

Parameters

Electrical Parameters:

Working power	DC15~30V Class 2
Static power consumption	10mA/DC24V
Dynamic power consumption	35mA/DC24V
Output channel	12CH/16A
Relay	50A Magnetic latching relay
Max current in each channel	16A
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	814.3(g)
Housing material	Nylon, PC
Installation	35mm DIN rail installation
Protection rating	IP20
Installation position	Distribution box (DB)

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 16A breaker for each channel.
- Ratings for each output contacts:
 - 240V, 16A, Resistive, 100,000 cycles, 40°C;
 - 240V, 16FLA/96LRA, Motor, 30,000 cycles, 40°C;
 - 240V, 16A, Tungsten, 30,000 cycles, 40°C;
 - 240V, 16A, Standard Ballast, 30,000 cycles, 40°C;
 - 240V, 16A, Electronic Ballast, 6,000 cycles, 40°C;
 - 120V, 16FLA/96LRA, Motor, 30,000 cycles, 40°C;
 - 120V, 16A, Tungsten, 30,000 cycles, 40°C;
 - 120V, 16A, Electronic Ballast, 6,000 cycles, 40°C;
 - 120V, 16A, Standard Ballast, 30,000 cycles, 40°C;

Overview



HDL-MR1216.433 Intelligent Relay Module, has 50A launching relay, 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 area has 2 sequences, each sequence has 12 steps.
- 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.

Installation Steps

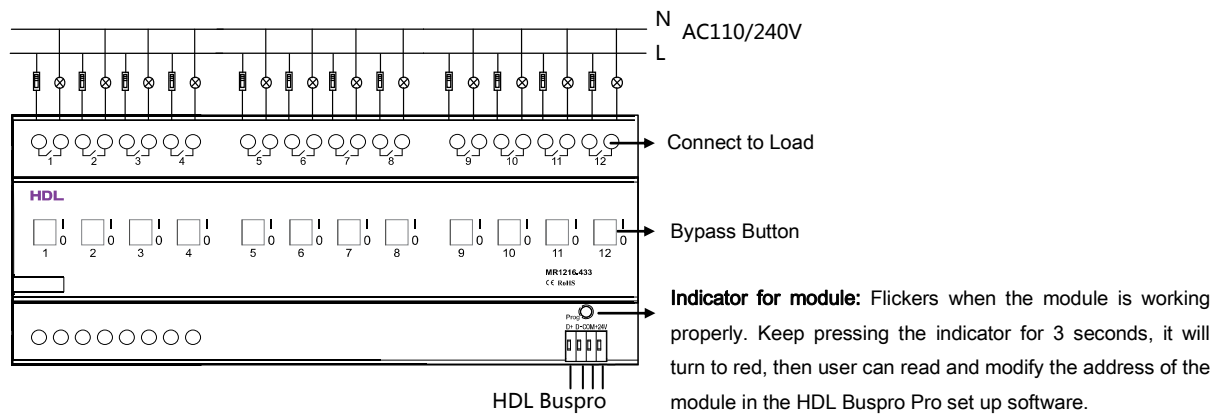
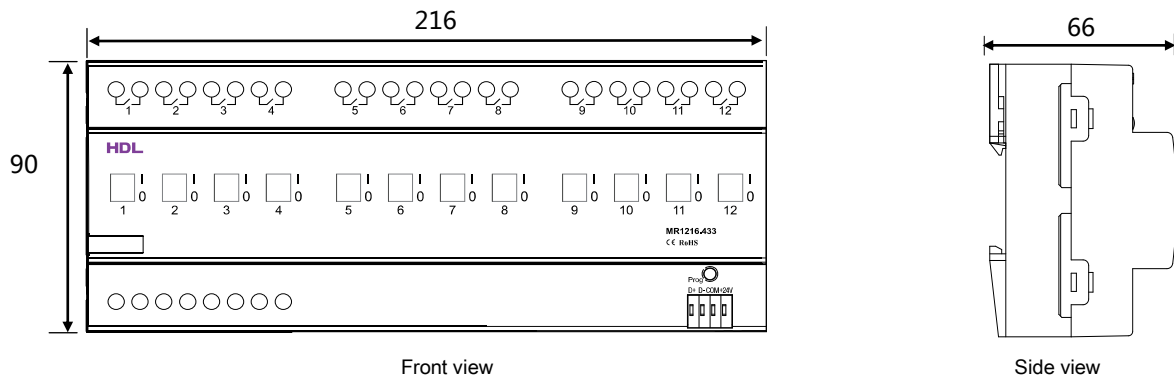
- 35mm DIN rail Installation, inside DB box.
- Mark up for each output connection cable.
- Connect the load and HDL Buspro cable.
- Check if there is any short circuit in output connection cable.
- Check the HDL Buspro connection, avoid any mistake.
- Isolate the high power and low power.
- Tighten the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

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



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 16A.
- Do not make wrong connection on Buspro interface, it will damage the Buspro interface of this module.
- Avoid the rain or water into module, it will damage this device.
- Do not get AC 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

