M/HS05.1

KNX Ceiling Mount PIR & Lux Sensor

Hardware Version: D

Datasheet

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Figure 1. KNX Ceiling Mount PIR & Lux Sensor

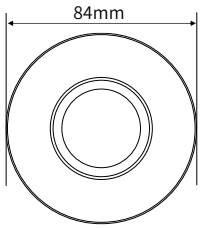


Figure 2. Dimensions - Front View

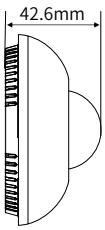


Figure 3. Dimensions - Side View

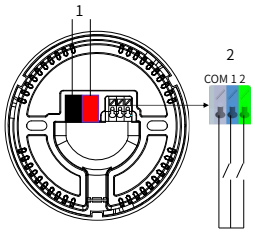


Figure 4. Components - Back View

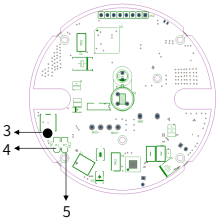


Figure 5. Components - Interior View

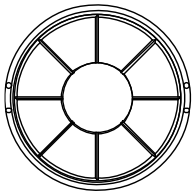
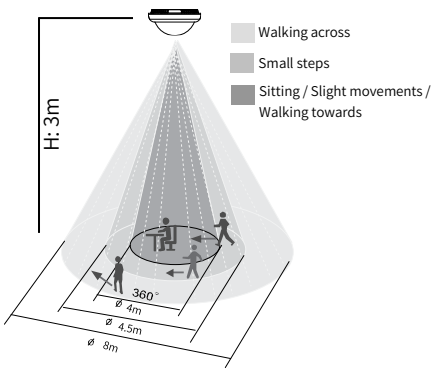


Figure 6. Accessory - Angle cover



Detection Range (At 25°C)

Mounting height /	Sitting / Slight movements / Walking towards	Small steps	Walking across
3m	4m	4.5m	8m

Figure 7. Detection Range

Overview

KNX Ceiling Mount PIR & Lux Sensor (See Figure 1) is a multi-function sensor which contains PIR sensor, temperature sensor, Lux sensor, dry contact and external telegram. 5 logical blocks are available and each block contains 10 object outputs. Logical relations AND, OR can be set and single mode and master/slave mode are supported.

Functions

- With 2CH lighting control, 4 sections of brightness and delay time can be set in dimming output. With gradually dimming effect, the sensor supports automatic or semi-automatic mode. Telegram locking/unlocking and delay time can be set.
- With 2CH constant brightness control, dimming values and forced operation can be set.
- The sensor has 5 logic blocks and each block contains 10 object outputs. Dry contact, telegram locking/unlocking and delay time can be set.
- Control types: Switch control, Absolute dimming control, Shutter control, Alarm control, Percentage control, Sequence control, Scene control, String (14 bytes) control, Threshold control, Logic combination control.
- 5 Logic inputs: PIR sensor status, brightness value, temperature, dry contact status and external telegrams.
- 2 logical relations: AND, OR.
- 2 working modes: Single mode and master/slave mode.
- 2CH dry contact can be set as dry contact and LED status display and the operation function can be set as switch control, dimming control, scene control and percentage control.
- The logic validity can be set by external telegram.

Important Notes

- Installation - Installed indoor. Install the sensor away from large area of mental, air conditioners or heat sources.
- Programming - The device is compliant with the KNX standard and the parameters are set by the Engineering Tool Software (ETS).

Product Information

Dimensions - See Figure 2 - 3

Components - See Figure 4 - 5

1. KNX terminal.
2. Dry contact, from left to right are COM, dry contact 1, dry contact 2.
3. Programming button.
4. Programming LED indicator(VE1): The LED is on when the sensor is in programming state, off when the sensor exits the programming state, and off when the sensor works properly.
5. Working LED (VE2): LED on if any movement is detected, otherwise LED off.

Angle cover - See Figure 6

Angle cover is used to shield PIR sensor signal from certain angle, in order to enlarge or narrow down detection zone according to users' preference.

Detection Range - See Figure 7

Safety Precautions

- The installation and testing for the product must be carried out by HDL Automation Co., Ltd. or its appointed service agencies. The electric construction shall comply with local laws and safety regulations.
- HDL will not be responsible for any consequence caused by the inexpert or faulty installation and wiring methods, which are not in accordance with the instructions contained in this operating instruction.
- Please do not privately disassemble or replace any parts of the product. Otherwise, it may cause mechanical fault, electric shock, fire or personal injuries.
- Please contact our after-sales departments or our designated service agencies for your maintenance service. Product failures caused by private disassembly are not subject to this warranty.

Package Contents

M/HS05.1*1 / Datasheet*1 / Angle cover*1 / Screw*2

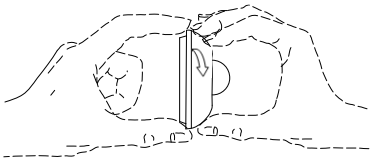


Figure 8

Figure 9

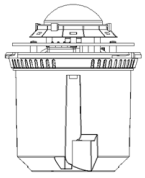


Figure 10

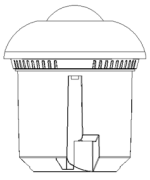


Figure 11

Figure 8-11. Installation

Technical Data

Basic Parameters	
Working voltage	21~30V DC
Working current	5mA/30V DC
Communication	KNX
Cable diameter of KNX terminal	0.6 - 0.8mm
PIR detection range	Φ8m (Installation height: 3m)
External Environment	
Working temperature	-5℃~45℃
Working relative humidity	⩽90%
Storage temperature	-20℃~60℃
Storage relative humidity	⩽93%
Specifications	
Dimensions	Φ84×42.6 (mm)
Net weight	50g
Housing material	ABS，PC
Installation	Ceiling mount (See Figure 8 - 11)
Protection rating (Compliant with EN 60529)	IP20
Approved	
CE, RoHS	
KNX	

KNX Cable Guide

KNX	KNX Cable
-	Black
+	Red

Installation

Installation - See Figure 8 - 11

Step 1. Rotate and take the cover off. Screw the plate on the wall box with screws.

Step 2. Install the sensor onto the plate with screws.

Step 3. Rotate and attach the cover to the sensor.

Technical support

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Website: https://www.hdlautomation.com