

# Smart Lighting

# Motion Detection

Product sheet



Sustainer 

# Sustainer Motion Detection

## Product information

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### Solution

The Sustainer luminaires Anne, Alexia and Aspira are designed in such a way that multiple sensors can be integrated and applied to the luminaire.

Do you want to effectively reduce the energy consumption and CO<sub>2</sub> emissions from you street lighting? And on top of that get insight in traffic intensity on the roads in question?

Save energy and get relevant insights with the Sustainer motion sensors:

- The Sustainer Motion Sensor is a PIR (passive infrared) solution integrated in the luminaire (Anne, Alexia and Aspira).
- Suitable for applications such as bicycle paths, crossings, residential areas, parking areas, industry, etc.
- The solution includes 1 sensor per luminaire.
- Suitable for pole heights ranging from 3,5 and 6 meters.
- Maximum detection zone: approx. the pole height + 1 meter.
- Maximum speed for accurate detection: approx. 25 km/h.
- Light intensity levels and duration of light levels can be set and adjusted remotely.
- Our advice:
  - Ensure that the first and last luminaires are always switched on to prevent users to enter a "dark road".
  - Ensure that the other luminaire have a minimum light level of 5-10% to offer 'orientation light' for users (for better safety).

Sensor Alexia



Sensor Anne



### Custom settings:

The Sustainer Motion Sensors and the network are configured remotely by Sustainer after the luminaires have been placed on site. The installation can be fully optimised for the local conditions with respect to lumen output, switching times and grouping of the luminaires in the network. During operation the settings can be adjusted accordingly for further optimisation of the system (if needed / desired by the user).

Typical savings: **70-80%**



Energy savings (kWh)



CO<sub>2</sub> reduction (kg)

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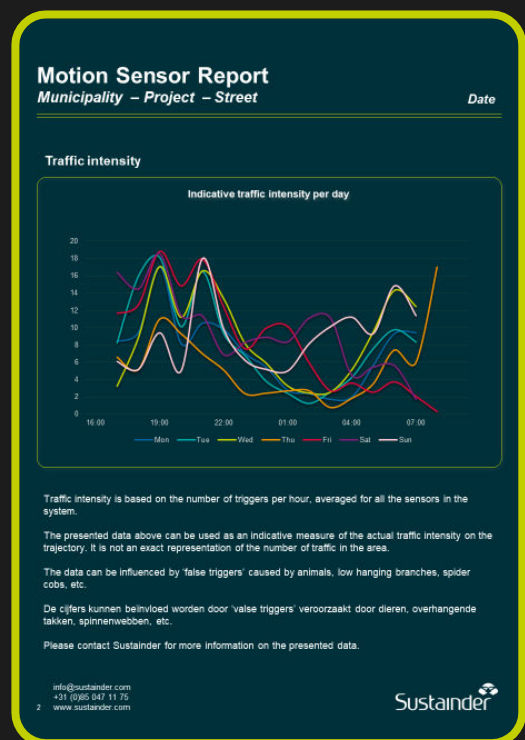
## Product information

### Reporting

Using the standard connectivity of the luminaires it is possible to generate daily data from the Motion Sensors. These data are collected each quarter and presented in a quarterly performance dashboard, including an advice to the customer for system optimization.

With this quarterly report provided by Sustainer the customer gets:

- Insight in the current status of the system (location of luminaires, switching times, group size, timeframe in which the sensors are active, etc.).
- Insight in the performance of the motion sensors.
- Insight in the number of triggers per unit of time, and therefore insight in an approximation for the traffic intensity over time.
- Insight in the energy consumption per luminaire and the realised energy savings compared to a situation without motion sensors.
- Advice on the settings and maintenance of the motion sensors.



## Contact

[info@sustainer.com](mailto:info@sustainer.com)

+31 (0)85 047 11 75

[sustainer.com](https://sustainer.com)

### Emmen

Kapitein Grantstraat 9

7821 AP Emmen (NL)

### Breda

Emmastraat 2A

4811 AG Breda (NL)

### Grefrath

Weststraße 12

47929 Grefrath (DE)