wirelessforbusiness
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# SMART LIGHTING

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# SMART LIGHT

Large number of devices, rapid switching,
simple operation, gentle dimming,
reliable lighting control without oscillation effects.
control units that make complex settings
easily accessible.

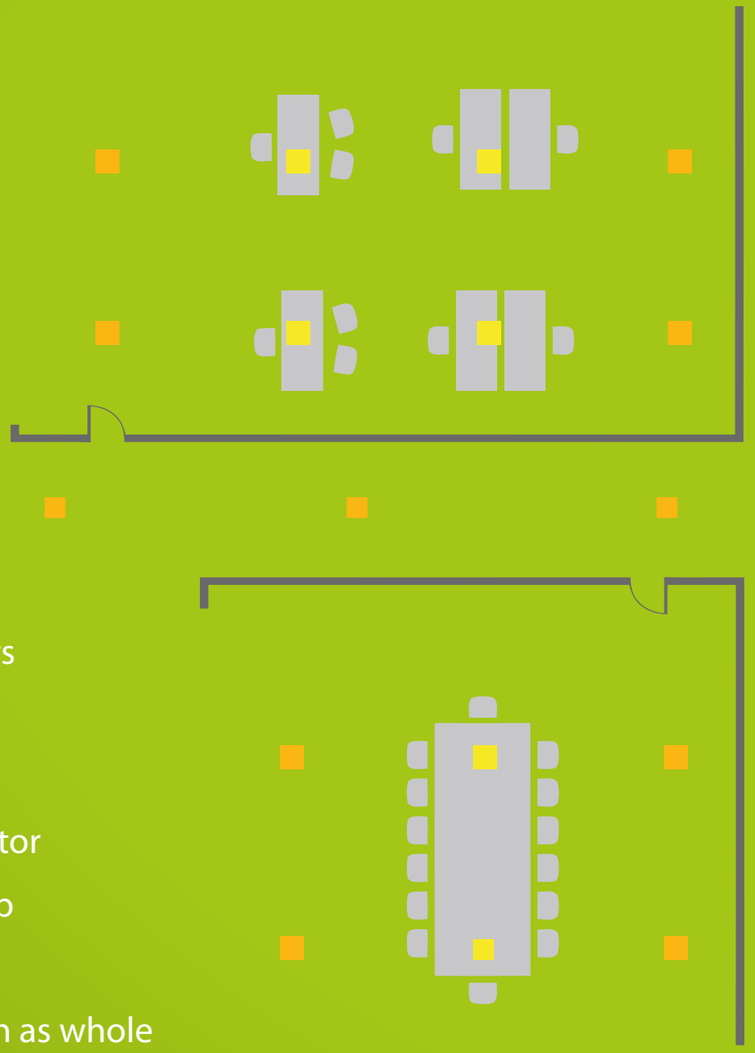
PROMOTE
EFFICIENT
**USE OF LIGHT**

# INDOOR LIGHTING

The WiLamp platform allows the reduction of energy consumption by means of a sophisticated system of sensors, and the management of brightness with a scheduler for each point of light so to be dosed appropriately the amount of light while avoiding wasting of an excessive lighting.

PROMOTE

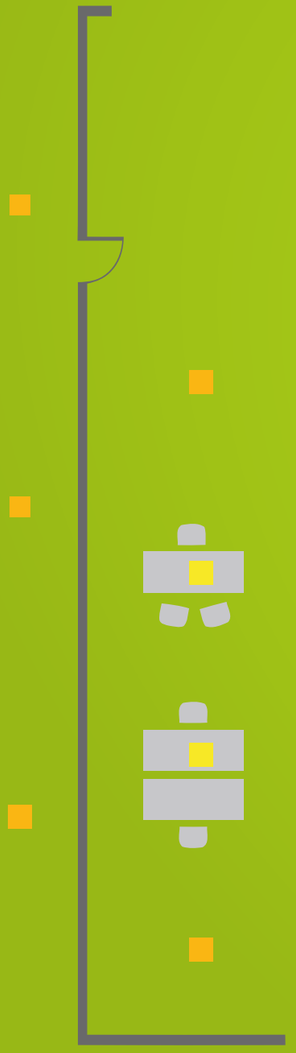
# ZONE PROFILING



- Applicable control factors
- Occupancy Factor
- Factor for Daylight
- Constant Luminance Factor
- Perimeter Daylight Group
- Lighting group
- Considers lighting design as whole

