

CNODE

Nema IoT

CNODE Nema IoT is the Worlds smartest wireless street light controller equipped with the latest industry standards and provides LTE-CatM1, and GSM worldwide support.

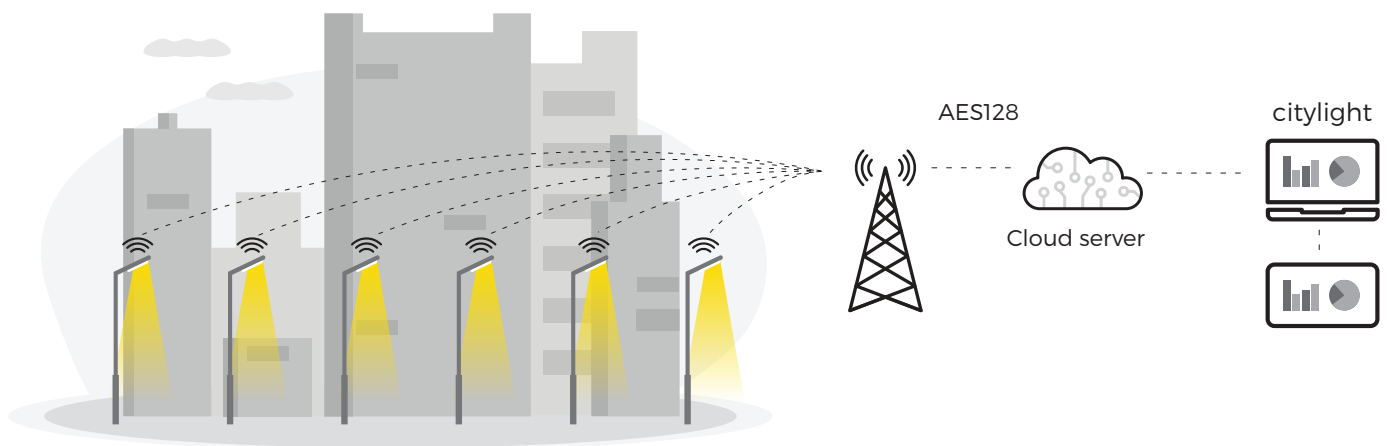


- ✓ NO GATEWAYS
- ✓ NEMA SOCKET STANDARDS
- ✓ METERING & DIAGNOSTIC
- ✓ WORLD WIDE COVERAGE
- ✓ TOOL-FREE INSTALLATION
- ✓ FLAT RATE DATA PLAN UP TO 10 YEARS



HOW IT WORKS

Works with standard 3 GPP cellular network 2G/LTE, no gateways, fallback to 2G/LTE suitable.



SPECIFICATION

PRODUCT CODE

HLCCNIOT
HLCCNIOT - I
HLCCNIOT - G
HLCCNIOT - I - G

I - Inclination sensor
G - GPS

DIMENSIONS AND WEIGHT

Diameter: 88 mm
Height: 71 mm
Weight: 220g

ENCLOSURE

IP class: IP66
Impact resistance: IK09
UV resistant
Material: polycarbonate
Rubber Isolation class: Class II

MOUNTING

3-PIN NEMA standard receptacle (ANSI 136.10)
5-PIN NEMA standard receptacle (ANSI 136.41)
7-PIN NEMA standard receptacle (ANSI 136.41) -
Optional

COMMUNICATION

Cat-M1
Bands:
B2/B4/B12/B13/B18/B19/B25/B26/B27/B66/B85
GSM/EDGE: 850/900/1800/1900 MHz
Frequency: 2.4GHz ISM band operation

POWER SUPPLY

Input voltage: 230 VAC -15% ...+15%
Frequency: 50/60 Hz
Power consumption: <2W
Electrical safety: Galvanic isolation
Surge protection: 6kV

ENVIRONMENTAL REQUIREMENTS

Operating temperature: from -40 to +75 C
Storage temperature: from -40 to +75 C
Relative humidity: <95% non-condensing

INTERFACES

DALI/0-10V

DALI Interface
Version: 2/ D4i/ SR
Max current: 50 mA
Supports up to 4 D4i or 4 Philips SR drivers.
DALI BUS Power/ Master / Main voltage shall not exceed 1 driver.
Additionally supports 4 DALI 1.0 devices
0-10V (Switchable)

INCLINATION SENSOR (OPTIONAL)

