

Parameters

Performance parameter:	
Working power	21~30VDC
BUS interface	KNX/EIB
Dynamic Current	< 10mA
Static Current	< 5mA
KNX Terminals	(Red /Black) 0.75 – 0.85mm Diameter Single-Core
Environmental Condition:	
Working temperature	0°C~45°C
Working relative Humidity	40%~90%
Storage temperature	-20°C~+60°C
Storage relative humidity	10%~93%
Approve :	
CE	
KNX	
Production information :	
Dimension	63(Diameter)×46.6(mm)
Net Weight	32g
Housing Material	Infrared lens, ABS
Installation	Ceiling mounted
PIR Sensing range in diameter	9m (install height-3m)
IP Protection	IP20

Important Notes

- **Special Programming** – This device is designed for professional KNX installation. It can only be programmed by ETS software.
- **Cable Connections** – Do not get wrong connection for Black and Red wires.
- **Voltage** - The input of voltage must be between 21-30VDC.
- **Mounting Location** –Installed indoors , to avoid installed near the air-conditioning vent, away from the heat producer.

Installation Step

- Mount the device into thin ceiling or special back box
- KNX/EIB Cable Connection
- Make sure the connection is right

Overview

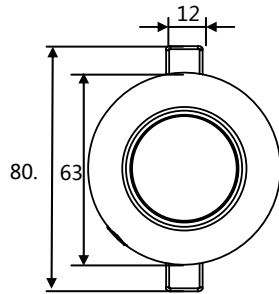


HDL KNX-M/IS05.1 includes 4 independent logic blocks and 1 combined logic block. The logic condition can be "AND""OR" logic input conditions can be the condition of motion sensor, Lux, external conditions . According to different application requirements, the sensor can be configured as the master-slave mode or single mode.

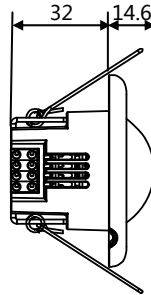
Functions

- The multi-function motion sensor include Movement detection, LUX detection, and external telegram detection.
- The multi-function motion sensor have 5 logic function blocks and can be set the logical relation AND/OR, Each with 10 output objects. The work mode include single mode and Master & Slave mode.
- The multi-function motion sensor can report movement status, Lux status to KNX system.
- The multi-function motion sensor supports constant brightness output.
- The recommended assembly height is 2 m – 3m. The sensitivity of the detector reduces as the assembly height increases.
- It can controls for Switch control, Absolute dimming control, Shutter control, Alarm control, Percentage control , Sequence control, Scene control, String control, Logic combination control.
- With function of constant brightness: keep the Lux in the constant value, will dim the lights to the corresponding intensity according to the surrounding brightness.

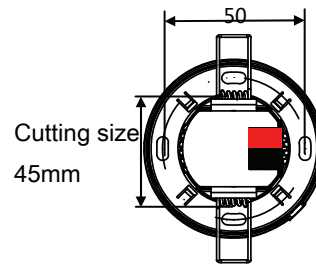
Layout and Wiring



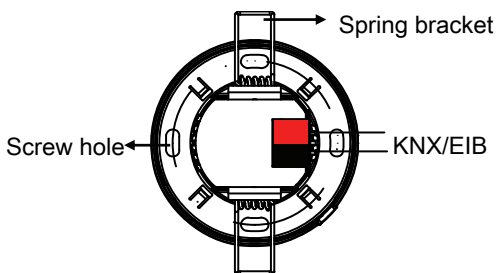
Front view



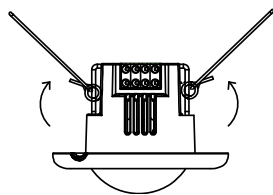
Side view



Back view

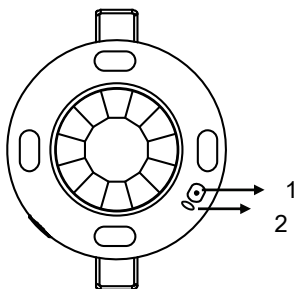


Spring bracket installation: it is used to install the sensor into thin ceiling, wooden boards etc, make a round hole with diameter of 45mm, then fasten it with the spring bracket.

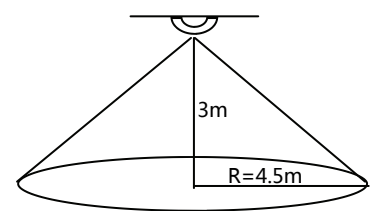


Spring bracket installation

Screw installation: it is used to install the sensor into special back box, thick wall or wooden ceiling that cannot use spring bracket. You must remove the spring bracket when install the sensor by screw.



- 1 Programming button
- 2 Programming LED: LED will on when programming.



PIR Sensing range

Safety attention 

- Screw down strength is less than 0.2Nm
- Do not get wrong connection on positive and negative for the bus cable
- Avoid contact with liquids and corrosive gases
- Do not get AC voltage into Bus wire , it will damage all of devices in the system