RETROFIT NEMA

RFTN
Technical Document

Description

RFT Nema Radio Light Remote Management Device, provides a complete suite of features that ensure a continuous & smooth performance of the system which in turn allow to implement logics that make continuous improvements.
The EMODE control logic ensures essential functionality even in the absence of temporary connectivity.

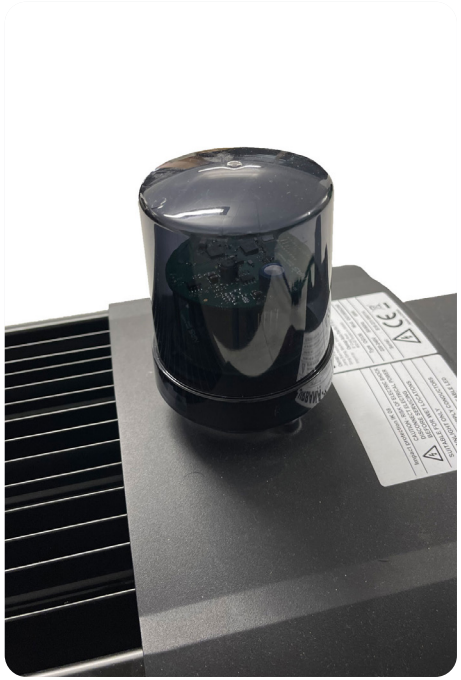
The device implements the management of weekly dimming profiles, supporting up to 16 daily dimming points. The device is equipped with a RTC (Real Time Clock) that ensures the updating of the internal clock necessary for the execution of dimming profiles. The ASTROCLOCK feature, if activated, allows 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 site.

The device monitors electrical parameters such as voltage, current and power factor via an internal meter, 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 fixture is via 0-10V interface, using the connector defined by ANSI C136.41 NEMA .

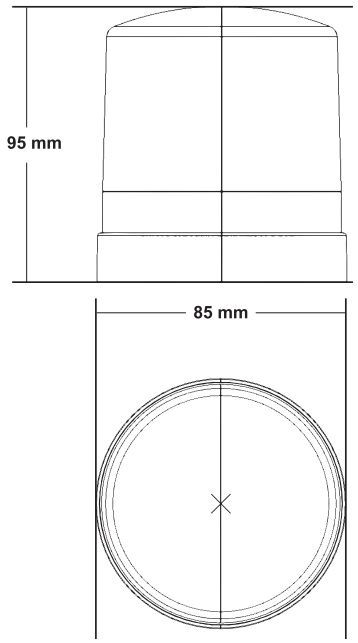
The radio communication interface follows the standard LoRaWAN® 1.0.3 (class C), low-powered and long-ranged communication technology. The LoRaWAN® technology provides the best-in-class radio communication performance in terms of reliability, scalability and overcoming obstacles with low energy consumption. The device 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

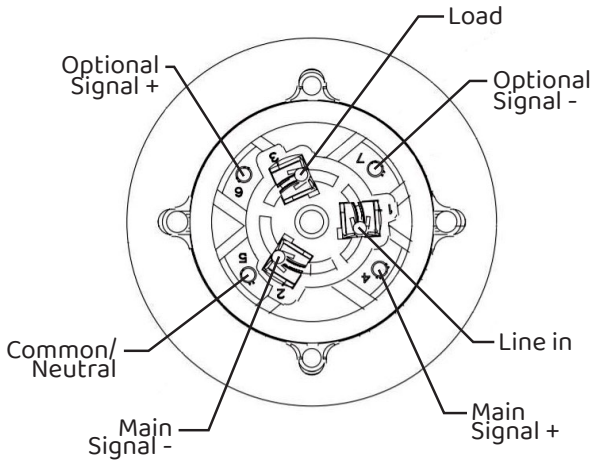
Model	Dali 1.0 Interface	Dali 2.0 Interface	0-10V Interface	Internal meter	Product code
RFTN	✗	✗	✓	✓	based on project request

