JL-721A

Zhaga Book-18 Receptacle

Product Summary

JL-721A series light controller products are intelligent rotary lock light controllers developed based on ZHAGA BOOK18 interface standard, which can output DALI2.0 dimming signals. All models have built-in photosensitive sensors. The light controller is suitable for lighting scenes such as roads, lawns, courtyards, and parks.

Product dimension drawing

H20mm

φ50mm

Features

- DC power supply, low power consumption

- ZHAGA BOOK18 interface standard

- Small size, suitable for installation in most lamps

- DALI2.0 dimming interface

- Interference lighting filtering

- Lamp reflected light compensation

- IP66

Specifications

| Model	JL-721A1	JL-721A2
Power Supply		Rated voltage: 12~24VDC Rated current: 15mA
Power Consumption		12V/10mA; 24V/11mA
Sensor Type		Photosensitive tube
Spectral Acquisition Range		350~1100nm, Peak wavelength 550nm
Dimming interface		DALI2.0
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	20S	
0%~100%；100%~0% Brightness change time	8S	
Midnight Dimming	NC	Trigger: the average center point of the first ten days (The first day default call night base is 10 hours) Dimming Ratio:50% Duration Ratio:40% Less than 10 days is calculated based on the actual number of days
Energy saving strategy	NC	Factory preset
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	
Certifications	CE RoHS D4™	

Note:

*1：Some of the old versions of the sample program turn off the light by default and maintain 5S after power-on, and then enter the self-sensing operation mode.
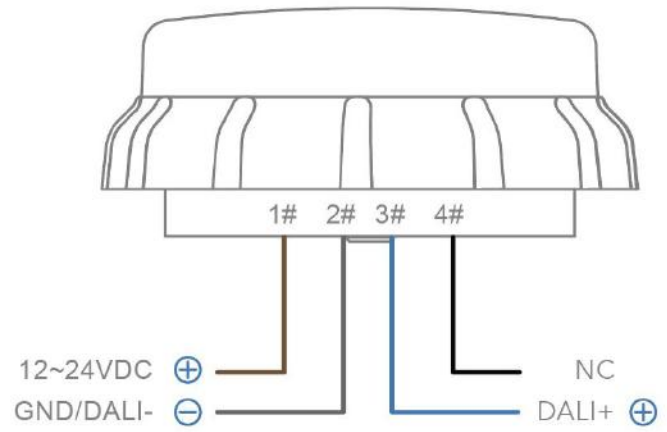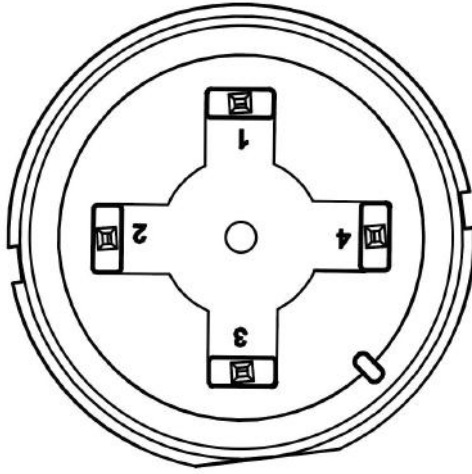

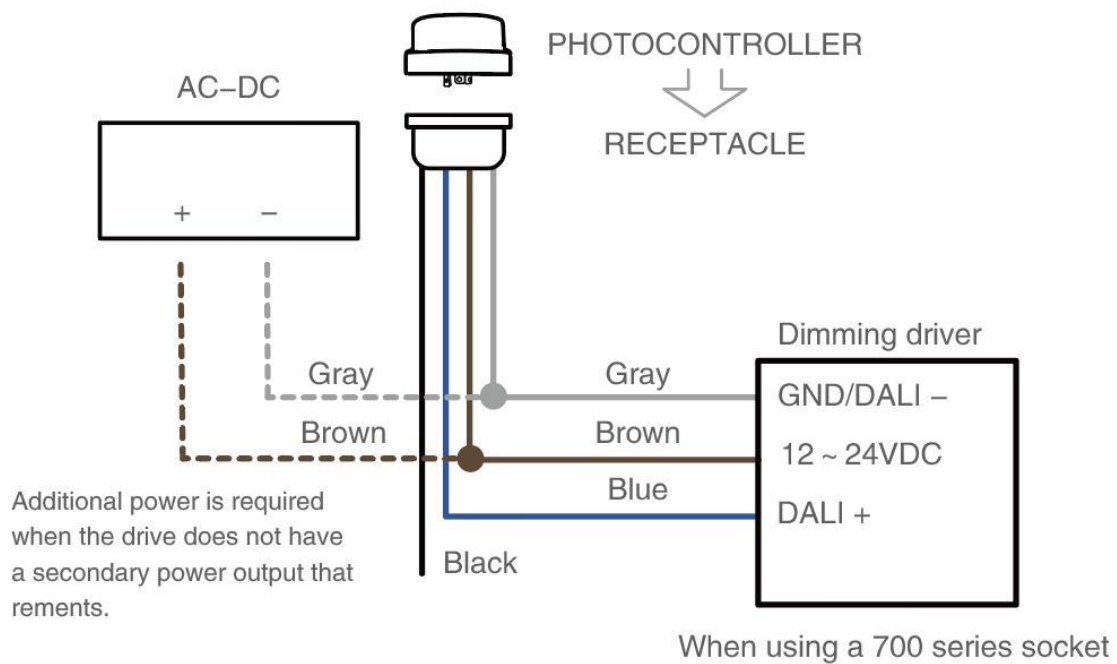Ambient illumination and lamp brightness schematic diagram
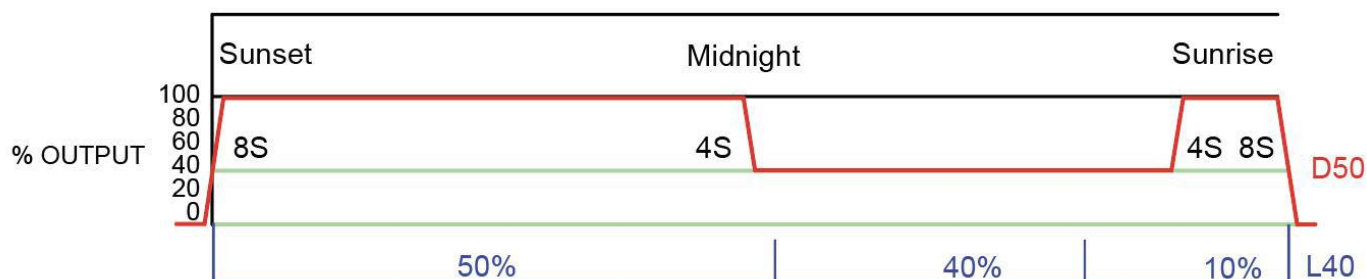
Midnight Dimming Schematic Diagram

