

LIGHTING MANAGEMENT

Lighting management is provided by the charge controller. It allows you to configure a thoughtful use of nighttime lighting based on lifestyles: you only light up when needed and adopt a responsible lighting approach. This management also allows you to precisely size the power of the solar panels and the capacity of the batteries.

- ✓ **ENERGY SAVINGS**
- ✓ **INCREASED BATTERY LIFE**
- ✓ **ENHANCED SAFETY**

OUR LIGHTING MANAGEMENT SOLUTIONS

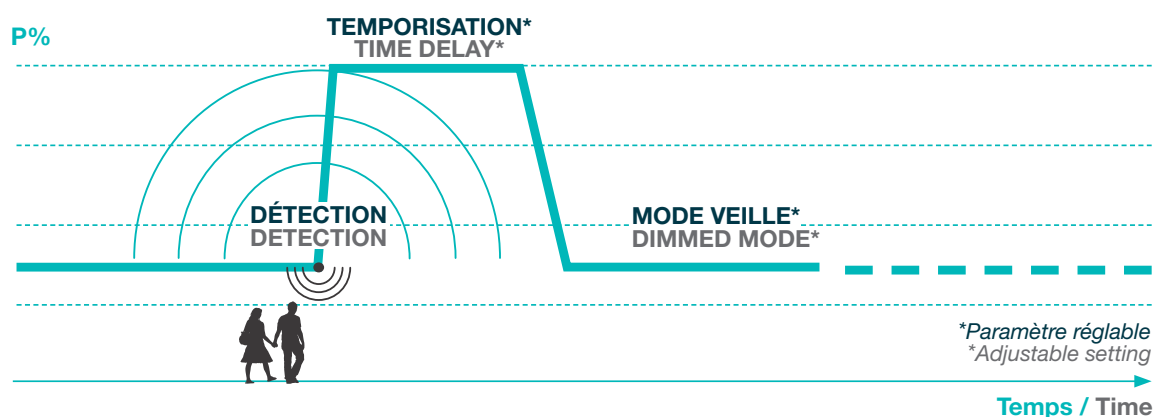
PRESENCE DETECTOR

How it works : Our presence detectors use infrared technology. This technology analyzes movement and heat. It is the combination of these two criteria that will change the state of the light fixture.

A standby mode can be activated to keep the site welcoming and well-marked. The sensors designed by Novéa are completely waterproof (IP66) to withstand external constraints.

Benefits:

- Minimizes energy consumption for «precise» lighting tailored to actual needs
- Smaller solar panels and batteries required
- Reduced light pollution
- Attention-alerting and safety-enhancing functions



Energy Sizing for the luminaire:

To size the solar panel and battery, we must estimate energy consumption, which depends on the light's power rating and operating duration. During the energy analysis—specifically for presence-detection mode—we must base our calculations on an assumed number of activations and/or the number of hours the light will operate at full power. Once this duration is determined, the streetlight is sized accordingly; we then cap the full-power operation so that if the actual duration exceeds our initial estimate, the light remains in standby mode. The objective is to ensure the product maintains its required autonomy and to limit battery discharge, thereby preserving battery lifespan.

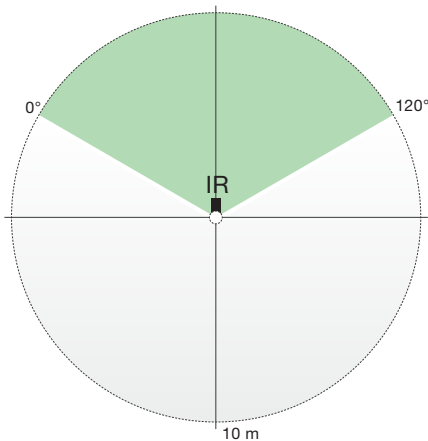
LIGHTING MANAGEMENT

Detection zones:

We can manage a maximum of 3 presence sensor per mast. Here is an example of a detection zone:

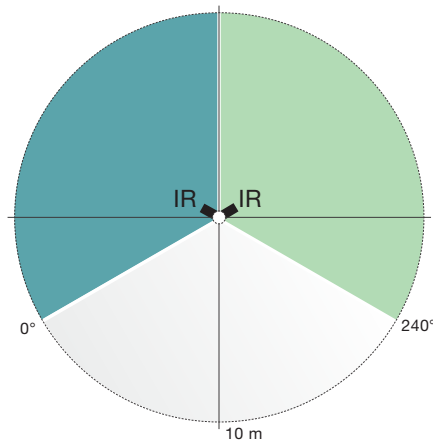
1 sensor

120° detection zone
up to 10 m.