BE ENERGY EFFICIENT

# END ENERGY INTELLIGENT



- Turn off when spaces not in use
- Turn off when adequate daylight
- Dim lights when daylight levels vary
- Dim lights when task lighting is used

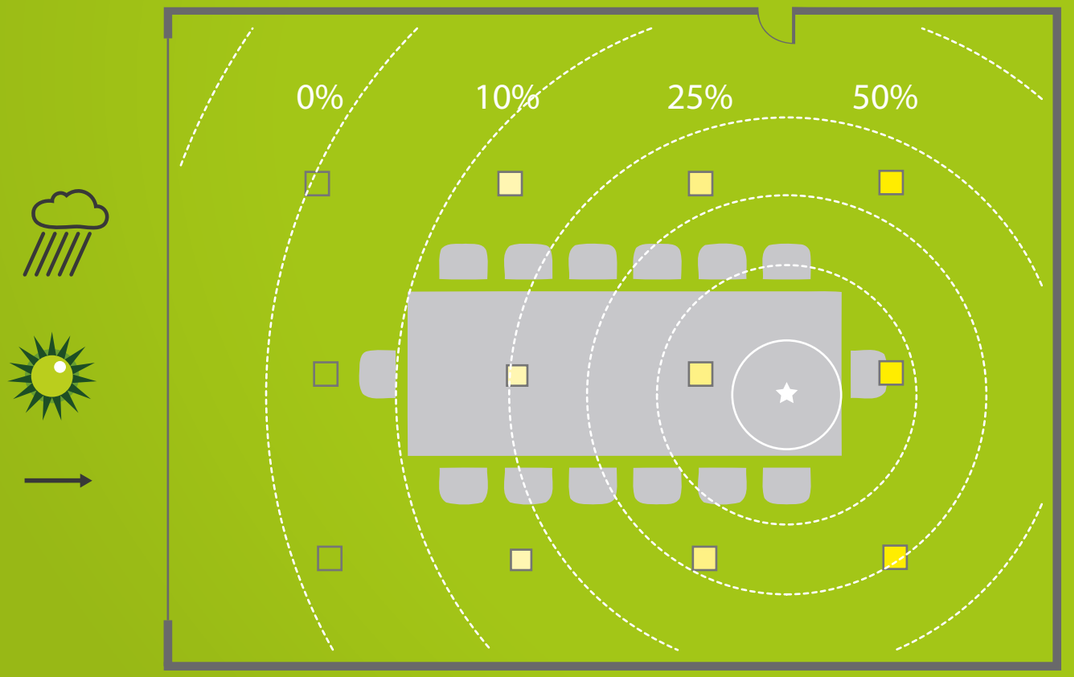
The most efficient light source
is the one that is turned off when you don't need it
and under your control when you need it.

# COMBINING INTELLIGENT **STRATEGIES**

- Luminaires and light sources
- Time-based management
- Presence detection
- Daylight sensors


