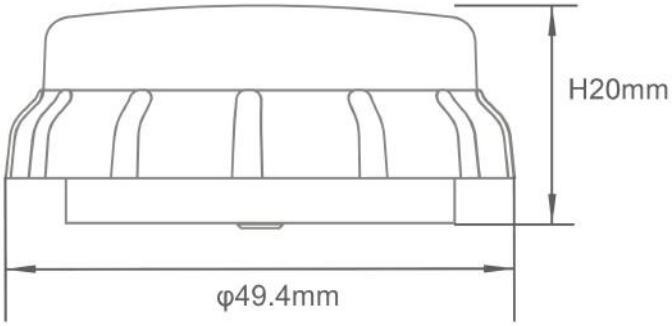
JL-701A Zhaga Book-18 Zhaga Controller

Product Summary

JL-701A is an ultra-low-cost electronic rotary lock light controller developed based on the ZHAGA BOOK18 interface standard. It can output 0V or 10V dimming signal through self-photosensitive.

The light controller is suitable for lighting scenes such as roads, lawns, courtyards, and parks.

1.1 Product size chart



1.2 Features

- ZHAGA BOOK18 interface standard
- ultra low cost
- compact size, suitable for installation to various lamps
- 1.5mA ultra low working current
- anti false triggering design of interference light source
- no load power consumption ≤ 0.12W
- environmental illumination ratio of switch action: 1:4
- power on: full on by default, 5S self-test
- protection grade: up to IP66

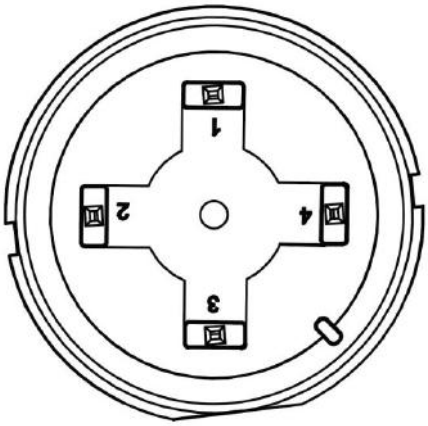
Parameters

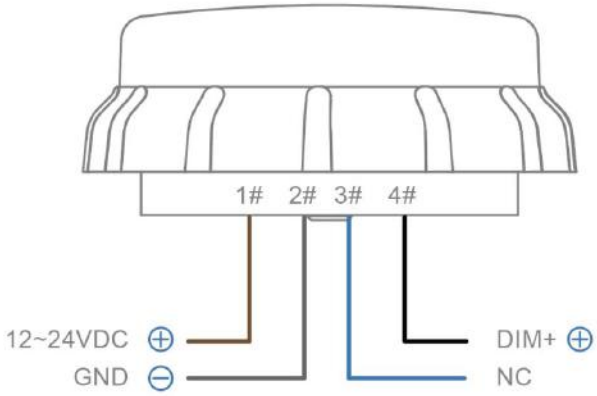
Model	JL-701A
Power Supply	Rated voltage：12~24VDC Rated current：3mA
Power Consumption	Day：12~24V/1.5mA Night：12~24V/1.2mA
Dimming	0/10V
Dimming interface	0V or suspended (OD gate output)
Spectral Acquisition Range	350~1100nm, Peak wavelength 550nm
Turn on Illuminance	16Lux（±10）
Turn off Illuminance	64Lux（±10）
Turn on delay	5S
Turn off delay	15S
Electrostatic	Standard: IEC61000-4-2 Contact Discharge: ±8kV, CLASS A Air Discharge: ±15kV, CLASS A

Immunity	
Mechanical Vibration	IEC60068-2-6
Flammability Level	UL94-V0
Operating Temperature	-40℃~70℃
Storage Temperature	-40℃~85℃
Operating Humidity	5%RH~99%RH
IP Level	IP66
Life	⩾ 8000 h
Certifications	

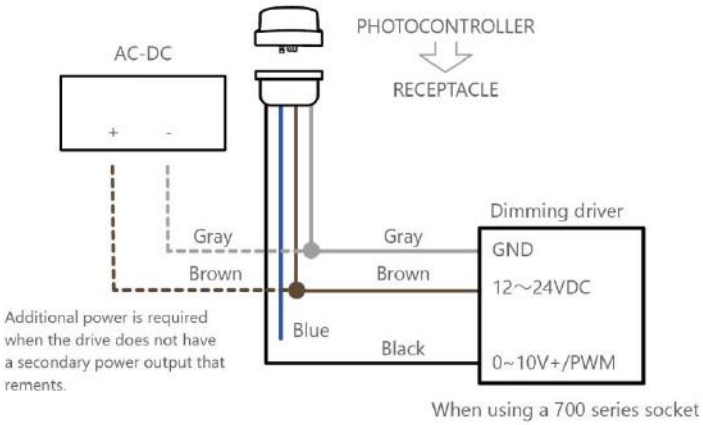
1.3 PIN

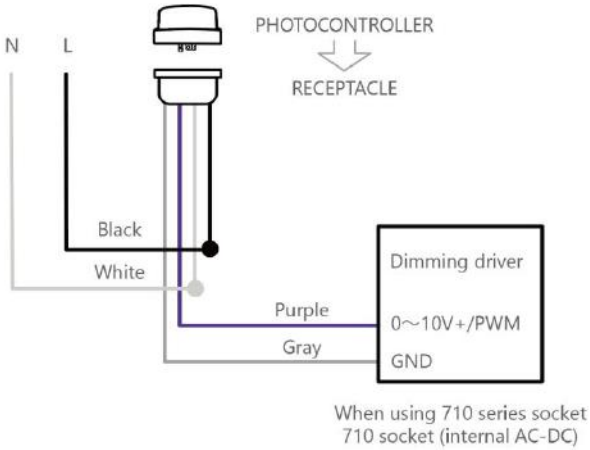
PIN	Definition	Type
1	12~24VDC	Power Input
2	GND/DALI-	Power Input
3	DALI+	Signal Output
4	NC	NC





