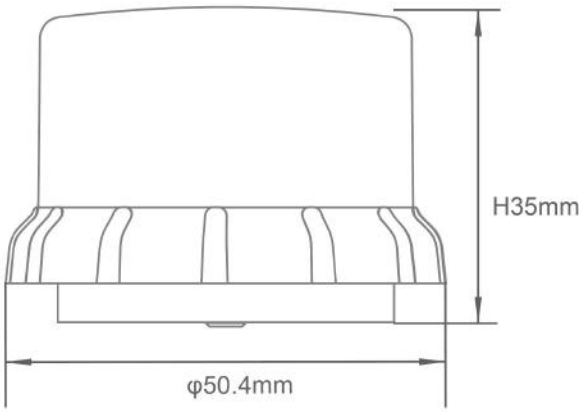
JL-712A3 Zhaga Book-18 Zhaga Controller

Product Summary

JL-712A3 light controller products are intelligent rotary lock light controllers developed based on ZHAGA BOOK18 interface standard.It adopts light sensing and microwave mobile combined sensor, which can output 0~10V dimming signal.
The light controller is suitable for lighting scenes such as roads,lawns, courtyards, parks, car park and construction site.

Product size chart



Parameters

Model	JL-712A3
Power Supply	Rated voltage：12~24VDC Rated current：12V/45mA；24V/30mA
Power Consumption	12V/3.5mA；24V/3.5mA
Dimming	0/10V
Spectral Acquisition Range	350~1100nm，Peak wavelength 550nm
Dimming interface	Type：0~10V ； Accuracy：±2% ； Drive current：40mA (Typical)
Turn on Illuminance	50Lux（±10）
Turn off Illuminance	Reflected light + 40Lux（±10）after each turn on Lower limit：50+40Lux（±10） ； Upper limit：6000Lux（±100）
Reflected light compensation upper limit	6000Lux（±100）
Initialization	After power on, the light is turned on by default and maintains 5S, then automatically turns off the light and enters the auto-sensing operation mode *1
Turn on delay	5S
Turn off delay	60S
0%~20%；20%~100% Brightness change time	1S
100%~20%；X%~0% Brightness change time	8S
100% brightness hold time after microwave trigger	30s
Stand-by Dimming	20%
Maximum hanging height of microwave	15M
Sensing radius	4-8M (by 15m hanging height)
Microwave induction angle	92°
Microwave anti-false trigger	Can prevent wind, rain, leaves, and small animals

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

Note:

*1:

a). If the light-emitting surface of the lamp is completely shielded and isolated from the light-sensitive surface of the

light controller when installed, that is, no reflected light enters the light controller after the lamp is illuminated,

then the light-off illuminance at this time is equal to the lower limit, that is, down The illuminance of the second

turn off is approximately = the default turn on illuminance + 40 lux compensation value = 50 + 40 = 90 lux;

b). If the installation fails to completely shield and isolate the light-emitting surface of the lamp and the light-sensitive

surface of the light controller, that is, the reflected light enters the light controller after the lamp is illuminated.

If thelamp is lit to 100%, the current environment collected by the light controller If the illuminance is 500lux, the

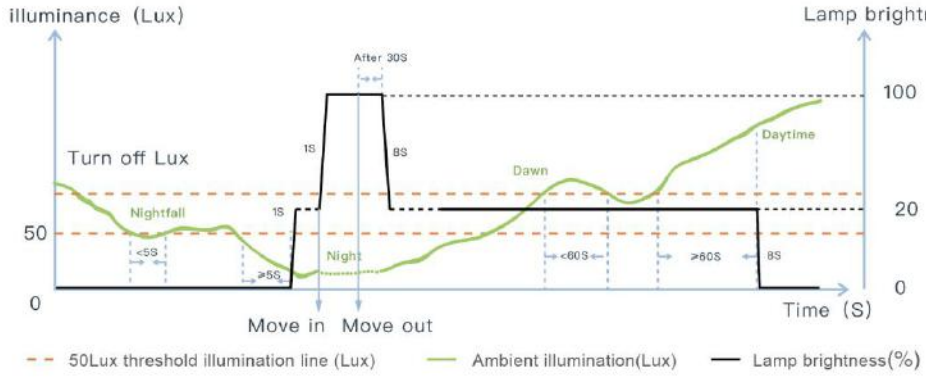
illuminance of the next turn off is approximately = the current ambient illuminance+40=540lux;

c). If the power of the lamp is high and the light-emitting surface is very close to the light-sensitive surface of the light

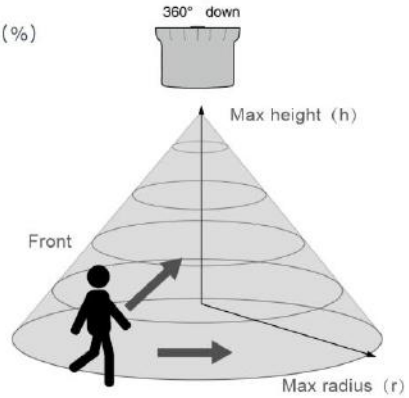
controller, the reflected light exceeds the upper limit of compensation after the lamp is turned on to 100%, that is,

the light controller detects that the ambient illuminance has been stable after turning on the light If it is greater than

6000lux, the light controller will automatically turn off the light after 60S.



