

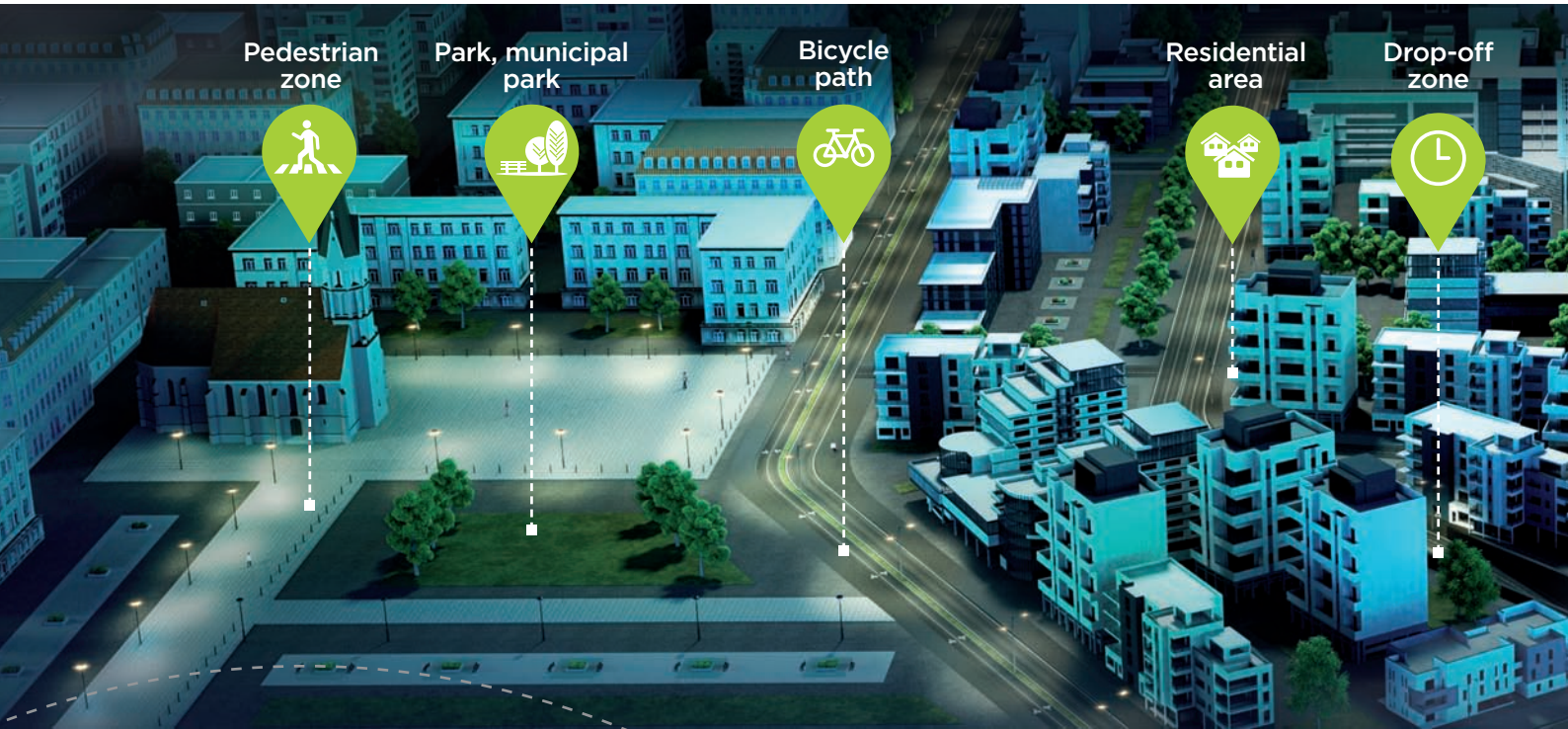


SENSING ECOSYSTEM
FOR OUTDOOR LIGHTING



Sogexi
LACROIX

Maximise energy savings while maintaining safety & the nighttime environment



SENSYCITY IS THE 1ST COMMUNICATING SENSING ECOSYSTEM FOR OUTDOOR LIGHTING

Intelligent and **standalone**, it adjusts the lighting to the activity and the user's need.

