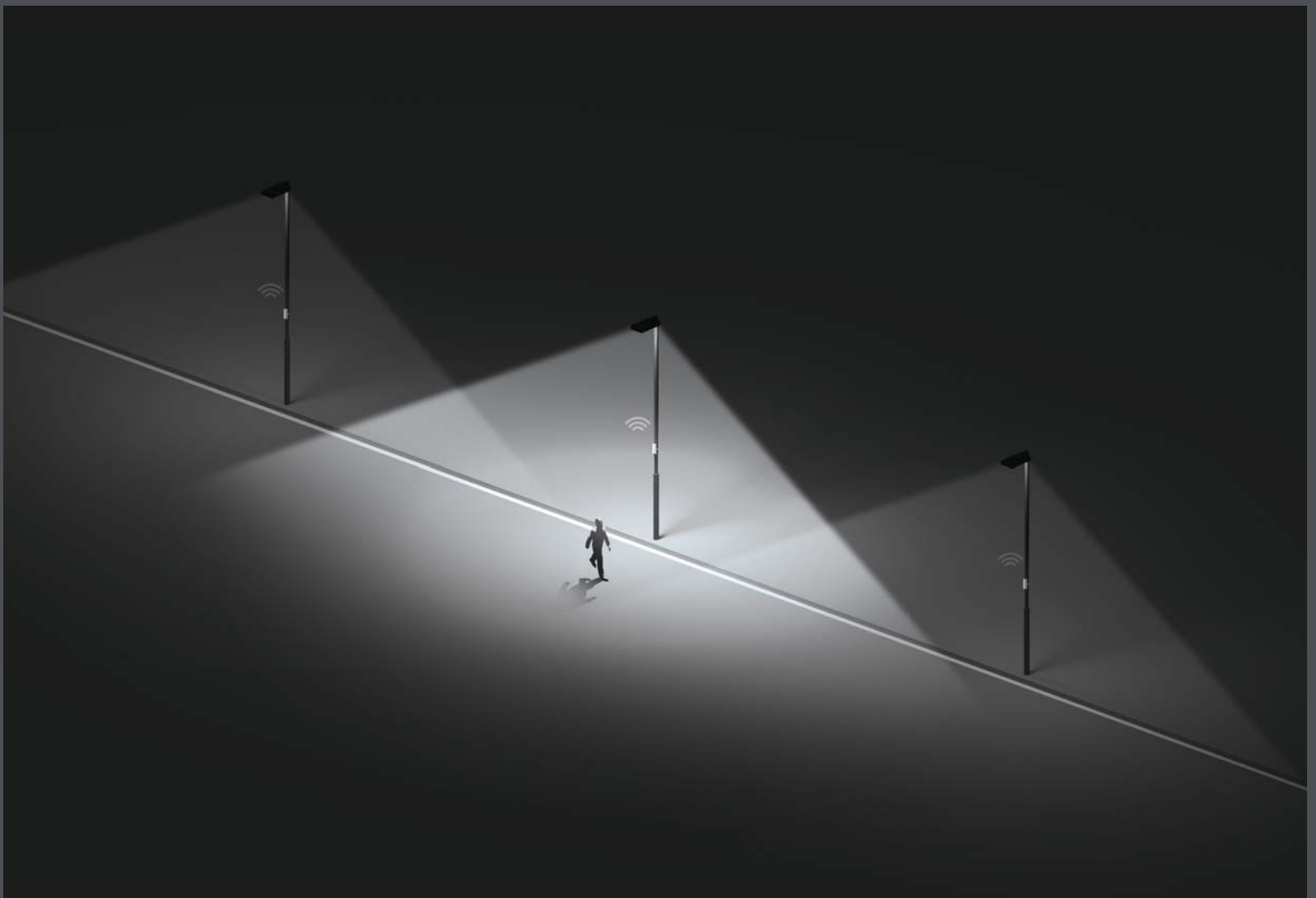




WE-EF LEUCHTEN

Eco Step Dim® Motion
2019



ECO STEP DIM® MOTION

Eco Step Dim® Motion is an energy efficient light management system based on motion data captured by PIR sensors (passive infrared). It is a wireless system for controlling street & area lighting luminaires. The sensors are usually mounted directly on the pole. The luminaires are controlled by DALI and are connected via wireless protocol. The system is easily set up with an Android app.

