

# LMS

**LiCS**  
INDOOR

# LMS and the benefits

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Product Management

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1.

LiCS New Solution

2.

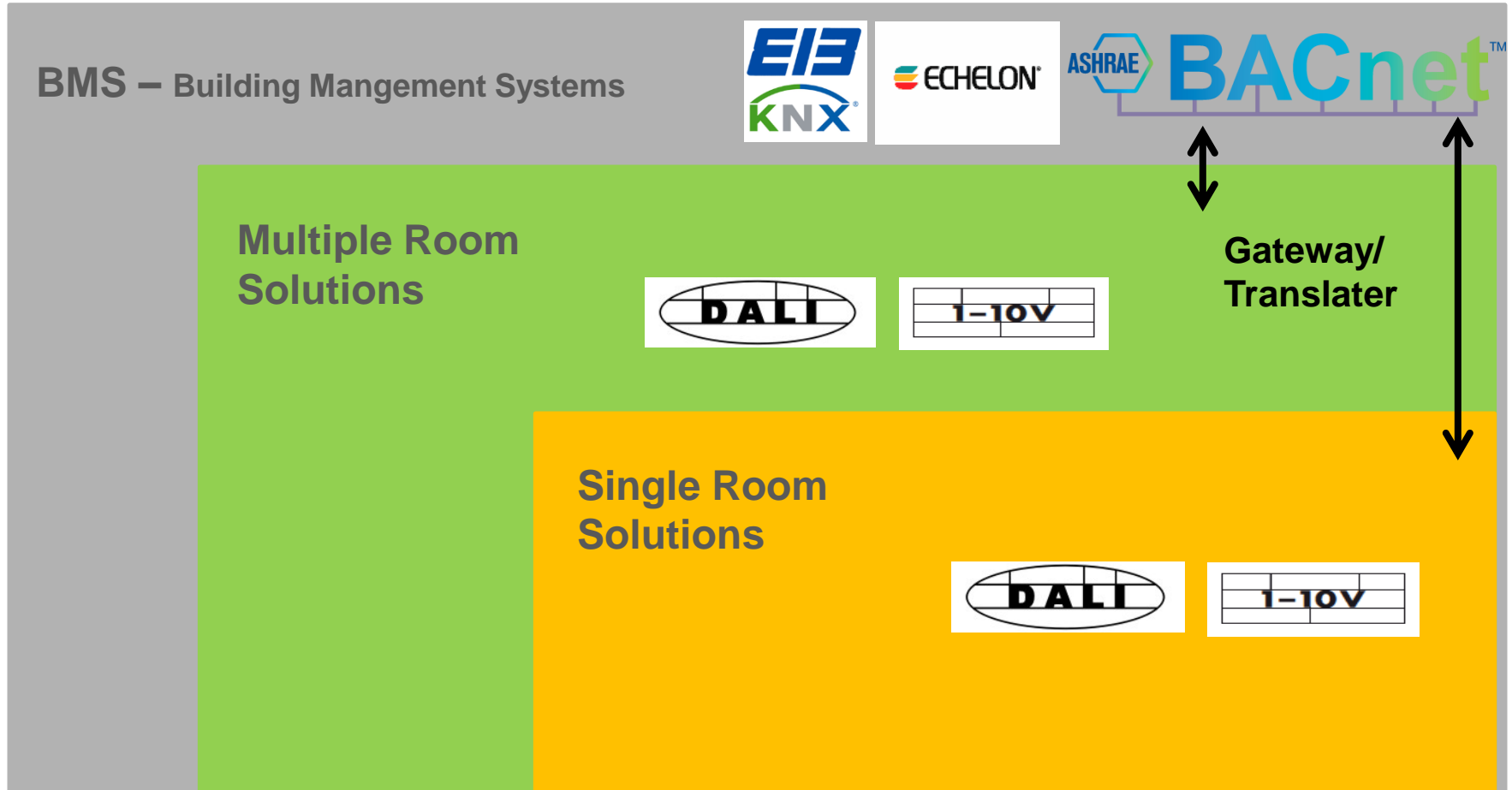
LiCS Application

3.