PIN

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

1# 2# 3# 4#

12~24VDC ⊕   NC
GND/DALI- ⊖   DALI+ ⊕

Wiring diagram

PHOTOCONTROLLER

RECEPTACLE

AC–DC

+   –

Gray
Brown

Additional power is required
when the drive does not have
a secondary power output that
rements.

Gray
Brown
Blue
Black

Dimming driver

GND/DALI –

12 ~ 24VDC

DALI +

When using a 700 series socket

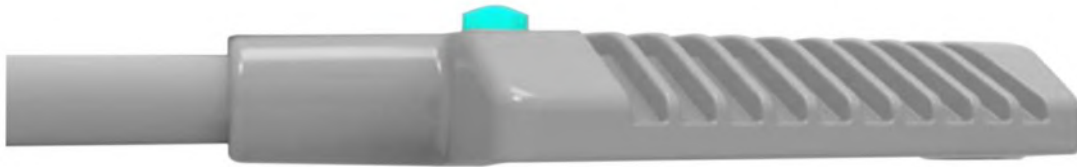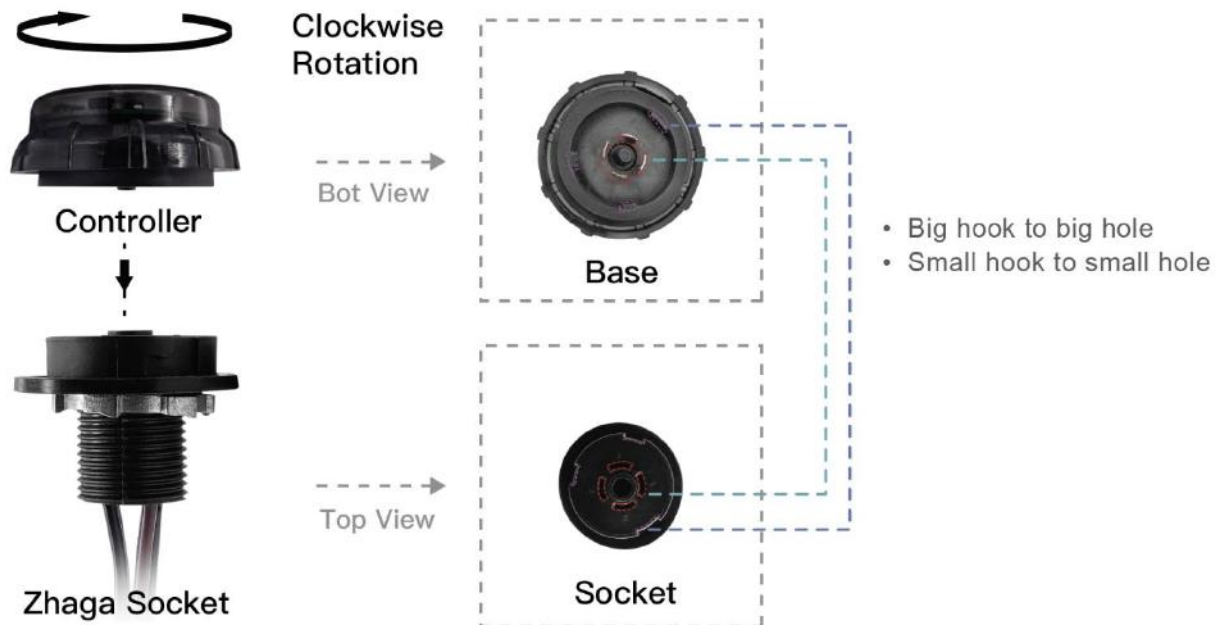## Installation

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.

Top installation diagram

Bottom installation diagram

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.

IO/IOSET VS.PWM

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.