

General Information

ORION Zhaga 868 is a plug-and-play smart lighting control unit developed for Zhaga Book 18 compatible LED luminaires. Thanks to its socket-type mounting structure, it can be integrated quickly and safely onto the luminaire.

Device; DALI controls the luminaire driver via the communication interface and provides remote management depending on the selected communication infrastructure.



Key Features

Zhaga Book 18 compatible mechanical and electrical interface

DALI and 0-10V dimming interface

LoRaWAN communication

Photocell and GPS support

OTA (Over-The-Air) firmware update support

Built-in high-precision RTC (with backup battery)

Time-based auto-dimming scenarios

Manual / Sensor / Timer modes

Support for customizable dimming profiles

OpenAPI integration support

LoRaWAN Network Parameters

Class: C

Activation: OTAA

Link Budget : 187 dBm

Supported Regions: EU868

Cellular Network Parameters

GSM: 850/900/1800/1900 Mhz

Product Specification

Power Supply	12 Vdc – 24 Vdc	Size	80.15mm*80.15mm*55.56mm
Power Consumption	< 0.5W @ 24 Vdc input	Weight	85g ± 5g
Socket interface	Zhaga book 18 compatible	Operating Temperature	-30°C ~ 60°C
Dimming Interface	DALI/0-10V	Storage temperature	-40°C ~ +70°C
Network communication	LoRaWAN	Protection class	IP66
Dimming mode	Manual mode, sensor mode, planning mode	Body material	PC (Polycarbonate)

Wiring Diagram and Pin Descriptions



Pin Sayısı

0-10V/PWM Type

DALI Type

1

Power input (12Vdc – 24Vdc)

2

DIM- (GND)

DALI- (GND)

3

RFU

DALI+

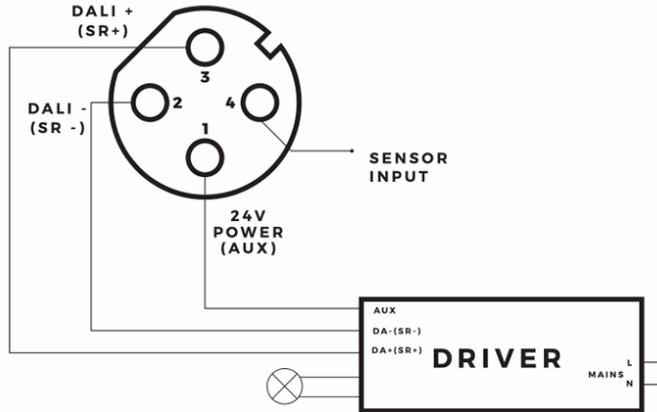
4

DIM+ (0-10V/PWM)

RFU

- Pin 1: It is a 24V auxiliary supply input (24V POWER – AUX). It is used to supply external devices.
- Pin 2: DALI negative line (DALI – /SR–).
- Pin 3: DALI positive line (DALI + / SR+).
- Pin 4: Together with Pins 1, 2, and 3, it forms the sensor input section and is used for receiving sensor signals.

Wiring Instructions



- During wiring, it is imperative that the conductors of external devices are connected to the relevant pins correctly and completely.
- The auxiliary supply (AUX), DALI negative (DA– / SR–) and DALI positive (DA+ / SR+) terminals on the controller must be correctly connected to the corresponding inputs on the driver (DRIVER).
- The LED driver (DRIVER) also has L (Line/Phase) and N (Neutral/Neutral) terminals for mains connection, which must be connected directly to the mains (MAINS) line.
- During the connection process, attention should be paid to the correct polarity and pin matching.