Ambient illumination and lamp brightness schematic diagram



Microwave induction schematic

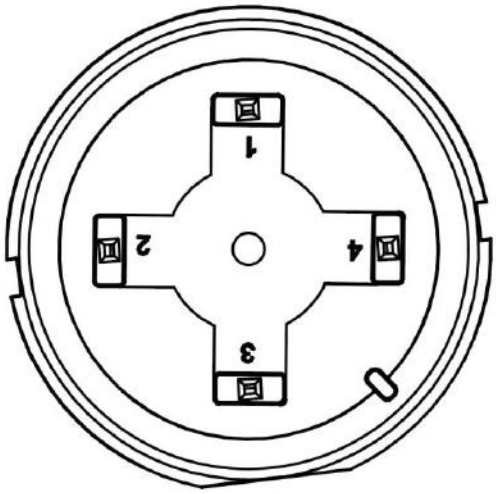
Features

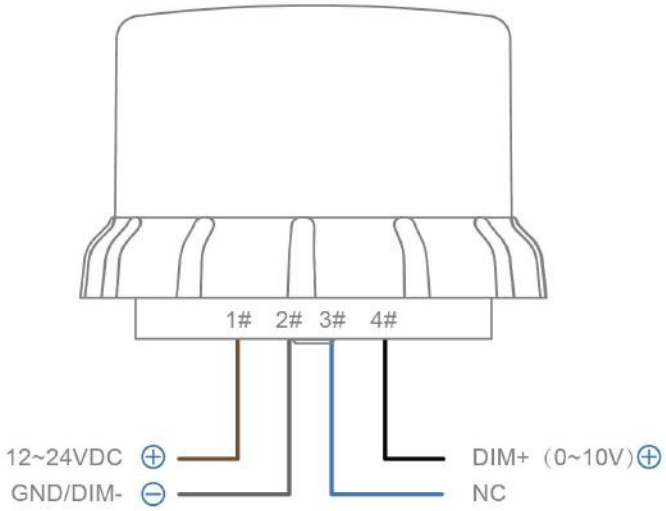
- light sense + microwave, lighting on demand, more humanized and power saving
- microwave anti false triggering, indoor and outdoor
- automatic dynamic microwave frequency adjustment to avoid mutual interference in dense installation
- comply with zhaga book18 interface standard
- DC power supply, ultra low power consumption
- support 0 ~ 10V dimming mode
- compact size, suitable for installation to various lamps
- anti false triggering design of interference light source
- reflected light compensation design of lamps
- waterproof protection grade up to IP66

PIN

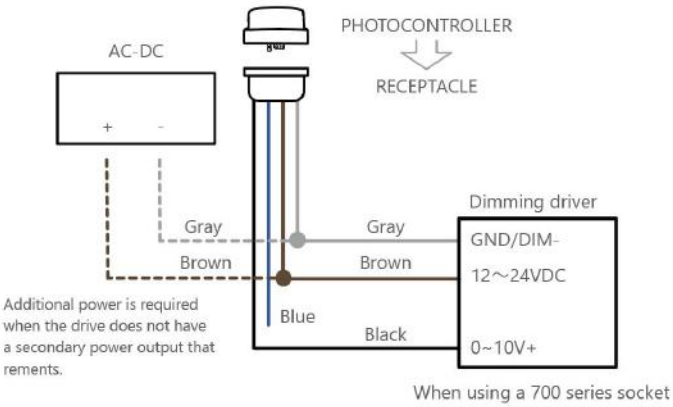
PIN	Definition	Type
1	12~24VDC	Power Input
2	GND/DIM-	Power Input