Axis Count: 3-Axis (X,Y,Z)
Resolution: 8 bit

DIGITAL INPUT (OPTIONAL)

Type: Dry contact
Voltage: 5V

FEATURES

Real time clock with backup power supply
Built-in memory
Astronomical clock for dimming profiles

MAX LOAD

Max load: 500W

STANDARDS

Directive 2014/35/EU Low Voltage Directive (LVD)

EN 62311: 2008
EN 61347-1:2015 (IEC 61347-1)
EN 61347-2-11
EN 62368-1:2014/AC:2015
EN 62368-3:2020
HD 60364-4-443:2016
EN 61984:2009
EN 60529
EN 62262

Directive 2014/30/EU Electromagnetic compatibility (EMC)

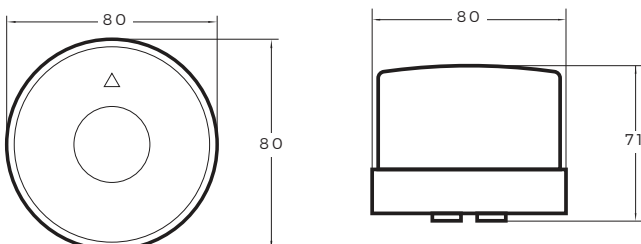
EN 301 489-1 V2.1.1
EN 61000-3-2:2014
EN 61000-3-3:2013
EN 301 489-3 V2.1.1
EN 301-489-52 V1.1.0
EN 55015:2013+A1:2015
EN 61547:2009

Directive 2014/53/EU Radio Equipment (RED)

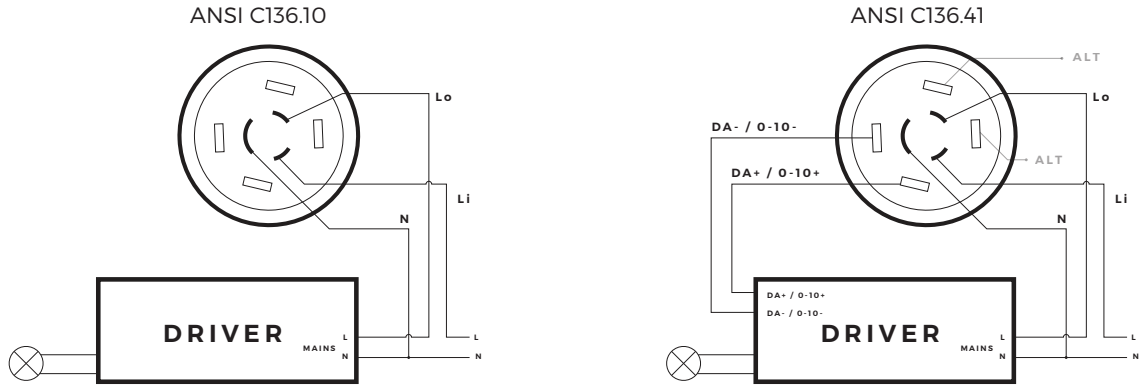
EN 300 440 V2.1.1
EN 301 511 V12.5.1
EN 300 328 V2.1.1
EN 300 220-2 V3.1.1