SUSTAINABLE DEVELOPMENT
Reduce carbon impact and light pollution

COMFORT & WELL-BEING

Guarantee service quality and safety



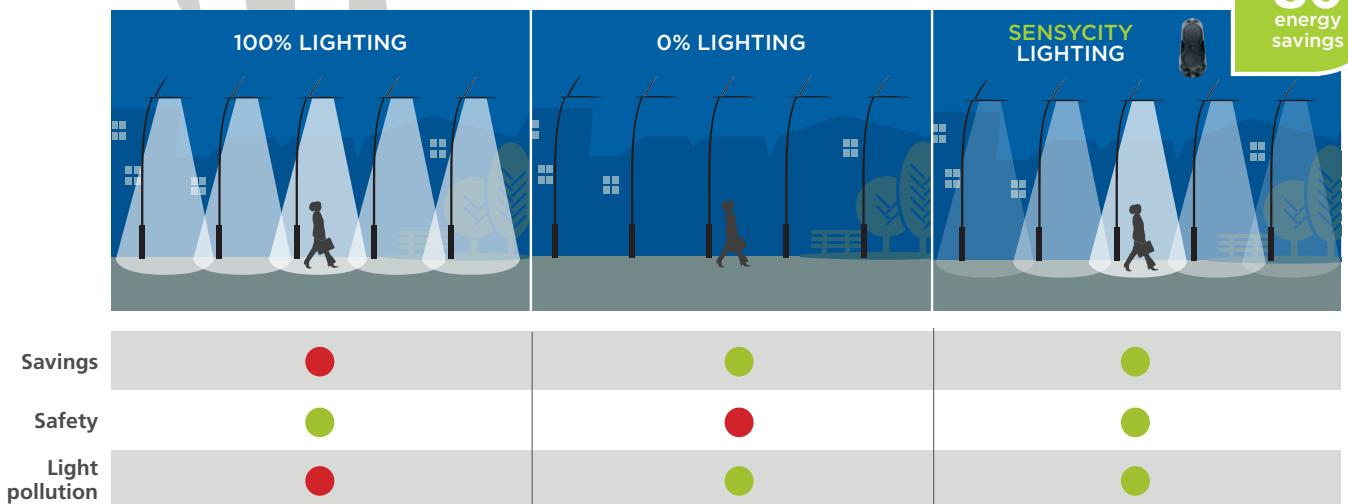
CONTROL ENERGY CONSUMPTION

Outdoor lighting represents up to **40%** of city electricity expenses



Lighting comparison on these areas

Up to **80%** energy savings



SensyCity, the outdoor lighting solution best suited to meet the needs of municipalities.

Savings: energy savings at night (mainly during low activity periods).

Safety: for people and goods in the street at night.

