

### Features

- The switch actuators can drive for 4, 8, 12 and 16 channels loads.
- The maximum current in each current is 16 A. 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 16A, these circuits should be fed via a 16A 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:	3KW
Incandescent lamp load:	3500W
Inductive transformer :	1800 W
Electronic transformer:	2000 W
Halogen lamp 230 V :	3500 W
Uncompensated luminaire:	2800 W
Parallel compensated :	2800 W
Uncompensated luminaire:	3500 W
Parallel compensated :	2000 W
DUO lamp :	2000 W
Uncompensated luminaire :	1500 W
Parallel compensated :	1500 W

### Installation Steps

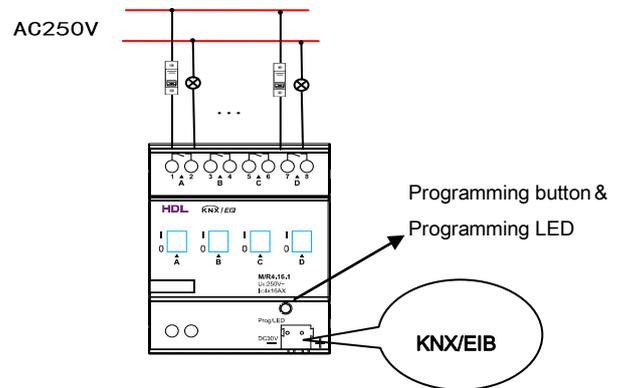
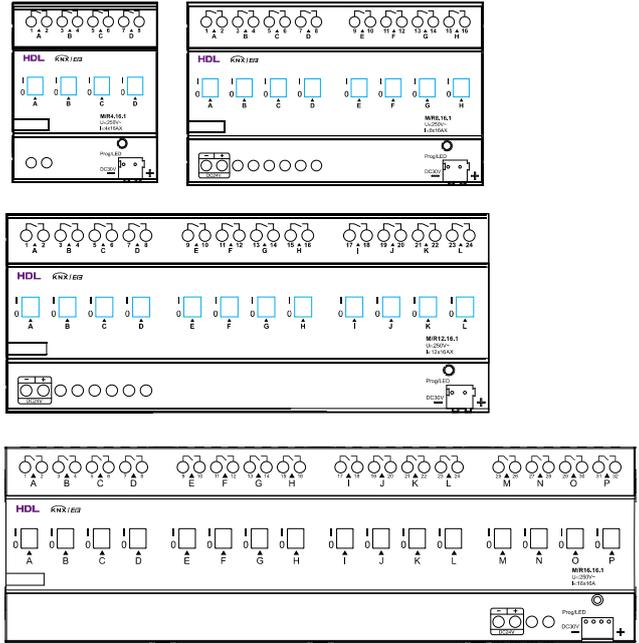
- Mount MCB for short circuit and overload protection on each channel.
- Labeling for AC power wires, loads wires and KNX Bus wire.
- Mount the device on a DIN rail of DB.
- Connect wires for loads and AC power.
- Make sure there is no short or open circuit.
- Make sure the KNX cable type is correct 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
- **DC Current**< 15mA
- **Outputs:** 4CH/16A, 8CH/16A, 12CH/16A, 16CH/16A
- **Rated switch current:** 16A lighting load, Max inrush 500A
- **Rated switching voltage:** 250V AC/440VAC supply
- **KNX Terminal:** KNX Bus Terminal – 0.6 – 0.8mm single-core copper cable
- **Operation times:** >100000
- **Capacity:** <300uF
- **Output Terminals:** Line in, Line out for each channel 2.5-4mm<sup>2</sup>
- **Compliance:** CE, KNX
- **Dimensions:**
  - M/R4.16.1 H90mm x W72mm x D 66mm
  - M/R8.16.1 H90mm x W144mm x D 66mm
  - M/R12.16.1 H90mm x W216mm x D 66mm
  - M/R12.16.1 H90mm x W288mm x D 66mm

### Types

M/R4.16.1, M/R8.16.1, M/R12.16.1, M/R16.16.1



### Safety Attention

- The screw down strength should not exceed 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 of this module
- Do not get AC voltage into KNX/EIB Bus wire, it will damage all devices in the system.
- Ensure good ventilation.
- Avoid contact with the liquids and aggressive gases.

### Product Specifications

- **Housing Material:** Flame-retarded nylon
- **Working Temperature :** -5°C~45°C
- **Working Relative Humidity :** Up to 90%
- **Storage Temperature :** -25°C~55°C
- **Storage Relative Humidity :** Up to 93%
- **IP class:** IP20