

The image displays four views of the JL-712B2A2 light control unit. The top view shows the circular face with a green background and white text. It includes the model number 'JL-712B2A2', the brand 'CASAMBI', and the text 'Light Control' and 'LONGJOIN'. The face also features a diagram of a light fixture with four terminals labeled 1, 2, 3, and 4, and voltage ratings: '0-10V+' for terminals 1 and 2, 'GND/' for terminal 3, and '0-10V-' for terminal 4. A '24V+' rating is also present. The front view shows the unit's black, dome-shaped top and its mounting bracket. The side view shows the unit's profile and the 'JL-712B2A2' model number. The bottom view shows the unit's base and mounting bracket.

The JL-712B2A2 light controller product is a smart latch type light controller developed based on the Zhaga Book-18 interface standard. It uses a combination of light sensing and microwave sensing sensors, can output 0-10V dimming signals, and support Casambi Bluetooth mesh communication network. It can be controlled by Bluetooth near field, or be controlled remotely by Bluetooth gateway. You can configure parameters and scenarios using the Casambi APP . This light controller is suitable for lighting scenarios such as roads, lawns, courtyards, parks, parking lots, factories, warehouses, etc.

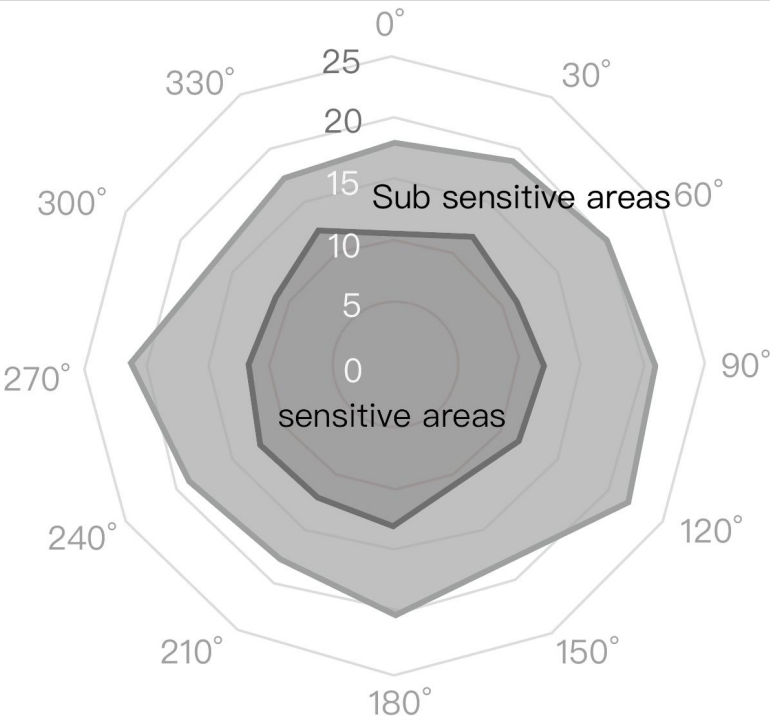
- 12-24VDC power supply, low power consumption
- Zhaga Book-18 interface standard
- 0-10V dimming mode
- Dynamic adjustment of microwave frequency to avoid mutual interference during dense installation

- $\Phi$  50.4 \* 35mm compact size, suitable for installation on various lighting fixtures
- Light sensitivity+microwave, on-demand lighting, more energy-efficient
- Visible light filtered photosensitive sensor
- High performance microwave, with a hanging height of 15 meters and an induction radius of  $\geq 10$  meters
- CASAMBI BLE MESH
- IP66

## Parameters

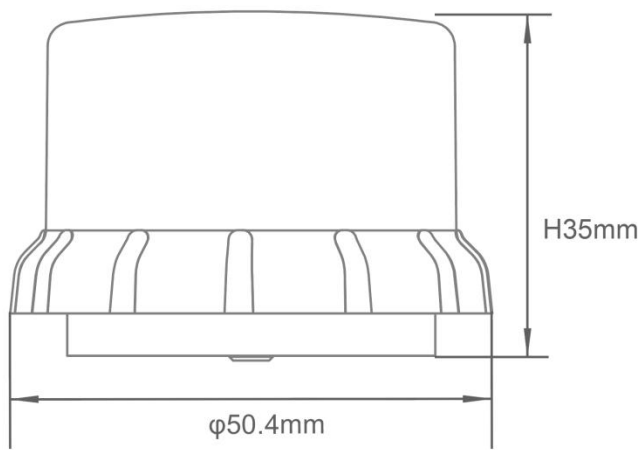
|                        |                                                               |
|------------------------|---------------------------------------------------------------|
| Power supply           | Voltage: 12-24VDC<br>Current: 12V/35mA; 24V/25mA              |
| Power dissipation      | $<0.385\text{W}$ (12V) ; $<0.55\text{W}$ (24V)                |
| Dimming                | 0-10V                                                         |
| Sensors                | Light sensitivity+microwave                                   |
| Spectral range         | 800~1100nm                                                    |
| Microwave frequency    | 5.8GHz                                                        |
| Maximum hanging height | 15 meters                                                     |
| Induction radius       | $\geq 10$ meters                                              |
| Start-up time          | $<200\text{ms}$                                               |
| Sensitivity            | Default 80%, adjust through APP                               |
| Scene                  | Custom scenes can be created and edited through the APP       |
| mechanical vibration   | IEC60068-2-6                                                  |
| Flammability Level     | UL94-V0                                                       |
| Operating Temperature  | $-40\text{ }^{\circ}\text{C} \sim 70\text{ }^{\circ}\text{C}$ |
| Storage Temperature    | $-40\text{ }^{\circ}\text{C} \sim 85\text{ }^{\circ}\text{C}$ |
| Operating Humidity     | 5% RH~99% RH                                                  |

