



www.theorylight.com



Theorylight Series

TLSE05 Smart Sensor

(Microwave motion sensor + infrared illumination light sensor)



ZigBee network control



Motion Sensor



Infrared illumination light sensor



Theorylight Remote Control



Regional Groups



Dimming control



On/off control

CE

RoHS

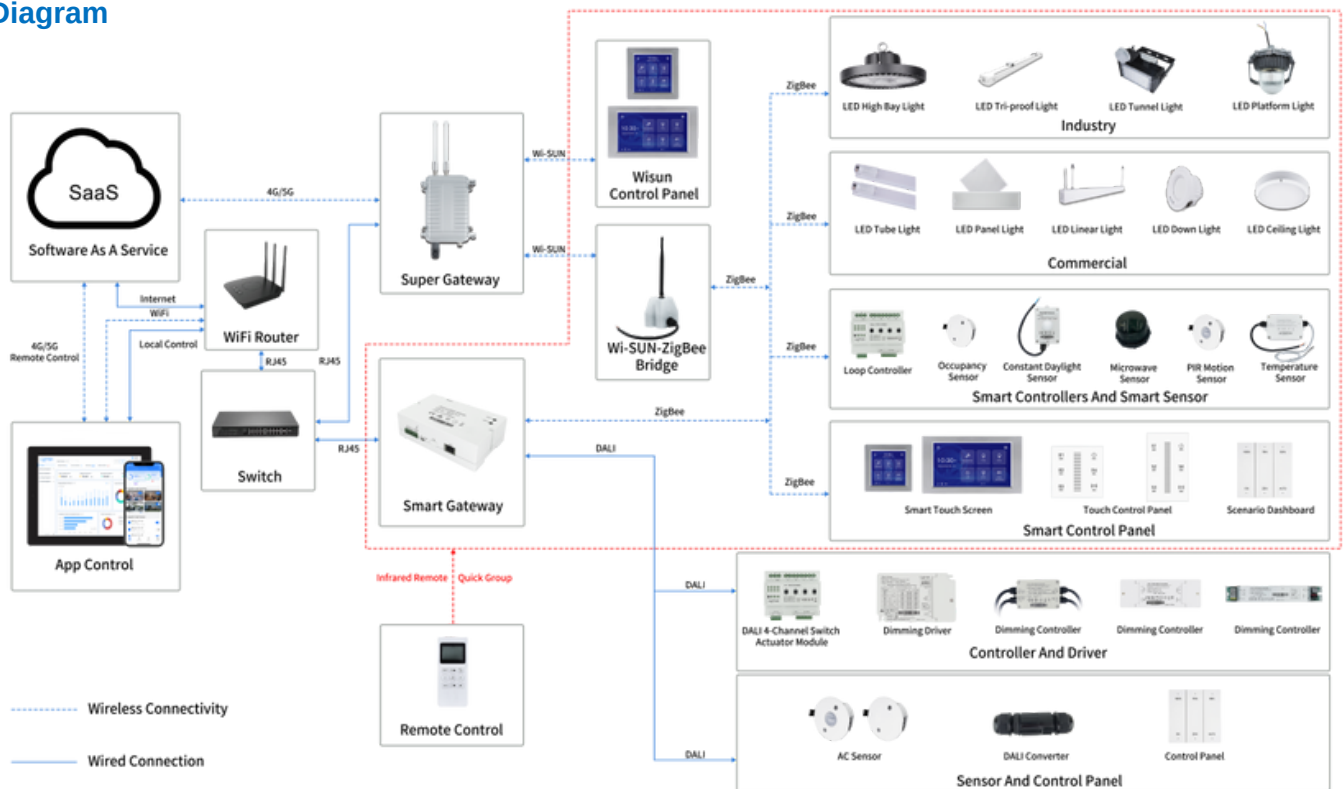
Application Scenario

- Warehouse
- Workshop
- Parking lot
- Shopping Mall
- School
- Corridor

Features

- TLSE05 is a snap-on motion sensor with built-in ZigBee module.
- It can be connected to lamps to realize intelligent lighting function.
- Input 12Vdc. 5V or 10V PWM dimming signal output.
- Support ZigBee 3.0 protocol. Infrared remote control.
- 5.8G microwave induction.
- Infrared illumination light sensing.
- Support OTA upgrade.
- Communication distance up to 30 meters.