Energy Calculator

## Where is the benefit for Light Management Systems?

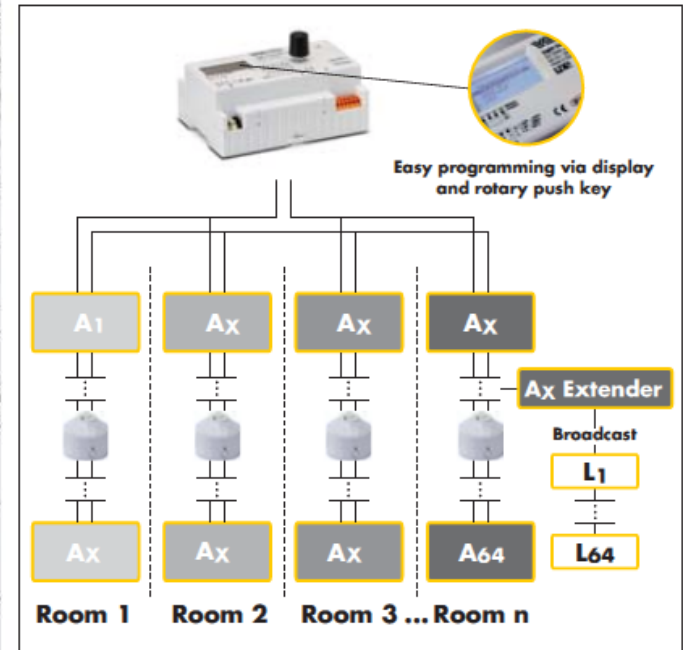
Light Management Systems and Interfaces



**Kinds of application**



**Multiple room solution  
Light Controller L**



**Benefits...**

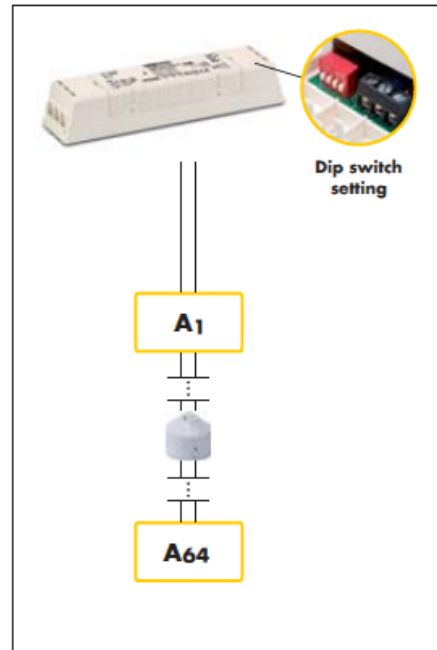
- Individual and flexible room settings
- **Wireless Switches**
- **Energy Savings with Sensors**

**For...**

- Complete halls
- Control up to 64 luminaires
- Up to 36 Sensors
- 16 groups
- Cabinet installation

Kinds of application

Single room solution  
**Light Controller S**



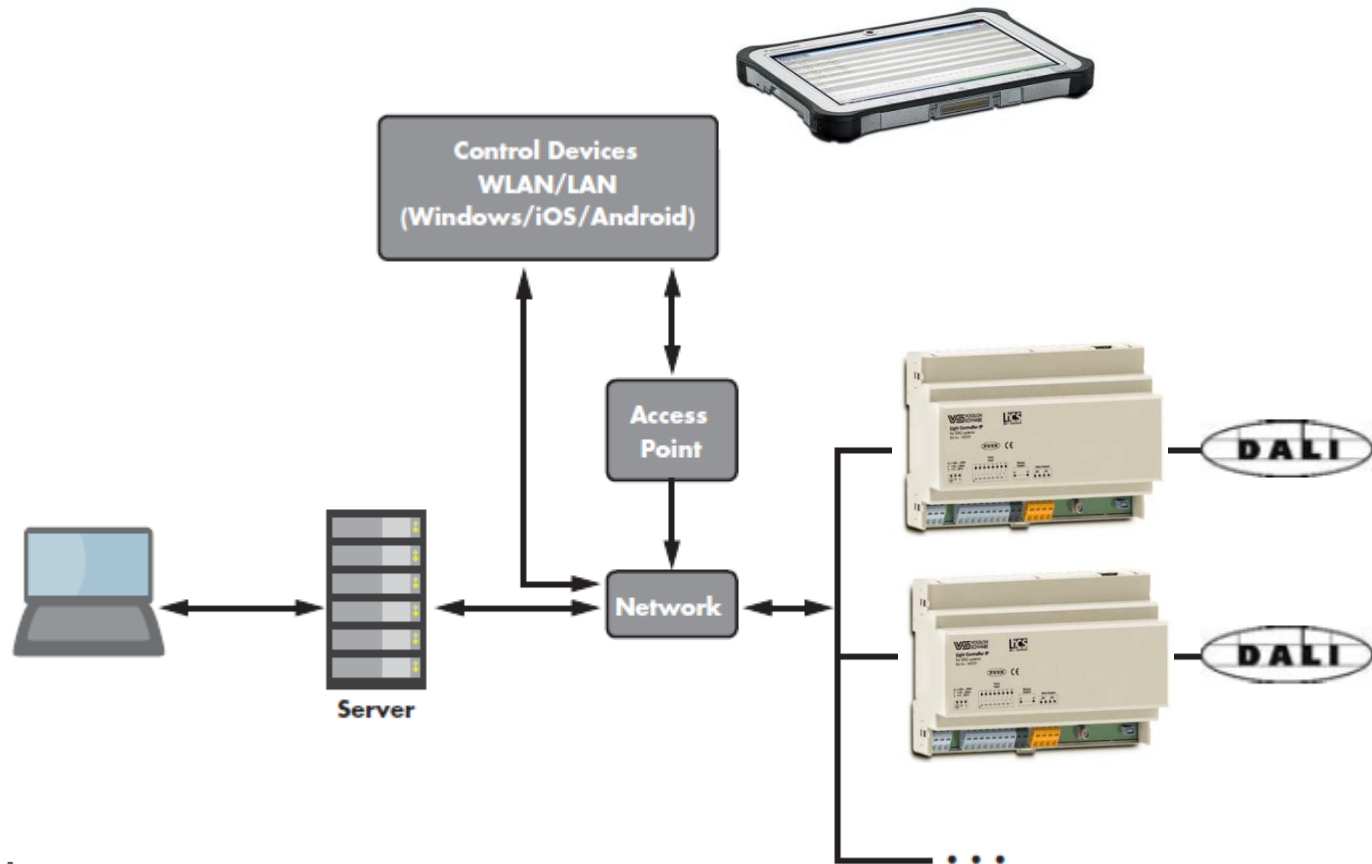
Benefits...

