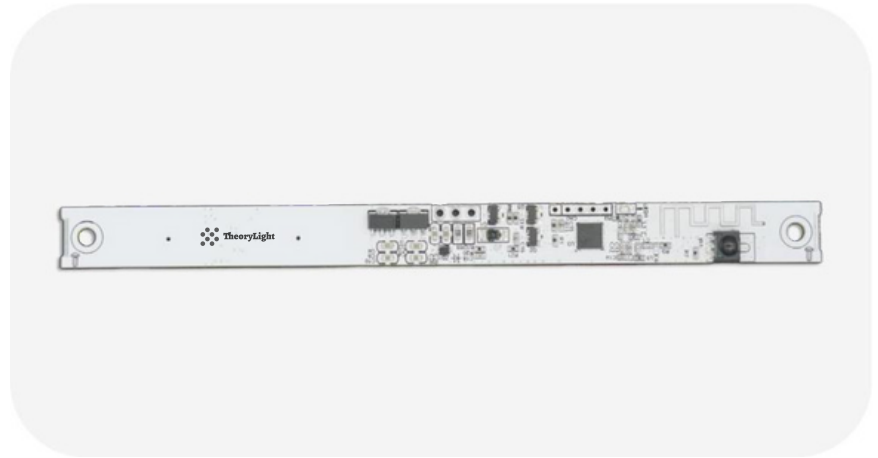




www.theorylight.com



Theorylight

TLSC25 Smart Sensor

(Infrared Daylight Sensor) (Microwave motion sensor + Infrared Daylight Sensor)



Zigbee Mesh
Network Control



Motion Sensor



Daylight Sensor



Theorylight
Remote Control



Zoning & Grouping



Dimming Control



ON/OFF



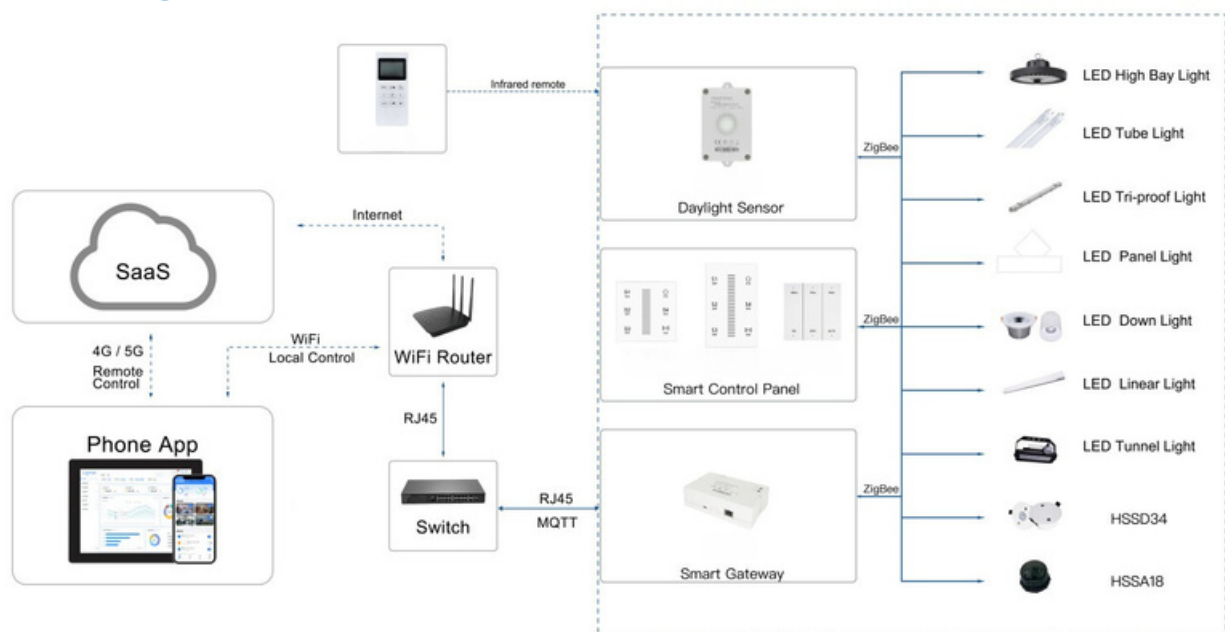
Applications

- Offices
- Schools
- Shopping Malls
- Warehouses

Features

- TLSC25-TLZ is a mobile sensor with a built-in ZigBee module that outputs a 5V/10V PWM dimming signal.
- Input 6.5/12Vdc.
- 5V/10V PWM dimming signal output.
- Support ZigBee 3.0 protocol.
- Communication distance of 30 meters .
- Support OTA upgrades.
- Product size is small and can be embedded for use in lamps.
- Working temperature -25 °C~65 °C.

