

PRESS INFORMATION

Ergonomic, sustainable and economical

Manuela Kessler | 05.10.2021 | Lohr am Main / Germany | PI 032/21

SL LED Basic system lamp with high illuminance and low energy consumption increases ergonomics at the workplace

- Outstanding luminous efficiency with low energy consumption
- Optimum lighting conditions increase the well-being and performance of employees
- Highly economical thanks to standard dimmability and simple tri-light setup



The tri-light setup, consisting of one SL 24 LED Basic and two SL 12 LED Basic, offers both ergonomic and economic advantages. (Image source: Bosch Rexroth AG)

Assembly lines often have to be adapted to new products. An ever-increasing product variance requires flexibility at the workstation. At the same time, the focus is on increasing the performance and health protection of employees. With the introduction of the SL LED Basic system lamp, Bosch Rexroth meets current and future market requirements. Thanks to the innovative DIM box, which can supply power to several lamps, the lamps are extremely compact. The new product variants not only enable flexible assembly for individual ergonomic workstations, but also offer an energy-efficient and economical solution.

Thanks to the economical modular design principle, users can cost-effectively implement both so-called tri-light set-ups and complete line illumination, as several lamps can be operated with just one DIM box. In addition to supplying several devices, the DIM box also combines the “dim-to-of” function with the power supply – eliminating the need for cabling and power strips. The system lamps are quickly installed thanks to innovative mounting bases that offer secure and fast mounting: One cable is sufficient for complete installation.

Two product versions – countless solutions

Be it at packing stations, in precision assembly or at test workstations: Optimum illumination is a central prerequisite for precise, low-fatigue work. Bosch Rexroth replaces twelve different predecessor variants within the system lamp range with just two product versions. The new system lamps are compact, space-saving and versatile: Thanks to combined CE and UL/CSA certification and standard dimmability, they can be used for countless applications. Individual

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employee needs and work on diverse product variants are optimally supported by the dimming function.

The revised compact design visually enhances workstations. Thanks to the integrated dimmability, work surfaces can be used for various activities – packing and testing work can be done in one place.

Sustainability at the workplace: twice the service life with half the energy consumption

The lights are supplied in recyclable cardboard packaging and, unlike fluorescent tubes, are free of harmful gases or toxic substances. The system lights from Bosch Rexroth have twice the service life with 50 percent lower energy consumption compared to conventional light sources. This means both significant monetary savings and CO₂ reduction: A company saves 1,472 euros and 3.7 tons of CO₂ per year per assembly line with 50 workstations (1).

Well-being and performance thanks to optimal lighting conditions

The lamps comply with the DIN EN 12464 standard for lighting indoor workplaces. Employees can adjust the illuminance of the LED lamps to the respective activity. Up to 1,500 lux is possible with tri-light setups. A built-in diffuser foil as well as a micropism disk ensure that the work surface is homogeneously illuminated. Employees are not dazzled and can carry out their work without reflections, strong contrasts or shadows. The optimized lighting increases the processing quality and reduces the risk of errors.

(1) Calculation basis: 320 working days, 3-shift operation, 0,16€/kWh, electric power 404 g CO₂/kWh

Basic Information Bosch Rexroth

As one of the world's leading suppliers of drive and control technologies, Bosch Rexroth ensures efficient, powerful and safe movement in machines and systems of any size. The company bundles global application experience in the market segments of Mobile Applications, Machinery Applications and Engineering, and Factory Automation. With its intelligent components, customized system solutions and services, Bosch Rexroth is creating the necessary environment for fully connected applications. Bosch Rexroth offers its customers hydraulics, electric drive and control technology, gear technology and linear motion and assembly technology, including software and interfaces to the Internet of Things. With locations in over 80 countries, more than 29,600 associates generated sales revenue of around 5.2 billion euros in 2020.

Basic Information Bosch

The Bosch Group is a leading global supplier of technology and services. It employs roughly 395,000 associates worldwide (as of December 31, 2020). The company generated sales of 71.5 billion euros in 2020. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading

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IoT provider, Bosch offers innovative solutions for smart homes, Industry 4.0, and connected mobility. Bosch is pursuing a vision of mobility that is sustainable, safe, and exciting. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is to facilitate connected living with products and solutions that either contain artificial intelligence (AI) or have been developed or manufactured with its help. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life." The Bosch Group comprises Robert Bosch GmbH and its roughly 440 subsidiary and regional companies in some 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. With its more than 400 locations worldwide, the Bosch Group has been carbon neutral since the first quarter of 2020. The basis for the company's future growth is its innovative strength. At 129 locations across the globe, Bosch employs some 73,000 associates in research and development, of which nearly 34,000 are software engineers.

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