RETROFIT ZHAGA

RFTZ
Technical Document

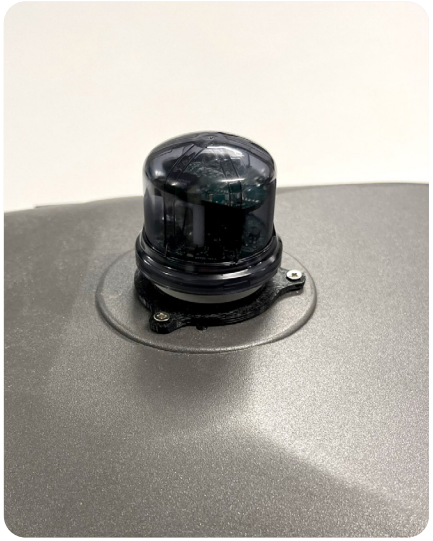
Description

Zhaga RFT Radio Light Remote Management Device provides a complete suite of features that ensure a continuous monitoring of the performance of the plant, in order to implement logics that allow continuous improvement. The EMODE control logic ensures essential functionality even in the absence of temporary connectivity.

RFT Zhaga implements the management of weekly dimming profiles, supporting up to 16 of daily dimming points. The device is equipped with a RTC (Real Time Clock) that ensures the updating of the internal clock necessary for the execution of dimming profiles. In case of emergency, that is in the absence of connectivity and invalidation of the RTC, the device enables the built-in light sensor to establish the lighting body, depending on the threshold configured via the IoT platform.

The ASTROCLOCK feature, if activated, allows the daily dimming profile to be automatically adjusted to the change in the time of sunrise and sunset depending on the coordinates of the installation location.

The device monitors the status of the electronic ballast of the illuminating body, signaling any malfunctions (correct dimming value, internal errors of the ballast), periodically providing data on electricity consumption, dimming, time and cycles of lighting commands and internal temperature of the device.



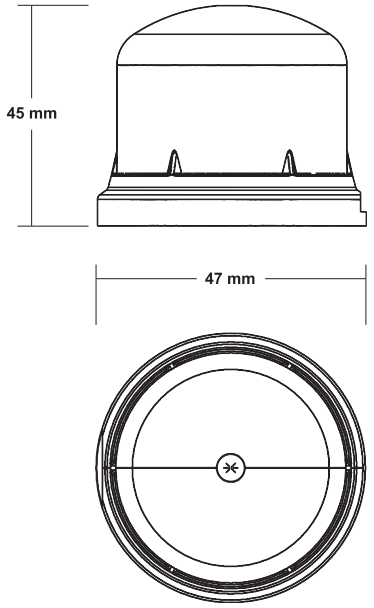
Communication with the electronic ballast of the lighting body is via DALI 2.0 protocol, using the electromechanical interface defined according to the Zhaga Book 18 standard.
The radio communication interface follows the standard LoRaWAN® 1.0.3 (class C), low-powered and long-ranged communication technology.

RFT Zhaga is designed to operate even in critical environmental conditions, with operating temperature range -40~+70 C and IP66 degree of protection. It complies with EN 55024:2010-11, EN 55024/a1:2015-06, EN 60950-1:2006-04, EN 60950-22:2006-04, EN 55032:2015-07, EN 61000-3-3: 2013-08, ETSI 301 489-1:2017-02.

The device allows automatic commissioning via the URBANA TOOLKIT mobile application, available on the Apple App Store and Google Play Store, with easy-to-use QUICKSCAN procedures.

The programming of the functions is done through the URBANA EFFICIENCY PLATFORM.

Device dimension



Device info

Model	Dali 1.0 Interface	Dali 2.0 Interface	0-10V Interface	Product code
RFTZ	✗	✓	✗	based on project request

CONNECTION SCHEME

RFTZ
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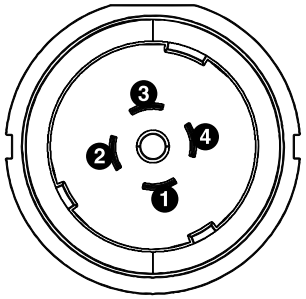
SMART SOLUTIONS

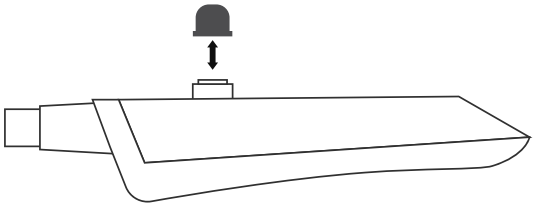
Device description



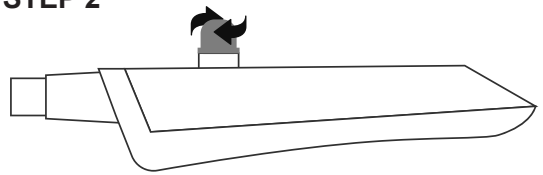
1. VIN — Node Power (+9VDC to +24 VDC)
2. GND / DALI Por t
3. DA+ — DALI Por t
4. NC — Not Connected

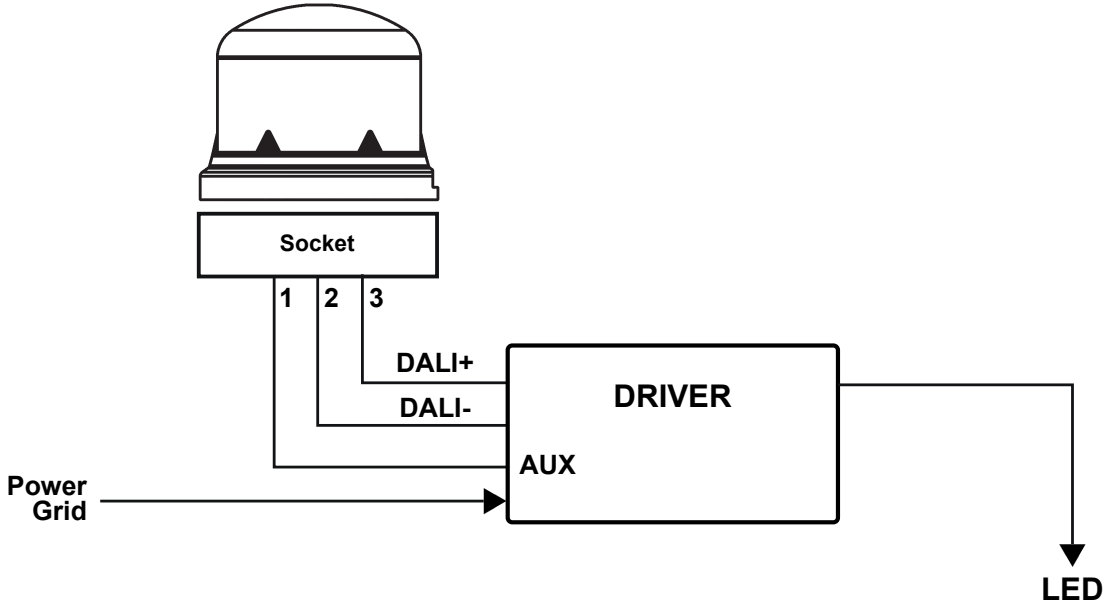
Device mounting

STEP 1



STEP 2





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