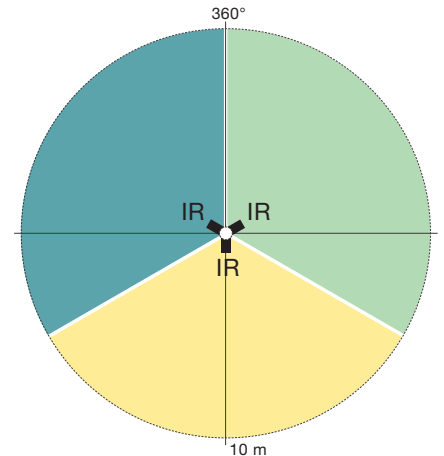
2 sensors

240° detection zone
up to 10 m.



3 sensors

360° detection zone
up to 10 m.



Installation:

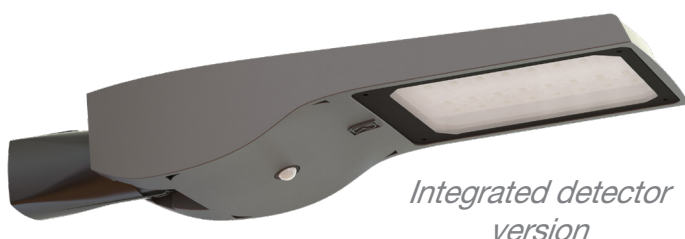
Recommended maximum installation height: 6 m

Version Integrated into the Light Fixture

Optimal aesthetic appeal: the presence sensor becomes very discreet. Option to add a remote detector on the mast.

Remote Sensor

1 to 3 sensors per pole. Allows for detection of a specific area outside the lighting zone.



*Remote sensor
version*

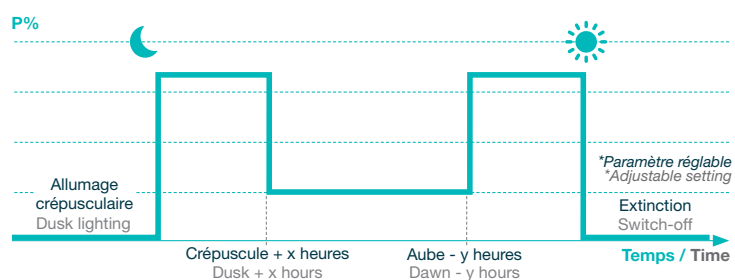


LIGHTING MANAGEMENT



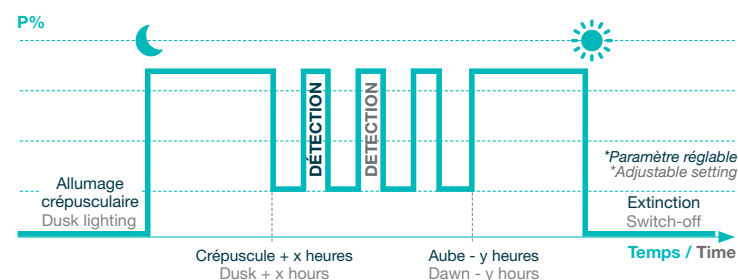
TIME SLOT SYSTEM

This feature allows you to program brightness levels associated with specific time slots.

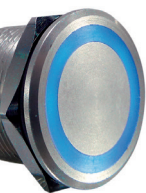


TIME SLOT SYSTEM + DETECTION

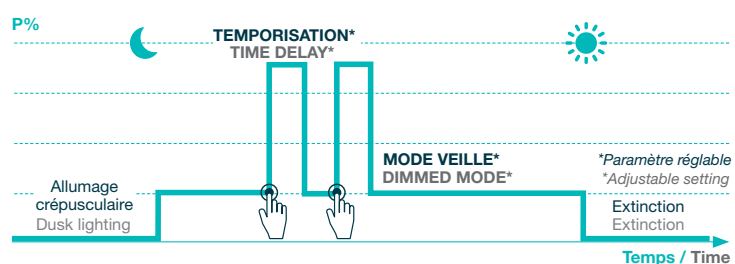
It is possible to combine different management systems.



PIEZOELECTRIC SWITCH



The luminaire turns on instantly when the switch is pressed. It turns off automatically or enters standby mode at the end of the timer delay. At dusk, the blue ring around the switch lights up to highlight the light fixture and indicate a possible action to the user.



LIGHTING MANAGEMENT

REMOTE CONTROL

A remote control allows you to turn on the lights from a distance using a built-in system that communicates via radio frequency. The remote control can also be used solely to override a standard program. Various ranges are available (up to 600 m).



RADIO FREQUENCY

Remote Lighting Control: One or more RF transmitters send the command to turn on one or more light fixtures, with the ability to manage separate lighting zones.



SCHEDULE CHANGE

A default program is set up and can be modified using a reprogramming key that is inserted into the circuit board.

This key also allows for the collection of data from the light fixture (daily energy production, number of detections, battery status, etc.).