|                |                 |
|----------------|-----------------|
| IP Level       | IP66            |
| Certifications | CE, ZHAGA, ROHS |



Microwave induction schematic diagram - installation at a height of 15 meters

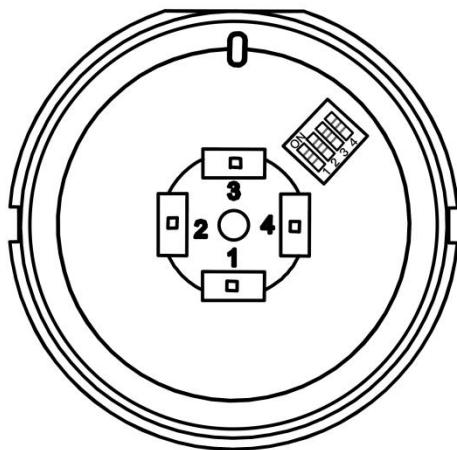
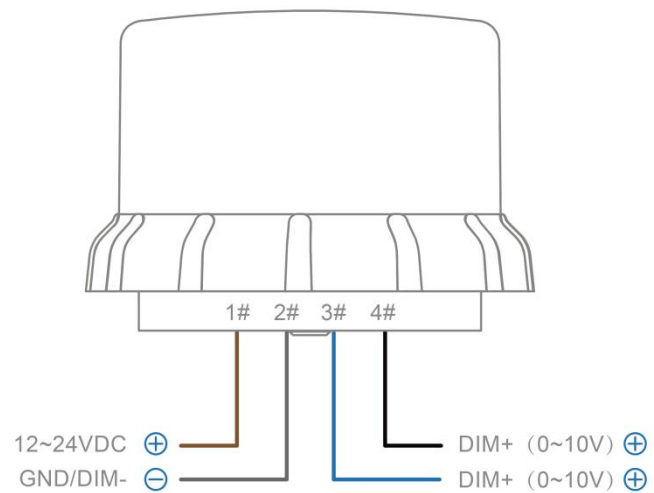
Dimension