System Diagram



Product Data

IEC Protection class	IP 20
Warranty	5 Years

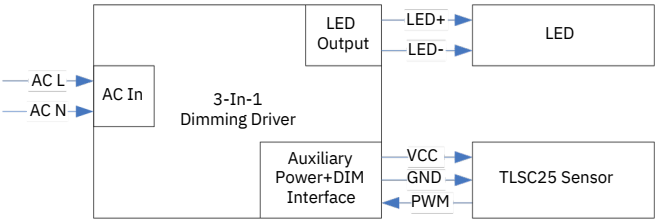
Application Conditions

Operating Temperature	-25°C~ 65°C
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Hardware interface

Pin Header	Description
VCC	6.5-12Vdc input
PWM	5V/10V PWM dimming signal output
GND	Ground

Wiring diagram



TLSC25-TLZ-XXX-XXX-OTA-3.0/TLSC25-TLZ-XXX-XXX-OTA-3.0.

Operating and Electrical

Microwave frequency	5.8GHz±75Mhz
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Mechanical and Housing

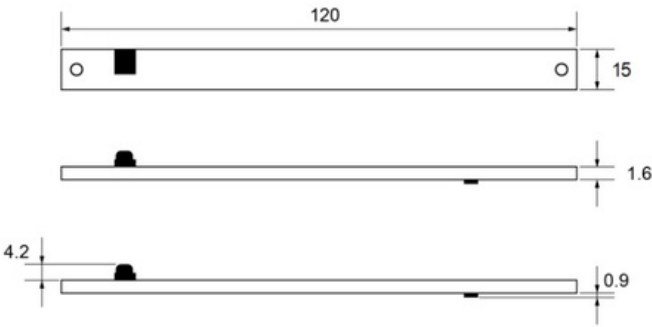
PCB board material	FR4
Fixture Color	W hi te

Controls and Dimming

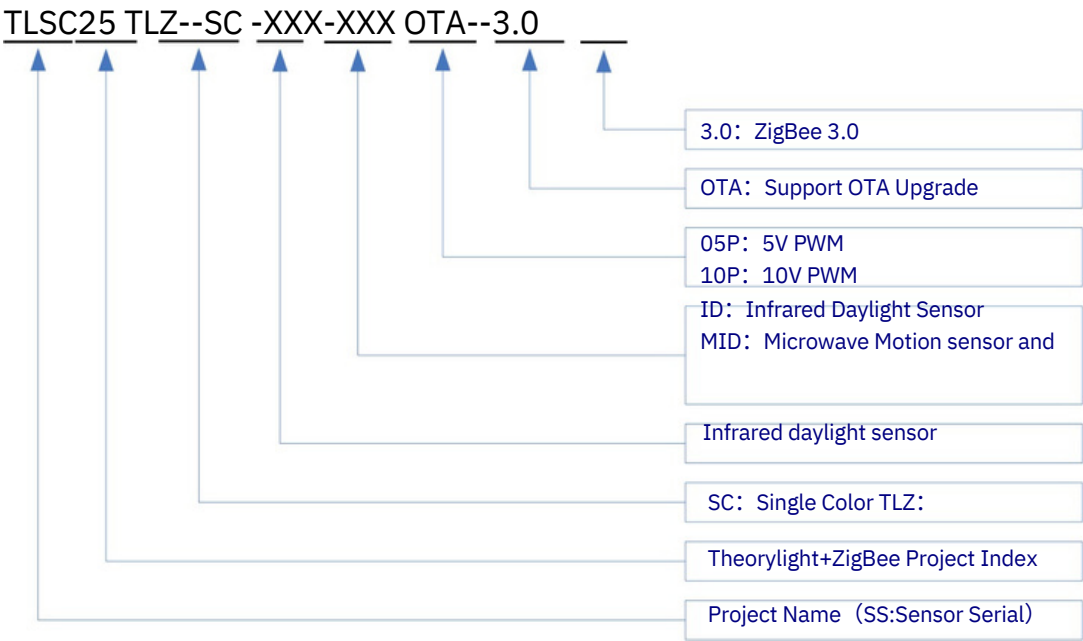
Dimmable	PWM Dimmable
Intelligent Control	ZigBee / Infrared Daylight Sensor / Microwave motion sensor + Infrared Daylight Sensor

