





Theorylight

TLSD23 Smart Sensor

Microwave Motion Sensor + Infrared Daylight Sensor



ZigBee Mesh Network Control



Motion Sensor



Daylight Sensor



Theorylight Remote Control



rylight : Control Zoning & Gro



Zoning & Grouping Dimming Control



ON/OFF

CE RoHS



Applications

Shopping Malls

Warehouse

Production Workshop

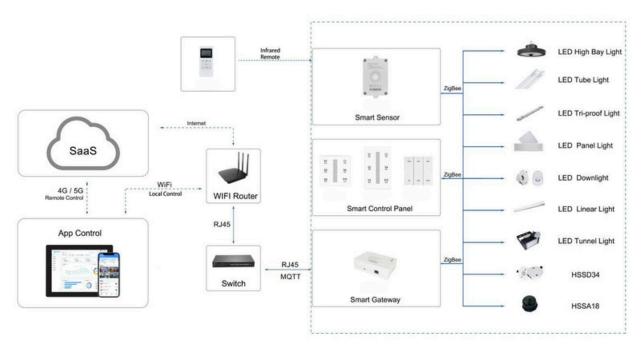
Schools

Parking AreaCorridor

Features

- TLSD23-TLZ is a ZigBee
- DC sensorwitha12VDC input and a10VPWM 1K dimming output.
- The sensor operates with a12VDC power supply.
- A 10VPWM output for controlling the brightness of lights with frequency of 1KHz.
- Built-in ZigBee3.0 Wireless Module.
- Infrared remote control.
- 5.8G Microwave Sensing.
- Infrared Daylight Sensor.
- IP65 Protection. Supports OTA upgrades.

System Diagram





Product Data

Warranty 5 Years
IEC Protection class IP 65

Application Conditions

OperatingTemperature -20°C ~70°C

Wiring Diagram

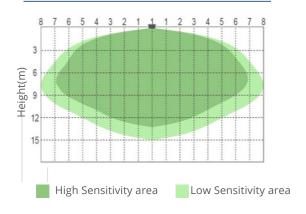
PCBA wiring port definition

Port silk screen	Port description		
VCC	Input 12Vdc		
GND	Input Ground		
DIM	10V PWM		

Wire harness color

Line color	Port description		
Black & White	Input 12Vdc		
Grey	Input Ground		
Purple	10V PWM		

Detection Range



Operating and Electrical

Input voltage DC12V((power ripple requirement<200mV)

Input current 200mA Output signal 10V

Microwave frequency PWM 5. 8GHz ±75M hz

Mechanical and Housing

Structural materials PC V0

Controls and Dimming

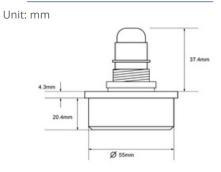
Dimmable 10V PWM

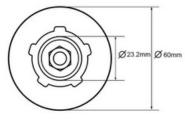
Intelligent Control ZigBee / Microwave motion

sensor + Infrared Daylight

Sensor

Draw ing

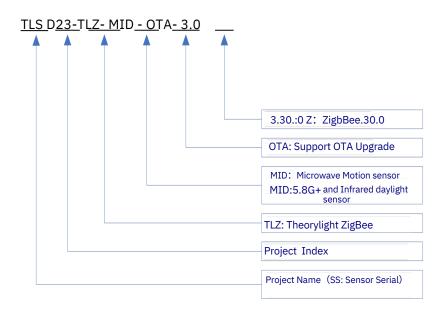








Part No.



Product Parameter

Model Number	Smart Modules	Input voltage	Output Signal	Remote control distance	Wireless communicatio n distance	Maximum detection range	Illuminance detection range
TLSD23-TLZ- M ID-OTA-3.0	MID:Microwave motion sensor + Infrared Daylight Sensor	DC12V (Power ripple requirements<200mV)	10V PWM	15m	30m	13m	0-600Lux

Package

el Number Sn	NetWeight (g) nart Modules	Gross Weight(g)		MaximPumackageIllumi detection range detectio
TLSD23-TLZ-MID- OTA-3.0	55.7	83.4	84*62*109	1pce/box

Setup Operations

For detailed operations, please refer to the 《TLCD**01** infrared remote control operation manual.pdf》

Device Reset

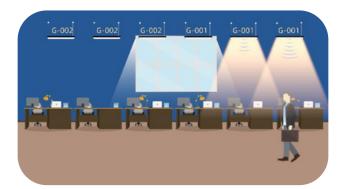
You can use the TLCD**01** remote control, briefly press the Reset key to reset. The light of the luminaire will flash three times, indicating that the reset is successful.

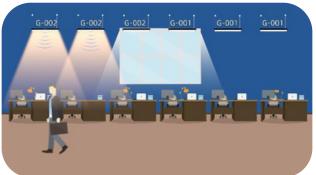


Typical Working Scenarios



The "Theorylight" smart lamps of 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.