



# Smart lighting luminaire Alexia

Product information



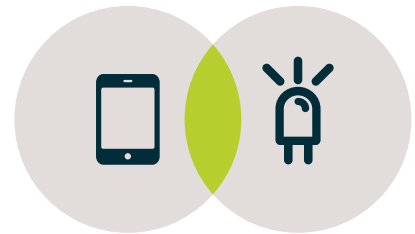
Sustainer 

# Sustainer

## An innovative new lighting company

Sustainer is an innovative Dutch company that develops, manufactures and supplies intelligent public lighting and smart-city solutions to local authorities, businesses and other clients across Europe. Our company combines the production expertise of a former Philips luminaire factory, with intelligent public lighting systems from Dazzletek.

Sustainer LED luminaires are designed with the future in mind. We understand what you need to create a smart city, and we offer solutions that will last for years. Treating each lamppost as a central hub, and the area around it as the defining criteria, we can help you to create a sustainable, safe and healthy society.



### A new generation of LED luminaires

Sustainer is introducing a new generation of advanced LED lighting and luminaires. Developed from our vision of the future, their modular concept and open architecture make them ready now for whatever developments tomorrow will bring.

### The Alexia luminaire

Alexia by Sustainer is an all-round, future-proof luminaire. Choosing this luminaire gives you all the current smart-lighting possibilities – and ensures you are prepared for future developments and opportunities. Via an API, this energy-saving LED luminaire can be connected online to any back-office or other system for remote control and monitoring. The luminaire comes equipped with various sensors that make installation simpler, reduce maintenance costs and extend service life. And thanks to a unique cassette system, it's easy to extend Alexia's capabilities in the future, too. Just add new sensors to the cassette and turn Alexia into an advanced, smart-city hub.


















# Ready for the future, today

## Standard functionality

-  GPS
-  AMB Light
-  Mesh RF
-  Temp IN
-  Power Meter
-  Accelerometer

## Optional functionality \*

-  Humidity
-  Camera
-  Counter
-  Sound
-  Gas
-  Movement
-  Temp OUT
-  CO<sub>2</sub>
-  Wifi
-  Ethernet
-  2G/3G/4G
-  NB-IoT
-  Fiber

\*Optional functionalities are custom developed with our clients

## Back-office connectivity

The Alexia luminaire is exceptionally easy to control and manage via any back-office system for public lighting. Use an API to hook it up to your platform for immediate and optimum control.

## Alexia features

- Energy-saving LED technology reduces CO<sub>2</sub> emissions.
- Dimmable.
- Constant light output (CLO) throughout full life of the LEDs (100,000 hours).
- Cassette system supports addition of further sensors in the future.

## Alexia management and maintenance

Thanks to its open architecture, the Alexia luminaire can be connected to all back-office systems, using an API. This in turn supports remote monitoring and control that lets you:

- Configure each luminaire remotely after installation.
- Change configurations remotely.
- Map and monitor your installed base using GPS positioning.
- Monitor the performance of each luminaire remotely.
- Measure the actual energy use of each luminaire.

## Applications

- Urban areas: city centres, squares, parks and car parks.
- Roads: through roads, roundabouts and cycle paths.
- Residential areas: streets, shopping centres, cycle paths, footpaths, playgrounds and car parks.
- Large sites: industrial parks, ports, airports and stations.

## Quality marks

The Alexia luminaire is CE, ENEC and RoHS certified.



## Bike path



stal 1

## Street 1



stal 2

## Street 2



stal 3

## Area



stal 4

## Technical data Sustainer Alexia

Lumen/power with standard sensoric and RF-modules <sup>1</sup>						
#LEDs	Driver	Power range	Typical luminaire output flux (lm) - Excl. CLO			
			2200K	3000K	4000K	5700K
24 LED	25W	7 - 23 W	600 - 1,800	800 - 2,800	800 - 2,800	900 - 2,900
	40W	24 - 37 W	1,900 - 3,000	2,900 - 4,400	2,900 - 4,400	3,000 - 4,600
	60W	38 - 54 W	3,000 - 4,300	4,600 - 6,500	4,600 - 6,500	4,800 - 6,800
32 LED	90W	55 - 90 W	4,400 - 7,200	6,600 - 10,800	6,600 - 10,800	6,900 - 11,300

Parameter	Standard	Min	Max
<b>Maintenance</b>			
LED	L80 F10 up to 100,000 hours at 25°C		
Driver	up to 100,000 hours at 70°C		
<b>Lighting Classes Optic Acc. EN 13201-2:2016</b>			
Conflict areas	C0 – C5		
Motorway	M4 – M6		
Pedestrians/pedal cyclists	P1 – P7 HS1 – HS4 SC1 – SC9 EV1 – EV6		
<b>Colour Rendering Index</b>			
		>70	
<b>Mains Voltage</b>			
	AC	90 V AC	240 V AC
	Net Frequency	47 Hz.	63 Hz.
<b>Surge Protection</b>			
		10 kV	
<b>LED Driver</b>			
Dimmable		30%	100%
<b>Wireless Communication Mesh STD 869.525MHz:</b>			
Carrier frequency	869.525 MHz	-30ppm	+30ppm
Output power	16dBm		
Sensitivity	-105dBm		
Baudrate	130kb/sec.		
RF Range	121dB		
<b>Material</b>			
Housing	Die-cast aluminum LM6-quality, non corrosive Glass: Energy Vision 3		
Cassette	PC		
<b>Colour</b>			
Standard	Noir : RAL 2100		
Optional	RAL colours		

Parameter	Typical	Min	Max
<b>Environmental</b>			
Operating temperature		-20°C	+35°C
IP rating	IP66		
IK rating Housing	IK10		
IK rating Glass	IK08		
<b>Installation</b>			
Spigot diameter	60 or 76 mm		
<b>Installation</b>			
Height		5 m	12 m
<b>Cable Entry</b>			
Cable Gland	M20		
Cable Clamping Range		6 mm	12 mm
<b>Dimensions</b>			
Length (without Spigot)	600 mm		
Width	290 mm		
Height	100 mm		
Weight	7,5 kg		

## Sensor type

<b>Power meter</b>			
Resolution	0.5W		
Accuracy 1 - 5W	0.5W		
Accuracy 5 - 80W	±5.0%		
<b>Temperature (for inner temperature)</b>			
Measurement range		-25°C	100°C
Accuracy	±1.0°C		
<b>Accelerometer (vibration &amp; tilt)</b>			
Axis	X, Y, Z		
Measurement range	±2.0g		
Threshold	Configurable		
<b>Ambient Light</b>			
Measurement range		1 lux	100k lux
<b>GPS receiver (Location - Position on map)</b>			
Signals	GPS, Beidou		
Update Rate	QZSS, SBAS	2.5 sec	configurable
Position Accuracy	1 m		

1. Communicated values are subject to tolerances in technology. For example, the initial flux and power consumption of the luminaire are indicative values and valid for 25°C ambient temperature. The real flux output depends on environmental conditions (such as temperature) and may vary with specific configurations. For more information please check [www.sustainder.com](http://www.sustainder.com)

Specifications may change and should be treated as an indication only. You are welcome to contact us about your needs.

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