Draw ing

Unit : mm



Part No.



XX : Indicates that different functions or parameter settings can be selected, with empty spaces indicating that this function is not selected.

Product Parameter

Model Number	Smart Modules	Input voltage	Output Signal	Remote control distance	Maximum detection range		Illuminance detection range
					Horizontal distance	Vertical hanging height distance	
TLSC25-TLZ-SC-ID-05P-OTA-3.0	ID: Infrared Daylight Sensor	DC6.5V	5V PWM 1mA (MAX)	10m	8m	3m	0-600Lux
TLSC25-TLZ-SC-MID-05P-OTA-3.0	MID: Microwave motion sensor + Infrared Daylight Sensor						
TLSC25-TLZ-SC-ID-10P-OTA-3.0	ID: Infrared Daylight Sensor	DC12V	10V PWM 1mA (MAX)				
TLSC25-TLZ-SC-MID-10P-OTA-3.0	MID: Microwave motion sensor + Infrared Daylight Sensor						

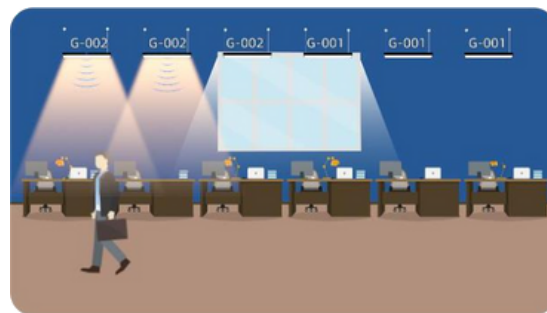
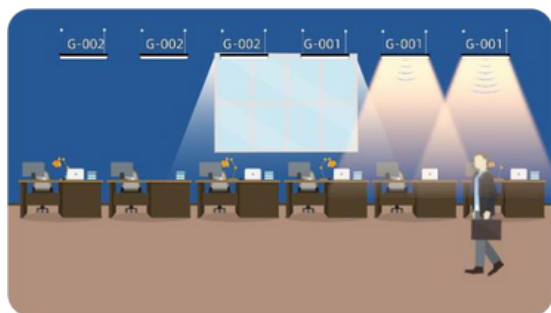
Package

Model Number	Net Weight (g)	Gross Weight (g)	Package Size (mm)	Package
TLSC25-TLZ-SC-ID-05P-OTA-3.0	5	/	/	1Pcs/Box
TLSC25-TLZ-SC-MID-05P-OTA-3.0	5	/	/	1Pcs/Box
TLSC25-TLZ-SC-ID-10P-OTA-3.0	5	/	/	1Pcs/Box
TLSC25-TLZ-SC-MID-10P-OTA-3.0	5	/	/	1Pcs/Box

Typical Working Scenarios



The “Theorylight” smart lamps are embedded with motion sensor and daylight sensor, using a “Theorylight” remote control, users can set grouping and parameters very fast and convenient. By adopting the standard ZigBee technology, “Theorylight” has the inborn advantages like long transmission distance, multiple channels and mesh network.



Users can set the sensor parameters of one group or individual lamp with one button, and change lamp brightness. In one group, the motion sensors work together to control these grouped lamps, and the daylight sensors control the individual lamps on/off according to the ambient brightness.

The Theorylight serial include panel, linear light, tri-proof light, high bay, LED tube. This kind of smart lamps can be used for industrial and commercial area, example offices, warehouses, factories, parking and others.