

## Parameters

Electrical parameters	
Working Voltage	21~30VDC
Communication	KNX/EIB
Dynamic current	< 15mA
Static current	< 5mA
KNX terminals	KNX Bus Terminal – (Red /Grey) 0.6 – 0.8mm Diameter Single Core cable
Rated Voltage	220~250V AC (50/60Hz)
User Controls:	Manual Over-ride switch for each channel, KNX LED & button programming
Output Terminals:	Line In, Line Out for each channel 2.5-4mm <sup>2</sup>
Output Current	M/ D06.1: 1A/Ch, 6Ch M/ D04.1: 1.5A/Ch, 4Ch M/D02.1: 3A/Ch, 2Ch M/D01.1: 6 A/Ch, 1Ch

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	
KNX	

Product information	
IP rating	IP 20
Dimensions	M/D01.1: H90 x W144x D 66(mm)
	M/D02.1:H90 x W216 x D 66mm)
	M/D04.1:H90 x W216 x D 66(mm)
	M/D06.1:H90 x W216 x D 66(mm)
Net weight	M/D01.1: 0.54Kg
	M/D02.1: 0.73Kg
	M/D04.1: 0.76Kg
	M/D06.1: 0.78Kg
Housing material	Flame-retarded nylon

## Important Notes

- **Special Programming** – This device is designed for professional KNX installation. It can only be programmed by ETS software.
- **Load type**–Incandescent light, halogen, Dimmable LED Light etc.
- Trailing edge Mode is recommended for capacitive resistive
- Leading edge mode is recommended for inductive load and resistive.
- **Check Connections** – Re-tighten all connections after installation.
- **Output Circuit** – Total current should not exceed 6A.

## Overview



HDL KNX/EIB series products of Leading Edge or Trailing Edge Technology Dimmers are fully complying with European safety standards and KNX association protocol.

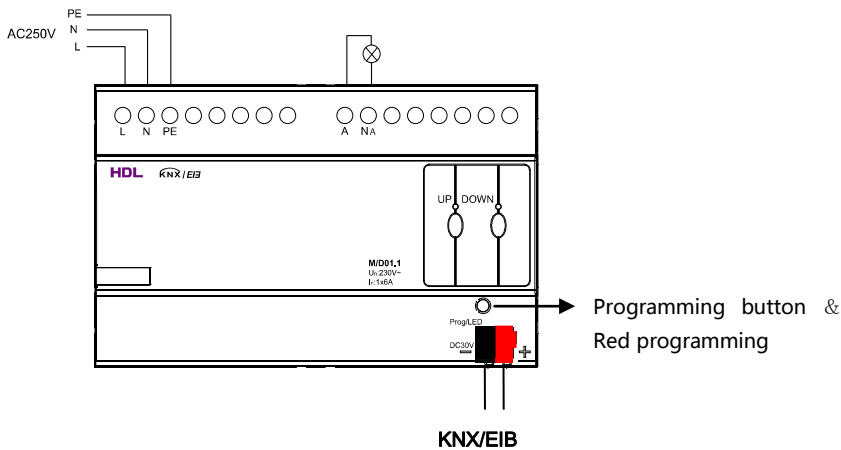
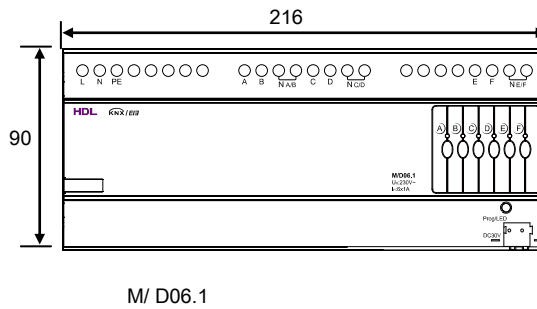
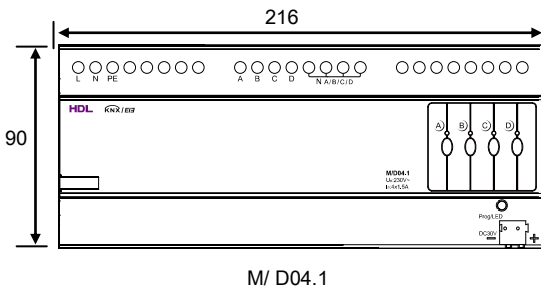
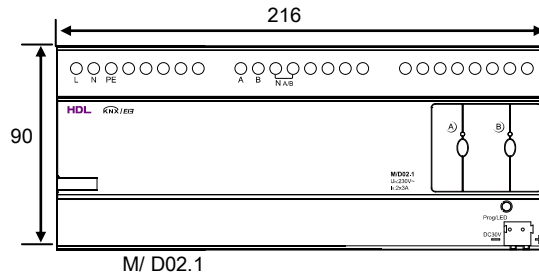
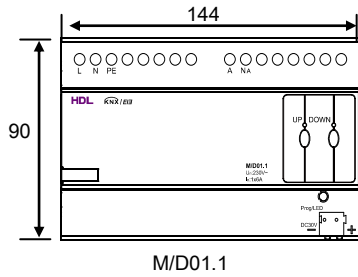
## Functions

- The Dimmer Actuators can dimming for 1,2,4 and 6 channels independent loads.
- Leading Edge dimming or Trailing Edge dimming for dimmer.
- Parallel channels to form a larger current output .
- The dimmers may be used for dimming ordinary incandescent lamps, low voltage halogen lamps and other light sources which support leading or trailing edge technology
- The module functions : Statistics total ON time, Status response, Status recovery, Over temperature protection, Read temperature, Over temperature alarm, Staircase light, Flashing light, Scene control, Scene dimming, Sequence control, Threshold control, Heating actuator (PWM).
- Short circuit protection, over load protection, over Heat protection

## Installation Steps

- 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 KNX cables. Make sure the color is correct.
- Tidy the all Wire and separate KNX wire from AC power wire.

Layout and Wirings



Safety Precautions 

- Screw down strength is less than 0.4Nm
- Connect a breaker for the device
- Installation Position: Distribution Box (DB )
- Do not make wrong connection on KNX/EIB interface, it will damage the KNX/EIB interface this module
- Do not get AC220V 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.

Package Contents

- Device\*1 / Datasheet\*1

