Parameters

Performance parameter

Working Voltage	21~30VDC
Communication	KNX/EIB
Dynamic current	< 15mA
KNX terminals	KNX Bus Terminal – (Red /Grey) 0.6 – 0.8mm Diameter Single Core
Rated switch voltage	250V AC Supply
Rated switch current	10A lighting load, Max inrush 500A
Operation times	>1000000
Output Terminals	Line In, Line Out for each channel 2.5-4mm²
Output Current	4CH/10A,8CH/10A,12CH/10A,16CH/10A
capacity	<300μF

Environmental Condition

Working temperature	-5℃~45℃
Working relative Humidity	10%to 98%
Storage temperature	-40℃~+55℃
Storage relative humidity	10% to 98%

Approve

CE
KNX

Product information

Dimension	H90mm x W72mm x D 66mm(M/R4.10.1)
	H90mm x W144mm x D 66mm(M/R8.10.1)
	H90mm x W216mm x D 66mm(M/R12.10.1)
	H90mm x W216mm x D 66mm(M/R16.10.1)
Housing material	Flame-retarded nylon
IP class	IP 20

Safety attention ⚠ WARNING

- Screw down strength is less than 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 this module
- Do not get AC240V voltage into KNX/EIB 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

Overview

HDL/KNX-EIB BUS relay series products are fully compliant with European safety standards and protocols for High-power switching KNX equipment, internal use of 16A High-current magnetic relay, zero power consumption and long life are some of the key features.
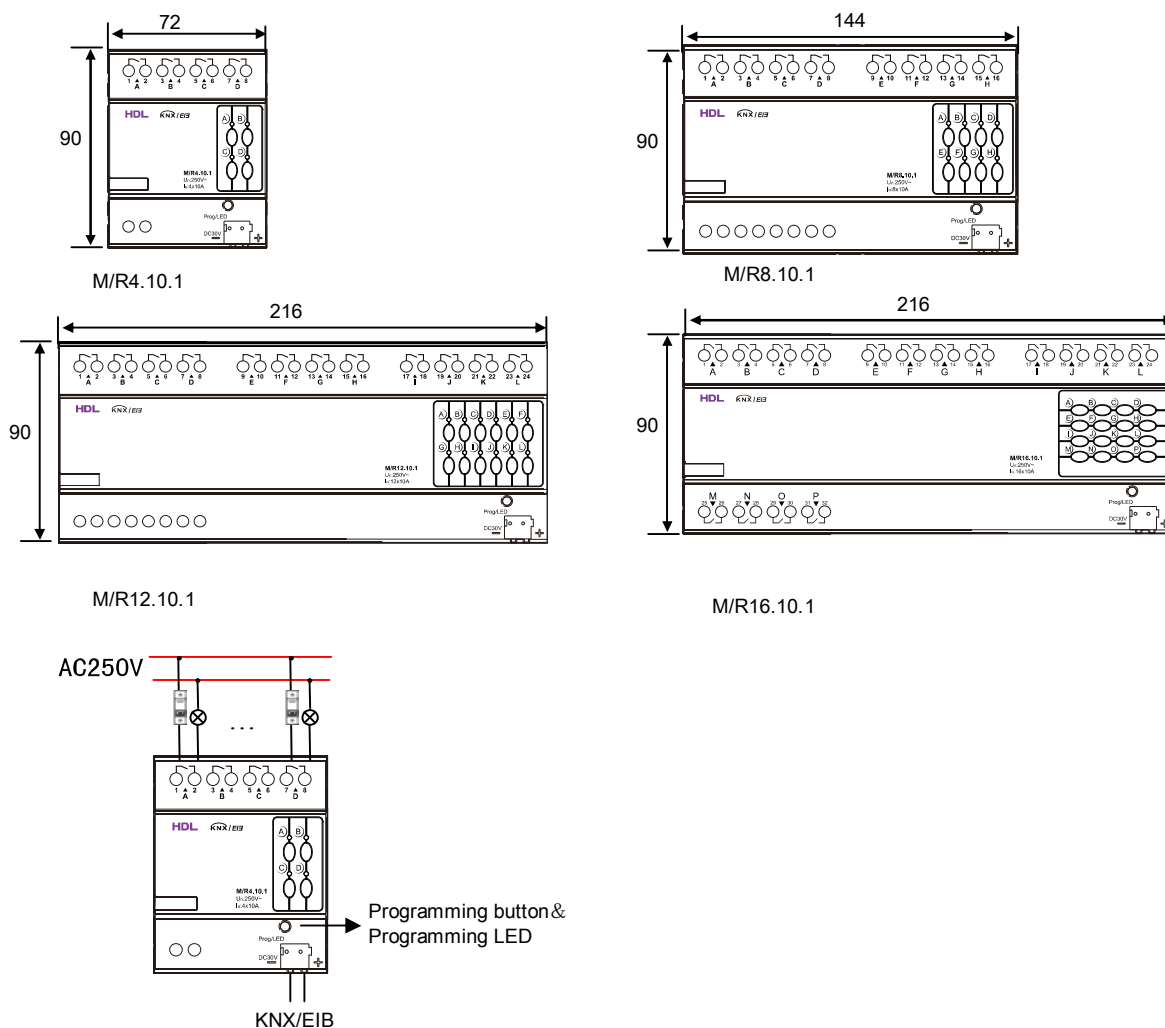
Functions

- The switch Actuators can drive for 4, 8 ,12 and 16 channels loads.
- The maximum 10 A on every output channel, also can manually operation.
- 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

Installation Step

- Mount MCB for circuit short 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 circuit short or open.
- Make sure the KNX cable type is correct and has no circuit short
- Connect bus cables. Make sure the color of wire same as definition of Bus
- Tidy the all Wire and separate Bus wire from AC power wire

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Layout and Wiring

M/R4.10.1

M/R8.10.1

M/R12.10.1

M/R16.10.1

AC250V

Programming button & Programming LED

KNX/EIB

Important

- **Special Programming** – This device is designed for professional KNX installation. It can only be programmed by ETS software.

- **Check Connections** – Re-tighten all connections after installation.

- **Output Circuit** – The load on the switched circuits must not exceed the specified capacity of 10A, these circuits should be fed via a 10A fuse/circuit breaker.

- **Three Phase Connection** – this Relay module support 3 phase input, channel 1,4,7 for L1. channel 2,5,8 for L2. channel 3,6 for 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		

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