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Magic Wand

HSSA18 Smart MID

(Microwave motion + Infrared Daylight)Sensor

3 In 1 Intelligent module Sensor

(Motion Sensor +Daylight Sensor+ZigBee Module)



Zigbee Mesh
Network Control



Motion Sensor



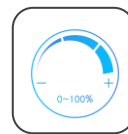
Daylight Sensor



Magic Wand
Remote Control



Zoning & Grouping



Dimming Control



ON/OFF

CE RoHS



Applications

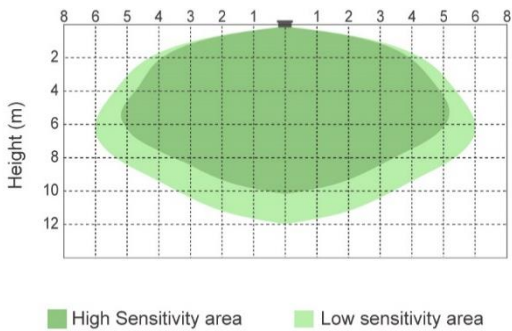
- Warehouse
- Workshop
- Sports Hall
- Exhibition Hall

Features

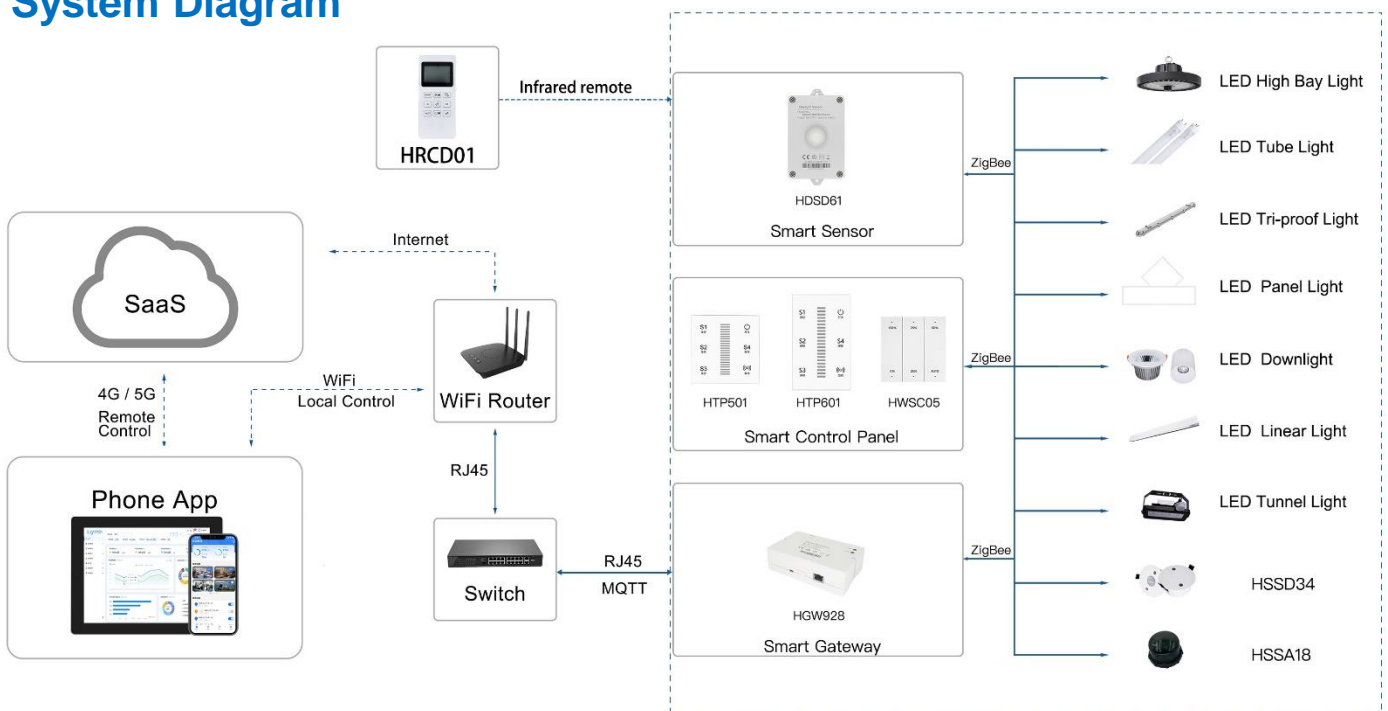
- Input voltage 12Vdc.
- 0-10V Dimming.
- Easy Grouping without Gateway via Magic Wand Remote Control.
- Zhaga Standard Connector
- Support OTA Upgrade.



