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Issue Preview

elektronik journal special issue “Lighting Technology” in September:

- Light sources
- LED driver
- Control units
- Measuring technology
- System solutions

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EDITORIAL PREVIEW

Light sources

Horticulture lighting

In future, plant cultivation will depend increasingly on lighting systems. In so-called vertical farming, lighting has a key role to play since sunlight does not reach all plants at every level, especially in larger systems. LEDs can be used to generate both conventional ceiling lighting and also lighting from the side or in between the plants.

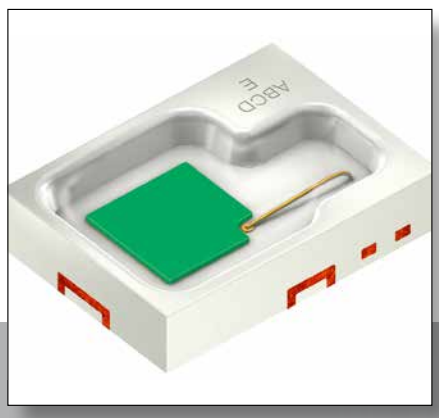
LED driver

Constant current driver

Although high-performance LEDs require more complex control systems, the majority of applications use LEDs with currents below 500 mA that are controlled by constant current sources, i.e. LED drivers with linear characteristics. These are user-friendly, economical and have no effect on EMC response. The article provides an insight into practice.

Overvoltage protection with thyristors

LED drivers in streetlamps have to be designed in such a way that they can reliably withstand heavy loads, in particular lightning strikes. In order to improve the reliability of LED lamps in outdoor use, a suitable thyristor-based protective device can significantly improve safety, reliability, accuracy and efficiency.



Control units

Server instead of switch

A lighting system was developed for the Abu Dhabi Louvre using an automation controller combined with a data server. These two light computers are based on an industrial computer platform. The two computers are designed for continuous operation.

Avoiding exposure errors during optical bonding

Exposure errors in optical bonding can cause future device failures. The curing process alone can produce avoidable errors – for example in the case of home-made UV light sources for the curing of adhesives. The biggest error here lies in the intensity: it can be too strong, too weak or uneven. This can be remedied by a suitable control system.

Measuring technology

Quality control with molecular fingerprinting

Spectroscopy application for a detailed view: consumers demand transparency with regard to the ingredients and quality of their food. Producers are also increasingly interested in detailed and reliable quality control. Thanks to a new generation of LEDs with broadband spectra, mobile spectrometers for precise measurements – previously limited to the laboratory – have now become a possibility.

Evaluation guide for blue-light hazard

The IEC 62471 standard places high demands on measuring instruments and procedures for the reliable assessment of BLH risk classes (BLH: blue-light hazard) from light sources. In addition, IEC Technical Report 62778 explains how IEC 62741 can be used to easily assess the BLH of lamps and luminaires with visible radiation. This article presents measurement methods for BLH evaluation based on practical measurements.

Stroboscopic visibility measurement

Stroboscopic Visibility Measurement (SVM) is a new metric developed by Philips Research. The article covers basic flicker metrics such as flicker index, flicker percentage, and flicker frequency, as well as common measurement techniques and instruments. It discusses methods to eliminate the flicker effect.

System solutions

Human Centric Lighting

HCL lighting solutions are complex systems that are becoming increasingly important for human health. Cross-industry collaboration is required in order to realize HCL. This article explains where the problems currently lie and which aspects users (lighting planners, electrical planners, architects) have to take into account.

EDITORIAL PREVIEW

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