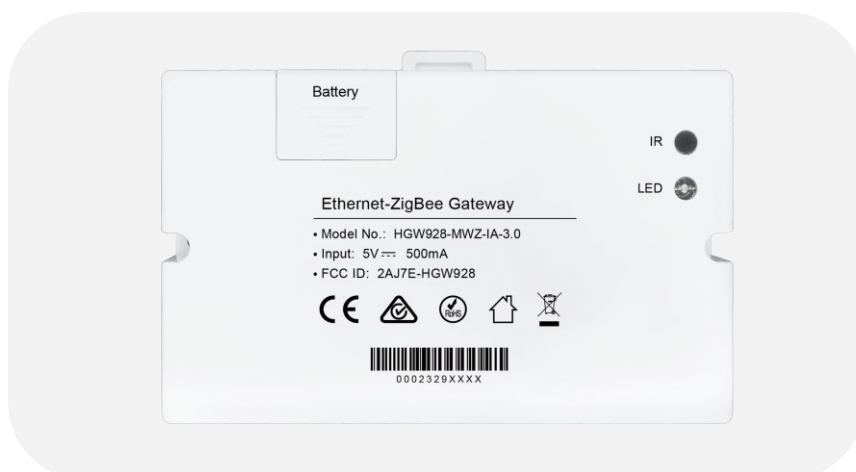




www.mawalighting.com



Magic Wand

Gateway HGW928

Up to support 50 Magic Wand luminaires



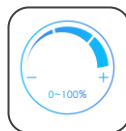
ZigBee Mesh
Network Control



Zoning & Grouping



Magic Wand
Remote Control



Dimming Control



ON/OFF

CE RoHS



Applications

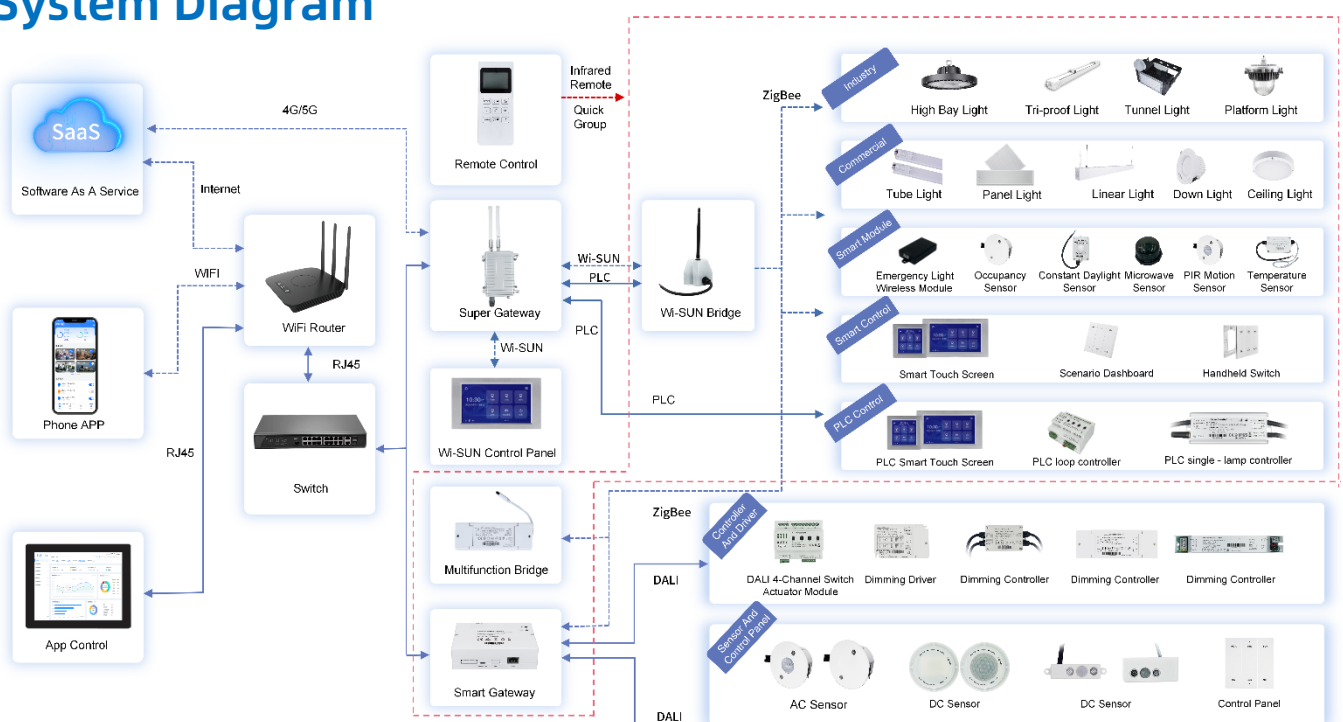
- Shopping Mall
- Office
- Manufacture
- Warehouse
- Exhibition Hall
- Station

