SensyCity®



SENSING ECOSYSTEM FOR OUTDOOR LIGHTING



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





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.

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Lighting comparison on these areas

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

SensyCity, dedicated sensing system for outdoor lighting





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

347-2-11.

sensors.

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





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.

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

SensyCity: the offer





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.







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, t raffic sensor, weather

sensor, etc.) and sends it immediately via radio to the light points equipped with NOD receivers or S.I.R. Wireless.

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:





CONFIGURE LEVELS, TIME AND NIGHT PROFILES



Plugged into the USB port (S.I.R., NOD, VIA) installed or The dongle enables confi SensyCity installations.

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CONFIGURATION APP

CREATE GROUPS ON GOOGLE MAPS



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

Technical specifications

SIR Wireless



Communication				
Communication between light points	Secured LoR	Secured LoRa wireless		
Output (driver control)	DALI	Dry contact		
Input	na	na		
Electrical specifications				
Mains (integrated)	220-240Vac/	220-240Vac / 50-60 Hz		
Power consumption	< 1\/	< 1W		
Electrical class	Class	Class 2		
Overvoltage resistance	4kV	4kV		
Mechanical specifications				
Mechanical resistance	IK08 ca	IK08 casing		
IP level	IP54	IP54		
Material		Housing: Polypropylene IP gasket: Thermoplastic elastomer		
Colour	Blac	Black		
Installation				
Operating temperature	-20°C to +	-20°C to +60°C		
Min. difference of temperature with the target	+/- 4 °	+/- 4 °C		
	Pre-cabled 5m (4 conductors)			
Cabling	Mains: 2 conductors	Mains: 2 conductors		
	DALI: 2 conductors	Dry contact: 2 conductors		
Mounting	3 holes / 2 M	3 holes / 2 M4 screws		
Advised mounting height	From 3m t	From 3m to 4.5m		
Detection area	On the ground: 180° with 1	On the ground: 180° with 10m around the sensor		
Installation setting on the field				
Configuring software on-site	SensyCit	SensyCity App		
On-site tool configuration	Wireless of	Wireless dongle		
	Setting light point group(s)			
	Light level when sensing activity (≤ 100%)	na		
Settings that can be adjusted on-site	Boost duration (≥ 3 sec.)			
	Light level when no activity (≥10%)	na		
	Dimming scenario (1 to 5 steps)	na		
Standards & certifications				
	NF EN 6	NF EN 60529		
Product standards	NF EN 61347-2-11 (o	NF EN 61347-2-11 (outdoor lighting)		
Certifications	CE			



Dimensions Dongle • 63 x 50 x 25mm

SensyCity

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 City website

Secured LoRa wireless DALI Dry contact		Secured LoRa wireless DALI		
		na		
na	1	Diy	contact	
220.240\/AC	/50,60 Hz	220.260V	AC / 50, 60 Hz	
220-240Vac / 50-60 Hz < 1W		220-240Vac / 50-60 Hz < 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	3	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	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 (≤ 100%)	na	na	Light level when sensing activity (: 100%)	
Boost durati	on (≥ 3 sec.)	na	Boost duration (≥ 3 sec.)	
Light level when no activity (≥ 10%)	na	na	Light level when no activity (≥ 109	
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		



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 VAC 0.3A - 24 VDC 0.3A Inductive load: 110 VAC 0.2A - 24 VDC 0.3A

- Supply voltage: 220 VAC +/- 10% 48/62 Hz - fuse protection
- Consumption < 1.5 VA

NOD

VIA



Operating temperature: - 40°C to +75°C

Mode: One-way incoming flow / Two way

· Configured using the switch on the front panel

• Connecting: 1 IP68 7-pin connector pre-wired 5m

on front panel Standards

Settings

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

• Display: High-performance red LED



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