

Proper Lighting with Little Electricity.

The possibility of saving energy through efficient lighting concepts in new buildings or renovations is frequently underestimated. On average, 22% of electricity costs in commercial buildings are attributed to lighting. In buildings that only house offices, the percentage amounts to up to 50%. It is worthwhile to include lighting in the energy and efficiency analysis.

The same result using 50 percent less energy

- Lighting efficiency
- Energy savings ordinance (EnEV 2007)
- Energy passport

Light for a better workplace

- Lighting quality
- Health
- Motivation and performance

Light and building management

- Intelligence daylight control and presence detecting with PULSE
- Light management with DALI
- Building management with KNX/EIB and LON

System solutions

- [Light and acoustics](#)
- [Combinations with supply and media pillars](#)

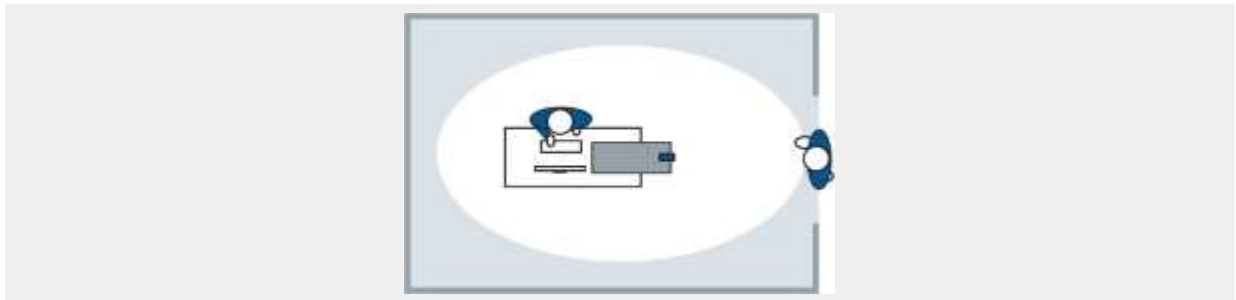


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Illumination only when it is necessary

Energy-reducing technology using modern sensor systems and intelligent controllers allow a new level of energy savings possible. Waldmann PULSE with presence and daylight sensors ensure that the lights are not switched on unnecessarily. Therefore, highly efficient technologies are provided.

- » [Download PULSE manuals](#)
- » [Overview luminaires with PULSE](#)



The on-demand effect of presence sensors

- A luminaire is only activated after a user enters the room – and is automatically switched off after the room is vacant again.
- Room-oriented, extremely large detection range.
- Due to gradual increases or decreases in the brightness level (dimming), ON and OFF processes are barely perceived by the user.
- The service life of the lamps is increased by shorter operating times.
- High comfort for the employees

Utilizing solar power through daylight sensors

- The luminaire is only activated if a person's presence is detected and the brightness level provided by daylight is not sufficient.
- Consumption is lowered through dimming functions and suitable control engineering of the light.
- The lighting controller operates without the user noticing any (negative) changes.

Light Management Waldmann PULSE HFMD



Thanks to high frequency, the presence sensor of the Waldmann PULSE HFMD lighting management system detects even the **smallest movement** within a radius of about 3.5 meters. If individuals are **present in the room**, the light is automatically activated, and it switches off when they leave the room. But there is more: PULSE HFMD sensors detect daylight as a gauge for adjusting the lighting level. As a result, energy consumption can be considerably reduced by up to 50%.

High Frequency Motion Detector



Light Management Waldmann PULSE PIR



The presence indicator of the Waldmann light management system PULSE PIR, captures a thermal image (infra-red). In order to be recognized by the sensor, **a wide, if not substantial movement**, is necessary. Due to the sphere, the coverage area can be adjusted individually (for example at the **work place**). As a criterion for the adjustment of the brightness level, the PULSE PIR sensor also measures daylight, which results in a significant reduction of energy consumption.

Passiv Infrarot



Light Management

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Individual adjustment optimizes performance

- Digital dimming with Touch DIM
- Dimming without dimmer and control wires

Illumination only when it is necessary

- Light management system Waldmann PULSE HFMD
- Light management system Waldmann PULSE PIR

Creating flexible groups and scenes

- Light controlling with DALI

Individuality integrated in the building management system

- Bus connection Waldmann PULSE KNX/EIB
- Bus connection Waldmann PULSE LON

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