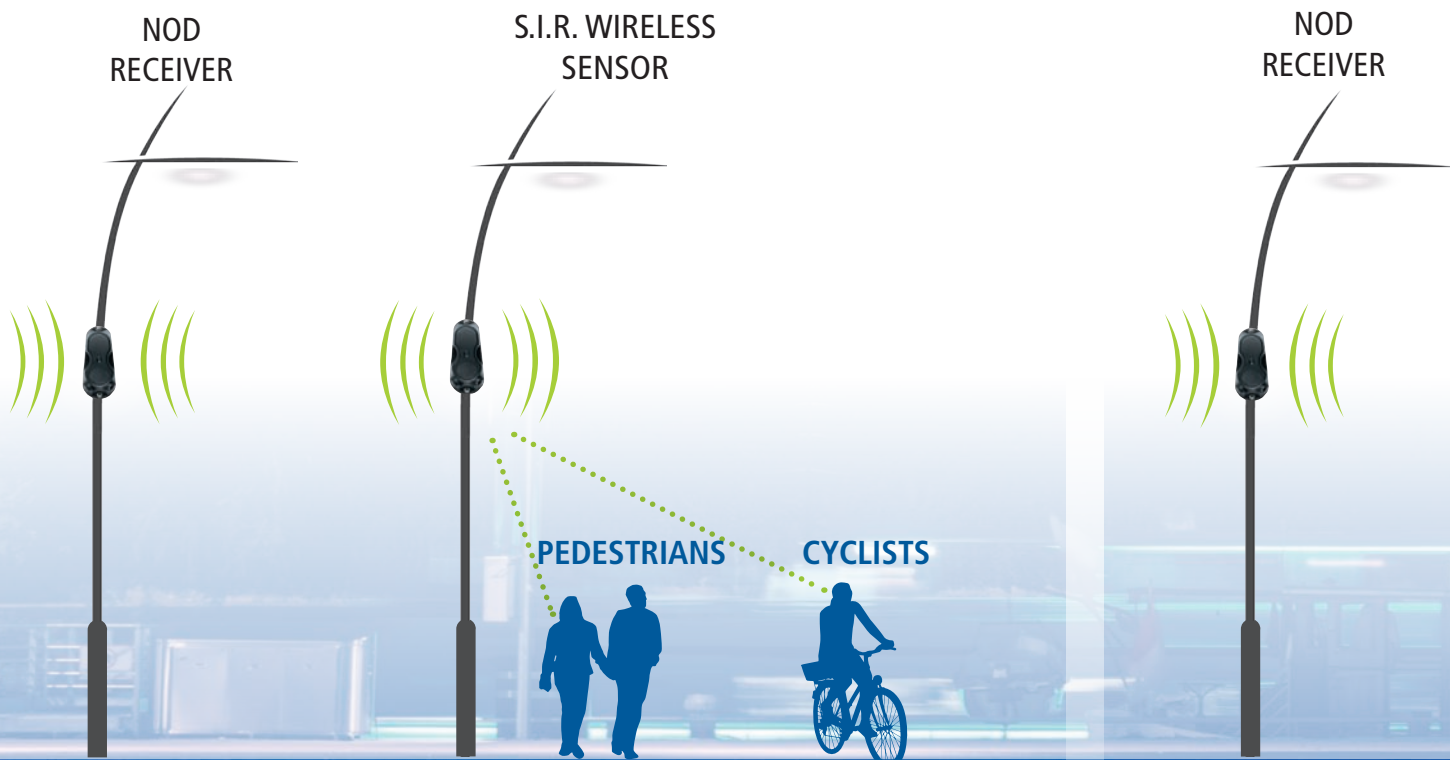
Light pollution: citizens, plants and animals that could be disturbed by light pollution.

SensyCity, communicating ecosystem to adjust light

INNOVATIVE SOLUTION

SensyCity allows light to be adjusted thanks to local, **real time** wireless communication between lighting points. Open to the various sensors of the city, SensyCity is highly **interoperable**.

