Parameters

**Overview**

HDL-KNX/EIB M/HS05.1-D 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, temperature, dry contact 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/HS05.1-D PIR and Lux Sensor supports movement detection, temperature detection, LUX detection, dry contact 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/HS05.1-D 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/HS05.1-D PIR and Lux Sensor can report movement status, temperature, Lux or dry contact 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.
- Supports dry contact input.
- 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.

### Electrical Parameters

- **Working Voltage**: 21~30VDC
- **Communication**: KNX/EIB
- **Dynamic Current**: < 20mA
- **Static current**: < 5mA
- **KNX terminals**: KNX Bus Terminal - (Red /Grey) 0.6 – 0.8mm Single-Core Cable
- **PIR Sensing range in diameter**: 8m (install height-2.5m)

### Environmental Conditions

- **Working temperature**: -5℃~45℃
- **Working relative Humidity**: Up to 90%
- **Storage temperature**: -20℃~+60℃
- **Storage relative humidity**: Up to 93%

### Approved

- CE, RoHS

### Product Information

- **Housing material**: ABS, PC
- **Dimensions**: Φ84mm×42.6mm
- **Net weight**: 50g
- **Installation**: Indoor Installation
- **Protection rating**: IP 20

### Important Notes

- **Special Programming** – HDL-KNX/EIB M/HS05.1-D 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.
- **Mounting Location** – Installed indoors, to avoid installation near the air-conditioner vent, and be away from the heat source.
- **Bus Voltage** - Ensure the input voltage should be 21-30VDC.

### Installation Steps

- Label and pay particular attentions to different cables, AC power cable, KNX Bus cable, and load cable;
- Installation position: Indoor installation;
- Connect to power supply and load device;
- Ensure the KNX Bus cable is connected compliant with the specific Bus cable connection method;
- Make sure all cables connections are correct;
- Tidy all cables, separate the KNX Bus cable and power cable.
Dimensions and Wiring (Unit: mm)

- 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.

Safety Precautions

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

PIR Sensing range

<table>
<thead>
<tr>
<th>Mounting height</th>
<th>Seated activity and walking towards</th>
<th>Walking across with small steps</th>
<th>Walking across</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5m</td>
<td>4m</td>
<td>4.6m</td>
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Package Contents

- Datasheet*1 / HDL-KNX/EIB M/H05.1-D *1