

### Features

- The switch actuators can drive for 4, 8, 12 and 16 channels loads.
- The maximum 10A on every output channel. Also, it has manual buttons.
- The module functions: Statistical ON time, Status response, Status Recovery, Staircase light, Flashing, ON/OFF delay, Protection delay, Scene Control, Threshold Function, Curtain Control and so on.
- Logic function: AND, OR, XOR, Gate
- Heating function: PWM(1bit/1byte) control output

### Important Notes

- **Special programming** – This device is designed for professional KNX installation. It must be programmed by ETS software.
- **Check connections** – Re-tighten all connections after installation.
- **Output circuit** – The load on the switched circuits should not exceed the specified capacity of 10A, these circuits should be fed via a 10A fuse/circuit breaker.
- **Three phase connection** – this Relay module supports 3 phase input, channel 1,4,7 are L1. channel 2,5,8 are L2. channel 3,6 are L3
- **Recommend load type and watt (@240VAC) as below**

Motors:	4HP
Motor:	1HP ( 1HP=746W )
Incandescent Lamp:	1600W
Inductive Transformer:	1000 W
Electric Transformer:	800 W
230V Halogen Lamp :	1600 W
Mercury Vapor Lamp	
*No Compensation Lamp:	1000 W
*Parallel Compensation Lamp:	800 W
Fluorescent Lamp T5 / T8	
*No Compensation Lamp	1000 W
*Parallel Compensation Lamp:	800 W
*DUO Lamp Series :	800 W
*No Compensation Lamp:	1000 W
*Parallel Compensation Lamp:	800 W

### Installation Steps

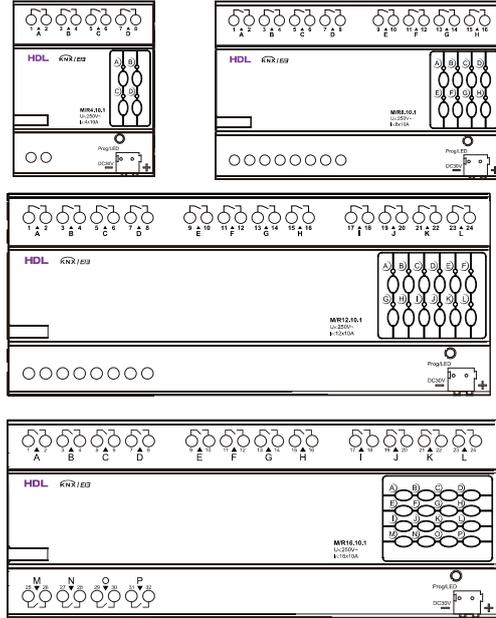
- Mount MCB for short circuit and overload protection on each channel
- Labeling for AC power wires, loads wires and KNX Bus wire
- Mount the device on a DIN rail of DB
- Connect wires for loads and AC power .
- Make sure there is no short or open circuit.
- Make sure the KNX cable type is correct and has no short circuit
- Connect bus cables. Make sure the wire color complies with the definition
- Tidy the all wire and separate bus wire from AC power wire

### Product Specifications

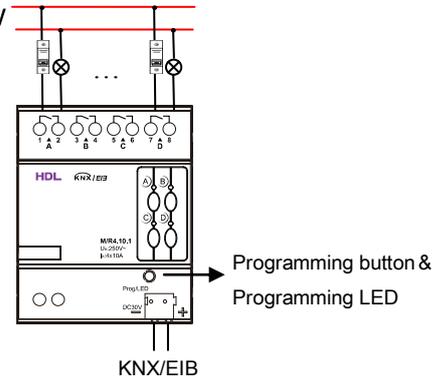
- **Working Voltage:** 21-30V DC
- **Communication:** KNX/EIB
- **Dynamic current** < 15mA
- **Outputs:** 4CH/10A,8CH/10A,12CH/10A,16CH/10A
- **Rated switch current:**10A lighting load, Max inrush 500A
- **Rated switching voltage:** 250V AC Supply
- **KNX Terminal:** KNX bus terminal – Wago 243 (Red /Grey) 0.6 – 0.8mm Diameter Single Core
- **Operation times:** >1000000
- **Capacity:** <300uF
- **Output Terminals:** Line in, Line out for each channel 2.5-4mm<sup>2</sup>
- **IP class:** IP20

### Types

M/R4.10.1 , M/R8.10.1 , M/R12.10.1 , M/R16.10.1



AC250V



**WARNING**

### Safety Attention

- Screw down strength should not exceed 0.4Nm
- Connect a breaker or fuse into each channel
- Current in each channel is less than 10A
- Installation position: Distribution Box (DB)
- Do not make wrong connection on Bus interface, it will damage the Bus interface of this module
- Do not get AC240V voltage into KNX/EIB Bus wire , it will damage all devices in the system
- Ensure good ventilation
- Avoid contact with liquid and aggressive gas

### Product Specifications

- **Housing Material:** Flame-retarded nylon
- **Working Temperature:** -5°C~45°C
- **Working Relative Humidity:** 10%~98%
- **Storage Temperature:** -40°C~55°C
- **Storage Relative Humidity :** 10%~98%
- **Dimensions:**
  - M/R4.10.1 H90mm x W72mm x D 66mm
  - M/R8.10.1 H90mm x W144mm x D 66mm
  - M/R12.10.1 H90mm x W216mm x D 66mm
  - M/R16.10.1 H90mm x W216mm x D 66mm