

# NOWATT LIGHTING

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# ONYX BOLLARD

User guide

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### Overview

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Usage : Solar outdoor lighting bollard connected with LED.

The Onyx bollard is standalone thanks to a solar panel and a battery.

Optic: 30/60°.

Color of the LEDs, at your choice:

- White shades 2 LEDs 2700 K and 2 LEDs 5700 K for the 4W reference.
- White shades 2 amber LEDs and 2 LEDs 5700 K for the 4WA reference.

Structure : Anodized aluminum frame with polyester powder coating finish.

Battery LiFe PO4 (13 Ah).

Solar panel Sunpower Back Contact.

Motion sensor.

Operating temperatures : - 10°C / + 60°C.

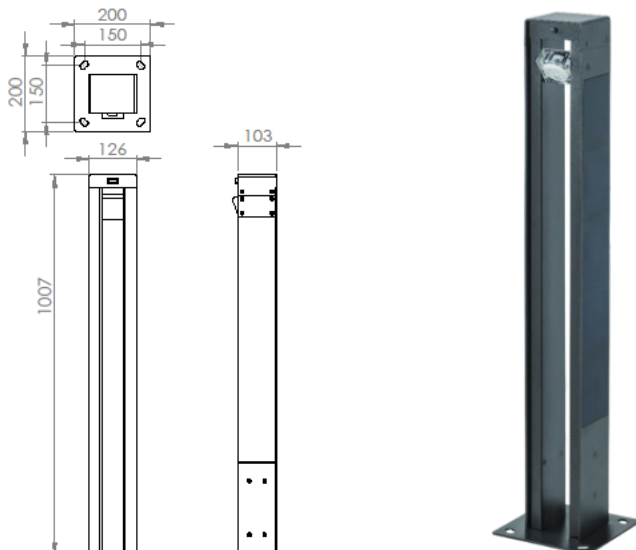
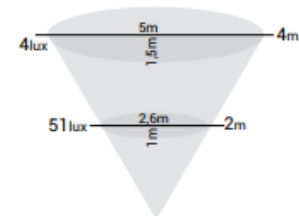
Class III – IP67 for the optical block and IP55 for the bollard – IK07 – CE.

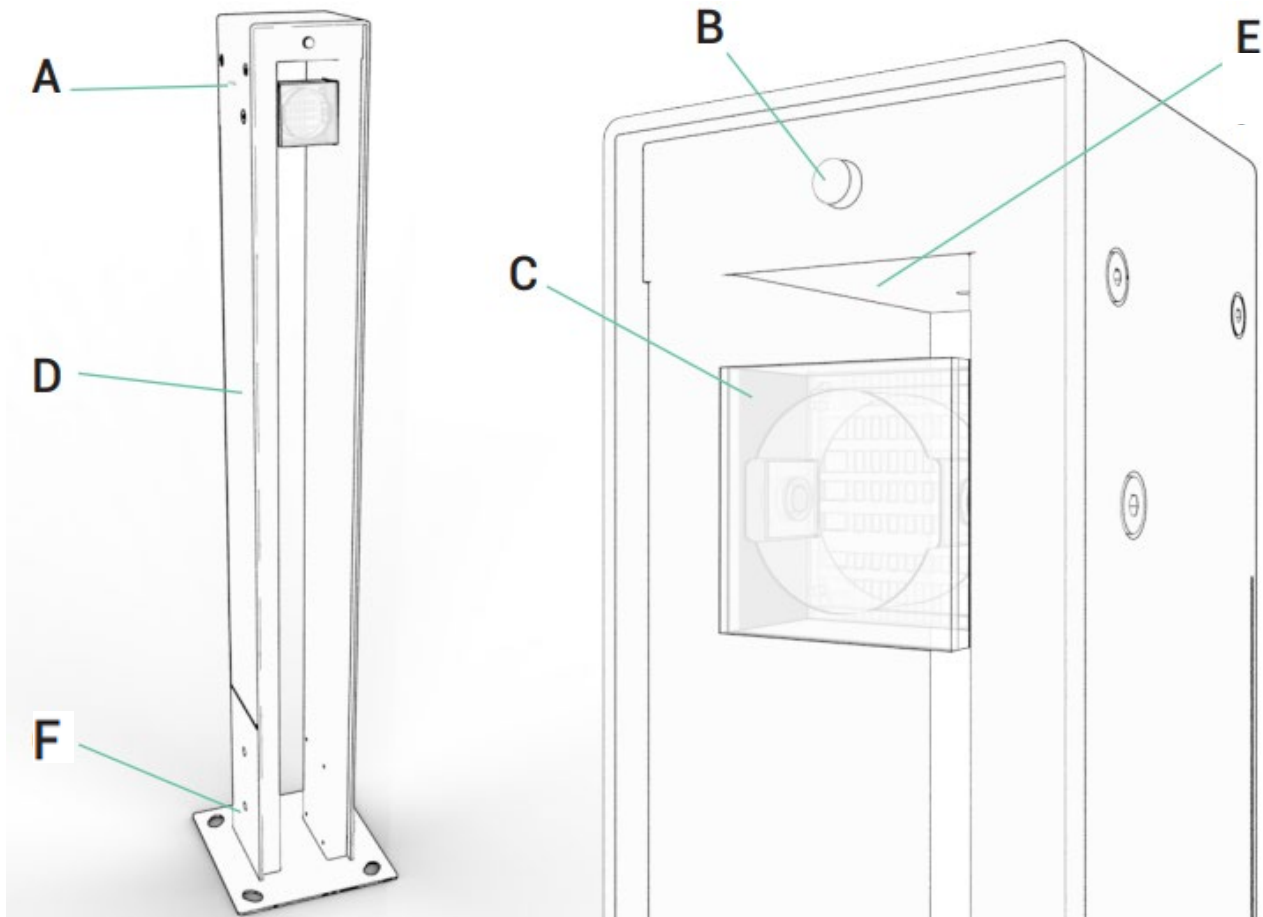
Product lifespan over 20 years.