Detection Range



System Diagram





Product Data

IEC Protection class	IP 65
Warranty	5 Years
Certificate	CE , RoHS

Application Conditions

Operating Temperature - 20 °C to ~ 55 °C

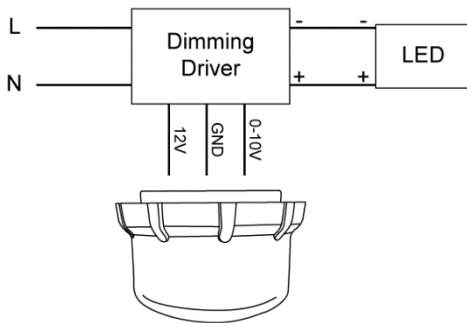
Mechanical and Housing

Structure Material	PC V0
Fixture Color	Black

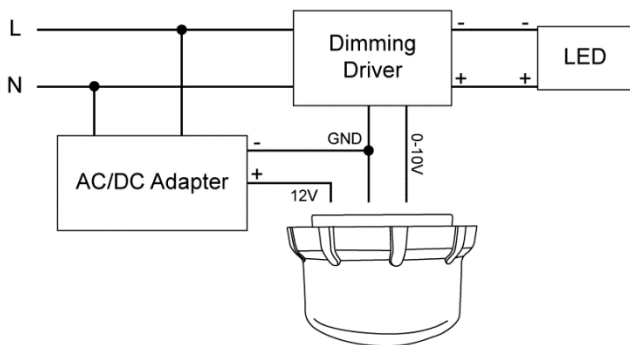
Controls and Dimming

Dimmable	Dimmable
Intelligent Control	ZigBee / Microwave Sensor / Infrared Daylight Sensor

Wiring Diagram



Power supply with auxiliary source output

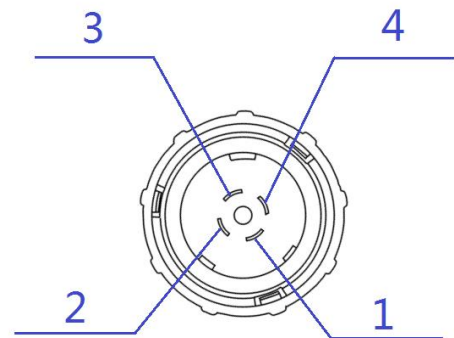


Power supply without auxiliary source output

Operating and Electrical

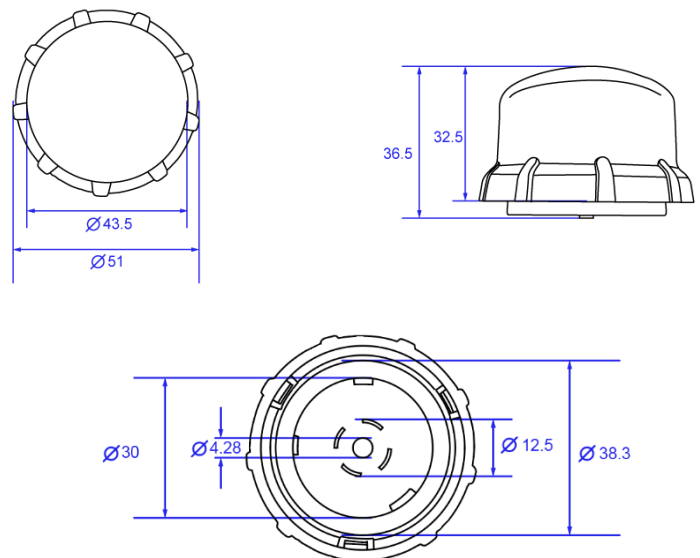
Input voltage	DC12V (Auxiliary power supply current requirement: 200mA; Ripple requirement: <200mV)
Wireless Frequency	2.4GHz
Support frequency band	5.8GHz ±75 MHz ISM Band

