

CNODE Nema IoT

CNODE Nema IoT is the Worlds smartest wireless street light controller equipped with the latest industry standards and provides LTE Cat- 1, and GSM worldwide support.

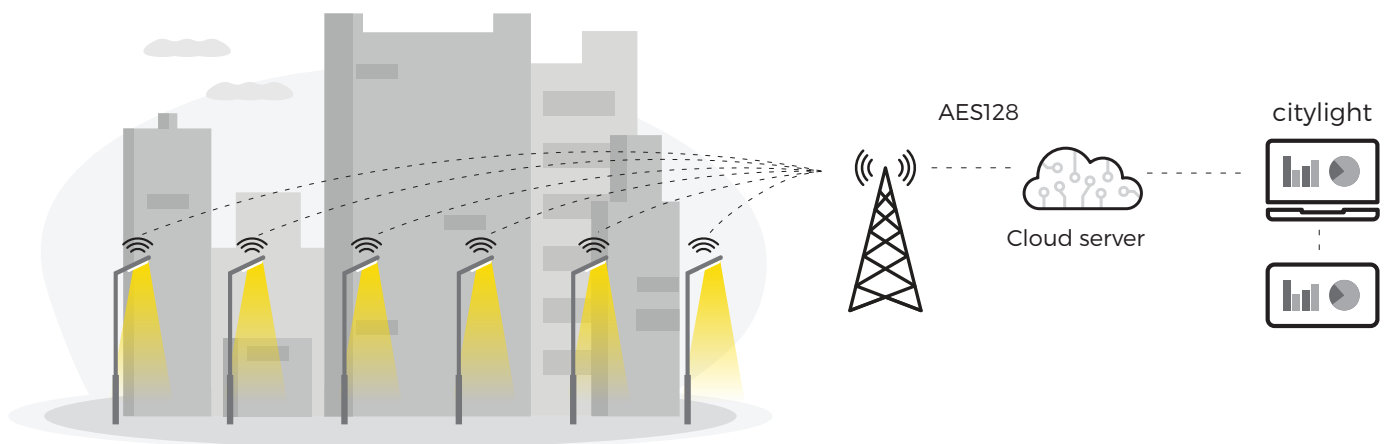


- ✓ NO GATEWAYS
- ✓ NEMA SOCKET STANDARDS
- ✓ METERING & DIAGNOSTIC
- ✓ WORLD WIDE COVERAGE
- ✓ TOOL-FREE INSTALLATION
- ✓ FLAT RATE DATA PLAN UP TO 10 YEARS



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

4G / LTE Cat -1
 Frequency Bands:
 LTE-FDD: B1/B3/B7/B8/B20/B28
 GSM: B3/B8
 Frequency(Secondary): 2.4 GHz ISM band
 operation

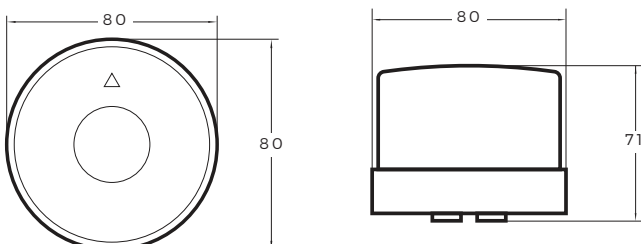
POWER SUPPLY

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

DIMENSIONS



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 compat-
 ibility (EMC)

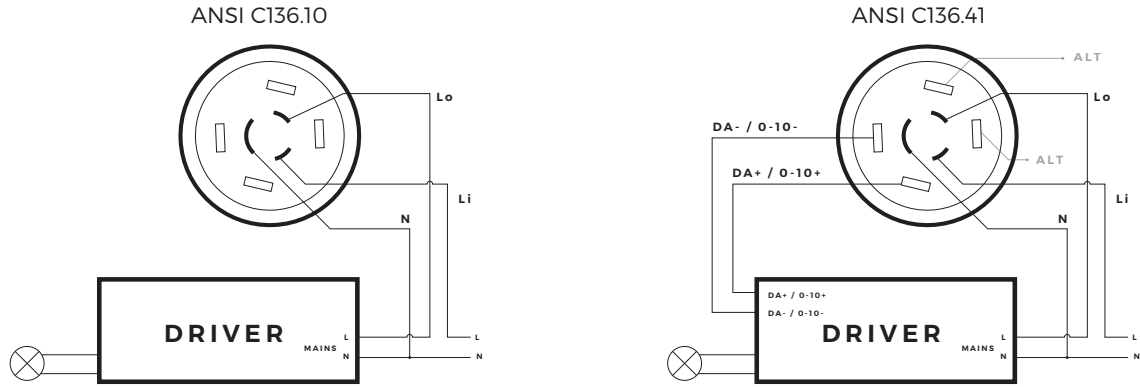
EN 301 489-1 V2.1.1
 EN 61000-3-2:2014
 EN 61000-3-3:2013
 EN 301 489-3 V2.1.1
 EN 301-489-52 V1.1.0
 EN 55015:2013+A1:2015
 EN 61547:2009

Directive 2014/53/EU Radio Equipment (RED)

