

# UL2034

## LoRaWAN® Zhaga® 18 Luminaire Controller 4th GENERATION



The Zhaga® 18 Luminaire Controller is a wireless remote control device designed for LED luminaires equipped with the Zhaga book 18 compliant connector. The device is easily installed through plug-and-play, making it an excellent fit for various street lighting modules. It can be used for outdoor installations and is suitable for use with existing lighting infrastructure and third-party solutions. The controller communicates control commands to and from a dedicated application through a LoRaWAN® network, as well as NB-IoT and LTE-M networks\*. The controller uses the DALI or DALI-2 interface to control the luminaire. Its modern and compact design is ideal for slim LED fixtures. Optional GPS module for easier map positioning and precise time sync.

\*different product series



LoRaWAN® is a trademark of Semtech Corporation

DALI, the DALI Logo, DALI-2, the DALI-2 Logo, DiiA, the DiiA Logo, D4i, the D4i Logo, DALI+ and the DALI+ Logo are trademarks in various countries in the exclusive use of the Digital Illumination Interface Alliance

## Product Features

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- Control up to 8 DALI drivers independently
- D4i Energy registers reported for each driver
- External D4i Control devices\*
- Astronomical calendar based profiles
- Time based profiles
- Real time clock to keep time after power loss
- Automatic device time synchronisation
- Light intensity sensor
- LSI input for e.g. motion sensor
- Remote control and configuration
- Multicast control and configuration
- Configuration app LumaLink™ (iOS & Android)
- Built in tilt sensor
- GPS positioning\*

\*Optional

### Measured parameters

- Lamp / controller power\*
- Lamp / controller energy\*
- Line voltage\*
- Power factor\*
- Control gear temperature
- Energy consumption
- Lamp\* / controller operating hours

\*For each driver separately, as reported via D4i

### Monitored parameters

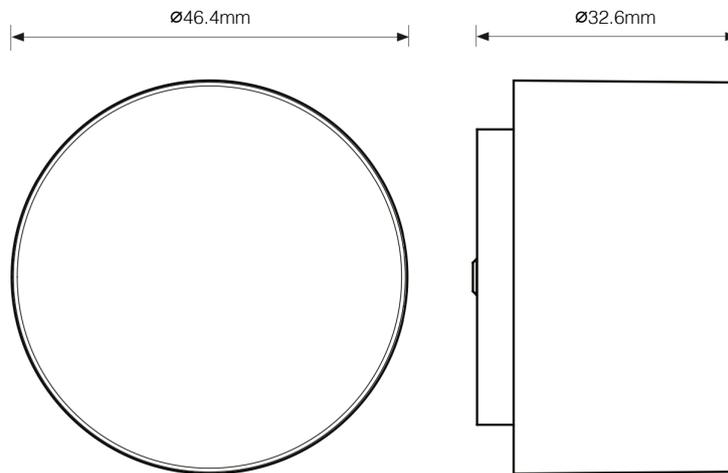
- Lamp fault
- Control gear faults
- Controller tilt angle

## Technical Data

<b>Supply</b>	
Power supply	24 VDC (min 21.6 VDC- max 26 VDC)
Peak power consumption	1W @ 24V
Surge protection	provided by DALI 2 control gear
<b>Communication</b>	
Network interface	LoRaWAN 1.1 Class C
RF Frequency	868MHz / 915MHz / 923MHz
Rx Sensitivity	-137 dBm @ 125kHz BW SF12
Tx power	up to +22 dBm (depending on region)
Network security	Encrypted communication based on security keys (AES128-bit)
Firmware update	OTA (2.4 GHz)
GPS*	GPS/Glonass/BeiDou/QZSS
<b>Interfaces</b>	
DALI Control Device	Controls up to 8 DALI ballasts.
DALI Power Supply	Internal, auto-detects external supply
Logical Signal Input (LSI)	Configurable alert, dim levels
<b>Sensors</b>	
Light sensor	Integrated. Configurable threshold.
Tilt Sensor	3-axis tilt sensor
<b>Lamp Control</b>	
Dimming range	0%-100% (linear or logarithmic depending on control gear settings)
Control interface	DALI-2 / DiiA (IEC 62386) / D4i / Philips SR
<b>Metering</b>	
D4i reported parameters	V, W, Wh, and PF, lamp-on time
Measurement accuracy	Depending on DALI control gear specifications
<b>Timing</b>	
Real Time Clock (RTC)	Yes, supercap backup
<b>Environmental</b>	
Ingress protection	IP67 (IEC 60529)
Impact protection	IK09 (IEC 62262)
Operating temperature	-20°C ... +60°C
<b>Mechanical</b>	
Weight	40g
Dimensions	51.4 mm x 33.4 mm
Body material	ABS
<b>Compliance</b>	
Standards	EN61347-1, EN61347-2-11, EN300220, EN62368, EN301489, EN62479, EN50581
Certifications	CE, SR Signify

## Mechanical Dimensions

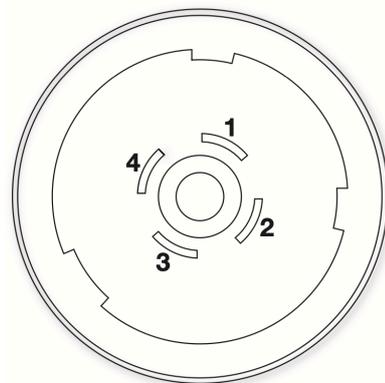
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## Wiring Guide

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1	+24V Auxiliary power supply
2	DALI - / Ground for +24V
3	DALI +
4	LSI



## Ordering Info

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Order code	<b>UL2034</b>	<b>A</b>	<b>#</b>	<b>Xv</b>	<b>#</b>	<b>0036</b>	<b>EU</b>
<b>LoRaWAN Region / SKU region</b>							
EU		<b>A</b>					<b>EU</b>
AU		<b>B</b>					<b>AU</b>
US		<b>C</b>					<b>US</b>
AS		<b>D</b>					<b>AS</b>
IN		<b>I</b>					<b>IN</b>
<b>Options</b>							
Legacy FW 1.0.x				<b>Xv</b>			
GPS				<b>P</b>			
<b>Packing Quantity</b>							
Sample						<b>SS01</b>	
Single packaging						<b>0001</b>	
Multipack 36pcs						<b>0036</b>	
Multipack 60pcs						<b>0060</b>	