- Quick and Easy Installation
- Simple functions for Energy saving
- Synchronised dimming

For...

- Complete halls
- Control up to 64 luminaires
- Up to 36 Sensors
- Independent installation

Kinds of application



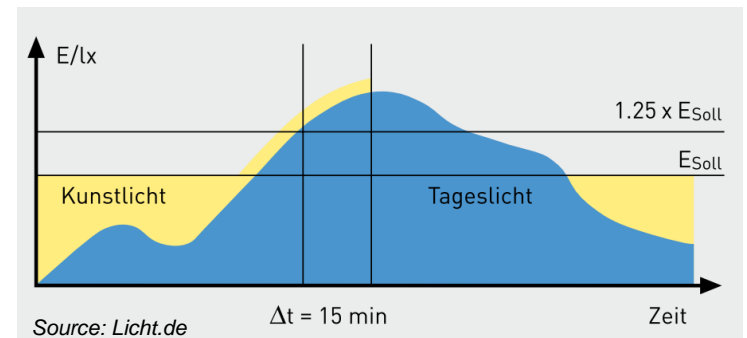
Benefits...

- IP Networking
- Integration Mobile Devices
- Touch4Light
- Reporting/ Documentation

Multi Sensors – Increase of comfort and Energy Savings



- Multi Sensor
- Brightness and Movement
- IP20
- Up to 6m
- 4mA
- No 230V Connection



**Multi Sensors – Increase of comfort and Energy Savings**



- **Multi Sensor**
- **Brightness and Movement**
- **IP20**
- **Up to 6m**
- **4mA**
- **No 230V Connection**





