

# Datasheet |

## Parameters

Electrical Parameters	
Program name	HS 24M Sensor ( V1.0)
Model No.	LMMHSD241
Bus Working Voltage	21~30VDC
Communication	TP1
Bus interface	KNX/EIB
Static current	< 10mA/30VDC
Dynamic current	< 15mA/30VDC
KNX terminals	KNX Bus Terminal (Red / Grey) 0.6 – 0.8mm Diameter Single Core cable
PIR Sensing range	24m(D) (install height 2.5m, 25°C)

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	
KNX	

Product information	
Housing material	ABS and PC
Dimensions	Φ84mm×41.6mm
Net weight	60g
IP rating	IP 20

## 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
- **Mounting Location** – Installed indoors, to avoid installed near the air-conditioning vent, away from the heat producer.
- **Bus Voltage** - The input of voltage must be between 21-30VDC.
- **Installation position** – Indoor, keep it away from AC outlet and heat source.

## Overview

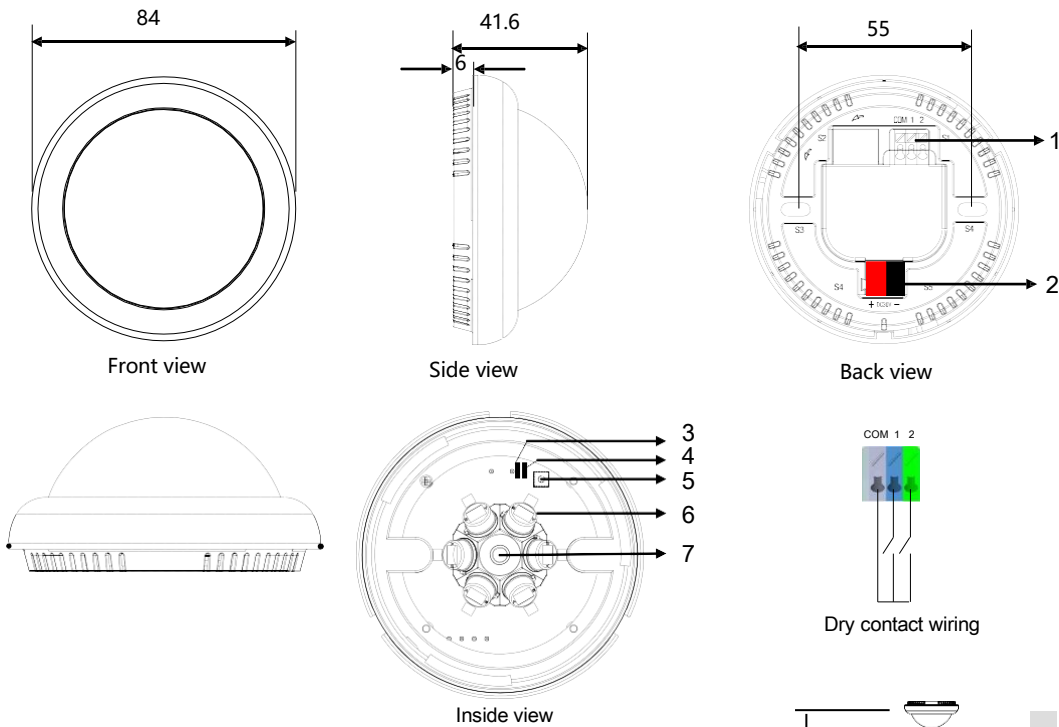


This sensor is able to sense motion, temperature, and lighting intensity. Designed to be ceiling mounted the PIR sensor is able to detect a presence at up to 24meters away, making it ideal for lighting and security applications. For a tailored detection solution the PIR detection area can be partitioned via ETS software, enabling custom detection zones to be created.

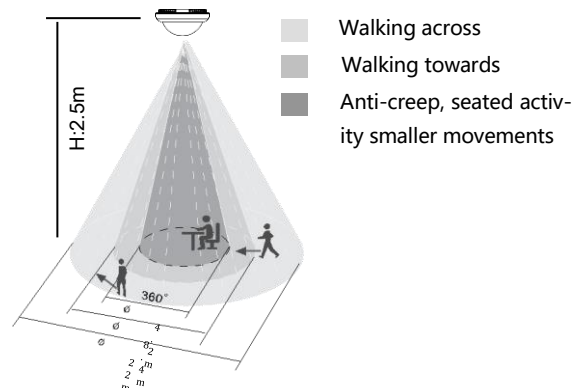
## Functions

- The multi-function motion sensor can report movement status, temperature, Lux or dry contacts status to KNX system.
- The HS 24M Sensor detect range can be up to 22 meters, recommended assembly height is 2.5 m.
- The multi-function motion sensor supports constant brightness output.
- 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.
- The logic validity can be set by dry contact or external telegram, enable end-user to enable or disable the preset logics.
- The work mode include single mode and Master & Slave mode. One master sensor can be used in conjunction with multiple slave sensors, When slave sensor detects the movement, will send the data to master sensor, then the master sensor will control the targets.

## Layout and Wiring (Unit: mm)



1. Dry contact ,from left are Com, dry contact 1, dry contact 2
2. KNX/EIB interface
3. Programming LED (VE7): For indicating normal mode (LED Off) or addressing mode (LED On); it is automatically Off once the physical address has been modified. or idle mode (LED Off)
4. Working LED (VE8): detect any movement LED will ON.  
**Note: The LED state can be set.**
5. Programming button
6. IR detectors: each detector has specified number that could be set enable or disable individually for different zone detect.  
**Note: the specified number are S1, S2, S3, S4, S5, S6**
7. LUX sensor



PIR Sensing range

Mounting height	Seated activity	Walking towards	Walking across
2.5m	4.2m	8.4m	22m
3m	4.6m	9.6m	23.2m
4m	5.2m	10.6m	24.8m
5m	6.7m	11.5m	27.6m

## Safety Precautions



- Do not get wrong connection on positive and negative for the bus cable.
- Do not let the module come into contact with liquids.
- Do not get AC voltage into Bus wire , it will damage all of devices in system.

## Package Contents

- Datasheet\*1/Screw \*2