Features

HDL-MR0416.431 Intelligent Relay Module, has 50A launching relay inside, Zero power consumption and has a high reliability. The relay has HDL Bus Pro interface for communication, which is based on RS485 protocol. Itself has a scene controller, and also has Bypass manual control.

- 4 channel Relay output unit
- Scene controller function available
- Up to 4 separate area
- Each area has 8 scenes, maximum running time for scene is 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
- It is optional setting of choosing a designated scene or back to previous scene when power on again after power off
- Communication: HDL Bus

Important Notes

- Bus cable - HDL Bus/KNX Cable, 0.8mm Single Core Copper cable
- Bus Connection - Series connection (hand by 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.
- Recommended Load type and Power

  Motor: 4HP （1HP=746W）
  Incandescent Light: 3500W
  Inductive Transformer: 1800 W
  Electronic Transformer: 2000 W
  220V Halogen ：   3500 W
  Mercury Vapor Lamp
  *Non-compensation Light: 2800 W
  *Parallel compensation light: 2800 W
  Fluorescent Tube T5 / T8
  *Non-compensation Light   3500 W
  *Parallel compensation light: 2000 W
  *DUO Light series：   2000 W
  *Non-compensation Light: 1500 W
  *Parallel compensation light: 1500 W
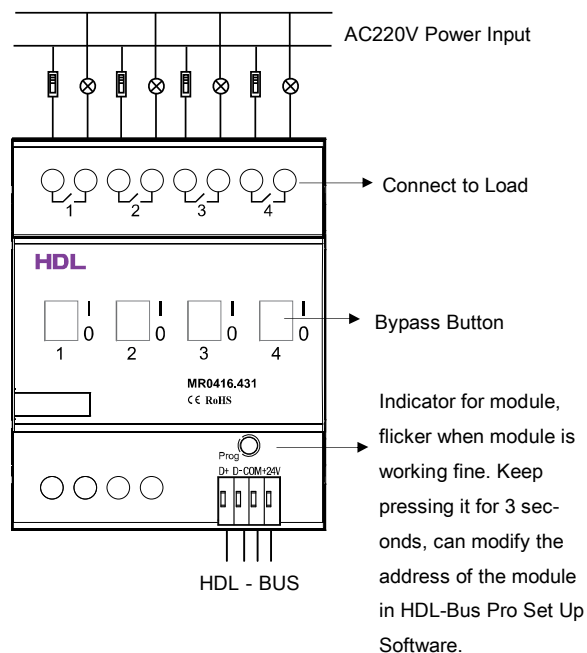
Installation Step

- 35mm Din Rail Installation, inside DB Box
- Make remark for each output connection cable
- Check if there is any short circuit in output connection cable
- Connect the load and HDL Bus cable
- Check the HDL BUS connection, avoid any mistake
- Isolate The high power and low power
- Tight the screw again for all of terminal

Product specification

- Working Voltage：DC24~30V
- BUS Power Consumption ：28mA@DC 24V
- Relay: 50A Magnetic latching relay
- Output channel：4CH/16A
- Max current in each channel：16A
- Electronic life time for relay： ＞60000 （Resistance Load）
- Protection：Connect a breaker in each channel
- Protection Degree: IP20

Type

HDL - MR0416.431

HDL-Bus Definition for Cable

HDL - BUS Pro	HDL - Bus/KNX Cable
COM	Black
DATA-	White
DATA+	Yellow
DC24V	Red

Safety Attention

- Screw down strength is less than 0.4Nm
- Connect a breaker or fuse into each channel
- Current in each channel is less than 16A
- Installation Position: Distribution Box (DB)
- Do not make wrong connection on Bus interface, it will damage the Bus interface this module
- Avoid the rain or water into module, it will damage this devices
- Do not get AC240V voltage into Bus wire , it will damage all of devices in system
- Assure a good ventilation circumstances
- Rain, liquid, and aggressive gas are not allowed to close to it

Product specification

- Working Temperature：0~45℃
- Working relative Humidity： 20%~90%
- Storage Temperature： -40℃~+55℃
- Storage relative Humidity： 10%~93%
- Dimension：72mm×90mm×66mm
- Certification: CE