



NATIONAL HIGH-TECH
R&D CENTER



INTERNATIONAL
RANKING TOP 5



1.5MIL+ SMART CONTROLLERS
DEPLOYED GLOBALLY



14 YEARS OF SMART LIGHTING
EXPERIENCE

LORA ZHAGA LAMP CONTROLLER

MODEL: LCU71LW

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■ Features

- **Standard Zhaga book18 4-PIN Interface**
Plug-and-play, easy for installation
- **Built-in RTC**
Supports scheduled control strategies
- **Optional Tilt Detection**
Detects lamp post tilt and triggers an alarm
- **Optional GPS Functionality**
Automatic GIS location tracking
- **Industrial-Grade Design**
Ensures stable operation in harsh environments, with an operating range of -40°C to 85°C.
- **Waterproof Rating**
IP66, IK09
- **LoRa Wireless Communication**
Supports LoRaWAN protocol stack
- **Standard DALI 2.0 Interface**
Compatible with standard D4i driver and Philips SR power driver
- **Energy Accumulation**
Features energy accumulation, scheduled data reporting, and remote reset
- **Luminaire Fault Detection**
Includes proactive fault detection and reporting
- **Illuminance Detection**
Supports daylight sensing for automatic light on/off control

■ Cautions

- **The warranty is void if the controller casing is opened by unauthorized personnel.**
- **Installation must be conducted by qualified and professional personnel to ensure compliance.**
Make sure to properly insulate all wiring terminals to prevent any electrical hazards.
Rotate the interface connectors carefully during installation to ensure complete and secure contact.
Follow the interface specifications closely to avoid any incorrect connections.
- **Do not install in environments with prolonged high temperatures to avoid reducing product lifespan.**

Basic Information

DC Input Parameters	Input Voltage Range	12V-24VDC		
	Standby Power Consumption	< 1W	Transient Power Consumption	≤1W

DALI Parameters

Dimming Control	DALI 2.0 / D4i , Dali Single-Master Mode
DALI Supply Bus Voltage	23VDC
DALI Input Current	60mA

Metering and Alarm

Measured parameters	AC Input Current, AC Input Voltage, Power Factor, Active Power, Active Energy
Fault monitoring	Overcurrent, Overvoltage, Undervoltage, Luminaire Fault, Low Power Factor

Communications

Model	LCU71LW-A1	LCU71LW-A	LCU71LW-E
Frequency Standard	AU915	AS923-1/2/3/4	EU868
Communication Rate	SF7--SF12 Adjustable		
Protocol Specification	LoRaWAN1.1	Communication Mode	CLASS-C
Transmit Power	22dBm Maximum	Receiver Sensitivity	-124dBm(@SF=7,BW=125KHz) ;
Data Encryption	AES128bits		

Operating Conditions

Working Temperature	-40°C ~ +85°C	Storage Temperature	-55°C ~ +125°C
IP Rating	IP66	Relative Humidity	< 95%
Weight	0.1KG	Dimensions	Ø 84 mm, H 48 mm