Features

- Embedded 100M Ethernet Controller
- ZigBee mesh network smart controls
- Input voltage 5V, micro USB adapter
- 1 Administrator account
- 32 scenarios are supported
- 20 devices or groups per scenario
- Supports 180 timing slices
- Each time slice supports 10 devices or groups
- Multiple gateways are supported on a LAN
- Support POE power supply (special POE version)
- Support OTA upgrade
- 50 Magic Wand luminaires
- Supports 70 common ZigBee devices
- Supports fewer than 128 DALI devices and 70 ZigBee devices in mixed-use mode (MWZD version)



System Diagram





Product Data

General Information

Protection class IEC	IP20
Warranty	5 Years Warranty
Certificate	CE, RoHS

Application Conditions

Operating Temperature	-20 °C to ~ 55 °C
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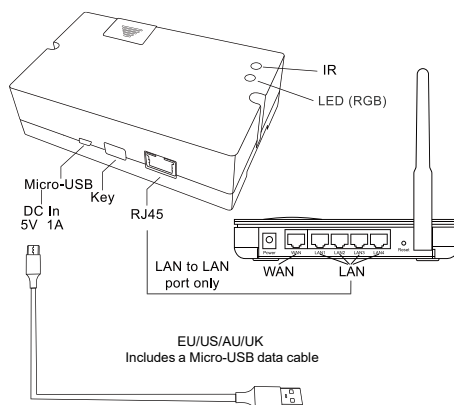
Mechanical and Housing

Structure Material	PC V0
Fixture Color	White

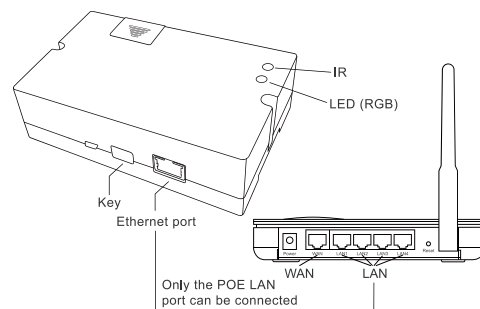
Wire Connection

Operating and Electrical

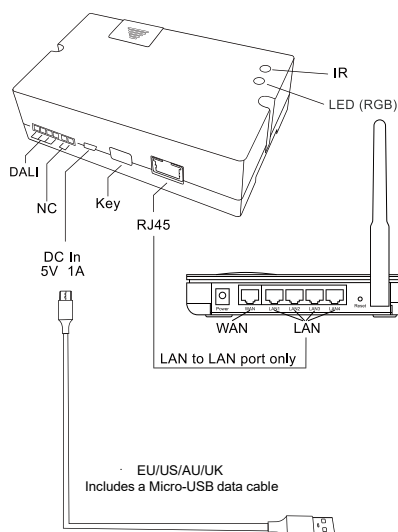
Input	DC 5V (1A MAX)
Ethernet	RG45
Frequency	2.4GHz
Standby Power	<0.5W
Surge Protection	1KV
Isolation Voltage	3750V
Infrared receiving distance	5m
Control Distance	IA、EA、EAC：30m BEA、BEAC：100m



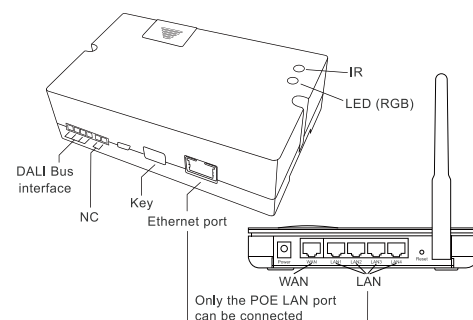
HGW928-MWZ-XX-XX-OTA-3.0



HGW928-MWZ-XX-XX-OTA-POE-3.0



HGW928-MWZD-XX-XX-OTA-3.0
(ZigBee + DALI version)

