
siteco
Connected street lighting.
Easy to master.
SITECO Connect Wireless Outdoor

Key message of this adaptive lighting project.

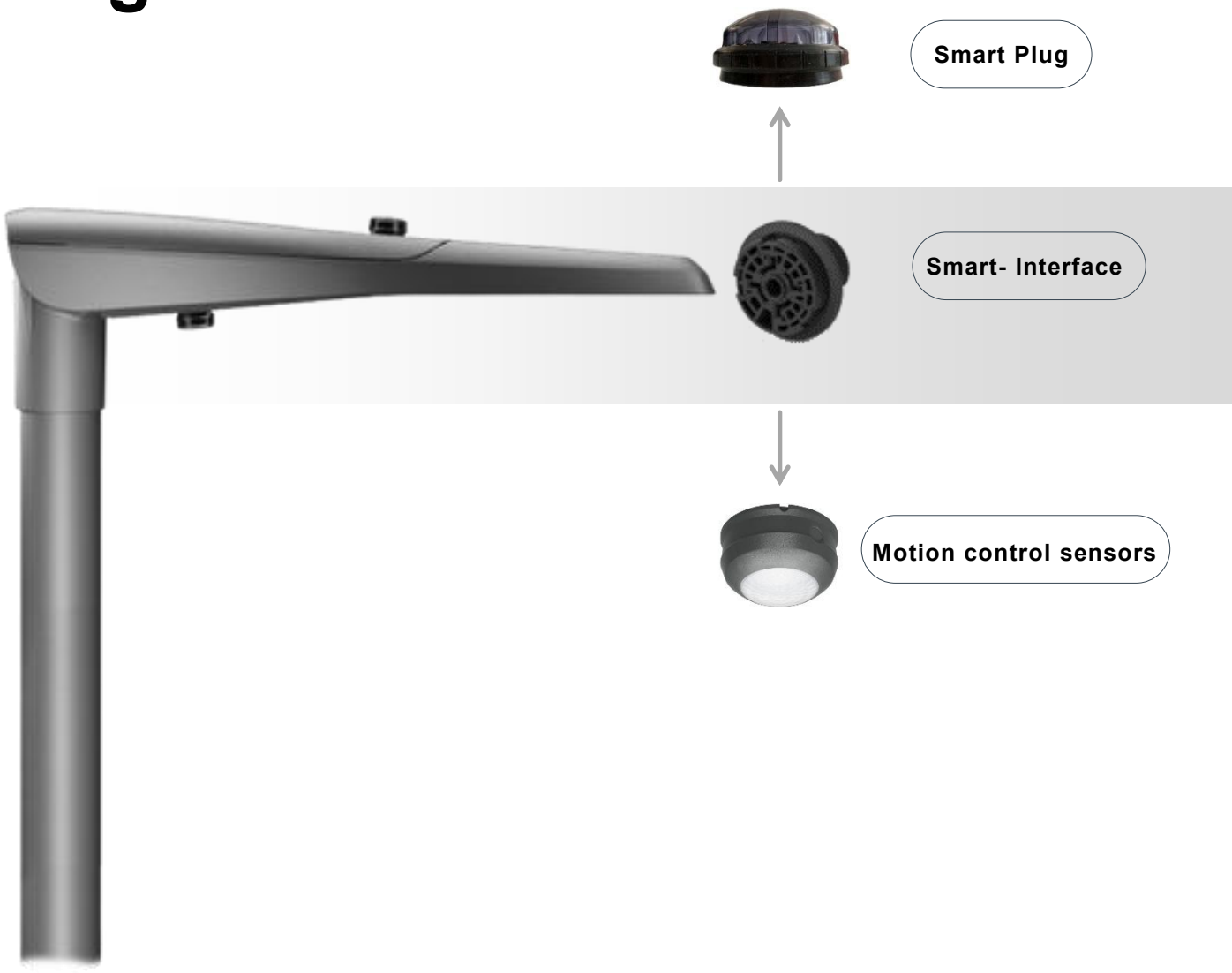
- Road users traveling at high speeds must be detected reliably.
- Wireless networking is essential for controlling the entire group of luminaires as a whole.
- The technology must operate reliably over the long term.

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Smart-Interface & Smart Plug.

A System as Solution.

- A **standardized connection** ensures compatibility between the luminaire, control system and sensor.
- The Zhaga-D4i connection allows a telemanagement system or sensor to be retrofitted.
- Luminaires, sensors and control systems can be **invested in at different times**.
- SITECO customers can **future-proof their installations** now and add a lighting control system of their choice later.
- The control system is **compatible with a wide range of luminaire types**.
- The system can be **changed at any time**.