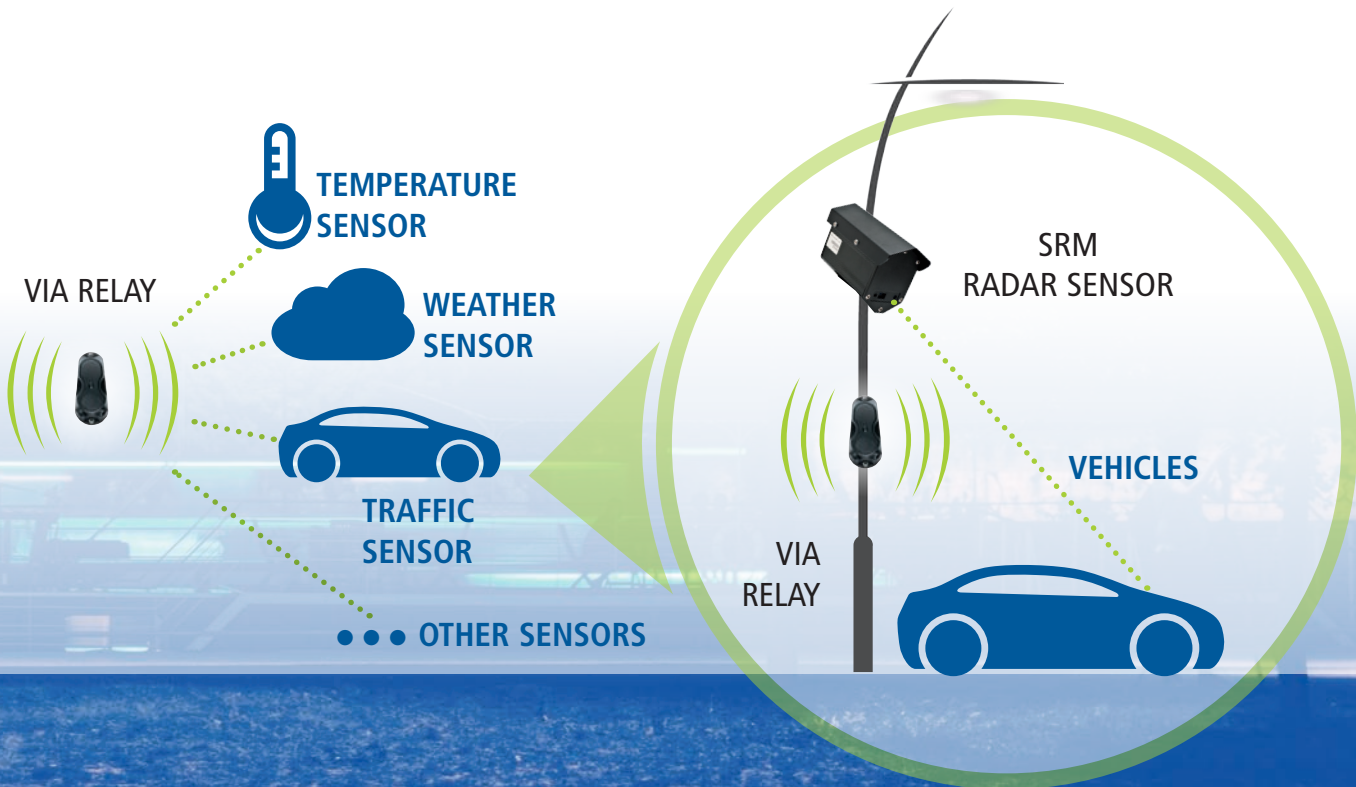
Detection of pedestrians and bicycles





Detection through various sensors

EXAMPLE:
LIGHT ADJUSTED TO PASSING VEHICLE



SensyCity, dedicated sensing system for outdoor lighting



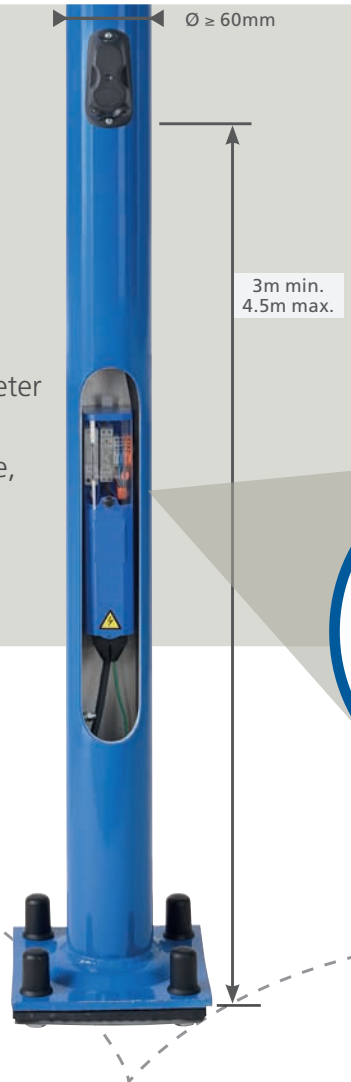
EASY to install

Easy to implement: wireless long-range communication avoids complex wiring on all existing installations.

Mounting on any shape of pole, any diameter $\geq 60\text{mm}$, or on facade.

Simple connection at the bottom of the pole, pre-cabled (5 metres).

Integrated **230V mains**.



«PLUG & PLAY» PACK

with complete modules or junction boxes for even greater simplicity.



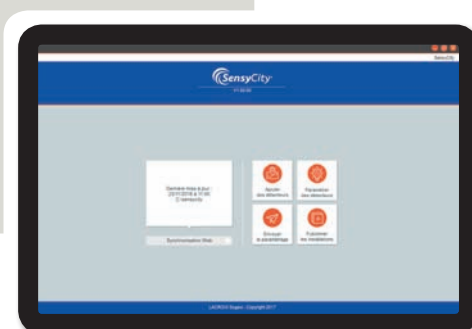
EASY to program

SensyCity intuitive client interface: group light points and configure them in just a few clicks.