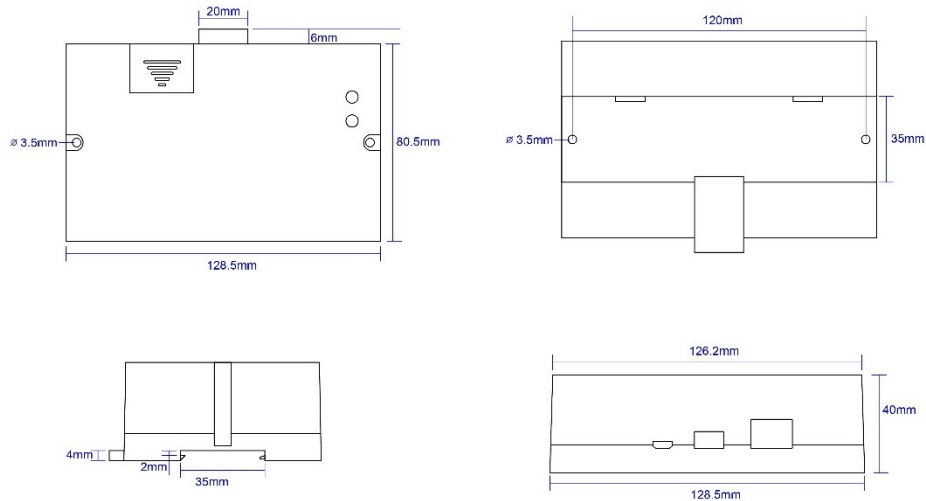


HGW928-MWZD-XX-XX-OTA-POE-3.0
(ZigBee + DALI version)

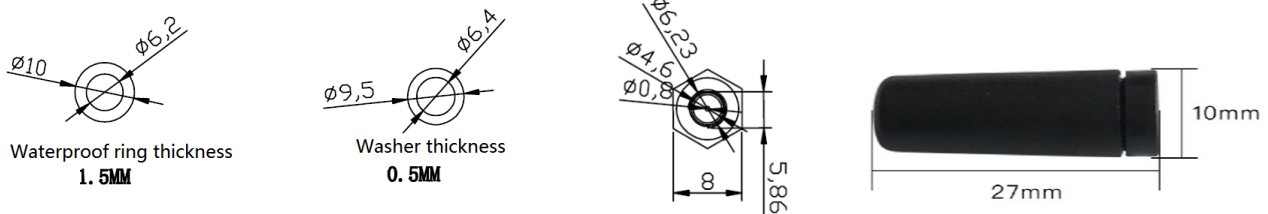


Product Dimensions

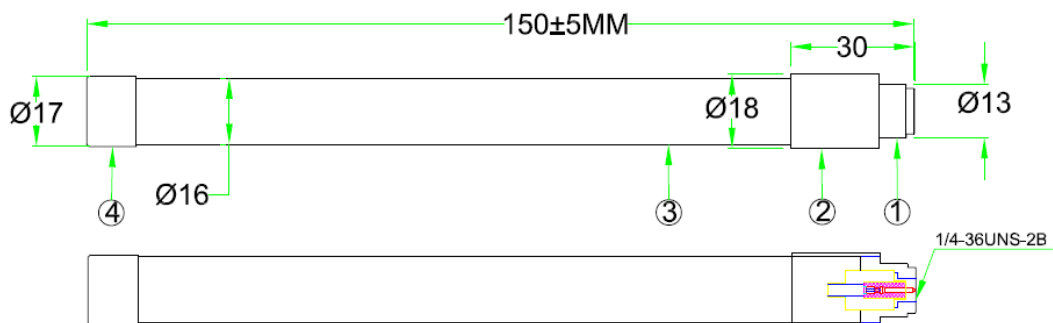
Housing dimensions (unit: mm)