Dimensions : 1007 x 126 x 103 mm.

Weight : 3,4 kg.

Maximum illuminance in Lux for an average winter PDU in Marseille, for a 6 hours lighting, for a 4000 K Led.





- A. Indication LEDs,
- B. Motion sensor,
- C. Optical block,
- D. Solar panels,
- E. Board below the bollard's head, with access to the ON/OFF and scenario selection button, as well as the label with the identification number of the product.
- F. Anodized aluminum frame with polyester powder coating finish.

## Unpacking

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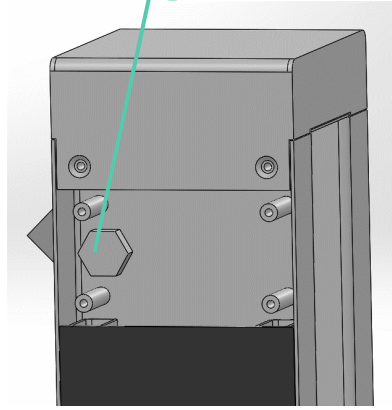
Check all parts of the product for damage.

Do not put the product into service in case of damaged solar panel or optical block.

The identification number of your Onyx bollard is indicated on a label inside the bollard's head, under the board E. The smartphone application also allows to know the identification number (see in following pages).

Orientation of the optical block towards the right area to enlighten:

- Unscrew the 4 screws on the side panel,
- Remove the side panel to access M12 screw,



- Repeat these operations on the second side of the panel,
- Unscrew the 2 M12 screws (one turn of loosening is enough),
- Orientate the optical block towards the area to be illuminated,
- Tighten the 2 M12 screws,
- Then shut the 2 side panels.

## Fixture positioning tips

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Choose a suitable location where sunlight can directly reach the solar panel.

Avoid obscuration by eaves or trees.

In the northern hemisphere, favor installation to the south of obstacles, to the east or west. Do not install north of an obstacle.

In the southern hemisphere, favor installation to the north of obstacles, to the east or to the west. Do not install south of an obstacle.

### Recommendations

The most critical time for solar lighting is winter.

Days are shorter than in summer, and the sun is lower in the sky, therefore the cast shadows are longer. Therefore, it is advisable to assess the correct positioning of a solar lighting device in winter, to avoid shadow areas.