Wireless setup of the entire installation.

Quick and easy implementation of dynamic detection.

Web backup: shared and secure access to every SensyCity installation setup.





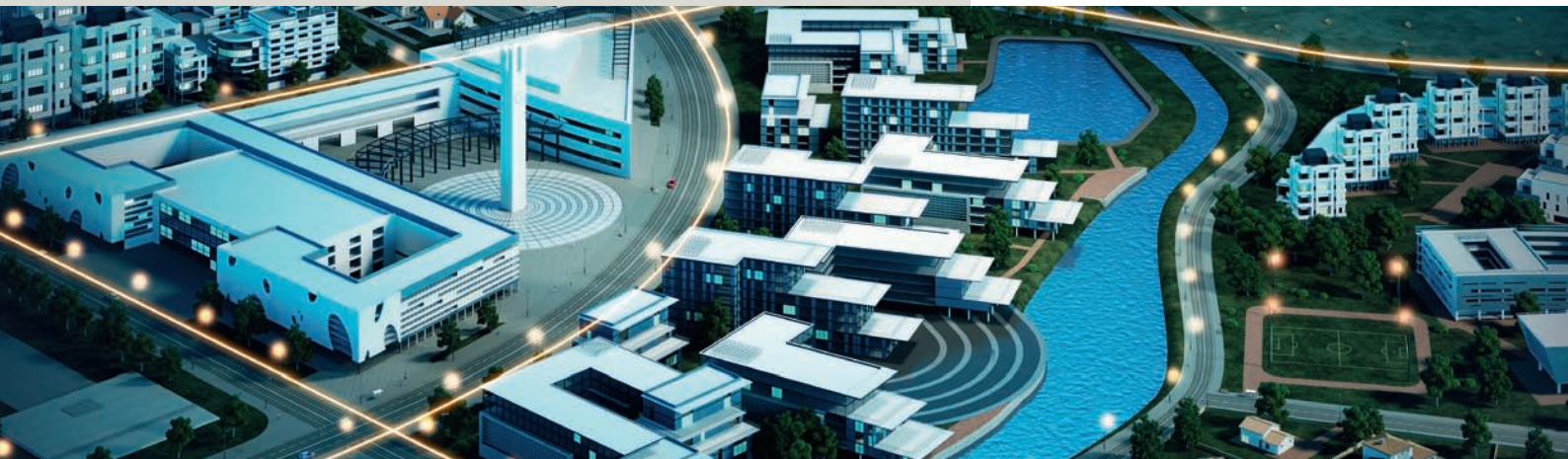
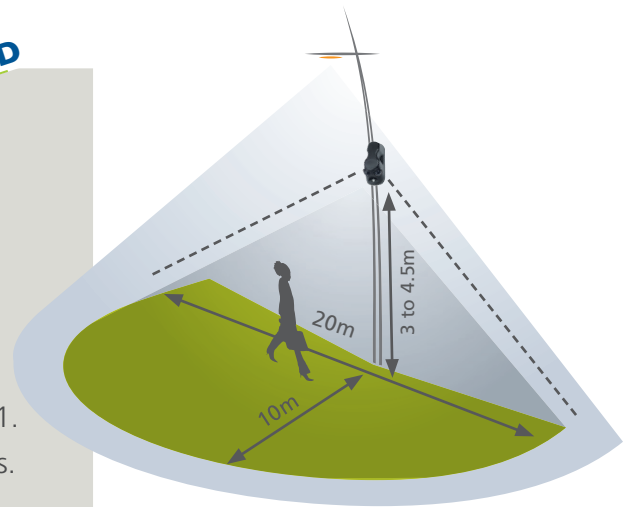
DESIGNED for urban environments

Efficient: detection area perfectly adapted for street lighting with its 2 PIR sensors.

Standards: compliant with lighting standard EN 61 347-2-11.

Robust: IK08 housing and protective flange for the 2 sensors.

Discreet: compact, it integrates perfectly into the urban landscape.



FUTURE-PROOF towards tomorrow's city

Open on the smart city: VIA wireless relay is the link to adjust and optimise outdoor lighting with various sensors.

Interoperable with any new or existing LED lights as it is installed on the pole.