The right light at the right place. If no presence is detected at a location, the luminaires are automatically dimmed. When presence is detected, the light level for a given number of luminaires is increased to a predefined level, e.g. 100%. And they remain at this level behind the persons or persons moving through the area for a predefined period. Advanced lighting control creates a sense of security combined with good visual comfort, while at the same time saving energy. The system is easy to configure with an Android app and a Bluetooth dongle on site. The system is bi-directional. All luminaires serve as both master and slave, and control and communicate with each other. After initial configuration, connect only with one luminaire to reach all the luminaires.

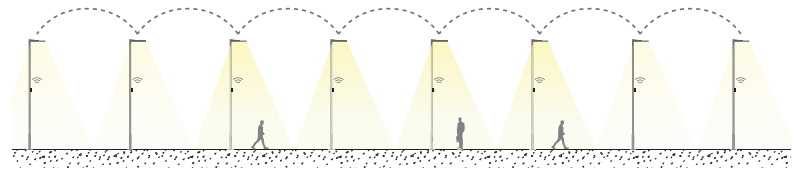
Commissioning

Luminaires that are delivered to a project are programmed during commissioning with both project specific information, e.g. project name, site, as well as default settings for lighting control.

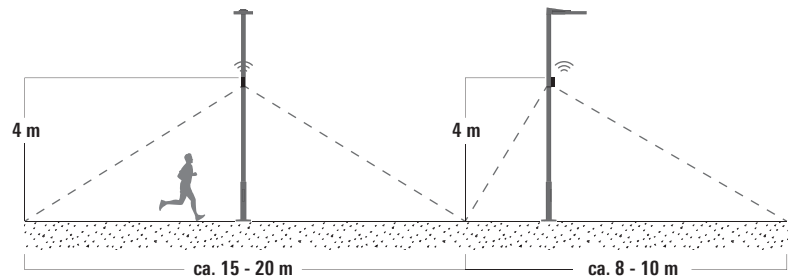
The default settings for lighting control enables each luminaire to function correctly from first installation, until the system has been correctly configured.

Default settings	Value
Enable presence sensor	On
Dim Light Level	50 %
Max. Light Level	100 %
Delay Time	60 sec

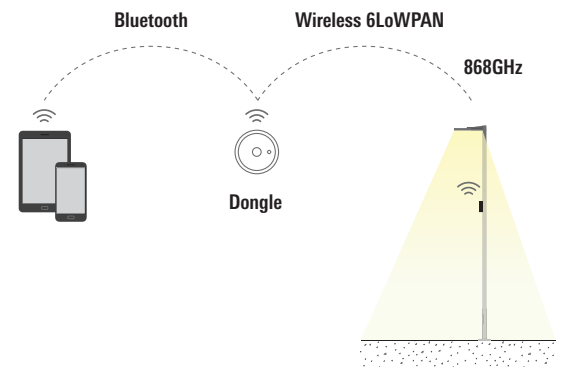
Eco Step Dim® Motion is configured on the system side with a 15 digit password, the Eco Step Dim® Motion App and a Bluetooth dongle.



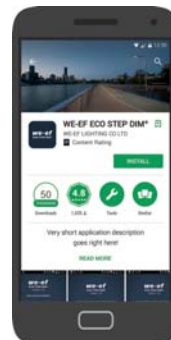
Eco Step Dim® Motion reacts to movement/presence. It allows the communication of the luminaires with each other. Ideal for footpaths, bicycle paths or residential streets.



Analog sensor PIR 110°/116 °, recommended installation height 4 m.



Communication method for commissioning and installation



Android app for commissioning and installation



Dongle for secure communication. Acts as an interface between Android devices and the 6LoWPAN.

ECO STEP DIM® MOTION

With the Eco Step Dim® Motion light management system, WE-EF provides a 2-stage system to realize a variety of control options.