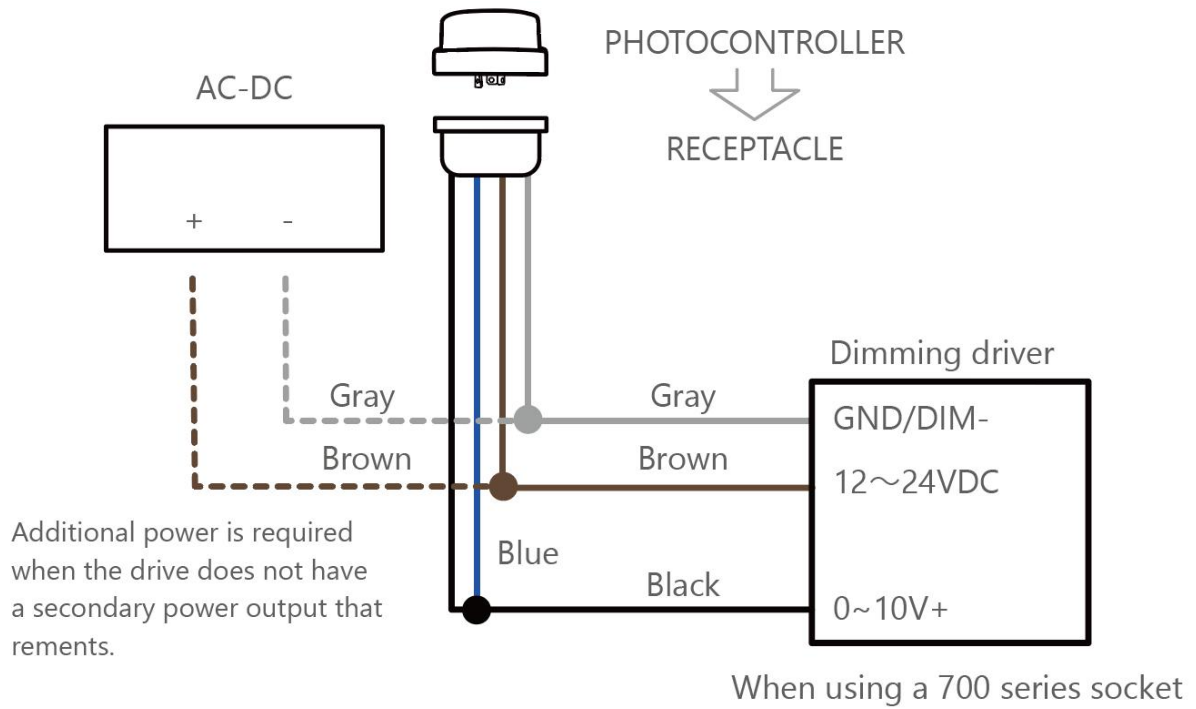
## Pin

| Pin number | Pin Definition | Types of      |
|------------|----------------|---------------|
| 1          | 12~24VDC       | Power input   |
| 2          | GND/DIM-       | Power input   |
| 3          | DIM+ (0-10V+)  | Signal output |
| 4          | DIM+ (0-10V+)  | Signal output |

Note: Both # 3 and # 4 output dimming positive electrodes at the same time. When wiring the socket, either one of them can be connected to the driver or both can be connected simultaneously. If not connected, it is recommended to use insulation wrapping treatment