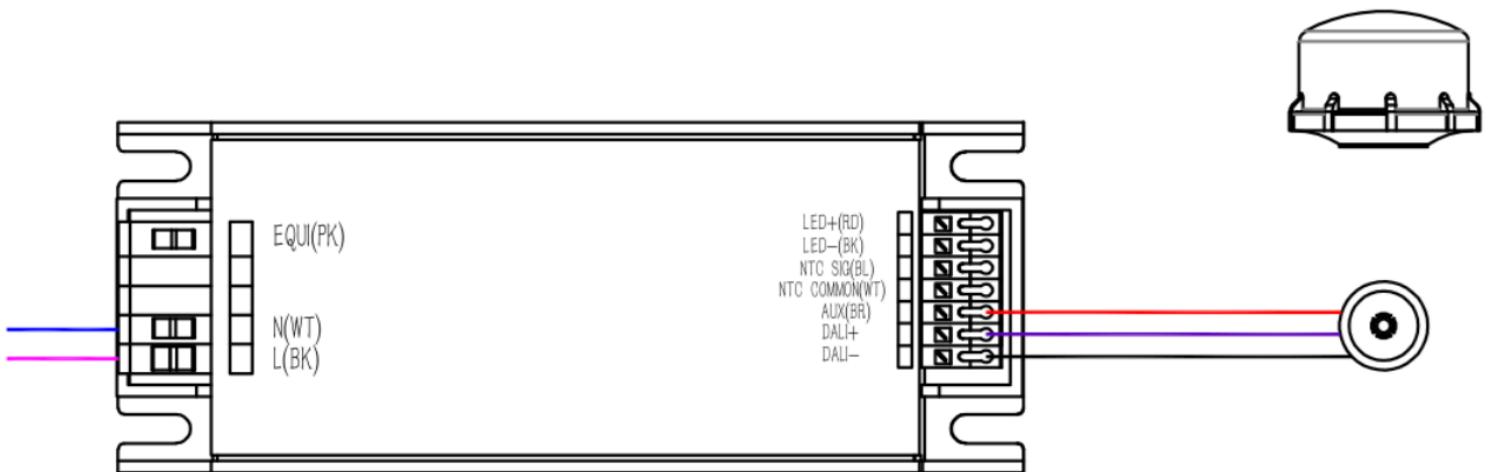
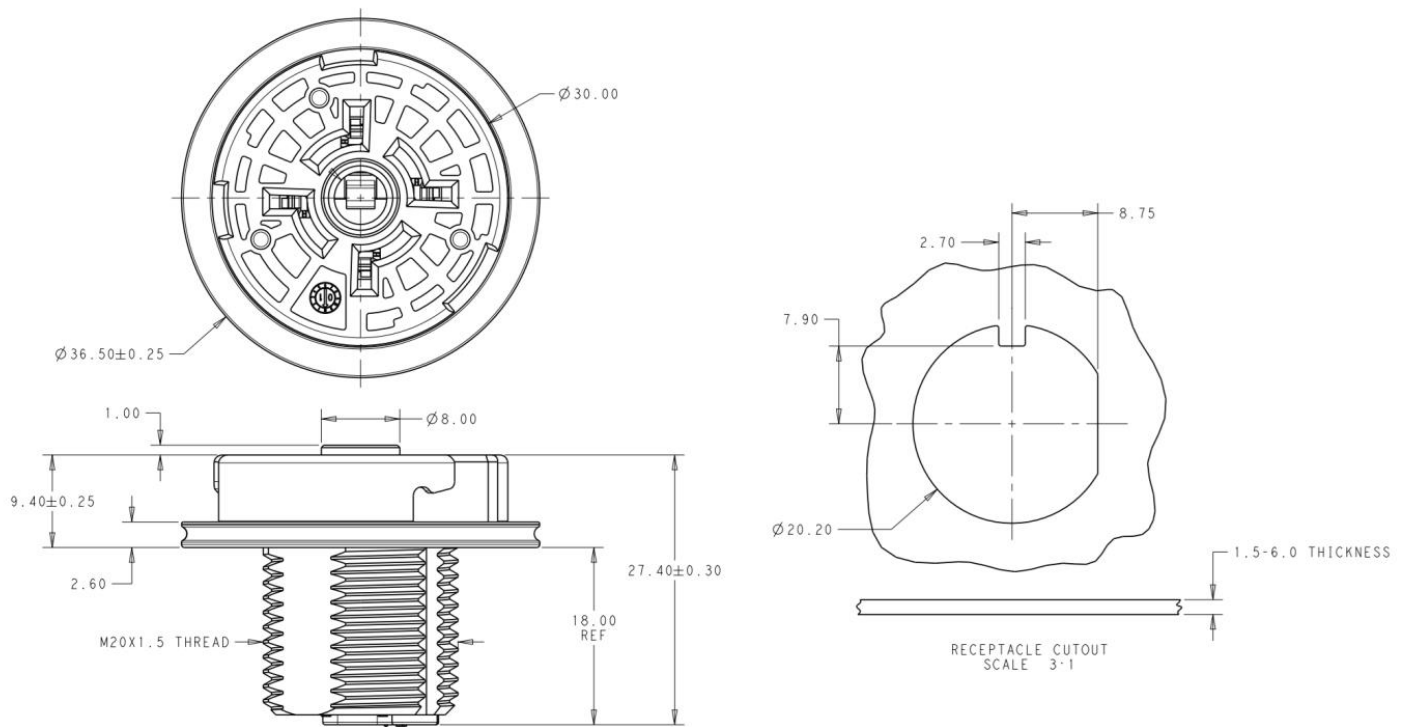
Conformity

CE-EMC	EN IEC 55015:2019+A11:2020 EN 61547:2009	RED	ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-3 V2.1.1 (2019-03)
CE-LVD	IEC 61347-1:2015+A1:2017 IEC 61347-2-11:2001+A1:2017	FCC	FCC Part 15.247
RoHs	In accordance with the RoHS Directive 2011/65/EU and its amendment (EU) No. 2015/863.	CB test	IEC 61347-2-11:2001, IEC 61347-2-11:2001/AMD1:2017 IEC 61347-1:2015, IEC 61347-1:2015/AMD1:2017

Customizations

Tilt Detection	Preset 30° alarm threshold
GNSS	Support GPS / Beidou

■ Wiring



SMART LIGHTING SMART CITY