Save energy with every light

leadec

Intelligent Lighting

Light up your facilities, experience efficient electricity consumption, and harvest energy savings with our LED system solutions. Using daylight sensors in production facilities or movement sensors in warehouses, we further optimise energy consumption. Reduce your carbon footprint by installing LEDs and replacing lamps containing climate-affecting substances. Additionally, controlled lighting helps to improve workplaces and employee wellbeing.

100 %	
Traditional lighting system	
20% or more	
LED lighting system	
Daylight harvesting system Photosensors adjust the light depending on the available daylight in the room	n '
	Energy consumption Lighted space
Occupancy sensor system Adjusts the lighting by detecting the presence of occupants in the room	Unlit space

LED lighting system

The latest climate regulations mean that companies must replace lamps that have climate-affecting substances with climate-neutral technologies. A solution that is both energy efficient and sustainable is the use of LEDs. With LEDs, you can save up to 80% of your electricity consumption. If you replace your traditional lights with smart LEDs, you can benefit from daylight sensors which can significantly reduce your energy consumption. The installation of movement sensors can further increase energy savings by ensuring that only those areas that are occupied are lit. And introducing these new lighting concepts can also bring employee wellbeing benefits. Our solution covers both indoor and outdoor applications, ensuring legal and regulatory compliance.

Advantages of LED lighting system



UV-Radiation Free:

LEDs have negligible UV radiation, making LED light safer for human health.

Durability: —

Materials used in LED lights are usually resistant to shock and vibration.



Energy Efficiency: LED lights convert up to 80% of the energy into light.

Long lasting:



LEDs can last up to 8 times longer than compact fluorescent lamps.

Environmentally safe: LEDs do not normally contain harmful materials like mercury, lead, or harmful gases.

Multiple sizes:

LEDs are available in multiple sizes with different power consumption levels.

Dimming Capability:

LED lights can be dimmed according to the daylight and human need, resulting in energy savings.

Sensor controlled:

LEDs can be equipped with movement sensors that can be turned on and off.



Temperature range:

LEDs work in hot and cold temperatures without significant degradation.



Employee wellbeing:

LEDs can adjust according to the daylight by using sensor controls, creating a healthier, more pleasant working space.



Heat emission:

LEDs emit approx. 20-50% less heat compared to traditional lights.



Process flow

1. Lighting concept analysis and design

- Lighting requirement analysis
- Sensor system requirement analysis
- Lighting concept design
- Economic feasibility scenario analysis
- Material sourcing

2. Compliance with standards

- BS EN 12464-1 (indoor working places)
- BS EN 12464-2 (outdoor working places)



3. Installation

LED

- Project management (including overseeing installation work)
- Safety management related to installation
- Removal of existing lighting system
- Electrical wiring
- LED lighting system installation
- Sensor system installation
- Documentation
- Commissioning

4. Maintenance

- Periodic inspection
- Regular maintenance
- Incident management