Mounting Options.



On the luminaire.

- Smart interface compliant with Zhaga Book 18 and D4i
- Widest choice of device types
- Sensors optionally available with integrated wireless connectivity



On the pole.

- Pole-mounted on luminaires not having any Zhaga interface
- Connected to 230 V and the DALI inputs on the control gear

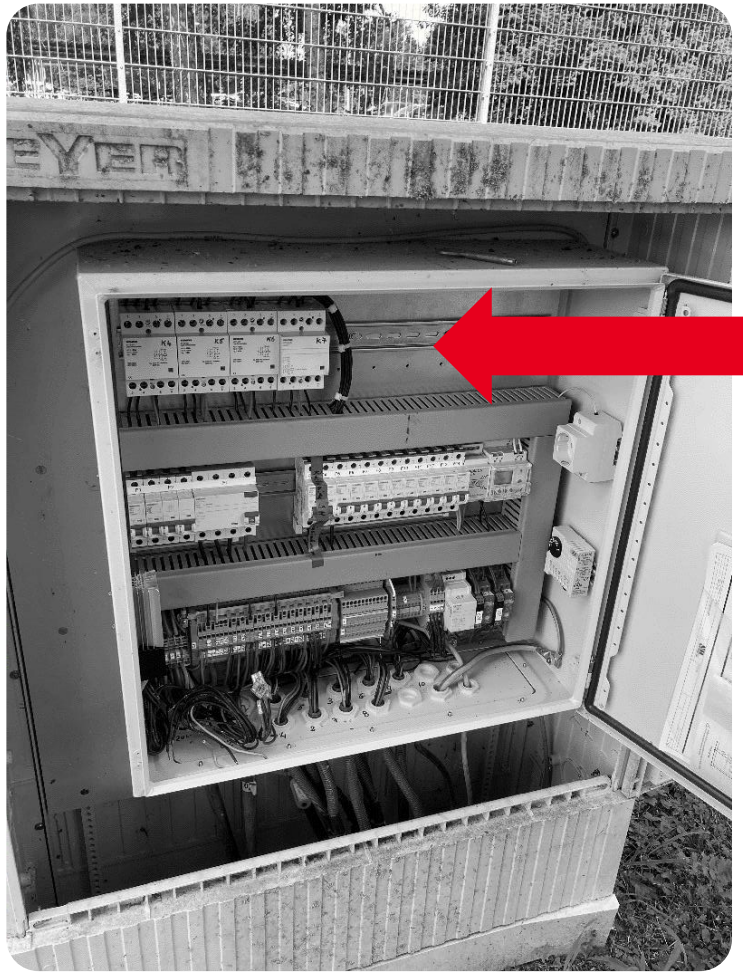


Inside the luminaire.

- Integrated into the luminaire housing
- Wireless networking via a Zhaga controller mounted on top

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Ripple Control Replacement & Group Control.





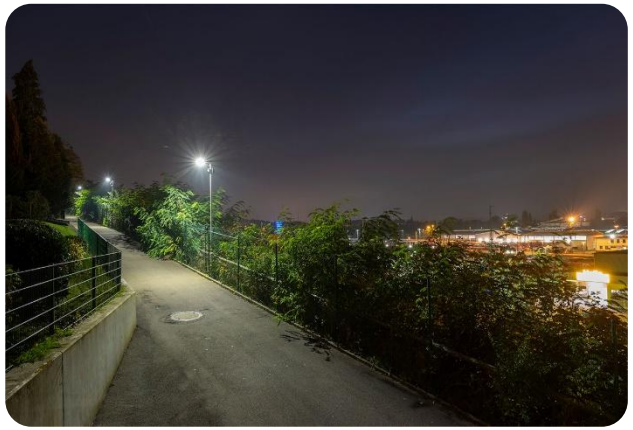
- **Cabinet-based control** unit with relay outputs for connecting contactors, control wires and applications such as architectural lighting
- Remote access
- A direct replacement for existing radio ripple-control systems

Intelligent Lighting Control.



Lighting when and where it’s needed.

Lighting in places with changing usage, such as town hall squares or market squares, can be dimmed automatically according to the time of day or scheduled events.



Enhance safety.

Lighting levels adapted to events or emergency response operations improve visibility.



Reduce vandalism.

Lighting levels that increase in response to movement help protect public and private facilities, such as sports grounds and schoolyards.

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Intelligent Lighting Control.



Protect the climate.