It is advisable to draw up a layout plan of the site before installation. You can indicate the location of the devices there, making sure to note their identification numbers indicated on their labels.

### Example

In winter, the sun is 21° in Bordeaux, France at noon. A 2-meter-high wall then has a shadow cast of 5 meters directed towards the North.

In summer, the sun is 68° in Bordeaux, France at noon. A 2-meter-high wall then has a shadow of 70 cm directed towards the North.

In Bordeaux in winter, the sun rises in the southeast at 7:30 a.m. and sets in the southwest at 4:30 p.m.

In Bordeaux in summer, the sun rises in the northeast at 4:30 a.m. and sets in the northwest at 8 p.m.

More information: [www.sunearthtools.com/dp/tools/pos\\_sun.php?lang=en](http://www.sunearthtools.com/dp/tools/pos_sun.php?lang=en)

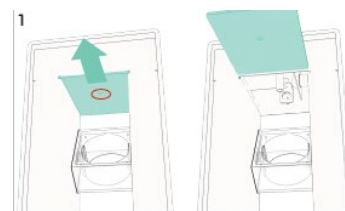
## Control with the Nowatt Lighting application

### Download the Nowatt Lighting app

The Nowatt Lighting application is free to download from the Play Store and the Apple Store. You can download it on a smartphone or a tablet.

### Turn on the bollard manually

- Unscrew the plate located under the bollard head.
- Remove the plate.
- Press the button located in the bollard head to start the device. This button can also be used to manually select scenarios, the number of lit red LEDs on the side of the bollard head indicating the scenario number.



### Activate your Bluetooth connection

Start the Nowatt Lighting application on your Smartphone

The app asks you for permission to access Bluetooth. Tap "Allow" then "OK".

### Home page

Products are divided into two groups: those you have already logged into are listed at the top in "My Modules". Others are listed below in "New Modules".

To connect to a device, click on its identification number shown in the menu.



### Enter your access code



Nowatt Lighting will communicate a code by default in the user guide delivered with the device.

You can change the code to secure your product in the settings.

**It is important to check with the person in charge of programming that the modified password will be recorded and distributed to those responsible for the project.**

## Homepage information

Identification number of your product

Battery charge status

Mode : OFF / Activated / Demo

Identification of the model of your product

Settings

All scenarios available in the app

Your module may display a 0% state of charge on startup. Wait a few seconds for the actual percentage to display.

## Bollard identification

It is possible to identify the device to which you are connected with your phone by pressing the OFF button. The bollard in question will then emit a flash.

## Select a light animation

1. Tap "Scenario" at the bottom of the screen.
2. Select a scenario from the 4 choices available at the top of the screen.
3. For each scenario, you have the possibility to adjust the white temperature of the LED.
4. To apply the scenario, tap "Use this scenario".

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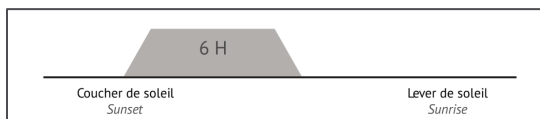
3

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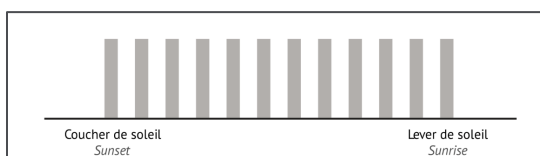
Scenario 1 : Lighting for 6 hours following sunset.



Scénario 2 : Lighting for 4 hours after sunset and 2 hours before sunrise.