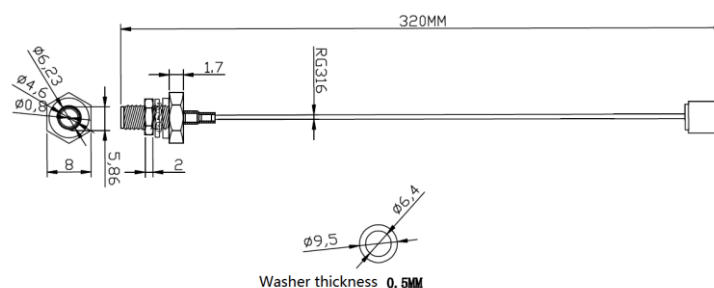
External antenna dimensions (unit: mm)



Big antenna dimensions (unit: mm)



External Cable Dimensions(unit: mm)





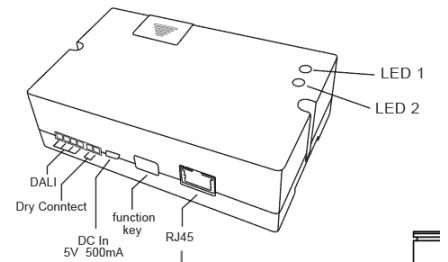
Button Function

- Short press (< 3 seconds) to send gateway information to the application software.
- Long press (> 3 seconds and < 8 seconds) to restore the login password of this gateway to 00000000, and set the gateway to DHCP mode.
- Long press (> 10 seconds) to clear the connection between the gateway and the SaaS account.

LED Indicator

The LED of gateway can do:

- RED LED - Indicates that the gateway connection fails
- Green LED - Indicates that the gateway is successfully connected
- Red/Green LED Flash - Searching for ZigBee devices



Battery

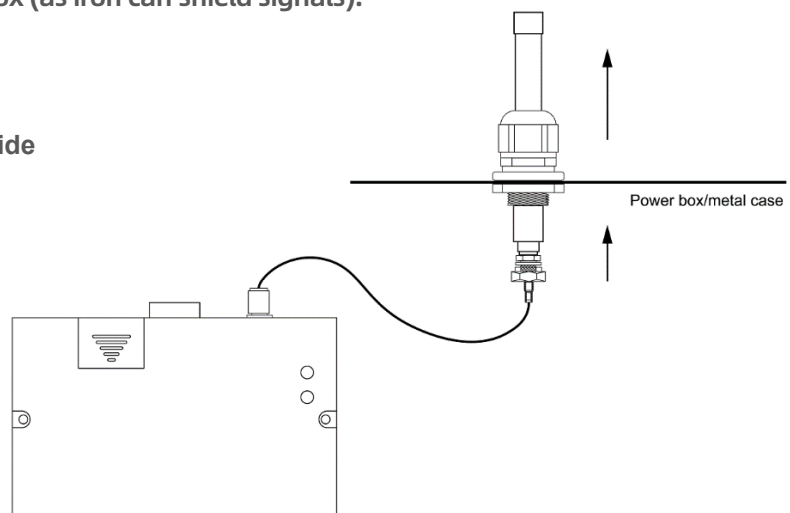
The gateway uses CR2032 batteries to power the real-time clock, so

- When the gateway is not connected to the Internet or mobile phone, the gateway power off and then power on again, the timing in the gateway can continue to work.
- When the battery is low, the application software displays a low battery warning.

Installation Instructions

- Set up a LAN environment: routers, switches, gateways, and servers are all on the same LAN.
- The network cable used by a gateway to connect to a router or switch must be less than 100m long.
- There should be at least 30cm of space between the gateway and the router.
- If the gateway is enclosed in a metal box, use an external antenna extension cable and install the antenna head outside of the metal box (as iron can shield signals).

External antenna version installation guide





Software Operation

- Download the iLightsin Sync app from the APP store then install the app
- Open the installed iLightsin Sync app after the gateway is powered on
- Register an account and log in to the gateway
- For detailed software operations, refer to the "iLightsin Sync Operation Manual.pdf"