Directive 2011/65/EU RoHS directive
Directive 2012/19/EU WEEE directive

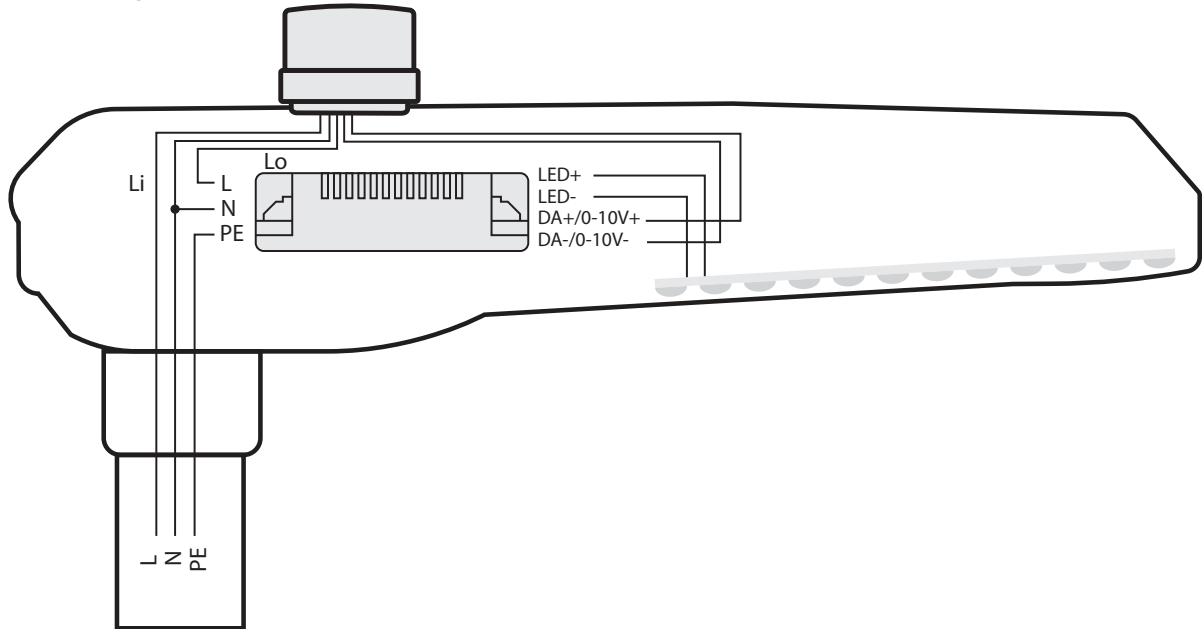
DIMENSIONS



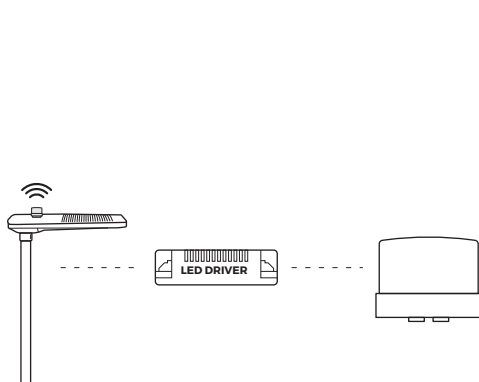
WIRING DIAGRAM



SCHEMATIC



LUMINAIRE DATA



DATA:

- Dimming level/status (%)
- Mains Voltage (V)
- Mains Current (mA)
- Power (W)
- Day Energy Consumption - Active (Wh)
- Total consumption (kWh)
- Inclination X/Y angle (°)
- LED voltage (V)*
- LED current (mA)*
- Driver working hours (h)

ALERTS:

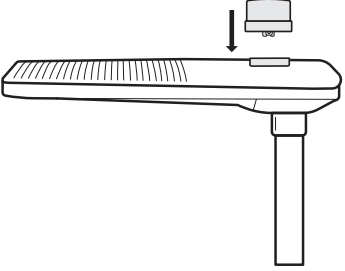
- Power failure
- Power level below set threshold
- Luminaire Inclined failure
- Luminaire working hours overreached
- Dimming profile difference between node and driver.

*Additional for D4i and SR drivers

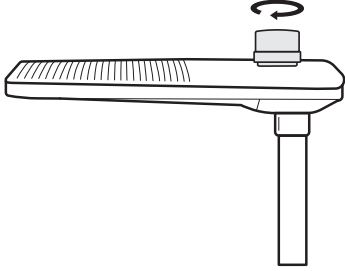
INSTALLATION INSTRUCTIONS

FIELD INSTALLATION

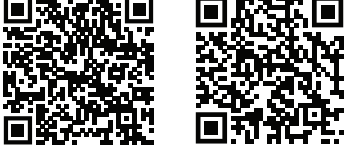
1




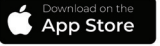
2



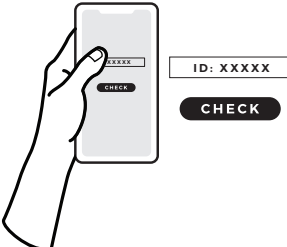
3 Download APP



Available on the  Google Play

Download on the  App Store


4



ID: XXXXX


CHECK

5



Send collected data

6




Enter e-mail and click send.

email@email.com

SEND

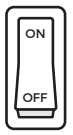
7



citylight.net

Upload device ID numbers from file

8




ON

OFF

⚠

Power ON segment controller and luminaires



ON

ON

ON

⚠

Switch ON relays on segment controller

9

LED light

On: powered