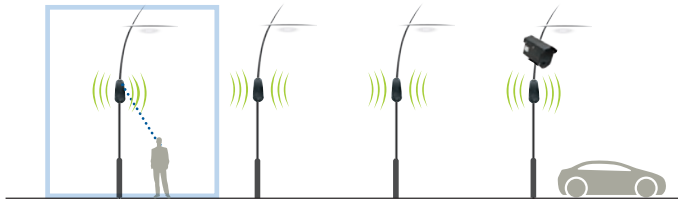
Future-proof, installations could be reconfigured and extended to meet your needs.



Enables an Energy Efficiency Certificate to be obtained RES-EC-03.

SensyCity: the offer

S.I.R. WIRELESS: communicating motion sensor



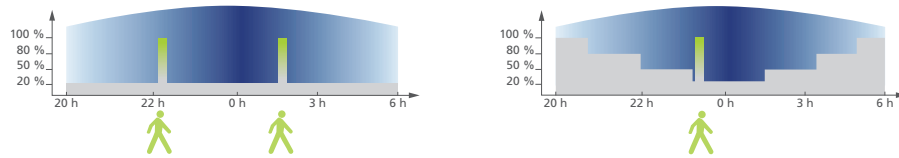
Intelligent system based on motion sensors for pedestrians and cyclists.

When no activity is detected in the area, light is dimmed down to a minimum level, offering only guidance.

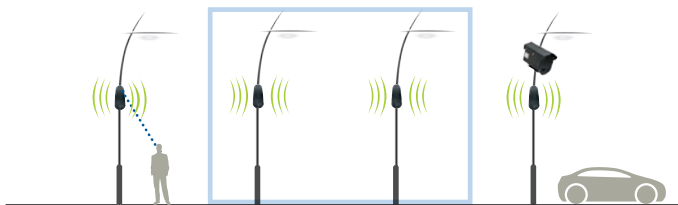
The slightest movement:

- immediately restores brightness thanks to priority instructions to the LED driver (level and time adjustable).
- sends wireless information to surrounding light points equipped with S.I.R. Wireless sensors, NOD receivers or VIA relays.

Dimming scenarios configurable in the S.I.R. Wireless with the SensyCity application.



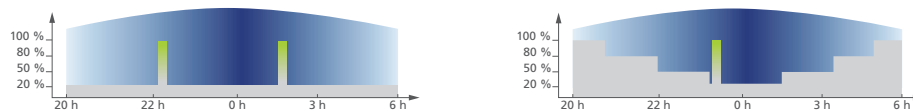
NOD: receiver



Device receiving the radio information coming from a S.I.R. Wireless sensor or a VIA relay.

The NOD immediately restores the light level when receiving the radio information through a priority instruction sent to the LED driver (level and time adjustable).

Dimming scenarios configurable in the NOD using the SensyCity application.



VIA: relay



Device allowing the city's various professions to link with the SensyCity ecosystem to adjust and optimise light based on a variety of information.

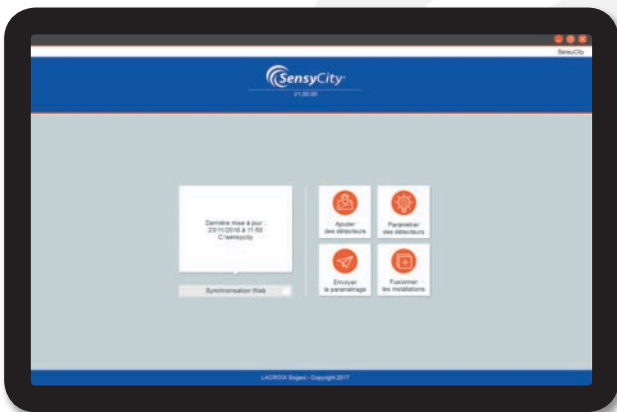
The VIA relay receives the information as soon as a sensor is activated (vehicle radar sensor, traffic sensor, weather sensor, etc.) and sends it immediately via radio to the light points equipped with NOD receivers or S.I.R. Wireless.