Intentionally reducing light levels where appropriate helps lower the carbon footprint—for example, by dimming lighting in parks and commercial areas during periods of low traffic.



Protect flora and fauna.

Targeted dimming late at night reduces light pollution and helps protect wildlife and plant life, for example in parks and nature reserves.



Funding opportunities.

Lighting control technologies help implement environmental regulations and enable applications for funding.

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Technologies and How They Differ.



PIR motion control sensors

- Passive infrared sensing
- Detects the heat emitted by road users.
- Requires a temperature difference of at least 6°C between the object and its surroundings.
- Works at speeds of up to approx. 40 km/h.
- Detection may be limited by:
  - low heat emissions
  - electric vehicles
  - precipitation and fog
  - objects such as trees, large trucks and buildings



Radar motion control sensors

- High-frequency technology
- Detects the movement of road users.
- Works at speeds of up to 110 km/h.
- Detection may be limited by:
  - precipitation and fog
  - objects such as trees, large trucks and buildings

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Technologies and How They Differ.



PIR motion control sensors

- ✓ For pedestrian and cycle paths

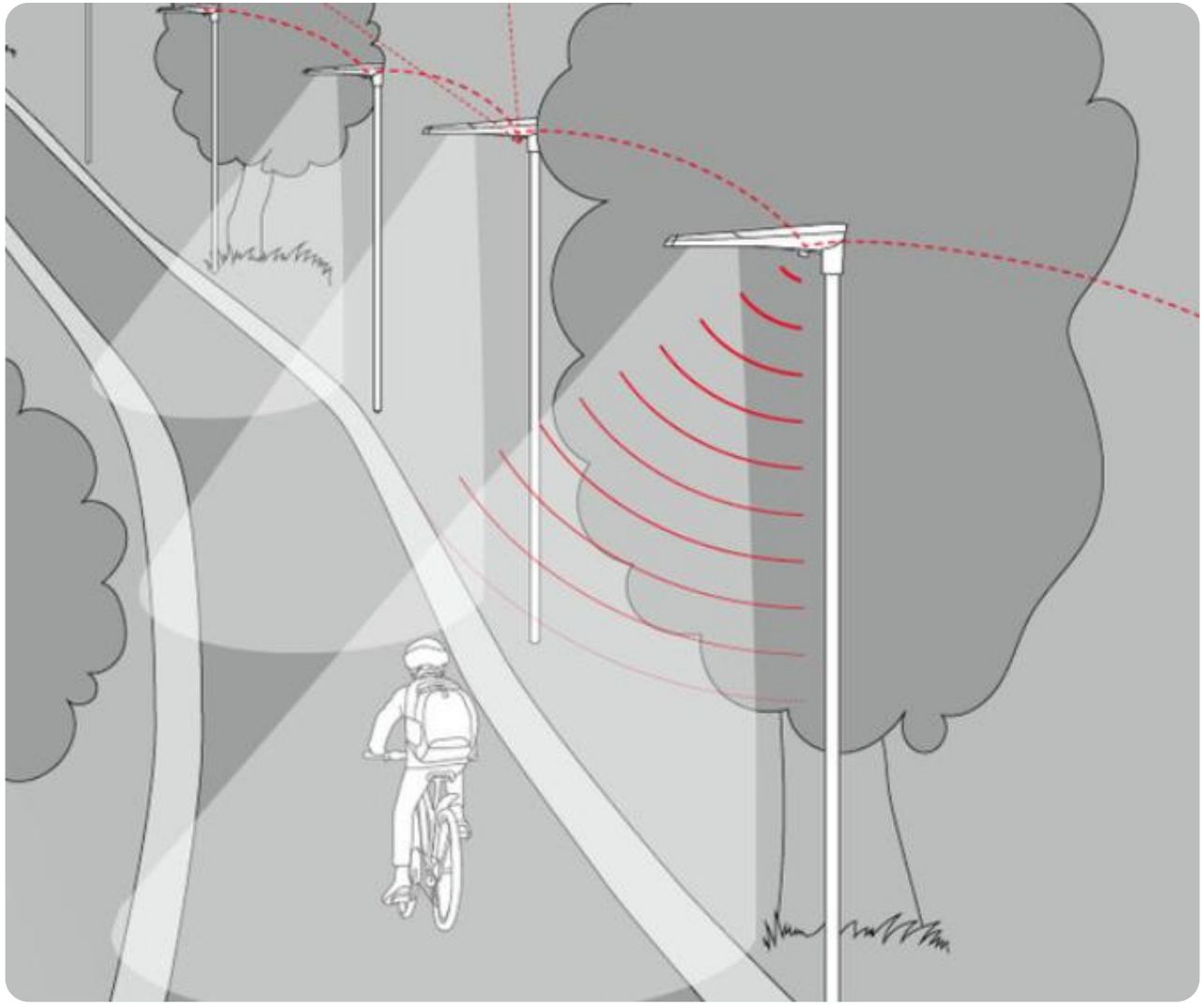


Radar motion control sensors

- ✓ For roads and car parks
- ✓ For roundabouts
- ✓ Where pole spacing is wide
- ✓ For cycle paths at entrances and exits

