# JL-712B2 Zhaga Book-18 Zhaga Controller



## Product Summary

JL-712B2 is based on ZHAGA BOOK18 interface standard development of intelligent lock type light controller, using light sensing + microwave mobile combination sensor, can output 0~10V dimming signal, at the same time equipped with Bluetooth mesh communication network, can be controlled and configured through APP. The lamp controller is suitable for roads, lawns, courtyards, parks, parking lots, industrial mines and other lighting scenes. The special envoy is the UFO lamp with zhaga socket.

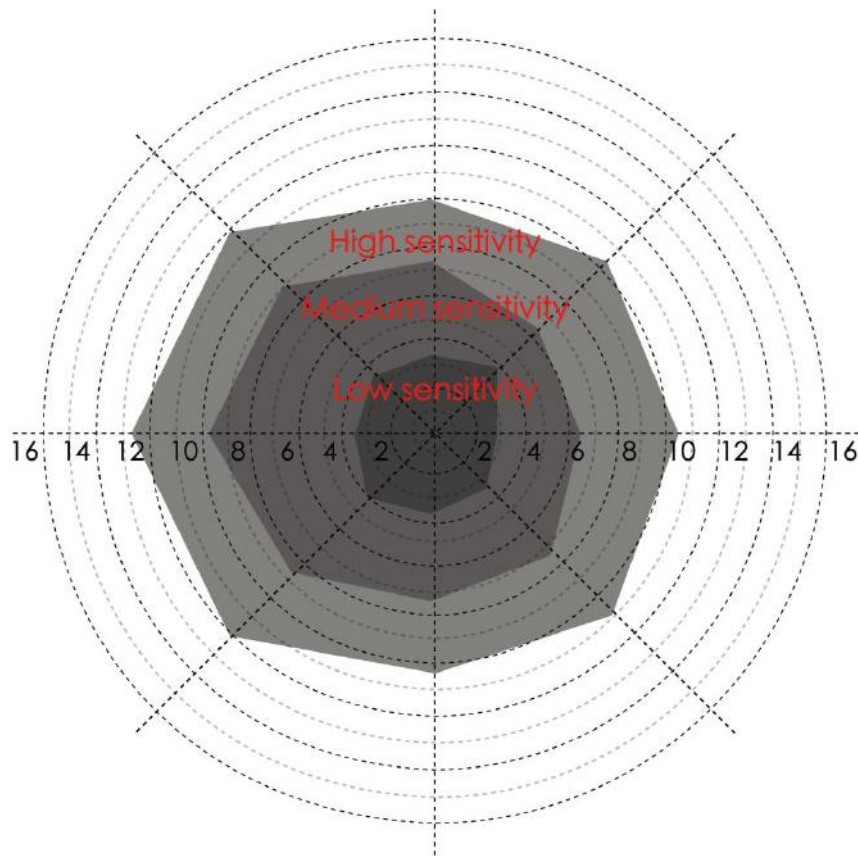## Product size chart

# Parameters

| | |
|---|---|
| Model | JL-712B2 |
| Power Supply | Rated voltage：12~24VDC<br>Rated current：40mA |
| Power Consumption | < 0.6W |
| Sensor Type | Light-sensitive + Microwave |
| Spectral Acquisition Range | 350~1100nm，Peak wavelength 550nm |
| Maximum hanging height of microwave | 15M |
| Sensing radius | 6-10m (by 15m hanging height) |
| Anti-jump delay | 3S (minimum interval time for turning on the light after the light is off) |
| Hold time | Default 30S，APP adjustable |
| Stand-By brightness | Default 0%，APP adjustable |
| Stand-By time | Default 5S，APP adjustable |
| Dimming interface | Type：0~10V<br>Accuracy：±2% |
| Turn on Illuminance | APP adjustable, divided into 5 levels:<br>Daytime: any illuminance<br>Dusk: about 60 Lux<br>Evening: about 30 Lux<br>Night: about 8.2 Lux<br>Late at night: about 0 Lux |
| Energy saving strategy | custom |
| Mechanical Vibration | IEC60068-2-6 |
| Flammability Level | UL94-V0 |
| Operating Temperature | -40°C~70°C |
| Storage Temperature | -40°C~85°C |
| Operating Humidity | 5%RH~99%RH |
| IP Level | IP66 |