CONFIGURATION APP

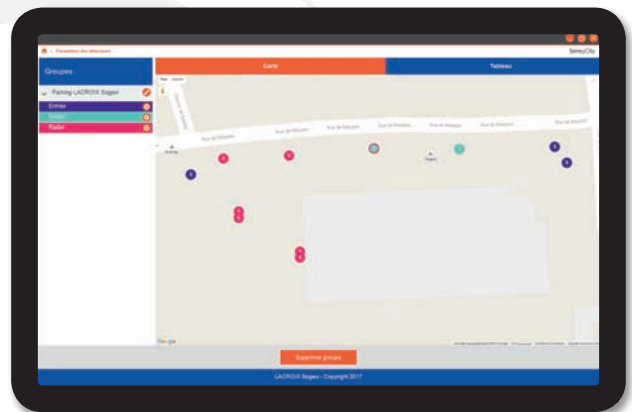
The SensyCity configuration application enables highly intuitive use of the sensing ecosystem and allows you to upgrade your installations easily.

Here are some illustrated examples of the SensyCity application's functions:

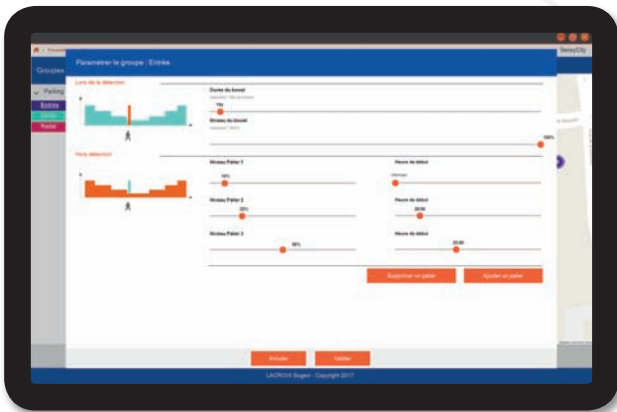
MAIN MENU



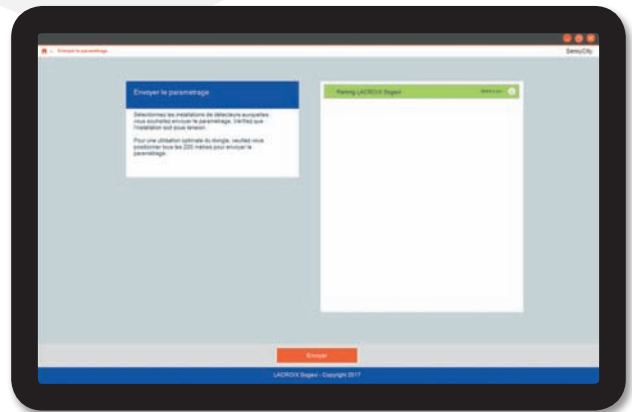
CREATE GROUPS ON GOOGLE MAPS



CONFIGURE LEVELS, TIME AND NIGHT PROFILES



SEND THE SETTINGS TO THE INSTALLATION



DONGLE



Plugged into the USB port of a laptop or a tablet, it allows **the ecosystem' devices** (S.I.R., NOD, VIA) installed on the light points **to be localised and registered.**

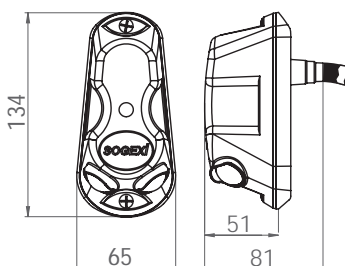
The dongle enables **configuration or wireless re-configuration of all your SensyCity installations.**

Technical specifications

SIR Wireless



Communication		
Communication between light points	Secured LoRa wireless	
Output (driver control)	DALI Dry contact	
Input	na	
Electrical specifications		
Mains (integrated)	220-240V _{AC} / 50-60 Hz	
Power consumption	< 1W	
Electrical class	Class 2	
Overvoltage resistance	4kV	
Mechanical specifications		
Mechanical resistance	IK08 casing	
IP level	IP54	
Material	Housing: Polypropylene IP gasket: Thermoplastic elastomer	
Colour	Black	
Installation		
Operating temperature	-20°C to +60°C	
Min. difference of temperature with the target	+/- 4 °C	
Cabling	Pre-cabled 5m (4 conductors)	
	Mains: 2 conductors Dry contact: 2 conductors	
Mounting	3 holes / 2 M4 screws	
Advised mounting height	From 3m to 4.5m	
Detection area	On the ground: 180° with 10m around the sensor	
Installation setting on the field		
Configuring software on-site	SensyCity App	
On-site tool configuration	Wireless dongle	
Settings that can be adjusted on-site	Setting light point group(s)	
	Light level when sensing activity (\leq 100%)	na
	Boost duration (\geq 3 sec.)	
	Light level when no activity (\geq 10%)	na
	Dimming scenario (1 to 5 steps)	na
Standards & certifications		
Product standards	NF EN 60529	
	NF EN 61347-2-11 (outdoor lighting)	
Certifications	CE	



