

LORA ZHAGA

# LAMP CONTROLLER



MODEL: FONDA-LCU71LW

## Application



Street lighting



Area lighting



Park lighting



Ports lighting



Community lighting

## Features



LORA transmission, support LORAWAN



Auto-reporting electrical parameters and total energy, remote resetting



With standard ZHAGA(book 18) 4-PIN interface, plug and play



Lamp failure detection and automatic notification for alarms



Remotely turn ON/OFF



Lightning protection



Photocell auto control



IP Grade: IP66



DALI 2.0 protocol, work with D4i and Philips SR series driver



Optional module: Tilt



Remotely read electrical parameters



Optional module: GPS



Application scenario: only applicable to road lighting

### Basic Information

Input	Voltage Range	12-24VDC
	Current	0.02A
	Transient power	≤2W
	Static Power	<1W

### DALI Information

Mode	DALI 2.0 / D4i
Bus voltage	23V DC
Input current	60mA

### Working Environment

Temperature	-40~+60°C
Humidity	<95%
IP Grade	IP66
Size	Diameter 84mm, Height 48mm
Weight	0.1KG

### Data Reading

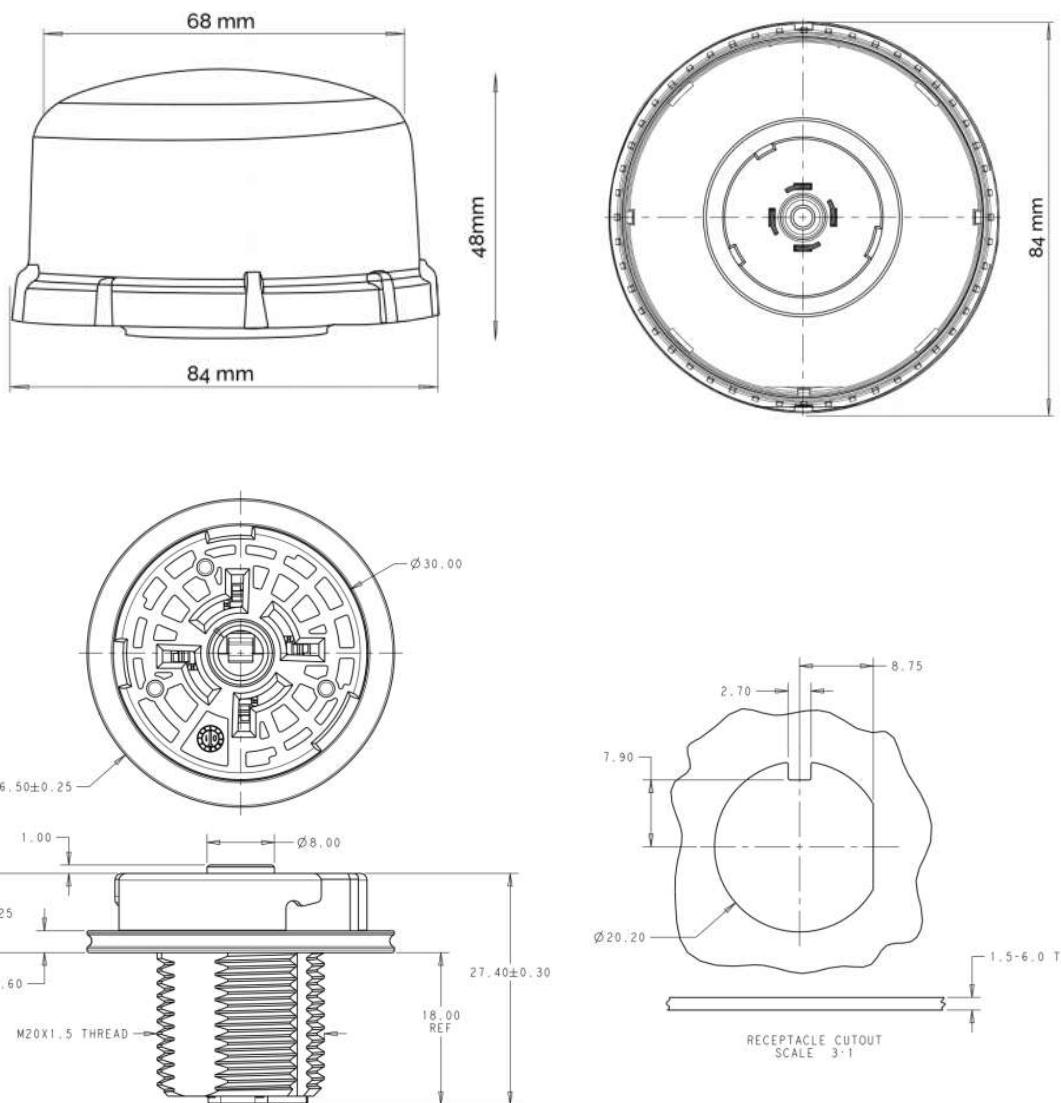
Voltage Detection	Yes
Current Detection	Yes
Data Accuracy	≤3%
Active Power Calc	Yes
Power Factor Calc	Yes
Energy Record	Yes

### Communication

Transmission	LORA
Model	FONDA-LCU71LW
Frequency	AS923
Receiver Sensitivity	-135±1dBm(@SF=12)
Transmit power	19.5dBm
Speed	ADR (SF9 to SF12)
Communication mode	CLASS-C
Protocol specification	LORAWAN1.0.2

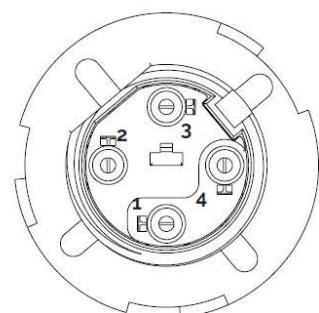
### Functions

Failure Report	Automatically report, query to report
Failure Type	Lamp failure, power failure, over voltage, over current, under voltage
Task Mode	Photocell auto control, threshold configurable,Support local scheduled task
Energy Record	Record total energy consumed and reset



## Wiring Information

Pin Number	Function
1	+24V power supply
2	Negative pole for DALI or DALI based protocol and shared ground return for 24V supply
3	Positive pole for DALI or DALI based protocol
4	General digital I/O (greater than 7V DC) for LSI sensor



Bottom view Receptacle Assembly  
(Gasket, Nut and Washer not shown for clarity)

Manufacture Company Name: ZHEJIANG FONDA TECHNOLOGY CO.,LTD

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Commercial Record (Trade License) : 913301065802789569

This model of our company's FCC certified products: FONDA-LCU71LW, make the following statement:

**FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

**FCC Warning:**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**NOTE 1:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**NOTE 2:** Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.