Neumüller
Elektronik GmbH

individual
Light control

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1952–2022
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Intelligent light control

Customized according to your requirements

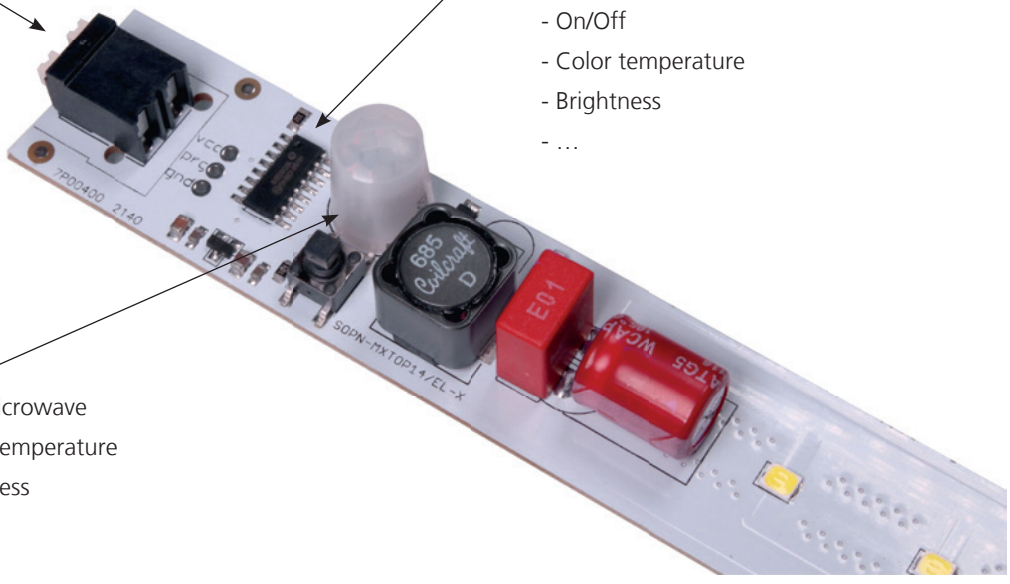
Nowadays, modern luminaires no longer simply provide light, they should be as energy-efficient as possible, enhance well-being and performance, and blend in perfectly with the surrounding conditions. To this end, there are already numerous standardized lighting controls provided directly by the LED control gear.

However, these often require additional components, such as external sensors or communication interfaces, and must be connected to a central control unit for intelligent lighting control. At Neumüller you can obtain both standard components as well as custom-developed lighting control systems, which can either be integrated directly on your LED module or can be connected as additional electronics between the control gear and the LED module.

We support you from brainstorming to the selection of suitable parts and components, concept development and prototyping up to series production.

Interface:
- Analog 0-10V
- RS232/485
- Ethernet TCP/IP
- …

Mikrocontroller with control:
- On/Off
- Color temperature
- Brightness
- …



Sensor:
- PIR / Microwave
- Color Temperature
- Brightness
- …

Everything from one source

Together with you, we determine your requirements for the lighting control system such as dimensions, actuating variables, interfaces, operating elements and the cost framework. Based on the created specification, our development engineers work out a hardware and software concept and calculate the costs of your product. You will receive a detailed offer including a concept drawing from us free of charge. After approval, we develop your solution within the specified time frame and produce samples close to series production. After sample release and placed series order, production takes place at selected partners in Germany in compliance with strict quality specifications.

Wide range of applications

Intelligent lighting controls are used for a wide range of applications. Our expertise ranges from simple controls for industrial lighting and sensor-based machine lighting to wireless networked lighting systems and complex HCL controls. We turn your requirements into reality.

Intelligent control

We deal with all control variables of lighting technology and develop modern controls for them. Whether it is a simple control of brightness, light color or color temperature or a complex control of these variables depending on the time of day, we develop appropriate solutions. Also external light dependent control of a constant color temperature and a constant luminous flux belong to our know-how as well as the control of individual light formulations.

Sensor-based control systems

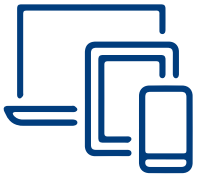
Modern lighting control systems use a wide range of sensor information for precise control of the luminaire. Depending on the application scenario, different sensors can be used individually or in combination. Passive infrared sensors and microwave sensors detect movements and can thus be used as switching triggers. Color temperature and light sensors determine the brightness and color temperature inside or outside a luminaire, thus enabling complex lighting formulations. Temperature sensors enable the safe operation of powerful LED modules within their defined operating temperature range.

Flexible interfaces

For networked control systems we can provide all common interfaces. These include digital inputs (relays / optocouplers), analog via 0/1-10V, serial bus interfaces, such as RS232 or RS485, and the network interface Ethernet TCP/IP. Wireless radio interfaces such as WiFi, Bluetooth or ZigBee can also be implemented if required.

Flexible control

Lighting controls can either be designed as a stand-alone system or integrated into a higher-level control system. Our solutions, which are individually designed to meet your requirements, integrate perfectly into the intended system landscape. The control can be taken over by a PLC or a PC or server. We also realize the operation via a display-supported operating device with simple menu navigation on request.



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