



## Casambi Wireless IP65 ZHAGA-BOOK 18 DALI-2 Sensorless Controller



*The IP65 sensorless DALI controller combines DALI dimming and Casambi radio technology. When used with DALI LED drivers, it enables any lighting manufacturer to deliver wirelessly-controllable and DALI-enabled fixtures with minimal engineering effort. The DALI-enabled luminaires just need to be connected to mains power. The result is increased occupant comfort and significant energy savings that meet the most demanding building energy codes.*

### S4I-LPC-DALI-ZHAGA

#### Applications

**Architectural Lighting:** Control with Casambi and DALI  
**Smart City Solutions:** Ideal for street lighting, parks, and public infrastructure.

**Smart Building:** Centralised lighting, HVAC, and energy optimisation; scalable to multi-site projects.

**Smart Home:** Works with mainstream hubs for unified control and automation.

**Renewable Energy:** Integrates with solar and battery systems for energy monitoring.

**Industrial Automation:** Rugged design with RS485 and sensor support for harsh environments.

**Warehouses:** Energy-efficient, high-bay lighting with intelligent controls for occupancy and daylight harvesting.

**Factories:** Robust, reliable lighting and monitoring systems designed to withstand industrial conditions and support automation.

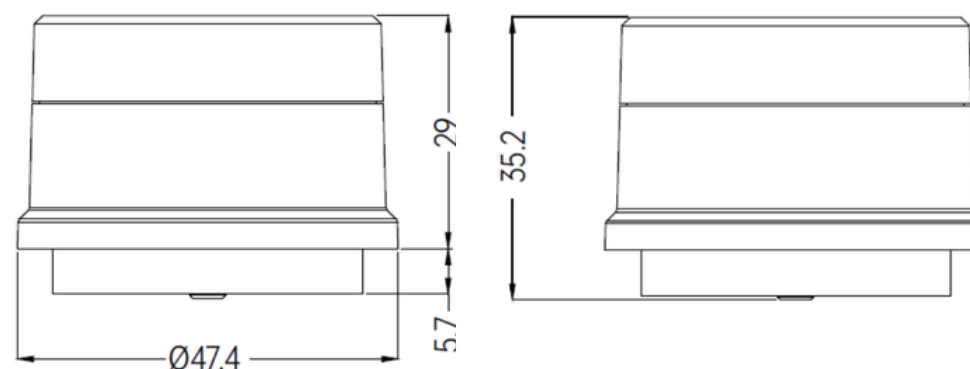
**Street and Area Lighting:** Advanced adaptive dimming and scheduling for safety, visibility, and energy savings.

**Outdoor Luminaires:** Wall Packs, parking Lots, walkways.

**Photo Controls:** Smart photocells and sensors for automated dusk-to-dawn operation and energy savings.

**Central Management System (CMS):** Scalable platform for real-time monitoring, control, and diagnostics of lighting networks.

#### Dimensions



#### Technical Specifications

|                             |                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------|
| Power Supply                | <b>DALI BUS</b>                                                                     |
| Power Consumption           | <b>Max. 20mA</b>                                                                    |
| Control                     | <b>DALI-2</b>                                                                       |
| Marking Terminals           | <b>DA-, DA+</b>                                                                     |
| Transceiver Frequency       | <b>2.4GHz ISM band</b>                                                              |
| Radio Range                 | <b>164 feet (50m) in open field</b>                                                 |
| Radio Certification         | <b>FCC/IC, CE</b>                                                                   |
| Features                    | <b>DALI broadcast, Individual/group addressing, Scene control Scheduler control</b> |
| Operating Temperature Range | <b>-25°C~+55°C</b>                                                                  |
| Mounting Height             | <b>Up to 14m, recommended height: 6-12m</b>                                         |
| Operating Humidity          | <b>0-95% (non condensing)</b>                                                       |
| Safety Certification        | <b>cULus Listed, CE height</b>                                                      |
| Warranty                    | <b>5 years</b>                                                                      |