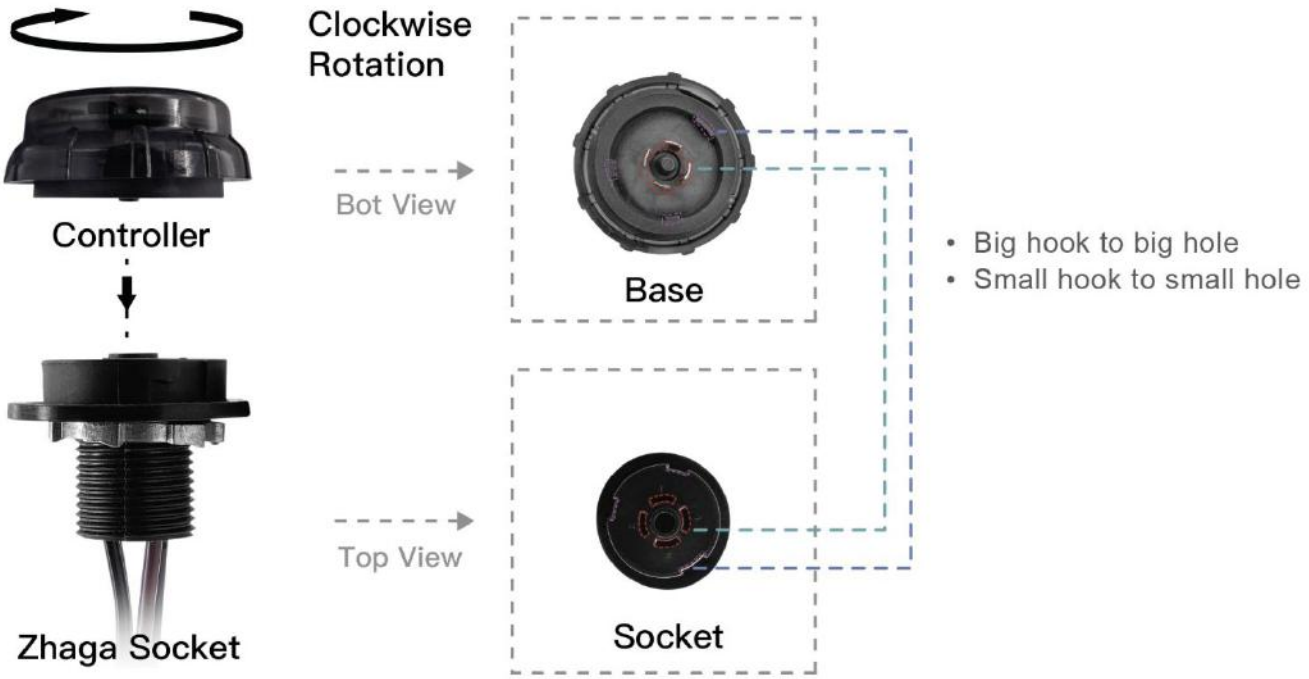
Wiring diagram





1.4 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.

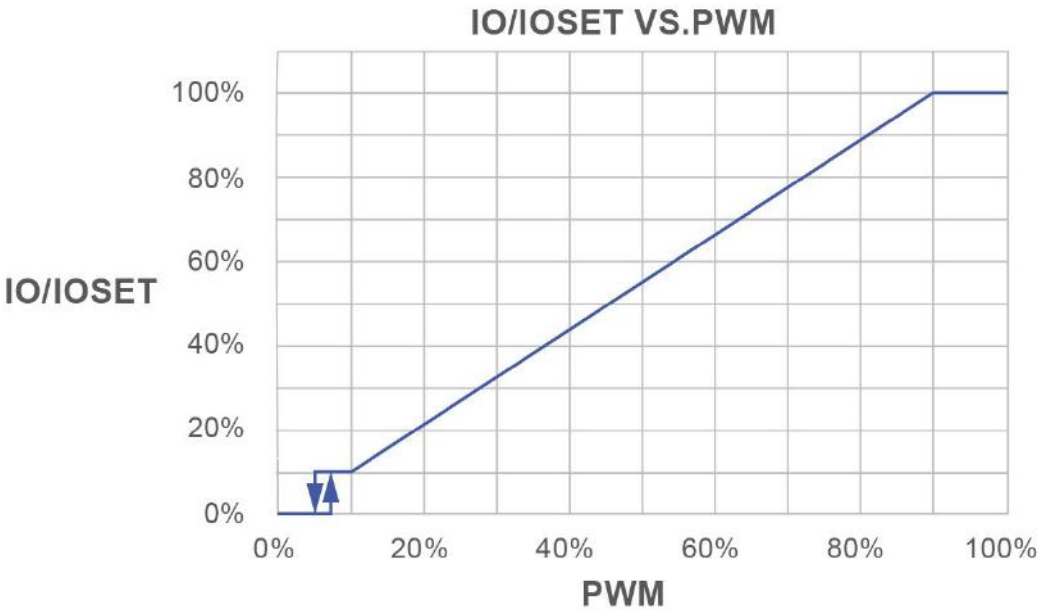


1.5 Attentions

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.