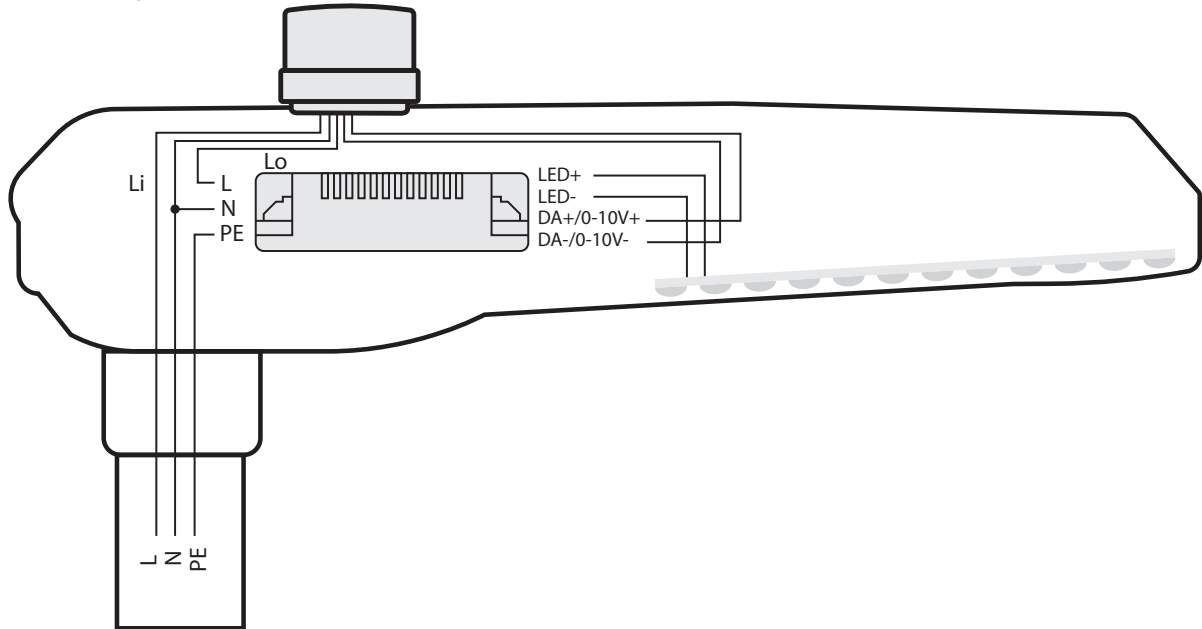
EN 300 440 V2.1.1
 EN 301 511 V12.5.1
 EN 300 328 V2.1.1
 EN 300 220-2 V3.1.1

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

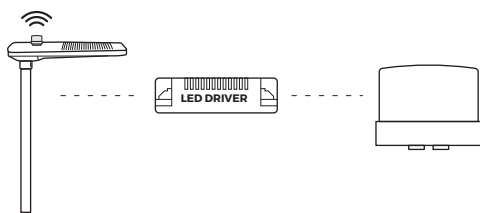
WIRING DIAGRAM



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:

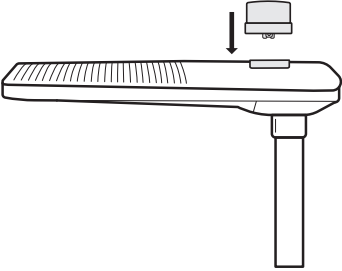
- Power failure
- Power level below set threshold
- Luminaire Inclined failure
- Luminaire working hours overreached
- Dimming profile difference between node and driver.

*Additional for D4i and SR drivers

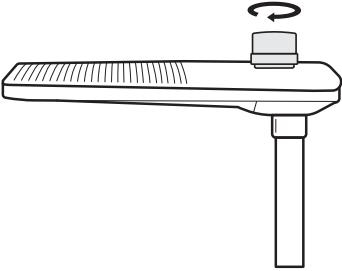
INSTALLATION INSTRUCTIONS

FIELD INSTALLATION

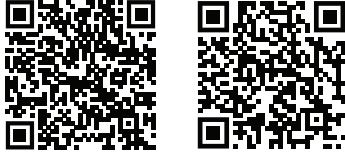
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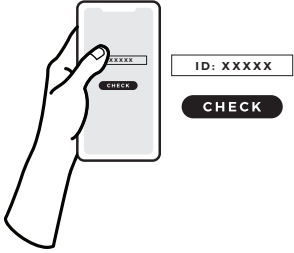
3 Download APP




Available on the **Google Play**

Download on the **App Store**

4




5



Send collected data

6



Enter e-mail and click send.

email@email.com


SEND

7



Upload device ID numbers from file

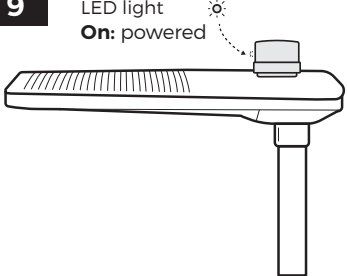
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Power ON segment controller and luminaires

Switch ON relays on segment controller

9



LED light
On: powered