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Benefits of Connected Lighting.



- ✓ Switch on two or three luminaires ahead of cyclists so they don’t ride into darkness.
- ✓ Illuminate larger areas so people aren’t left standing in a spotlight, looking into the dark.
- ✓ Good visibility at a distance also helps people find their way.
- ✓ Bringing a group of luminaires up smoothly and uniformly creates a more harmonious effect and avoids the “popcorn effect” of luminaires switching on individually and unpredictably.

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Available Motion Control Sensors.

PIR Motion control sensors
for pedestrians and vehicles travelling at up to 40 km/h.

Radar Motion control sensors
for long-range detection and vehicles travelling at speeds above 40 km/h.

Motion control sensors without wireless communication.


Motion PIR C


Motion Easy


Motion Low & High


Motion 2PIR


Motion Radar


Motion Radar Down

Can be networked by adding one Smart Plug per unit for local wireless communication or remote access.

Connected motion control sensors with built-in local wireless communication.


Smart Plug Motion Low & High


Smart Plug Motion Radar


Smart Plug Motion Radar Down


Smart Plug Motion Radar Bollard

Enable remote access by adding a Smart Plug Cellular as a gateway.

Connected motion control sensors with local wireless communication and remote access.


Smart Plug Motion Cellular Low & High


Smart Plug Motion Hybrid Radar C


Smart Plug Cellular Motion Radar Down

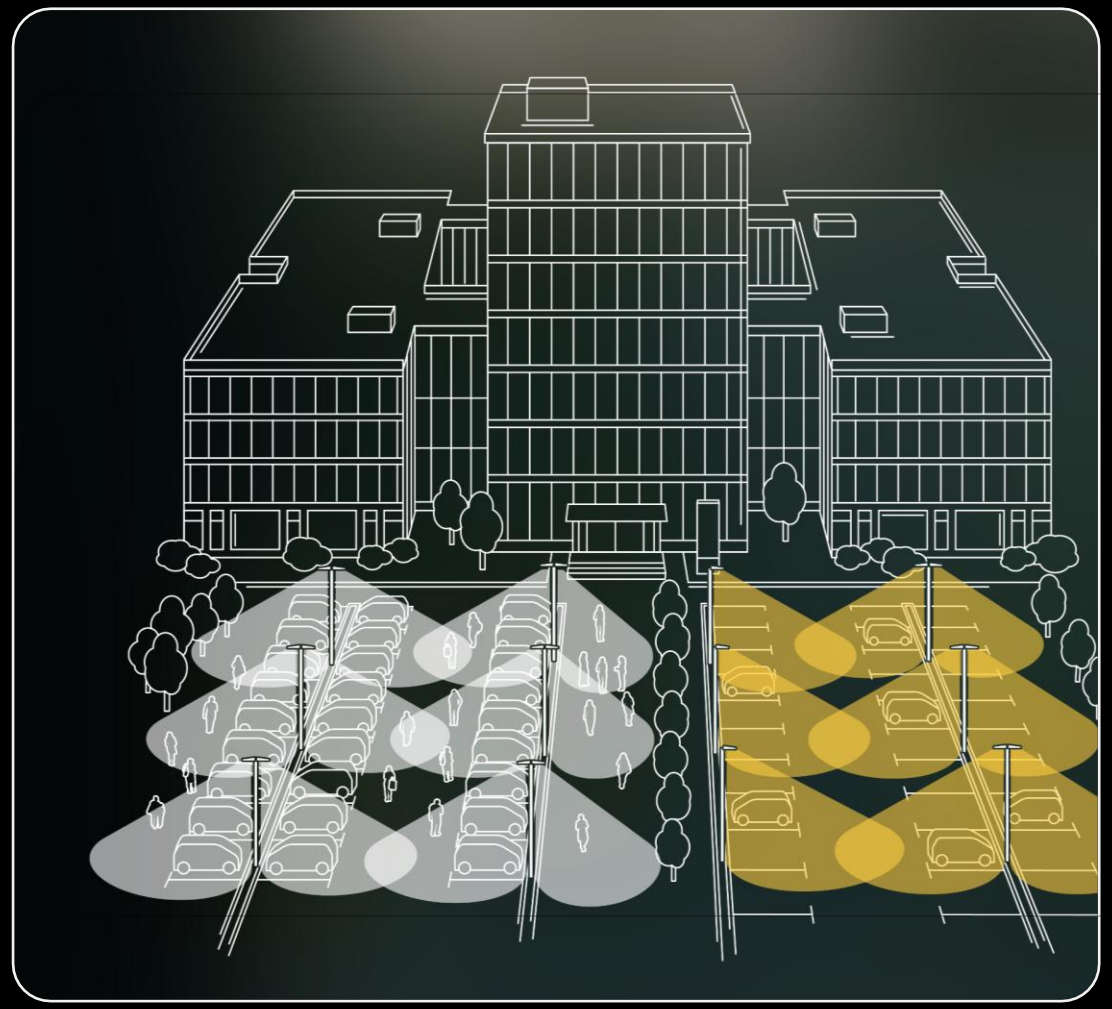
Each sensor may optionally be mounted onto a mast box