Dongle



Dimensions

- 63 x 50 x 25mm

Connection specifications

- Connection on PC or tablet: USB plug
- Communication with S.I.R., NOD & VIA: Wireless

Software setup

- 'SensyCity' App
- Hard drive space required: 50 MB
- Operating systems: Windows 7 or higher
- User guide can be downloaded from LACROIX Sogexi website

NOD		VIA	
			
Secured LoRa wireless		Secured LoRa wireless	
DALI	Dry contact	na	DALI
na		Dry contact	
220-240V _{AC} / 50-60 Hz		220-240V _{AC} / 50-60 Hz	
< 1W		< 1W	
Class 2		Class 2	
4kV		4kV	
IK08 casing		IK08 casing	
IP54		IP54	
Housing: Polypropylene IP gasket: Thermoplastic elastomer		Housing: Polypropylene IP gasket: Thermoplastic elastomer	
Black		Black	
-20°C to +60°C		-20°C to +60°C	
na		na	
Pre-cabled 5m (4 conductors)		Pre-cabled 5m (4 conductors)	Pre-cabled 5m (5 conductors)
Mains: 2 conductors	Mains: 2 conductors	Mains: 2 conductors	Mains: 2 conductors
DALI: 2 conductors	Dry contact: 2 conductors	Dry contact: 2 conductors	Dry contact & DALI: 3 cond.
3 holes / 2 M4 screws		3 holes / 2 M4 screws	
From 3m to 4.5m		From 3m to 4.5m	
na		na	
SensyCity App		SensyCity App	
Wireless dongle		Wireless dongle	
Setting light point group(s)		Setting light point group(s)	
Light level when sensing activity (\leq 100%)	na	na	Light level when sensing activity (\leq 100%)
Boost duration (\geq 3 sec.)		na	Boost duration (\geq 3 sec.)
Light level when no activity (\geq 10%)	na	na	Light level when no activity (\geq 10%)
Dimming scenario (1 to 5 steps)	na	na	Dimming scenario (1 to 5 steps)
NF EN 60529		NF EN 60529	
NF EN 61347-2-11 (outdoor lighting)		NF EN 61347-2-11 (outdoor lighting)	
CE		CE	

Radars SRM



Technology

- Ultra high frequency 24.125Ghz

Mechanical characteristics

- Dimensions: 180 x 100 x 70mm
- Weight: 1.2kg
- Housing: IP65 with thermal protection / Painting & anodising

Electrical characteristics

- Switched power
Resistive load: 110 V_{AC} 0.3A - 24 V_{DC} 0.3A
Inductive load: 110 V_{AC} 0.2A - 24 V_{DC} 0.3A
- Supply voltage: 220 V_{AC} +/- 10%
48/62 Hz - fuse protection
- Consumption < 1.5 VA

Installation

- Radar range: 150m for light vehicles
- Operating temperature: -40°C to +75°C
- Connecting: 1 IP68 7-pin connector pre-wired 5m

Settings

- Mode: One-way incoming flow / Two way
- Configured using the switch on the front panel
- Display: High-performance red LED on front panel

Standards

- Compliant with CE standards
- Fulfils the requirements of directive R/TTE 1999/5/EG

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A large graphic of a human head silhouette in profile, facing right. The interior of the head is filled with a blue-to-white gradient and contains a network diagram of white lines and circular nodes. The bottom of the head silhouette is filled with a photograph of a city street at night, illuminated by streetlights.

CONNECTED
TECHNOLOGIES
FOR **SMARTER
MOBILITY**



Paper from sustainably
managed forests.