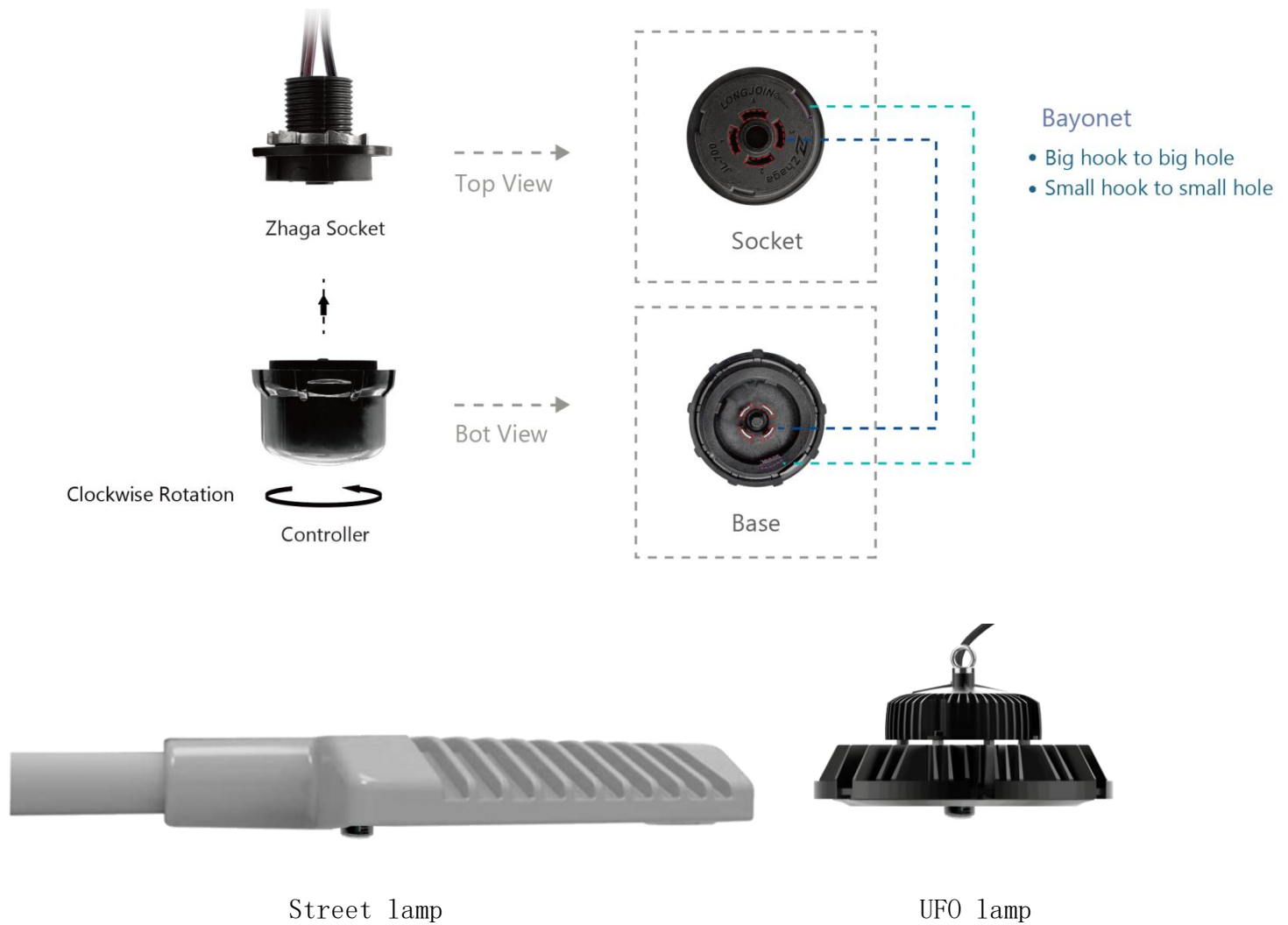
## Wiring diagram



Note: Either the black or blue line can be selected, and it can also be connected in parallel at the same time.

# Install

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.

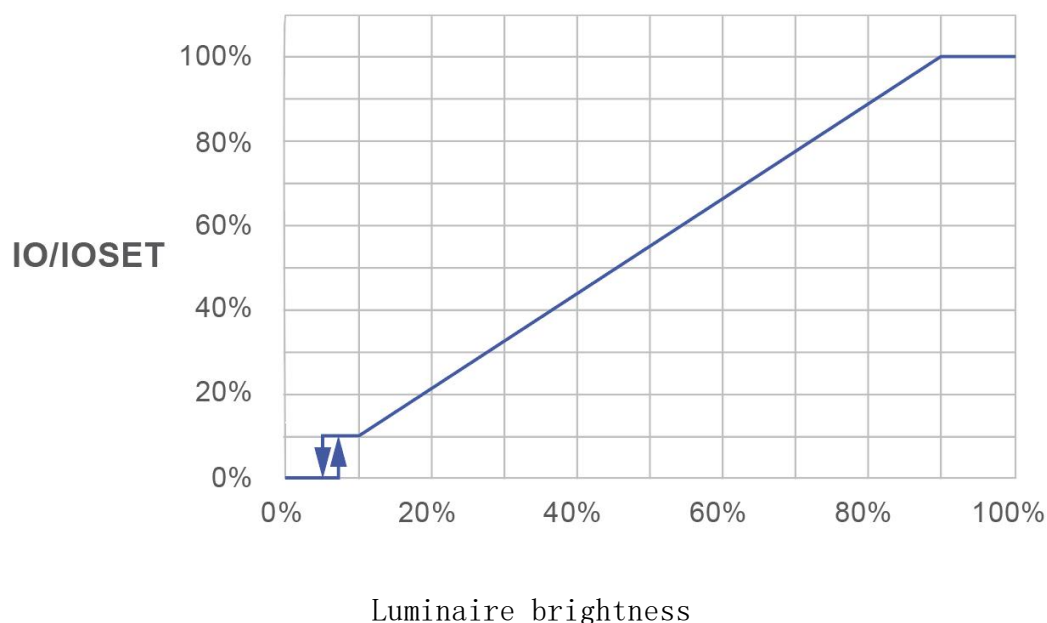


Recommended socket selection

| Model   | Feature        | Picture                                                                                                                                                                                   |
|---------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| JL-700  | Normal         |  A black, cylindrical socket with a threaded base and two blue wires extending from the bottom.        |
| JL-700W | Self plugging  |  A black, cylindrical socket with a threaded base and a self-plugging mechanism.                       |
| JL-700S | Short threaded |  A black, cylindrical socket with a short threaded base and two blue wires extending from the bottom. |
| JL-700T | Probe          |  A black, cylindrical socket with a threaded base and a probe mechanism.                             |
| JL-710  | AC power       |  A black, cylindrical socket with a threaded base and a white circular base, designed for AC power.  |

## Precautions

1. If the negative pole of the auxiliary power supply of the driver is separate from the negative pole of the dimming interface, they need to be short circuited and connected to the light controller # 2.
2. This product is mainly used for LED lamps, tungsten filament lamps and other lamps with a wide spectrum may turn off again after turning on the light.
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 a dimming signal to the driver, regardless of the power load of the driver and light source.
5. When testing, do not use your fingers to block the photosensitive window, as the gaps between your fingers may pass through and cause the light to fail to turn on.
6. There should be no metal objects obstructing the microwave induction radiation angle, otherwise it will seriously reduce the induction performance.

7. If used in outdoor scenes, rain and swaying trees may turn on the light by mistake.
8. Avoid hanging installation to prevent the product from shaking and turn on the light by mistake.
9. The sensing performance will be affected by the installation environment, lighting fixtures, the size and speed of the tester, and the detection range may vary.
10. The microwave preheating time is 5 seconds max, which means that the motion detection signal can only be triggered after the microwave module is powered on for 5 seconds max.