| Certifications | CE  RoHS |
|---|---|



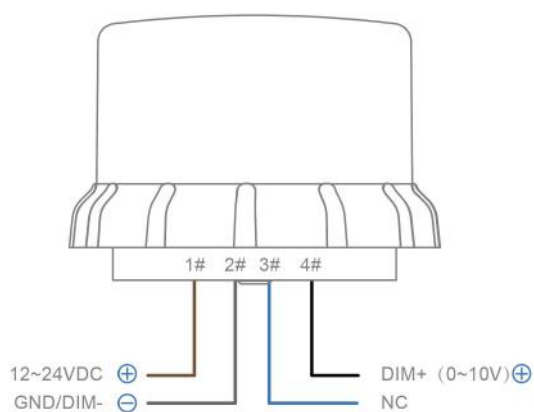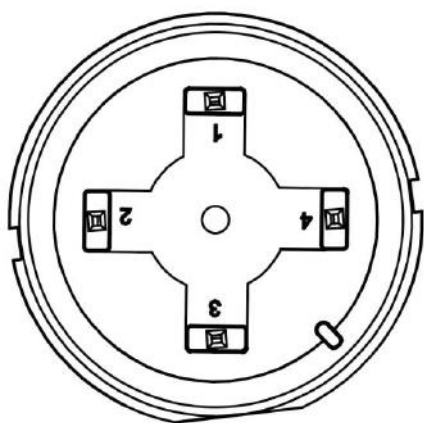Schematic diagram of microwave induction - indoor installation at a height of 15 meters

# Features

- 12 to 24 VDC power supply, low power consumption
- ZHAGA BOOK18 interface standard
- Automatic dynamic microwave frequency adjustment to avoid mutual interference in dense installation
- Φ50*36mm size, suitable for installation in most lamps
- 0~10V dimming interface
- Light sensor + microwave sensor, on-demand lighting, more power saving
- 15m hanging height
- BLE MESH
- Support third-party voice control, such as Alexa, Google Assistant, SmartThings, IFTTT, Xiaodu, Tencent Xiaowei, Dingdong, etc.
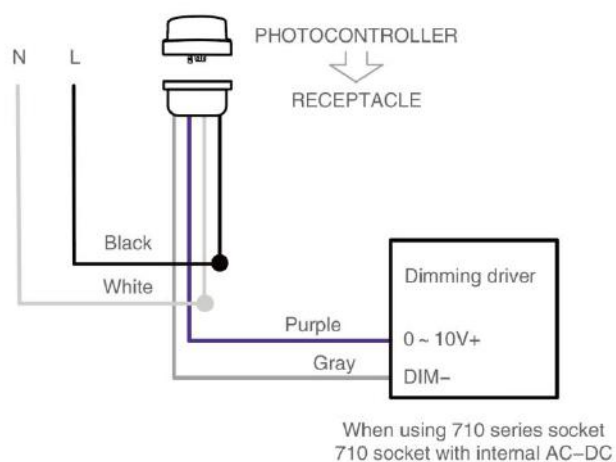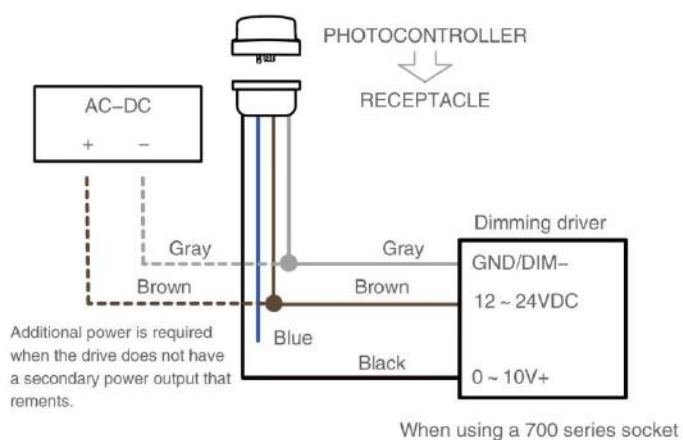
- IP66

