

Presse Press

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For the first time, standardized LED signal lamps from Osram are lighting up lamps from Koito in the new Toyota Corolla Sport

The new XLS product family is revolutionizing the signal lamp market by combining a standardized light source with LED technology

With their innovative XLS (eXchangeable LED Signal lamp) products, Osram and Koito are launching a series of standardized LED-based signal lamps (UN/ECE Standard R128). For the first time, a uniform platform with three different light versions can cover all important signal applications in vehicles. This enables simple replacements, reduces complexity and overall costs for car manufacturers, and leads to faster development processes thanks to adapted standards. OSRAMs XLS lamps LY5 and LW5 light up the new Toyota Corolla models starting since summer 2018.

LED technology gives vehicle and automotive lighting designers and manufacturers enormous flexibility. Over the past few years, numerous customized LED lighting solutions have been created that have made today's supply chain extremely complex. To reduce this complexity, Osram developed an innovative, standardized LED light source for signal light applications in the automotive industry. "With its XLS product family, Osram is launching a portfolio that offers all the innovative benefits of LED technology while significantly reducing complexity along the customer value chain," says Hans Joachim Schwabe, CEO Specialty Lighting at Osram.

A single platform for all LED signal light sources

The ECE-standardized light sources from OSRAM are currently available in yellow and white for different signal applications like turn signals, backup lights or DRL. An additional white variant for fog lighting is also available with the respective standard becoming effective end of this year. A fourth variant in red is coming soon.

Standardization makes them easy to exchange: Only the light source is replaced, which means that the usual expense of replacing entire lamps or headlights is eliminated.

The rugged design ensures a long and reliable operating life. Because LEDs take up less space, it was possible to advance the miniaturization of electronics, optics, and mechanical components. The XLS products have a small, light-emitting area and protection from electrostatic discharge, transients, and overvoltages.

Innovative, exchangeable lamps set new standards

The XLS product family offers a wide range of benefits for consumers, headlight manufacturers, and car manufacturers. A uniform, standardized platform for signal lamps reduces the number of different lighting solutions in cars. This considerably reduces overall costs for car manufacturers in a number of areas, including the supply chain, development, and quality control. The reuse of design modules and the same platforms also substantially reduces the time and effort needed for development. For car workshops and car owners, a standardized platform means that the light sources can be replaced and repair effort reduced, which in turn lowers costs.

Series production of the lamps in Herbrechtingen, Germany, guarantees premium quality and is an important milestone in the site's change of focus to semiconductor-based lighting solutions. Customers of XLS products benefit from the plant's many years of automotive experience, which enables seamless production. Short design cycles and reduced system complexity make the XLS product family a pioneer in the penetration of LED technology in high-volume vehicle segments.

As of summer 2018, the new XLS product family will hit the streets of Japan in the new Toyota Corolla Sport. Other models are planned for the end of 2018. Osram is also currently working to expand its XLS product portfolio.



For the first time, the uniform XLS platform with three different light versions can cover all the important signal applications in the Toyota Corolla models.

Picture: Osram

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ABOUT OSRAM

OSRAM, based in Munich, is a leading global high-tech company with a history dating back more than 110 years. Primarily focused on semiconductor-based technologies, our products are used in highly diverse applications ranging from virtual reality to autonomous driving and from smartphones to smart and connected lighting solutions in buildings and cities. OSRAM uses the endless possibilities of light to improve the quality of life for individuals and communities. OSRAM's innovations enable people all over the world not only to see better, but also to communicate, travel, work and live better. OSRAM has approximately 26,400 employees worldwide as of end of fiscal 2017 (September 30) and generated revenue of more than €4.1 billion. The company is listed on the stock exchanges in Frankfurt and Munich (ISIN: DE000LED4000; WKN: LED 400; trading symbol: OSR). Additional information can be found at www.osram.com.

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