

## SolarInnovate Energy Solutions

# Solar light guide control system



## Overview

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What is a lighting control system?

Control systems can be controlled manually or automatically. When talking specifically about artificial lighting, a lighting control system can be described as a group of components that allows you to control the output of an artificial lighting system.

What is a wired lighting control system?

Wired lighting control systems have evolved through the time, since the beginning of the invention of electricity and the light bulb. Most of the lighting till today is simply switched on or off (mostly remotely), without any dimming function.

What is LED lighting control?

The evolution of lighting sources toward LEDs is often called 'Ledification'. Lighting control allow to reduce further the consumption of electricity for lighting. But most important, to adjust lighting to needs of occupants. Figure 14. Luminous efficacy of different types of light sources anno 2019.

What are the components of a lighting control system?

Control systems generally consist of 3 major components: input, control process and output. In an automatic lighting control systems, one or more sensors perform a certain 'observation' (e.g. detection of movement, measurement of amount of entering light, . .) and convert the measurements into a signal that can be passed on to the controller.

What are the advantages of LED lighting control systems?

Nowadays, LED lighting is the standard, as it is can provide very qualitative light in a very energy efficient way. Finally, lighting control systems can contribute to limiting the use of the artificial lighting (in time, in active power (dimming), . .).

## How to control a solar shading system?

The most common control strategy is the rudimentary clock function, which just open the shading devices on specific times the day or solar positions of the day (e.g. in residential application, it opens when the sun rises and closes two hours later than).

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