System Diagram



Product Parameters

Warranty Remote Control	5-year warranty
Distance Communication	10m
Distance	30m

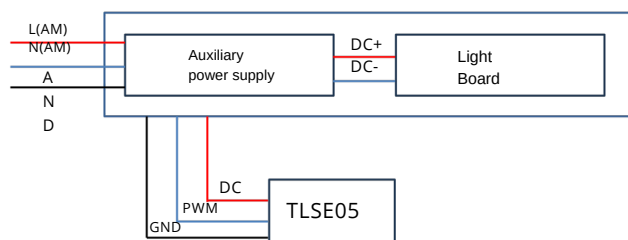
Structural parameters

Structural material	PC V0
Appearance color	White

Application environment parameters

Operating temperature	-20°C ~60°C
-----------------------	-------------

Wiring method



Electrical parameters

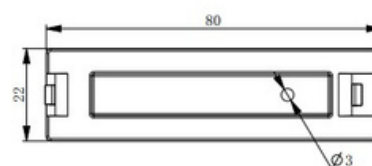
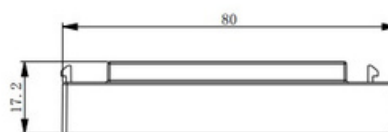
Input voltage	DC12V (power ripple requirement <400mV) >
Input current	
Output signal frequency band	200mA 5V or 10V PWM 5.8GHz±75Mhz, ISM band

Control and dimming

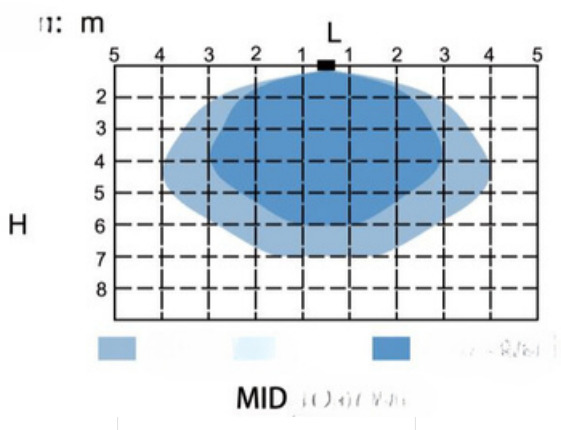
Dimming	5V or 10V PWM dimming
Smart	ZigBee/ microwave motion
Components	sensor + infrared illumination light sensor

Dimensions

Unit: mm



Sensor detection range



Product Parameters

Product Model	Smart Module	Input voltage	Output signal	Infrared remote control distance	Wireless communication distance	Maximum detection range	Illumination range
TLSE05-MW Z-MID-05P-OTA-3.0	MID= Microwave Motion Sensor+ Infrared illumination light sensor	DC12V(<400mV) Power pattern Wave Requirements	5V PWM	10m	30m	6m	0-600Lux
TLSE05-MWZ-MID-10P-OTA-3.0			10V PWM				

Packaging data

Product Model	net weight (g)	Gross Weight (g)	Packing size (mm)	Packaging
TLSE05-MWZ-MID-05P-OTA-3.0	21.1	290	362*115*30	10 Pieces/Box
TLSE05-MWZ-MID-10P-OTA-3.0	21.1	290	362*115*30	10 Pieces/Box

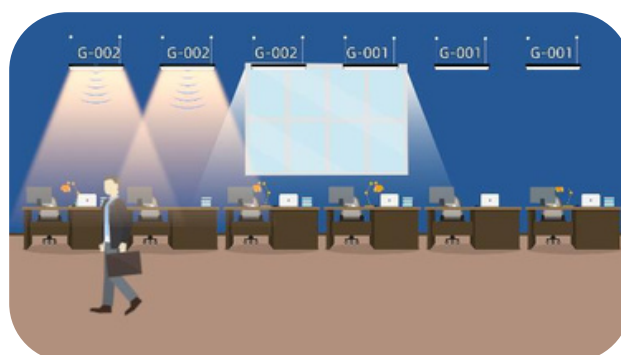
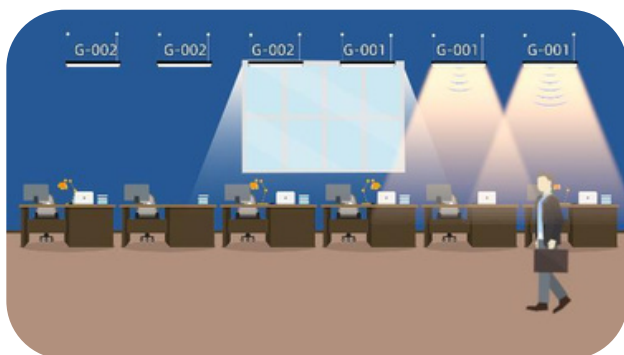
Set Operation

1. The sensor control needs to be used with our HRCD01 remote controller.
2. For detailed operation, please refer to the "HRCD01 Remote Controller Manual"

Typical working scenarios



Hema Technology's Theorylight smart sensor has built-in motion sensors and light sensors. Through the "Theorylight" remote control, you can realize group editing and parameter setting of devices. Using standard ZigBee technology, the Theorylight series of sensors have the natural advantages of long transmission distance, multiple channels, and automatic relay.



Users can use the Theorylight remote control to set the sensor parameters of the Theorylight sensor for groups or single lights with one click; they can also use the Theorylight remote control to adjust the brightness of single lights or groups. The Theorylight smart lamps work in conjunction with the motion sensor in the group, and the light sensor intelligently controls the switch of the lamps according to the ambient brightness.

Theorylight smart sensors are available in a variety of models, compatible with panel lights, linear lights, tri-proof lights, mining lights, and T8 tubes. They can be widely used in different scenarios such as offices, warehouses, factories, and parking lots.