Pin definition



Pin serial number	Pin definition
1	DC 12V input
2	GND
3	0-10V dimming output using one of the pins
4	

Drawing



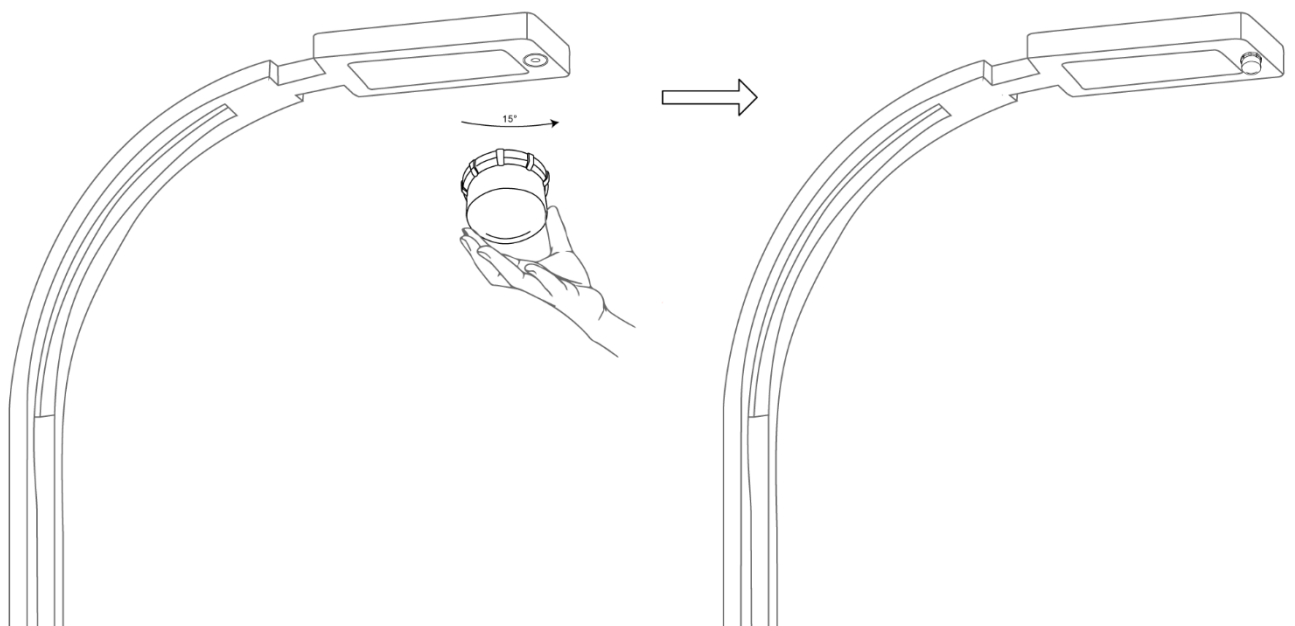
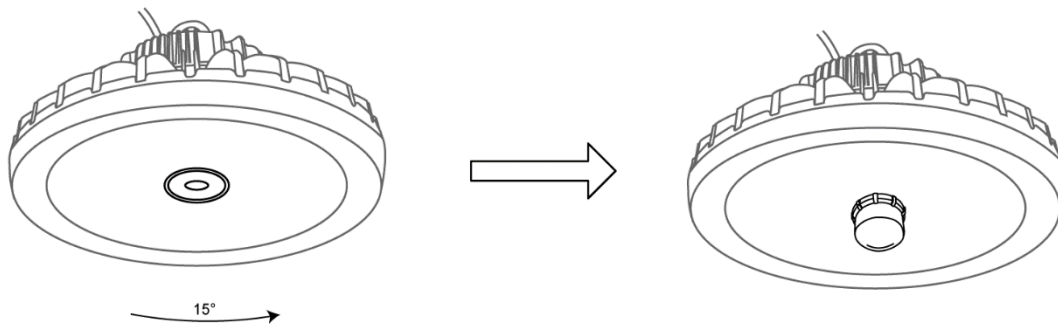


Product Description

The HSSA18-MWZ sensor enables both individual device control and group interconnection control of multiple devices through Zigbee network mesh.