## PIN

| PIN | Definition | Type |
|-----|-----------|------|
| 1 | 12~24VDC | Power Input |
| 2 | GND/DIM- | Power Input |
| 3 | NC | NC |
| 4 | DIM+ （0~10V+） | Signal Output |



## Wiring diagram



When using a 700 series socket

When using 710 series socket
710 socket with internal AC-DC

# Installation

The interface of the product itself has been fool-proof design, the installation only need to tighten the controller directly to the rotatable base, as shown in Figure clockwise after insertion.



Street lamp                    Mining lamp

# Socket recommendation

| Model | Type | Picture |
|-------|------|---------|
|       |      |         |

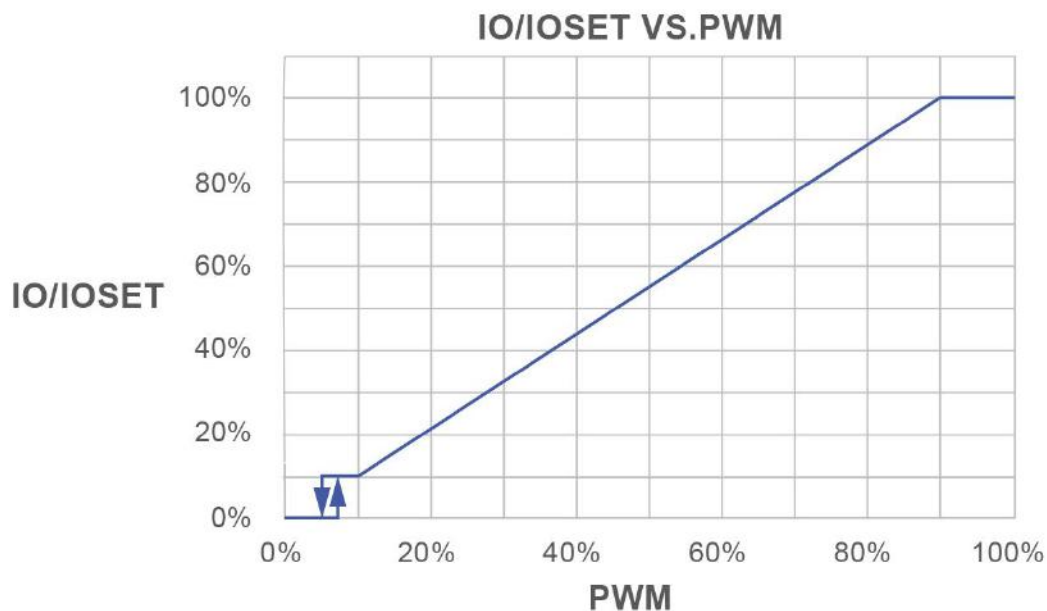| | | |
|---|---|---|
| **JL-700** | General |  |
| **JL-700W** | Without cable |  |
| **JL-700S** | Short thread |  |
| **JL-700T** | Pin |  |
| **JL-770** | US（Z10） |  |
| **JL-710** | built-in 24VDC<br>power supply |  |

# APP application

Please view the special introduction document or video.

# Attentions

    1）If the negative pole of the auxiliary power supply of the driver is separated from the negative pole of the dimming interface, they need to be shorted and connected to the light controller # 2.

    2）If the light controller is installed very close to the light source surface of the lamp and the lamp power is relatively large, it may exceed the limit of the reflected light compensation and appear to turn off itself.

    3）Because the ZHAGA light controller does not have the ability to cut off the AC power supply of the driver, the customer needs to select a driver with an output current close to 0mA when using the ZHAGA light controller, otherwise the phenomenon that the lamp cannot be completely turned off may occur. As shown in the output current curve of the driver specification, the lowest output current is close to 0mA.



    4）The light controller only outputs the dimming signal to the driver, regardless of the power load of the driver and the light source.

    5）Don't use your fingers to block photosensitive window, it is likely that the lights will fail to turn on because of the light passing through your fingers.

7