Parameters

Adapter	EU(100-240Vac)	US(100-277Vac)	UK(100-240Vac)	AU(100-240Vac)	CN(100-240Vac)
Model	HGW928-MWZ-IA-EU-OTA-3.0	HGW928-MWZ-IA-US-OTA-3.0	HGW928-MWZ-IA-UK-OTA-3.0	HGW928-MWZ-IA-AU-OTA-3.0	HGW928-MWZ-IA-CN-OTA-3.0
	HGW928-MWZ-EA-EU-OTA-3.0	HGW928-MWZ-EA-US-OTA-3.0	HGW928-MWZ-EA-UK-OTA-3.0	HGW928-MWZ-EA-AU-OTA-3.0	HGW928-MWZ-EA-CN-OTA-3.0
	HGW928-MWZ-EAC-EU-OTA-3.0	HGW928-MWZ-EAC-US-OTA-3.0	HGW928-MWZ-EAC-UK-OTA-3.0	HGW928-MWZ-EAC-AU-OTA-3.0	HGW928-MWZ-EAC-CN-OTA-3.0
	HGW928-MWZ-BEA-EU-OTA-3.0	HGW928-MWZ-BEA-US-OTA-3.0	HGW928-MWZ-BEA-UK-OTA-3.0	HGW928-MWZ-BEA-AU-OTA-3.0	HGW928-MWZ-BEA-CN-OTA-3.0
	HGW928-MWZ-BEAC-EU-OTA-3.0	HGW928-MWZ-BEAC-US-OTA-3.0	HGW928-MWZ-BEAC-UK-OTA-3.0	HGW928-MWZ-BEAC-AU-OTA-3.0	HGW928-MWZ-BEAC-CN-OTA-3.0
Input	DC 5V (1A MAX)				
Ethernet	100M				
Frequency	2.4GHz				
Control Distance	IA 、 EA 、 EAC : 30m				
	BEA 、 BEAC : 100m				
Infrared Remote Control Distance	5m				
Operating Temperature	-20°C ~ 55°C				
Weight (Only Gateway)	140g (no external Antenna)				
Weight (Package)	273g (no external Antenna) Small Antenna+8g Big Antenna +57g External Cable: +17g	273g (no external Antenna) Small Antenna+8g Big Antenna +57g External Cable: +17g	277g (no external Antenna) Small Antenna+8g Big Antenna +57g External Cable: +17g	270g (no external Antenna) Small Antenna+8g Big Antenna +57g External Cable: +17g	273g (no external Antenna) Small Antenna+8g Big Antenna +57g External Cable: +17g
Size	128.5*80.5*40mm				
Package Size	189*102*66mm				
Package	1PCS/package				
Housing Material	PC V0				



Adapter	EU(100-240Vac)	US(100-277Vac)	UK(100-240Vac)	AU(100-240Vac)	CN(100-240Vac)
Model	HGW928-MWZD-IA-EU-OTA-3.0	HGW928-MWZD-IA-US-OTA-3.0	HGW928-MWZD-IA-UK-OTA-3.0	HGW928-MWZD-IA-AU-OTA-3.0	HGW928-MWZD-IA-CN-OTA-3.0
	HGW928-MWZD-EA-EU-OTA-3.0	HGW928-MWZD-EA-US-OTA-3.0	HGW928-MWZD-EA-UK-OTA-3.0	HGW928-MWZD-EA-AU-OTA-3.0	HGW928-MWZD-EA-CN-OTA-3.0
	HGW928-MWZD-EAC-EU-OTA-3.0	HGW928-MWZD-EAC-US-OTA-3.0	HGW928-MWZD-EAC-UK-OTA-3.0	HGW928-MWZD-EAC-AU-OTA-3.0	HGW928-MWZD-EAC-CN-OTA-3.0
	HGW928-MWZD-BEA-EU-OTA-3.0	HGW928-MWZD-BEA-US-OTA-3.0	HGW928-MWZD-BEA-UK-OTA-3.0	HGW928-MWZD-BEA-AU-OTA-3.0	HGW928-MWZD-BEA-CN-OTA-3.0
	HGW928-MWZD-BEAC-EU-OTA-3.0	HGW928-MWZD-BEAC-US-OTA-3.0	HGW928-MWZD-BEAC-UK-OTA-3.0	HGW928-MWZD-BEAC-AU-OTA-3.0	HGW928-MWZD-BEAC-CN-OTA-3.0
Input	DC 5V (1A MAX)				
Ethernet	100M				
Frequency	2.4GHz				
DALI Channels	2 Channels				
Control Distance	IA、EA、EAC : 30m				
	BEA、BEAC : 100m				
	DALI Bus within 300m				
Infrared Remote Control Distance	5m				
Operating Temperature	-20°C ~ 55°C				
Weight (Only Gateway)	140g (no external Antenna)				
Weight (Package)	273g (no external Antenna) Small Antenna+8g Big Antenna +57g External Cable: +17g	273g (no external Antenna) Small Antenna+8g Big Antenna +57g External Cable: +17g	277g (no external Antenna) Small Antenna+8g Big Antenna +57g External Cable: +17g	270g (no external Antenna) Small Antenna+8g Big Antenna +57g External Cable: +17g	273g (no external Antenna) Small Antenna+8g Big Antenna +57g External Cable: +17g
Size	128.5*80.5*40mm				
Package Size	189*102*66mm				
Package	1PCS/package				
Housing Material	PC V0				
Input	DC 5V (1A MAX)				