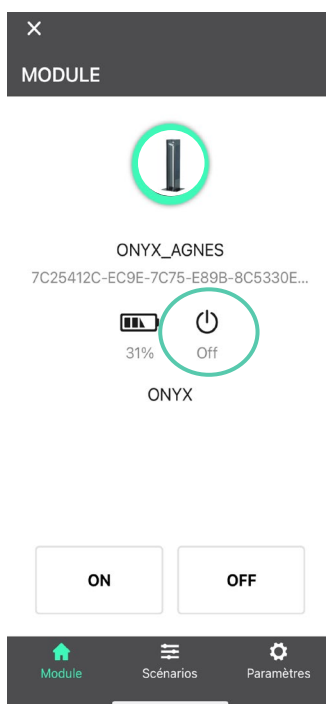
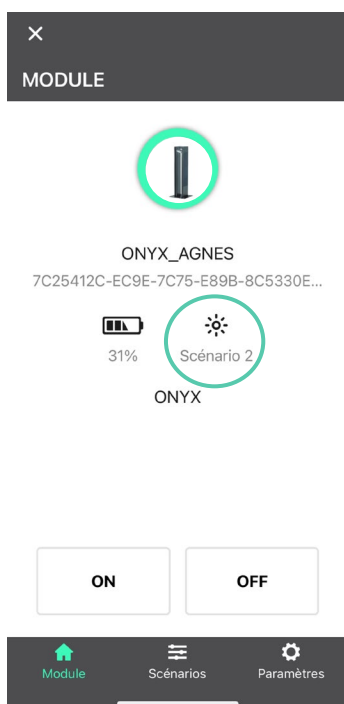


Scénario 3 : Lighting on detection of presence for 2 minutes, throughout the night.



Scénario 4 : Specific scenario programmed in factory by Nowatt Lighting, on demand at the order.

### Check your programming



If the home page indicates OFF or Demo, your scenario is not saved, you must repeat the previous steps.

## Installation

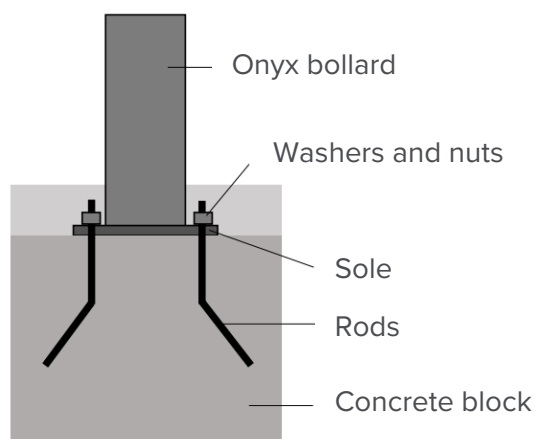
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*Information given as an indication.*

Make a concrete base with anchor rods.

The anchoring rods are not supplied.

Height of the Onyx bollard	1 meter
Dimensions of the concrete block (side x side x height)	400 x 400 x 400 mm
Distance between rods	150 mm
Diamètre tiges	M12



## **Cleaning and care**

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The product requires no maintenance.

Regular checks for damage can increase the lifespan of the product.

Removing dirt can help increase product performance.

## **Risk of material damage**

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Unsuitable detergents may damage the luminaire.

Check surface tolerance with detergents.

If there is dirt or weather deposits on the solar panel, clean it with a soft cloth and mild detergent.

## **Waste management**

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Please observe the legal obligations relating to waste management.

Return old devices to your dealers or directly to Nowatt Lighting.

Do not dispose of old devices with unsorted household waste.

Do not throw old devices into fire or water.

## **CE declaration of conformity**

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This product complies with the requirements of the following standards, laws and directives:

- Electromagnetic Compatibility Directive 2004/108/CE
- RoHS Directive 2001/65/EC
- Act on waste electrical and electronic equipment (ElektroG)
- Batteries and Accumulators Act (BattG)
- WEEE Electrical and Electronic Devices Directive 2012/19/EU

## Warranty

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Nowatt Lighting products are manufactured with the utmost care.

The function and safety of this product have been tested according to the currently valid directives, with a final inspection.

Nowatt Lighting guarantees faultless condition and operation.

The warranty period is 24 months and begins on the day of sale to the customer.

It includes the elimination of defects resulting from a defect in material or construction.

The warranty will be provided at our discretion by repair or exchange of defective parts.

The warranty does not apply to wearing parts.

The warranty does not apply to damage or defects due to improper use or maintenance.

Consequential damage to other objects is excluded from the warranty.

The warranty only applies if the undisassembled device is returned accompanied by a brief description of the defect and a receipt or invoice bearing the date of purchase and the seller's stamp.

Please send the product properly packaged to the after-sales service.

In the event of faults not covered by the guarantee, contact your point of sale to find out if a repair of the device is possible.

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