

## Parameters

Electrical parameters	
Working Voltage	21~30VDC
Static current	< 5mA
Dynamic current	< 15mA
Transmitting carrier wave frequency	38KHz
Emission distance	7m
Current detection	<2A
Communication	KNX/EIB
KNX terminals	KNX Bus Terminal – (Red / Black) 0.6 – 0.8mm Single - Core copper cable
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 Specifications	
Dimensions	H45mm x W45mm x D16mm
Net weight	59.4g
Housing Material	ABS
Installation	Indoor installation
Protection rating	IP 20

## Important Notes

- **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.
- Connect KNX /EIB cables. Do not get wrong connection for Black and Red wires
- When you need to use the current detection, the device should be installed near the power switch. Please pay attention to safe using.
- Ensure all terminal connections are correct before power on.
- **Bus Voltage** - The input of voltage must be between 21-30VDC
- IR LED must be put near the devices

## Overview

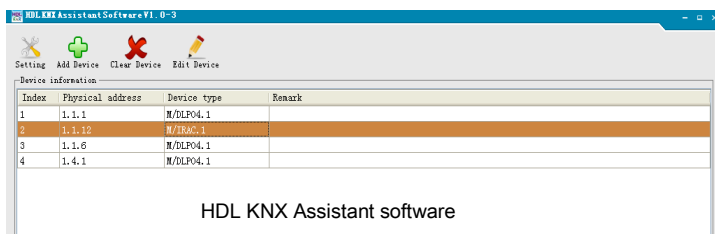
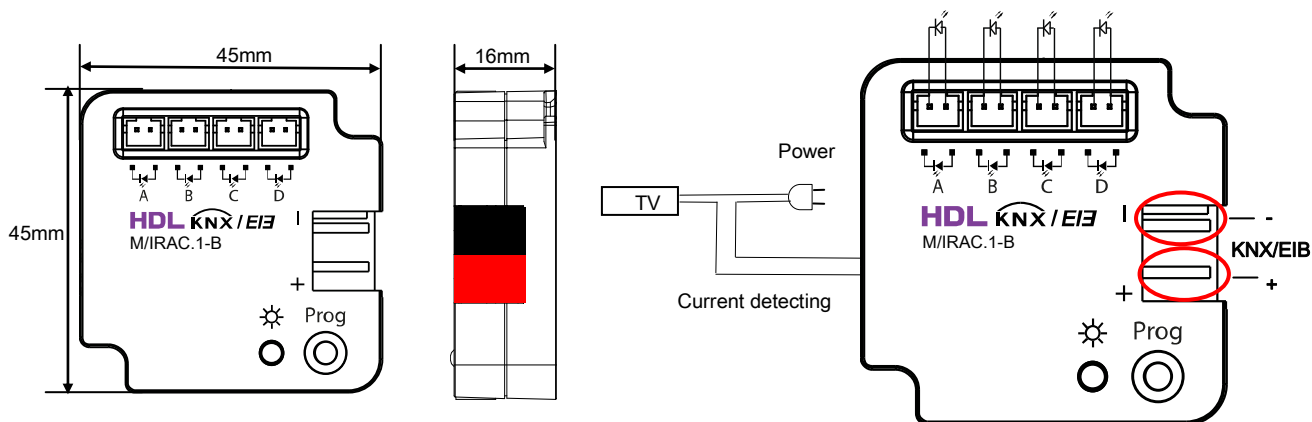


**HDL-M/IRAC.1-B IR Emitter** supports 4 channel infrared interfaces, totally can store up to 960 infrared codes. First part 150 infrared codes can be used for universal control, such as TV, DVD which supports receiving infrared codes. The other 810 infrared codes can be used as AC control and be compatible with any brand of AC device.

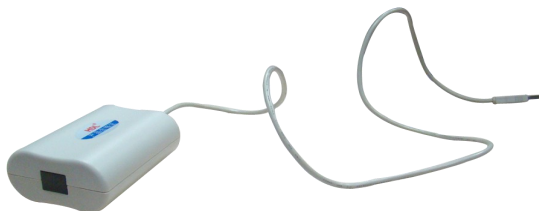
## Functions

- The AC control modes are ON/OFF control, Temperature control, Cooling/Heating, Fan speed control, Swing control etc.
- The device working modes: Single mode, Repeat mode, Sequence mode, Air-conditioner control, Current detection.
- By using the HDL IR Learner to learn the IR Codes from the normal remote, and downloaded into IR AC controller by HDL KNX Assistant software, then it can control other IR devices, such as TV, DVD, air conditioner, Amplifier etc.
- Built-in current detection sensor. The device can assure the status of device is ON or OFF.

**Product Information**



IR emission tube



HDL IR Learner (HDL-MIR01L.01)

**Safety Precautions**



- 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 and IR port, or it will damage all of devices in system.
- Ensure good ventilation.
- Do not let the device come into contact with liquids and corrosive gases.

**Package Contents**

- Device\*1/Datasheet\*1/ IR emission tube\*1