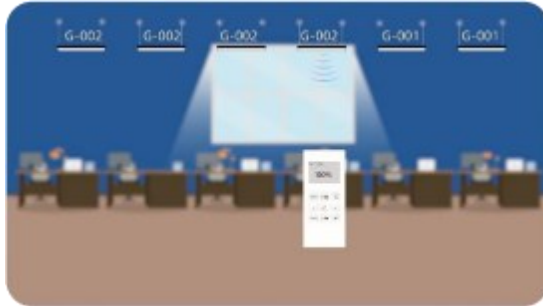


Model	HGW928-MWZ-IA-OTA-POE-3.0	HGW928-MWZ-EA-OTA-POE-3.0	HGW928-MWZ-EAC-OTA-POE-3.0	HGW928-MWZ-BEA-OTA-POE-3.0	HGW928-MWZ-BEAC-OTA-POE-3.0
Input	POE				
Ethernet	100M				
Frequency	2.4GHz				
Control Distance	IA 、 EA 、 EAC : 30m				
	BEA 、 BEAC : 100m				
	5m				
Infrared Remote Control Distance	-20°C ~ 55°C				
Operating Temperature	168g (no external Antenna)				
Weight (Only Gateway)	258g (no external Antenna) Small Antenna+8g Big Antenna +57g External Cable: +17g				
Weight (Package)	128.5*80.5*40mm				
Size	189*102*66mm				
Package Size	1PCS/package				
Package	PC V0				

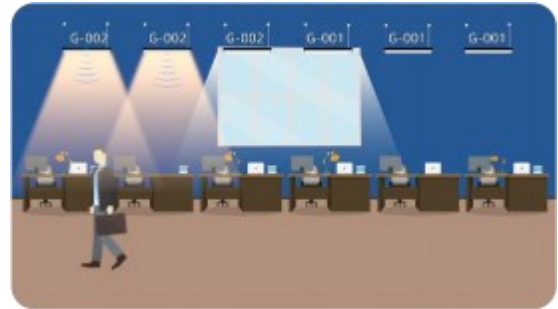
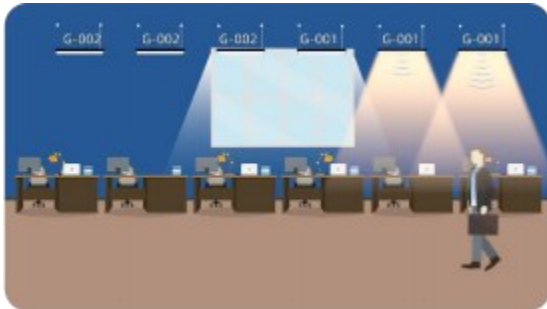
Model	HGW928-MWZD-IA-OTA-POE-3.0	HGW928-MWZD-EA-OTA-POE-3.0	HGW928-MWZD-EAC-OTA-POE-3.0	HGW928-MWZD-BEA-OTA-POE-3.0	HGW928-MWZD-BEAC-OTA-POE-3.0
Input	POE				
Ethernet	100M				
Frequency	2.4GHz				
DALI Channels	2 Channels				
Control Distance	IA 、 EA 、 EAC : 30m				
	BEA 、 BEAC : 100m				
	DALI Bus within 300m				
Infrared Remote Control Distance	5m				
Operating Temperature	-20°C ~ 55°C				
Weight (Only Gateway)	172g (no external Antenna)				
Weight (Package)	262g (no external Antenna) Small Antenna+8g Big Antenna +57g External Cable: +17g				
Size	128.5*80.5*40mm				
Package Size	189*102*66mm				
Package	1PCS/package				
Housing Material	PC V0				



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.