**Industrial Sensors – Increase of comfort and Energy Savings****Movement Sensor HB 65**

- Movement Sensor
- IP65
- Up to 8m/12m frontal
- 2mA

**Brightness Sensor IP 65**

- Brightness Sensor
- IP65
- 4mA
- DALI loop

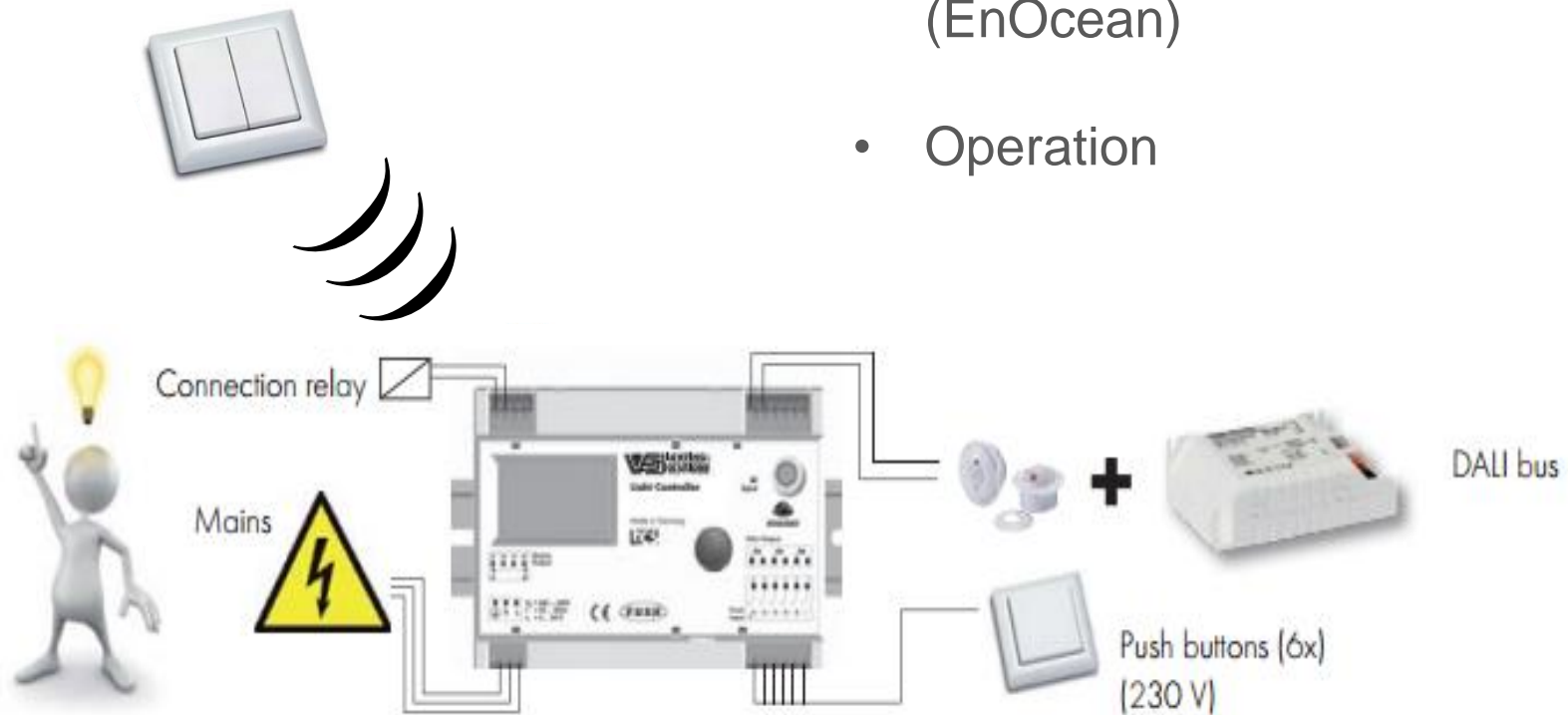
**Optical Sensor – Increase of comfort and Energy Savings**

- **Optical Sensor**
- **Presence and Brightness**
- **Differenz Zones**
- **IP54**
- **Up to 25m**
- **2mA**

**Commissioning and Operation**

**1 Device – 2 Function**

- Wireless-Tool for Commissioning (EnOcean)
- Operation



**Minimising time for commissioning ~60%**

## Example: Industrial Hall Commissioning

### Time for Commissioning



**Normal DALI:**  
Time: 100min  
(108 Light points)

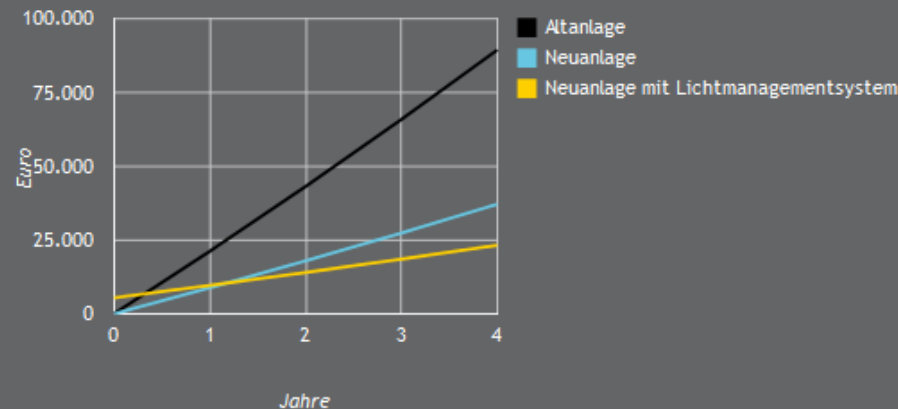
**VS DALI Wireless:**  
Time: 25min  
(108 Light points)



## Energy Calculator

### Energiesparkalkulator Indoor

<b>Energieeinsparung</b>	84692 kWh/Jahr	entspricht 564611 km Fahrt mit einem Elektrofahrzeug
<b>Energiekostensparnis</b>	16938,34 €/im 1. Jahr	
<b>CO<sub>2</sub>-Reduktion</b>	48782 kg	entspricht der Speicherung in 1951 Bäumen 
<b>Amortisationsdauer</b>	0,34 Jahre	gegenüber der Altanlage
	1,17 Jahre	gegenüber der Neuanlage ohne Lichtmanagementsystem



**Facts:**  
**255Days/Year**  
**16h/Day**

**Old:**  
 200W  
 130Lightpoint

**Neuanlage:**  
 100W  
 108Lightpoint

Thank you for your attention