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## Features

### Key Features

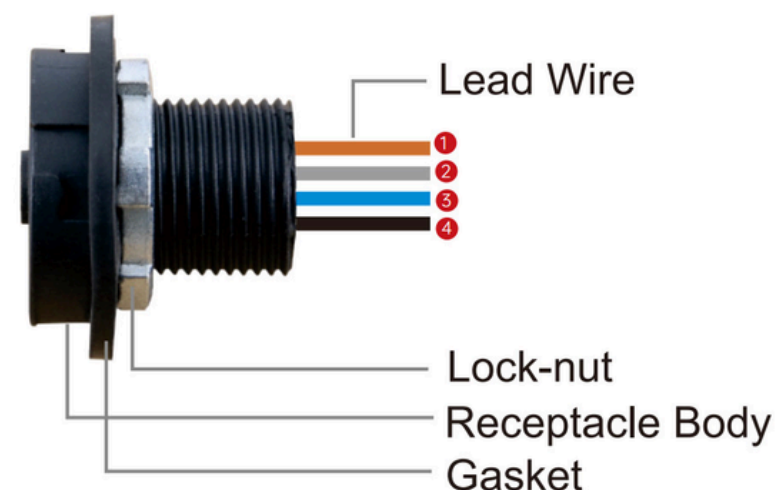
Designed to work seamlessly with both DALI-2 D4i and standard non-D4i LED drivers: *delivering simple, reliable broadcast control for synchronised on/off and dimming of connected lighting fixtures, while maintaining compatibility across a wide range of luminaires.*

Outdoor Applications: *Designed with weather-resistant and robust housing, suitable for car parks, pathways, building exteriors, and other outdoor environments.*

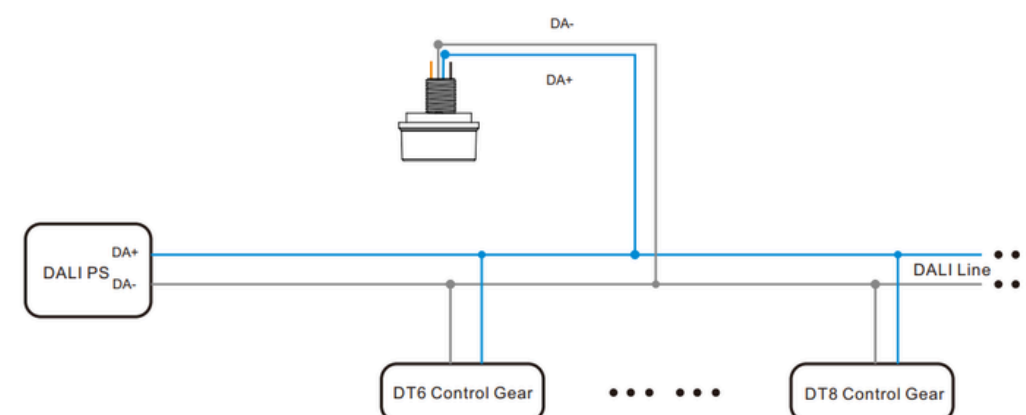
Zhaga Book 18 Socket: *Standardised interface for pluggable sensors and communication nodes, enabling easy upgrades, future-proof connectivity, and interoperability across multiple manufacturers.*

### Wireless Features

*Easily control a large number of fixtures from any point through a simple, intuitive user interface, with a wide range of functionality including luminaire grouping, customised lighting scenes for different occasions, colour temperature adjustment, daylight and occupancy sensing, and much more.*



Wiring Diagram



## Benefits

Works seamlessly with S4i Integration Broker (IB): *Software for integration to multiple systems (e.g. Data provider to CMS, Philips Dynalite, Clipsal CBus)*

Cost-Effective Energy Savings: *Delivers measurable reductions in power consumption through advanced dimming, scheduling, and sensor-based automation—helping organisations lower operating costs and achieve faster ROI.*

Energy Code Compliance: *Designed to meet stringent energy regulations and building codes (such as ASHRAE, Title 24, and EN standards), ensuring projects are future-proof and aligned with sustainability requirements.*

Robust Mesh Network: *Built on a resilient wireless mesh architecture that provides reliable communication, self-healing connectivity, and extended coverage, even in*

## Order Details

| Product SKU        | Description                                                       |
|--------------------|-------------------------------------------------------------------|
| S4I-LPC-DALI-ZHAGA | Casambi Wireless IP65 DALI- 2 Zhaga Book 18 Sensorless Controller |