

SM@RT_OFFICE®

LIGHTING CONTROL SYSTEM FOR OFFICE BUILDINGS

LOW INVESTMENT AND OPERATING COSTS

Up to 60 % savings on lighting

Return on investment within 3 years

Increasing the lifetime of the LED luminaires

COMFORTABLE AND FLEXIBLE SOLUTION OF INTERIOR LIGHTING

Simple to install switches and simple to change their location
Easy and quick to change lighting schemes using a PC
Improved working environment

EASY INTEGRATION INTO BUILDING AUTOMATION SYSTEMS

Ethernet interface TCP/IP
Wireless transmission of the temperature, humidity, air quality, light intensity and the contact's status
Complex building automation solution

ADVANTAGE FOR LEED AND BREEAM CERTIFICATIONS

Energy efficient and sustainable solution for lighting and shading control supporting LEED and BREEAM certifications of sustainable buildings

EXCELLENCE IN LIGHTING CONTROL

PERLIGHT 

SM@RT OFFICE®

LIGHTING CONTROL SYSTEM FOR OFFICE AND COMMERCIAL BUILDINGS

SMART® Office offers an increased comfort and safety for the users of the building. It reduces the lighting costs and generates savings. The system offers an efficient tool for control and management of lighting and shading within a building management system. SMART® Office provides the right level of lighting control for a single office, large open-space, entire floor or whole office building.

Wall-mounted/portable switch (transmitter)

Wireless controller with light sensor and occupancy detector

Receiver with DALI output

Ethernet interface TCP/IP

Receiver for window blinds control

WIRELESS SENSORS AND LIGHTING CONTROL FOR BUILDING AUTOMATION

Control system SMART® Office is a user-friendly and energy-efficient solution for wireless lighting and shading control within building automation systems.

Wireless sensors monitor temperature, humidity, presence, light intensity, air quality, but also the current position of жалюзи, outdoor blinds, windows, doors and provide inputs to control systems in order to ensure energy efficient, comfortable and save operation of the building.

Our building automation concept uses synergies of both wired and wireless control technologies. It provides safe, efficient, and comfortable control of any type or size of a commercial building. The building operators benefit from an easy to customize visual control interface.

CASE STUDY BENEFITS OF LIGHTING CONTROL

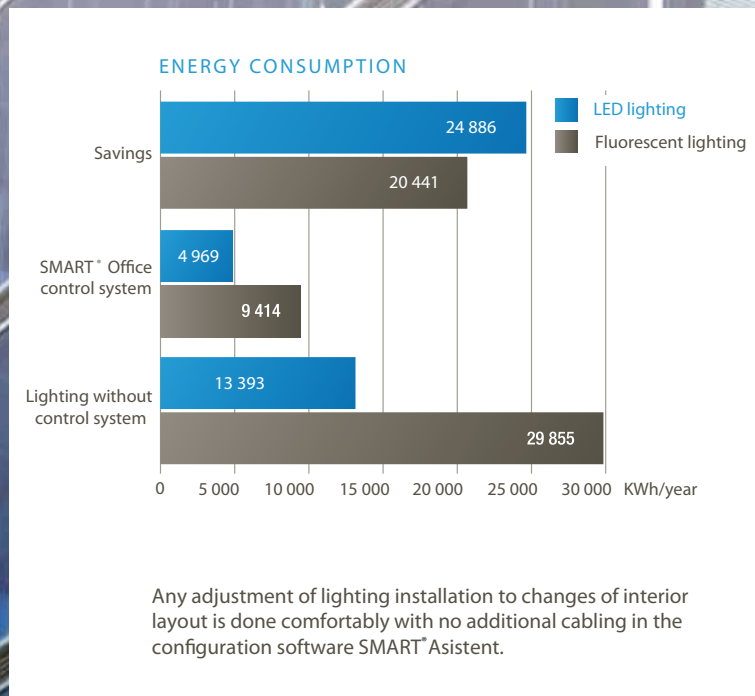
| Energy consumption | Lighting without control system | SMART® Office control system | Savings |
|----------------------------|---------------------------------|------------------------------|---------|
| Fluorescent lighting (kWh) | 29 855 | 9 414 | 20 441 |
| LED lighting (kWh) | 13 393 | 4 969 | 8 424 |

The case study documents the efficiency of SMART® Office control system for both the fluorescent and LED office lighting. The selected part of an office building a floor with an area of 500 m² is used. The light planning for the selected floor was done for both fluorescent and LED light fittings.

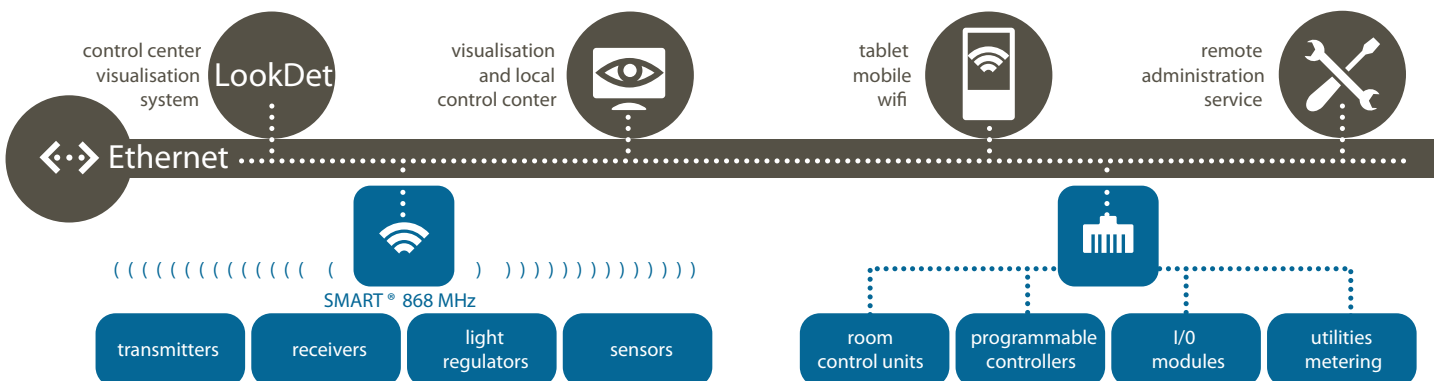
The SMART® Office control system includes button control, daylight dimming and movement detection.

Fluorescent light fittings: 72 W (4 tubes 18 W each), DALI dimmable, 118 pcs.

LED light fittings: 38 W, DALI dimmable, 118 pcs.



COMPLEX SOLUTION FOR BUILDING AUTOMATION



SM@RT OFFICE®

BUILDING
OWNER,
FACILITY
MANAGER

Easy configuration of the system
Easily expandable
Instant changes of lighting schemes
(reconfiguration) using the
SMART Asistent software



INVESTOR,
DEVELOPER

160 % savings on lighting
Return on investment within 3 years
Ideal for reconstructions of
office and historical buildings
Support LEED and BREEAM certification



ARCHITECT,
DESIGNER

I-glass RF switches and ABB switches
Solution suitable for any stage of a project
Full CAD support
Online technical and design support



SYSTEM
INTEGRATOR

Wireless light, movement, temperature, flooding,
CO₂, contact and humidity sensors
Open communication interface for integration
Easy integration into building
management systems (BMS/BAS)



USERS
OF PREMISES

In compliance with lighting standards
Comfortable and safe working environment
Easy operation with prevention of human errors
Flexibility of lighting to changes of interior layout



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