Maximum energy savings are achieved by aggregating all potential savings

# USING DAYLIGHT **SENSORS**



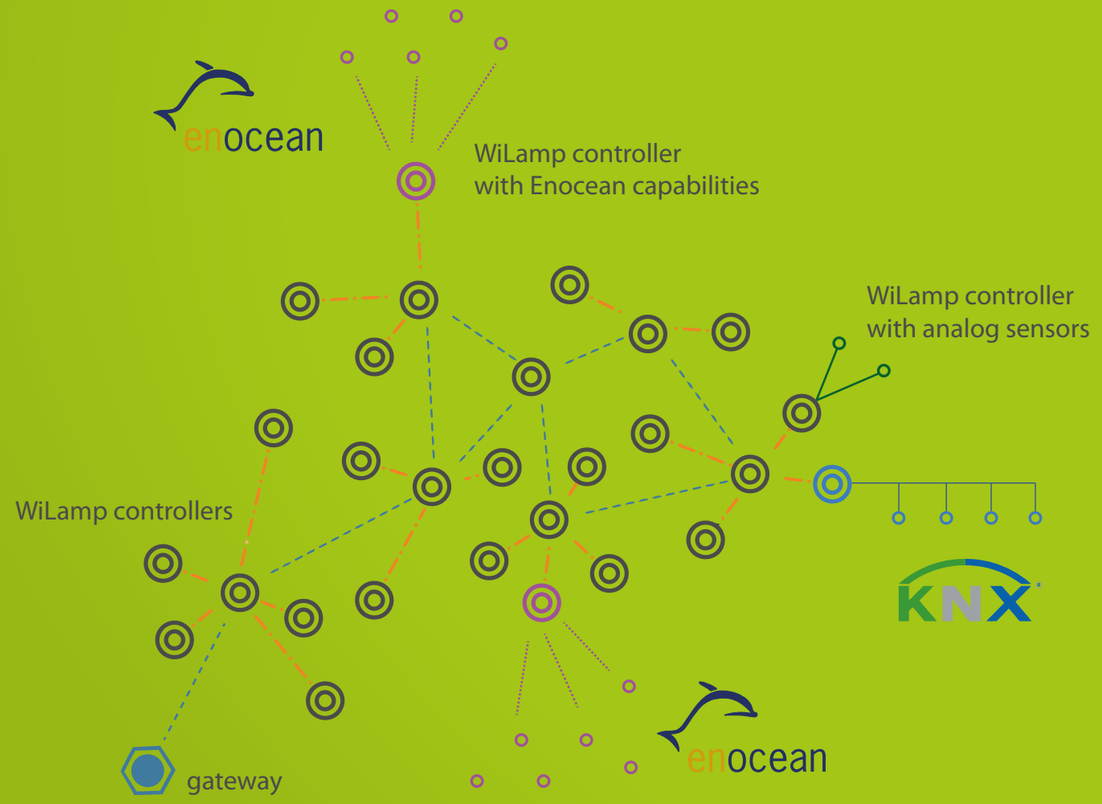

Wireless batteryless daylight sensors

could be located in every position in order to set the right target point

Feedback engine mantains constant the ambient light

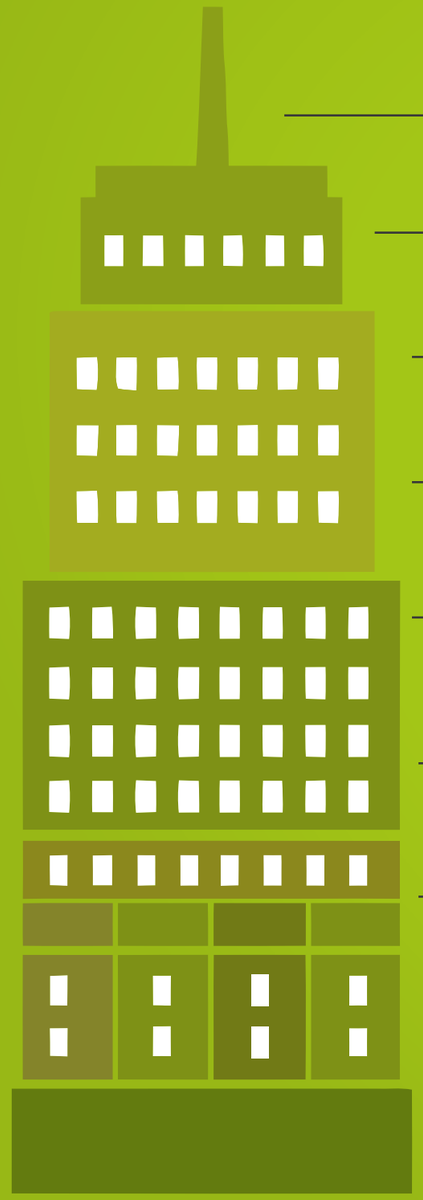
# SMART
# BUILDINGS

## A large range of applications for non-residential buildings




Decide today, and know you have made the right investment for tomorrow. When you invest in a building today, you need to be certain that the technology will still be state-of-the-art tomorrow.

