STELARIA®

ELT

SIRO-N
REMOTE WIRELESS
STREET LIGHTING **NODE**

STELARIA

offers an intuitive, reliable and secure cloud-based user interface, accessible at all times and from any device connected to the internet, providing accurate and real time control over the street lighting infrastructures.

STELARIA

is a wireless point-to-point remote street lighting management system, fully developed by ELT, that enables the remote control and monitoring of the luminaire's operation, creating a robust and advanced communications network that can be managed via a simple web application. This is a powerful and integrated solution that incorporates the software, hardware and communications necessary to remotely control and operate outdoor lighting.

stelaria®

Remote Wireless Street Lighting CMS

COMMISSIONING

STELARIA is a street lighting control and monitoring system designed for LED luminaires and other lighting technologies, such as HID. The installation of the SIRO-N nodes is extremely simple as it uses the 7-pin NEMA standard socket connection (ANSI C136-41), turning STELARIA in a plug and play solution, with no associated commissioning costs and a fast and efficient start-up. The system automatically recognises the energy conversion source and autonomously works with the interface identified.

CONNECTIVITY AND SECURITY

The connectivity of the SIRO-N nodes with the STELARIA platform is fully transparent for the user. At all times the integrity, reliability and security is guaranteed, thanks to the ability of the SIRO-N nodes to use encryption algorithms and protocols that guarantee the integrity of the message.

GEOPOSITIONING

The SIRO-N device is equipped with a GPS module to make the installation process even more straightforward, avoiding the manual registration of each device. This allows modifications to the street lighting installation to be identified without having to make changes to the platform, while keeping each individual light point of the installation geopositioned.

ENERGY EFFICIENCY

The aim of STELARIA is to provide the perfect balance between lighting that suits residents and efficiency in energy terms. This is why the SIRO-N nodes are equipped with an industrial-style consumption measuring system that allows the energy consumption of each light point to be precisely monitored.

MAINTENANCE

By automatically generating reports and sending alerts, the STELARIA management system reduces action times and brings down the associated installation maintenance costs. The system also warns of possible faults, identifying if the error is in the LED load, in the driver itself or in the power supply or connection. Thanks to the platform and geopositioning feature, any fault point is immediately and accurately detected.

SIRO-N
NODE

- NEMA standard support (ANSI C136.41)
- GPS geopositioning
- Sensor connection enabled
- Interfaces: 0-10V, 1-10V, DALI and DALI 2.0
- Energy consumption measurement
- Photocell

TECHNICAL SPECIFICATIONS

Electrical connection
Mains grid voltage: 100 Vac - 240 Vac
Mains grid frequency: 50/60 Hz
Max. load: 3A
Mains surge protection: up to 6kV

Power consumption
Standby: < 0.5W
Operating: < 2W
Energy consumption measurement accuracy < 2%

Driver communication interfaces
0-10V, 1-10V, DALI and DALI 2.0
Load capacity: 8 DALI controllers,
8 1-10V controllers

Radio communication
ISM radio frequency band

Protection
Ingress protection rating: IP66

STANDARDS AND LEGISLATION

Electrical safety:
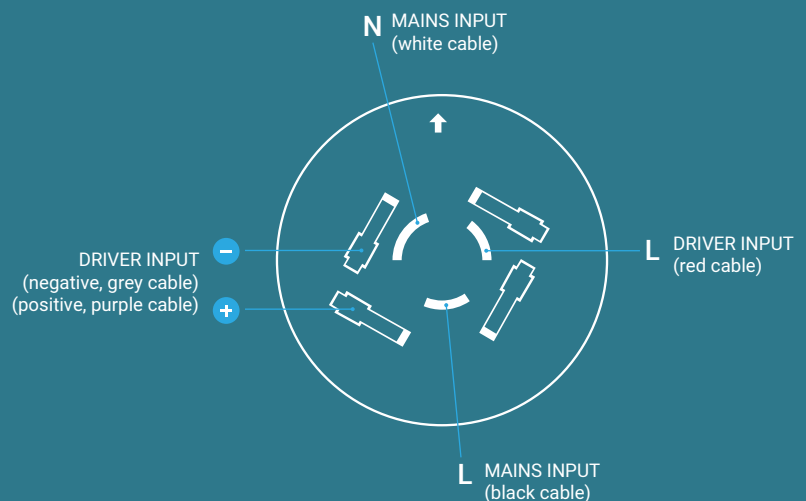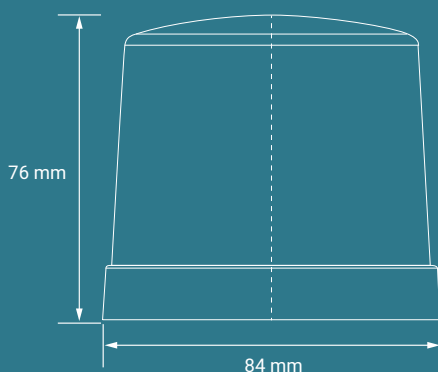- EN 62368-1:2014 + AC:2015 + A11:2017

EMC:
- EN 62311:2008
- EN 301 489-1 V2.2.0
- EN 301 489-3 V2.1.1
- EN 301 489-19 V2.1.0
- FCC 47 CFR Part 15B

RF:
- EN 300 220 -1 V3.1.1 + EN 300 220-2 V3.1.1
- EN 303 413 V1.1.1
- FCC 47 CFR part 15, subpart C 15.S247

RoHS:
- RoHS 2011/65/UE + 2015/863/UE

76 mm

84 mm

N MAINS INPUT
(white cable)

DRIVER INPUT
(negative, grey cable)
(positive, purple cable)

L DRIVER INPUT
(red cable)

L MAINS INPUT
(black cable)

eLt

INNOVATION
IN LIGHTING
TECHNOLOGY