By using the infrared remote controller (HRC01) for parameter settings, it does not only allow for easy control over a single device but also the sensor supports network connections between multiple devices, enabling them to be grouped together and achieve group interconnection control.

This functionality provides users with greater flexibility in controlling and managing multiple lighting luminaires.





Product Parameter

Model Number	Smart Modules	input voltage	Maximum quantity in one group	Output voltage	Communication distance	Maximum detection range (Diameter)	Microwave band	Illuminance detection range
HSSA18-MWZ-VA-OTA-3.0	ZigBee Dimming	DC12V (The auxiliary supply current requirement is 200mA and the ripple requirement is < 200mV)	70	0-10V 10mA	30m	-	-	-
HSSA18-MWZ-VA-MID-OTA-3.0	ZigBee Dimming + MID		30			12m	5.8 GHz ±75 MHz	0-2000Lux
HSSA18-MWZ-VA-ID-OTA-3.0	ZigBee Dimming + ID		70			-	-	
HSSA18-MWZ-VB-MID-OTA-3.0	ZigBee Dimming + MID		30		15m	12m	5.8 GHz ±75 MHz	

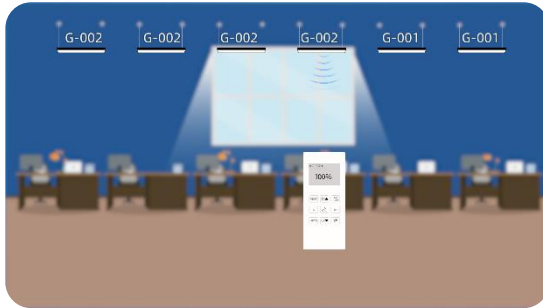
Remark: MID = Microwave motion sensor + Infrared Daylight Sensor , ID= Infrared Daylight Sensor

Package

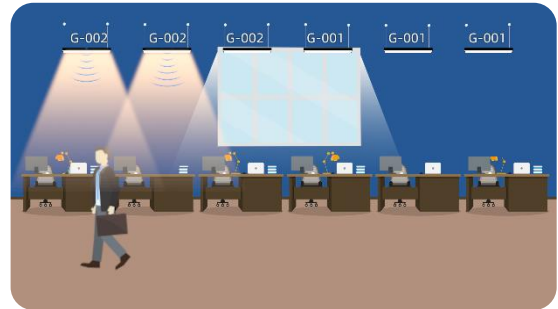
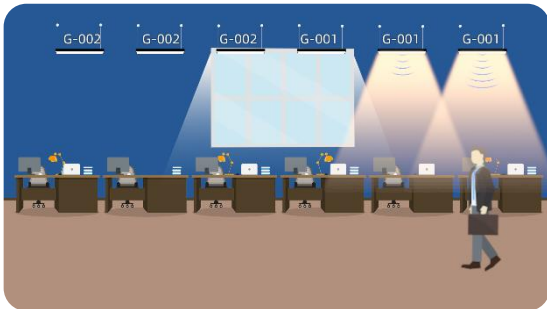
Model Number	Net Weight (g)	Gross Weight	Product Size (g)	Package Size (mm)	Package
HSSA18-MWZ-VA-OTA-3.0	29.6	35.3	Φ51*36.8	53*53*38	1Pcs/Box
HSSA18-MWZ-VA-MID-OTA-3.0	32.6	38.3	Φ51*36.8	53*53*38	1Pcs/Box
HSSA18-MWZ-VA-ID-OTA-3.0	29.6	35.3	Φ51*36.8	53*53*38	1Pcs/Box
HSSA18-MWZ-VB-MID-OTA-3.0	32.6	38.3	Φ51*36.8	53*53*38	1Pcs/Box



Typical Working Scenarios



The “Magic Wand” smart lamps of HOMA are embedded with motion sensor and daylight sensor, using a “Magic Wand” remote control, users can set grouping and parameters very fast and convenient. By adopting the standard ZigBee technology, “Magic Wand” 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 magic wand 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.