

PRESS RELEASE

A quantum leap in the quality of Tunable White systems

Preconfigured kits ensure high colour consistency

Dornbirn, March 5, 2018. **Second generation Tunable White systems consist of two to six linear or area LED modules and corresponding DALI DT8 LED drivers. They cover the entire colour temperature spectrum from 2,700 to 6,500 K, have an extended dimming range down to 3 percent and, together with appropriate control components, provide the hardware basis for human centric lighting.**

The new Tunable White systems (SELV) fit in first-generation non-SELV housings but offer even better quality of light, high visual comfort and unprecedented colour consistency. This combination is of great benefit for offices, shops, educational establishments and medical facilities because the right light can be produced for any particular lighting application.

Preconfigured kits are available comprising two to six LLE or QLE Premium LED modules and associated low-profile DALI DT8 drivers in 50 or 100 W versions.

The colour temperature can be infinitely adjusted between 2,700 and 6,500 K via a sophisticated calibration algorithm in all the possible combinations. This means that the natural changes in daylight can be simulated and matched precisely to the lighting task. The luminous flux remains constant at all times. The system can also be dimmed from 100 to 3 percent, exclusively via amplitude modulation. There is therefore no dimming flicker. The colour location that has been precisely defined in the kits is retained at all dimming levels. Even if there are a large number of luminaires in a room the light will have a homogeneous appearance. The high quality of light is reflected in the high colour rendering index of $R_a > 90$ and colour consistency corresponding to MacAdam 3.

Simple operation and control

The driver is equipped with colourSWITCH and switchDIM so the colour temperature and dimming level can be easily changed using two buttons. This is also possible from a momentary-action switch or smartphone via basicDIM Wireless. A selection of predefined colour temperatures and dimming levels are available at the touch of a button. The kit can also

be operated from a touchpanel. The integrated DALI interface enables the kit to be easily connected to central light management systems.

Depending on the version, Tunable White modules LLE G2 PRE (24 x 280 mm) deliver a luminous flux per module of 700 or 1,500 lm, and Tunable White modules QLE G2 PRE (270 x 270 mm) a luminous flux per module of 1,250 lm. While LLE modules have an efficiency of up to 112 lm/W, QLE modules achieve up to 136 lm/W.

With their improved technical specifications, carefully designed control technology and impressive flexibility, the Tunable White systems meet the growing demands for lighting that can be tailored precisely to the requirements of different situations to enhance the well-being of users. The manufacturer specifies a life of 50,000 hours and provides a five-year guarantee.

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About Tridonic

As a leading global provider of smart and efficient lighting solutions, Tridonic today empowers its customers and business partners to become more successful by making their lighting smarter, more exciting, and more sustainable. Our component lighting solutions deliver superior quality, highest reliability, and impressive energy savings to provide our customers with a strong competitive edge.

The company continuously brings new innovations and state-of-the art lighting solutions to market. All R&D projects are fully devoted to the development of new LED and connected lighting technologies. Thanks to the in-depth expertise and knowhow in vertical lighting applications (for instance in Retail, Office & Education, Outdoor, and Industry), leading luminaire manufacturers, architects, electrical and lighting planners, electrical installers and wholesalers rely on Tridonic for both indoor and outdoor lighting needs.

As part of the Zumtobel Group, Tridonic is headquartered in Dornbirn, Austria, and in fiscal year 2016/17 generated sales of 377.2 million EUR. 1,590 highly skilled employees and a worldwide sales presence in 51 countries reflect Tridonic's commitment to accelerating the development and deployment of new, smart, and connected lighting applications. With more than 40 million light points installed every year, Tridonic is perfectly positioned to play a decisive role in leveraging lighting as a key enabler and important infrastructure for connected lighting (Internet of Things).

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