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Control LED colors.

In Public Areas.





2.200 K | 2.700 K | 3.000 K | 4.000K

Protect nature with warm light and improve visibility with bright white light. Motion control sensors automatically adjust the light color and dimming level.

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Your Options for Configuring the Lighting Control System.

Self-Service

You configure the system yourself.

Requirements:

- Order software and system training (5EA0DES01)
- For up to 3 participants
- Up to 1.5 hours
- Available via video conference or on-site (5EA0DER01)

SITECO On-site Configuration

Convenient on-site system configuration by SITECO.

Requirements:

- Order the following services:
  - 5EA0DEA01 per system/section
  - 5EA0DEE01 per end device
  - 5EA0DER01 per km for travel expenses
- Before the service can be performed, the customer must have installed and electrically connected the devices and switched on the power.

SITECO Remote Configuration

Flexible remote system configuration by SITECO.

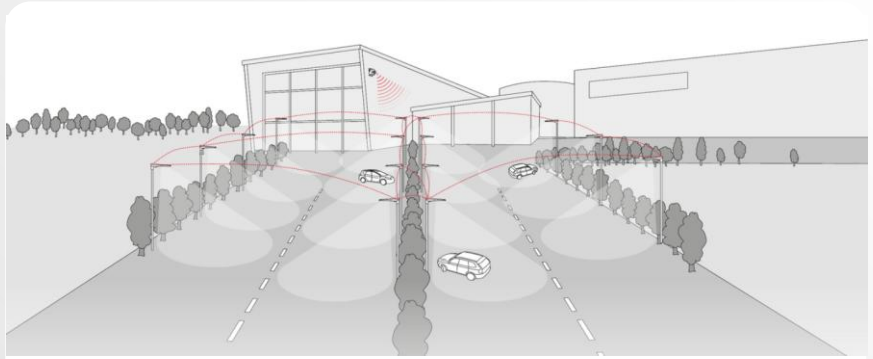
Requirements:

- Order the following services:
  - 5EA0DEA01 per system/section
  - 5EA0DEE01 per end device
- Available for products with a SIM card: Smart Plug 5EA3CM000001, Smart Plug Motion 5EA40ELC01 or 5EA40EHC01, and Group Control 5EA1ECL01.

- Before the service can be performed, the customer must have installed and electrically connected the devices and switched on the power.

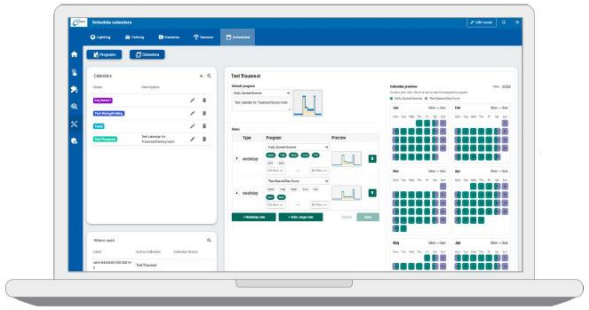
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Easy-to-use Controls and Sensors.



Local networking without remote access

Connect Sport / Casambi
Control small systems via an app or integrate them into the building management system.



Local networking with remote access

luxData.connect
Remote access based on open standards, with enhanced security.

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Thank you for your attention!

