel shows "programming", then press Button 9, 10 of DLP switch together, the panel will display "external programming".
3. Keep pressing the indicator for 2s, it will change the load, short press the indicator will change the load's status.
Note: The programming channel is from channel 1 to channel 12, and then it will go back to the channel 1. If you want to set multiple channels, the panel must be set to "Combination mode".
4. Choose a button which is used to control the channel. Keep pressing the button, it will cover the original targets, short press the button, it will add the relay loads.
5. Keep pressing the Indicator for 10 seconds to finish the programming.

This function is to be used in conjunction with the new generation of DLP.

Safety Precautions



- The screw down torque should not exceed 0.4Nm.
- Connect a breaker or fuse with each channel.
- Current in each channel is less than 10A.
- Ensure good ventilation.
- Ensure that the Buspro interface is correctly connected to the module.
- Do not connect the module to AC power.
- Do not let the module come into contact with hazardous liquids or corrosive gases.

Package contents

- | | |
|-------------------------------------|----|
| ■ Datasheet | ×1 |
| ■ 10A Relay Module (HDL-MR1210.433) | ×1 |