CONNECTION SCHEME

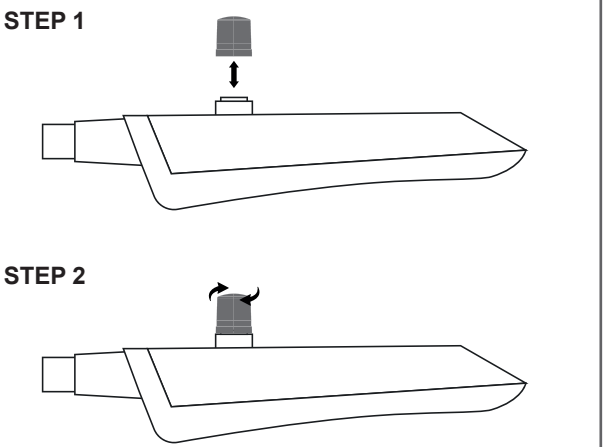
RFTN
Technical Document

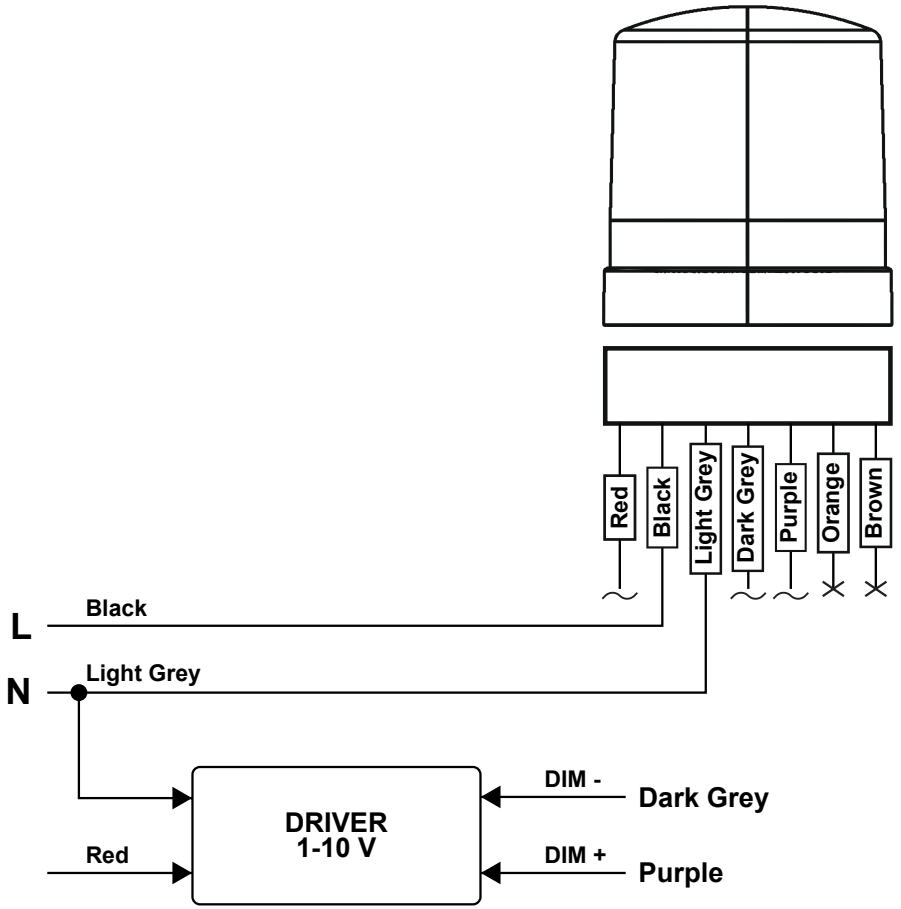
urbana
SMART SOLUTIONS

Device Description



Device mounting





More documents on:
urbanasmart.com

EU

Share this document