

Parameters

Electrical Parameters	
Working power	21~30VDC
BUS interface	KNX/EIB
Dynamic Current	< 15mA
Static Current	< 5mA
PIR Sensing range in diameter	8m (install height-2.5m)
KNX Terminals	KNX Bus Terminal - (Red /Grey) 0.6 – 0.8mm Single-Core 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 information	
Dimensions	63(Diameter)×46.6(mm)
Net weight	43g
Housing Material	ABS, PC, Iron
Installation	Ceiling mounted
Protection rating	IP20

Important Notes

- **Special Programming** – HDL-KNX/EIB M/IS05.1-D MINI PIR and Lux Sensor is designed for professional KNX installation. It only can be programmed by ETS software.
- **Cable Connections** – Ensure making correct connections for Black and Red wires.
- **Voltage** - The input voltage shall be 21-30VDC.
- **Mounting Location** – Installed indoors, to avoid installation near the air-conditioner vent, and be away from the heat source.

Installation Steps

- Mount the sensor into thin ceiling or special back box;
- Ensure the KNX/EIB Bus cable is connected compliant with the specific Bus cable connection method;
- Make sure all cables connections are correct.

Safety Precautions



- The tightening torque shall not exceed 0.2Nm.
- Ensure making correct connections to the positive and negative poles of the Bus cable.
- Do not connect AC voltage to Bus wire, or it will damage all of devices in the system.
- Avoid contact with liquids and corrosive gases.
- Ensure good ventilation.

Overview



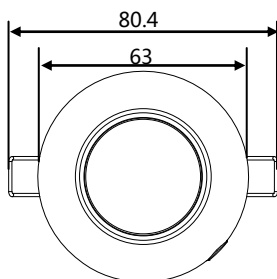
HDL-KNX/EIB M/IS05.1-D MINI PIR and Lux Sensor is a multi-functional movement sensor. It includes 4 independent logic blocks and 1 combined logic block. The logic relations “AND”, “OR” can be set. The logic input conditions contain the conditions of movement sensor, LUX and external conditions. According to different application requirements, the sensor can be configured as the master-slave mode or single mode.

Functions

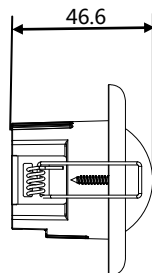
- The HDL-KNX/EIB M/IS05.1-D MINI PIR and Lux Sensor supports movement detection, temperature detection, LUX detection and external telegram detection.
- Supports 2 channels of light control, it can control the switch and dimming output. When the dimming function is applied, 4 brightness values can be set, and after 4 times delay, the brightness of the setting can be reached.
- The HDL-KNX/EIB M/IS05.1-D MINI PIR and Lux Sensor have 5 logic function blocks and can be set the logical relation AND/OR. Each block can control ten output objects. The work mode includes single mode and Master & Slave mode.
- The HDL-KNX/EIB M/IS05.1-D MINI PIR and Lux Sensor can report movement status, temperature, Lux status to KNX system.
- The sensing range for detecting people sitting and walking are different sizes. The recommended installation height is 2 m – 3m. The PIR sensing range of the detector increases as the installation height increases.
- The sensor supports object controls: Switch control, Absolute dimming control, Shutter control, Alarm control, Percentage control, Sequence control, Scene control, String control, Threshold control, Logic combination control.
- With the function of constant brightness: The sensor keeps the Lux at a constant value, and it will dim the lights to the corresponding intensity according to the surrounding brightness.



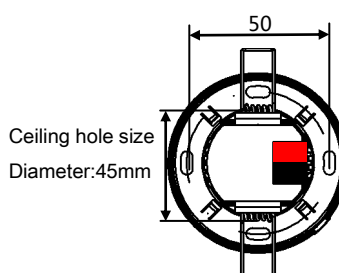
Dimensions (Unit: mm)



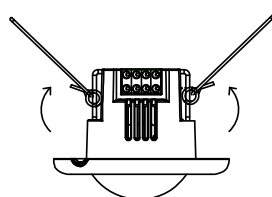
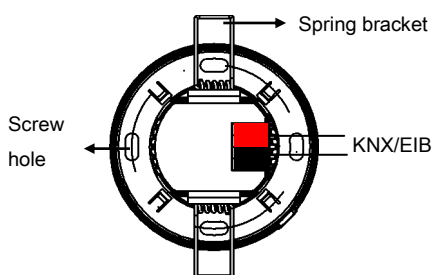
Front view



Side view



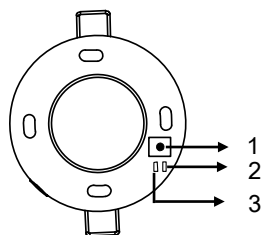
Back view



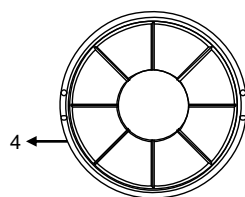
Spring bracket installation

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.

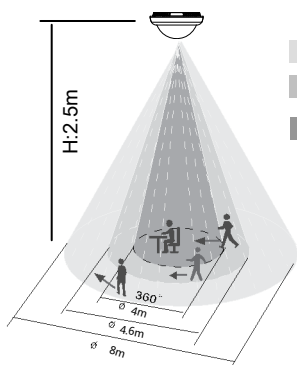
Screw installation: it is used to install the sensor into special back box, thick wall or wooden ceiling that cannot use spring bracket. You must remove the spring bracket when install the sensor by screw.



- 1 Programming button
- 2 Programming LED indicator: LED will on when programming.
- 3 LED indicator of status
- 4 Angle shielding cover



Accessories: angle shielding cover, which have the function of blocking infrared induction, if users do not need a certain angle of infrared dynamic induction and static induction, they can use this accessory to keep out, and can remove the rest of a part which does not need to keep out, and then to put it inside the Fresnel lens. Users can adjust angle according to their own needs.



- Walking across
- Walking across with small steps
- Anti-creep, seated activity slight movements and walking towards

PIR Sensing range

Mounting height	Seated activity and walking towards	Walking across with small steps	Walking across
2.5m	4m	4.6m	8m
3m	4m	4.6m	8m
4m	4m	7m	10m
5m	4m	8m	10m

Package Contents

- Device*1/Datasheet*1/ Angle shielding cover*1