3	NC	Signal Output
4	DIM+ （0-10V+）	Signal Output

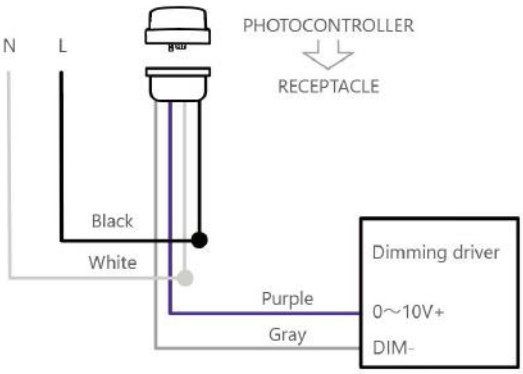




Wiring diagram



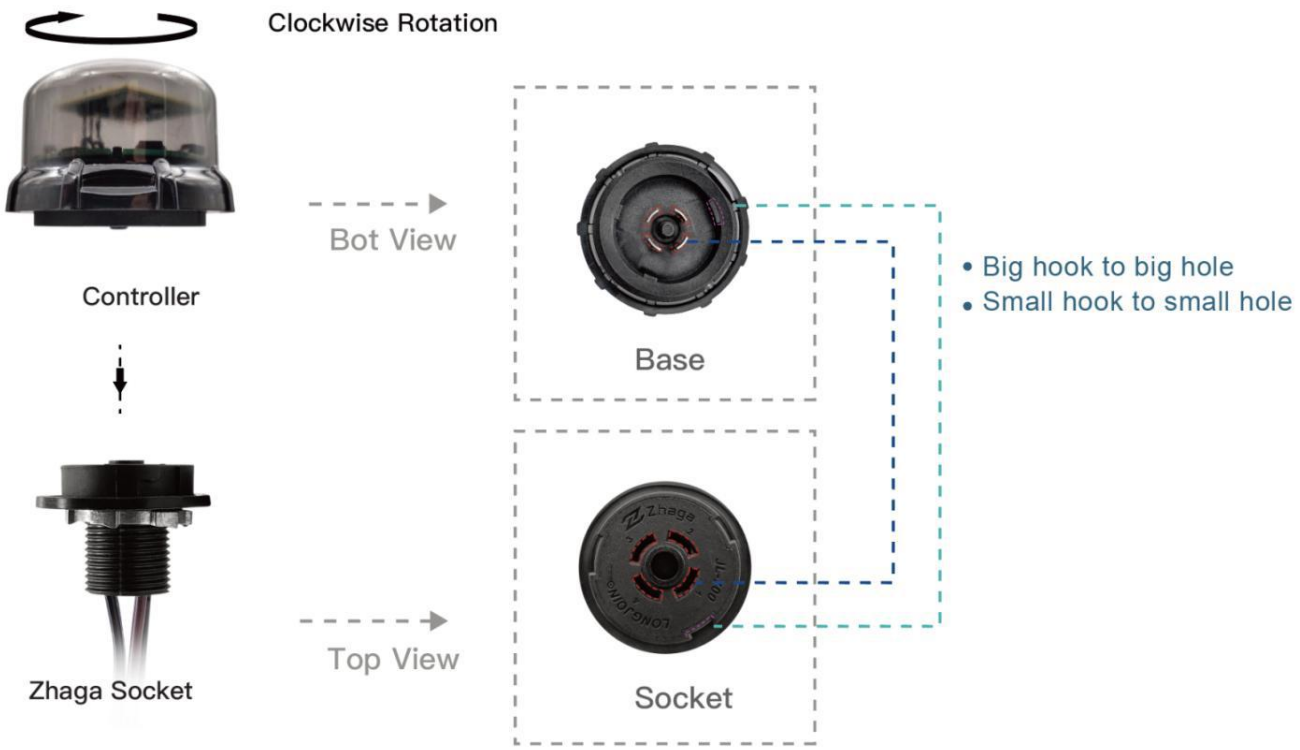
When using a 700 series socket



When using 710 series socket
710 socket (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.

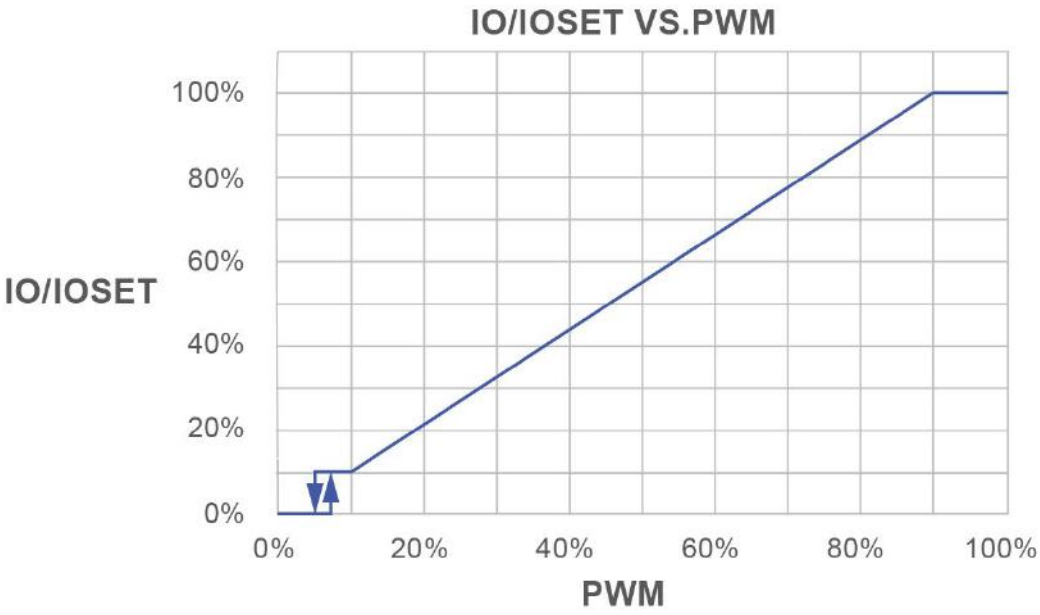


Attentions

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.

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.

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.



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

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.