Linked

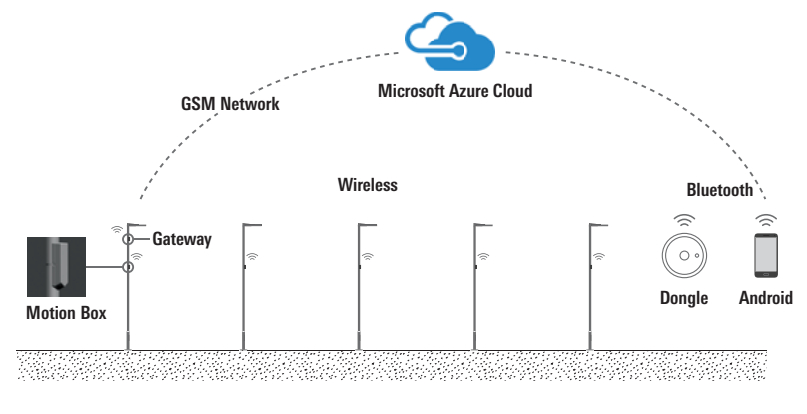
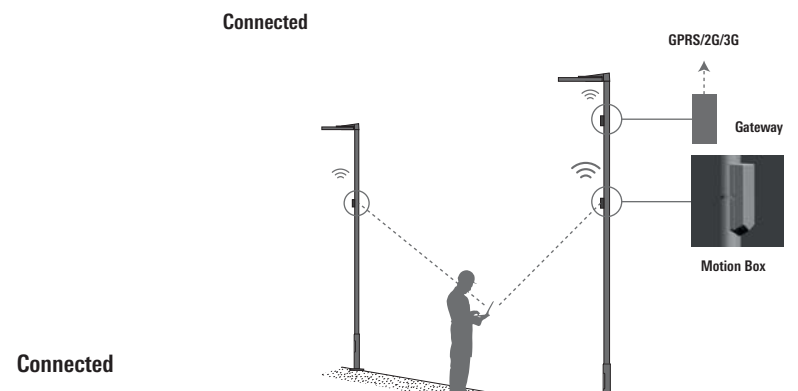
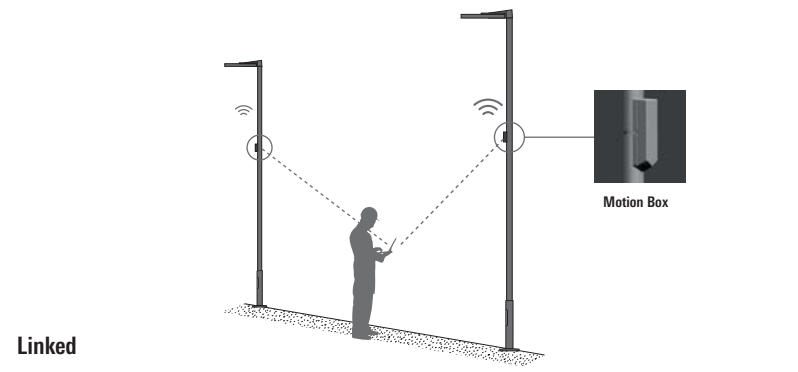
Several luminaires connected via wireless protocol. Data exchange/transmission between the luminaires.

- Presence is detected via two PIR sensors
- Wireless communication 128bit encryption
- Android app and dongle
- Adjustable amount of light (high and low) depending on presence / time via app
- Adjustable ramps between the light levels via app
- Firmware update via wireless protocol
- Luminaire information (firmware, programs, date, etc.) via app
- Records (voltage, burning hours, power factor, temperature etc.)
- Communication and motion detection via Motion Box
- GPS (optional)
- Temperature and impact sensor
- Recommended maximum distance between luminaires 100 metres
- Luminaires share presence message
- Connected luminaires react to the PIR sensor (adjustable)
- Settings can be inherited
- Access to all luminaires from one luminaire for commissioning and installation via app

Connected

Luminaires connected to a light management system via gateway.

- All settings via GPRS/2G/3G possible
- The system can be integrated into other light management systems
- Access with the online Dashboard software from any point
- Data held in Microsoft Azure Cloud
- Reports on energy consumption and configuration
- Error messages etc., can be emailed
- Switching cycles, traffic density, monitoring of the system, manual intervention etc., via online access
- 500 controllers can be managed via one gateway



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