

## Parameters

Electrical Parameters:	
Working power	DC15~30V Class 2
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, UL,CQC	
Product Information:	
Dimensions	216×90×66 (mm)
Net weight	645.5(g)
Housing material	Nylon, PC
Installation	35mm DIN rail installation
Protection rating	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.
- Ratings for each output contacts:
  - 250V, 10A, Resistive, 100,000 cycles, 40°C;
  - 250V, 1HP (8FLA/48LRA), Motor, 6,000 cycles, 40°C;
  - 250V, 6A, Tungsten, 6,000 cycles, 40°C;
  - 250V, 6A, Standard Ballast, 6,000 cycles, 40°C;
  - 120V, 0.5HP (9.8FLA/58.8LRA), Motor, 20,000 cycles, 40°C;
  - 120V, 10A, Tungsten, 20,000 cycles, 40°C;
  - 120V, 10A, Electronic Ballast, 20,000 cycles, 40°C;
  - 120V, 10A, Standard Ballast, 6,000 cycles, 40°C;

## 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 HDL Buspro online upgrading.
- Communication: HDL Buspro.

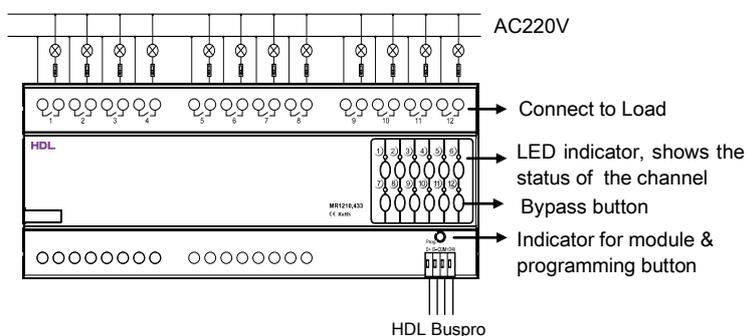
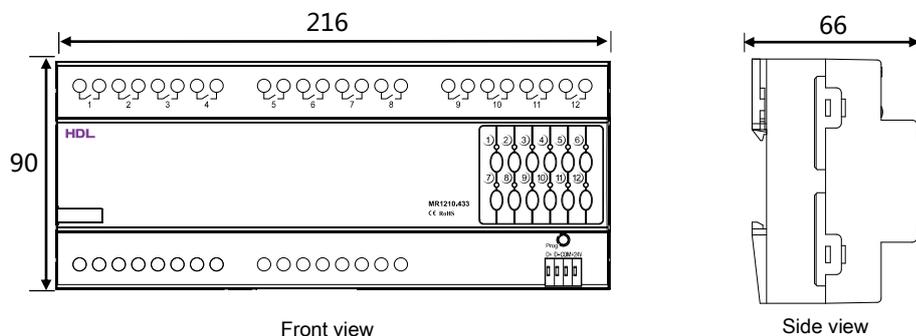
## Important Notes

- 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

CAT5/CAT5E	HDL Buspro	HDL Buspro/KNX
Brown/Orange	DC24V	Red
Brown white/Orange white	COM	Black
Blue white/Green white	DATA-	White
Blue/Green	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.

## Safety Precautions



- The screw down strength should not exceed 0.4Nm.
- Connect a breaker or fuse with each channel.
- Current in each channel is less than 10A.
- Do not make wrong connection on Buspro interface, it will damage the Buspro interface of this module.
- Never let liquids get into this module, it will damage this device.
- Do not get AC220V voltage into Buspro wire, it will damage all devices in the system.
- Ensure good ventilation.
- Avoid contact with liquids and aggressive gases.
- **CAUTION - Risk of Electric Shock - More than one disconnect switch may be required to de-energize the equipment before servicing**

## Package Contents

- Datasheet \*1 /Device\* 1/Bus terminal \*1