## Worldwide standards



Wireless IEEE802.15.4 with WiLamp auto mesh
and adaptive power technology

Support for multiple open standards ensures communication

Short installation time

Integration with third-party systems

Display and operate without limitations (locally, centrally, remotely)

Sensors data aggregation of different standards
Access to a large number of easy-to-integrate field devices
Easy data exchange between systems and their field devices

High flexibility during the planning phase and over
the entire operational lifespan

Database management
Early recognition and warning, malfunctions, and system failures
Display, log, and archive data on a PC or directly on location
Automatic forwarding of important events

USING
# WILAMP SOLUTION
# FOR SMART CITIES

## OUTDOOR LIGHTING

## OCCUPANCY
## SENSING

# OVERVIEW & **ADVANTAGES**

- No additional wiring
- Easiness of installation
- Remote control of the light intensity of each street lamp
- Energy consumption controllers
- Environmental sensing or motion detection for energy saving purposes
- Lamp diagnostics and real-time fault detection as well as provision of alarms
- Powerful web based software with geolocation mapping
- 24/7 instant reports
- 24/7 Control and programming
- Unlimited nodes

# ENERGY SAVING

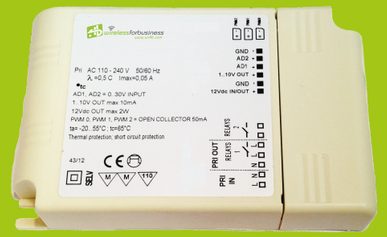
- Programming the switching on/off and the reduction of the luminous flux of each lighting point
- Programming astronomic clock for the punctual switching on/off of the systems
- Eliminating the daytime switching on due to faults detection
- Reducing line leakages due to low power factor
- Optimizing the working cycles

# MAINTENANCE SAVING

- To save costs thanks to the optimization of the intervention times
- To optimize the management of the stock and the motor vehicles
- To avoid the useless costs due to the faults detection
- To save costs connected with the general organization of the service

# TECHNICAL SPECIFICATIONS

## WiLamp controller



**DIMENSIONS**
- L: 125 mm
- W: 80 mm
- H: 22 mm

**BOARD POWER SUPPLY**
- 110/240V AC @ 50/60Hz
- Idle consumption 0,5W.
- Maximum load: 200W
- overvoltage, overload and thermal protection.
- short-circuit and open-circuit protection.

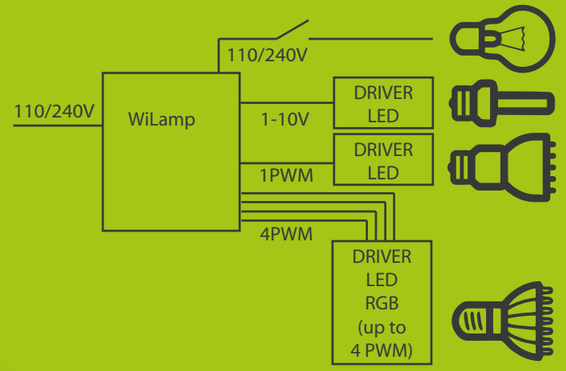
**OUTPUT PORTS**
- Main Loop relay for powering load (on/off) max 200W
- Voltage Free relay (6A) for bi-power dimmerable ballast
- 1-10 V output for electronic dimmerable ballast
- PWM connectors for Led RGB

**INPUT PORTS**
- 2 Analog inputs 0-30V.
- 3-axis accelerometer.
- temperature sensor.

**WIRELESS**
- 2.4GHz IEEE 802.15.4 with power up to 20 dBm.

**STANDARDS**
EN61347-1; EN61347-1-13; EN 55022; Direttiva 2004/18/CE; Direttiva 2006/95/CE

**TEMPERATURE**
Storage: -40° / +120°
Operating: -25° / +70°




CE

EN61347-1
EN61347-1-13
EN 55022
Direttiva 2004/18/CE
Direttiva 2006/95/CE

3G/4G **Optional backbone access**

**Multiplatform web access**

GPS **GPS mapping**

**24/7 monitoring**

SSL 256bit **Strong encryption**

**Real time clock**

**Unlimited nodes**

# ABOUT Wi4B S.r.l.

Wi4B S.r.l. is a technology company that designs and manufactures wireless network products in order to deliver real time services.

Wi4B S.r.l. has been a pioneer in wireless mesh networking, with several dozen thousand of WiLamp controllers installed.

Wi4B S.r.l. has a portfolio of solutions that includes planning of wireless coverage, design and implementation of geographically distributed wireless networks, implementation of real-time services, data aggregation and analisys, design and realization of sensor networks for energy saving and monitoring tools.

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