

PRESS RELEASE

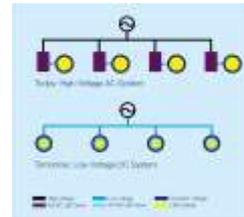
May 19, 2015

More design, less installation

- * Miniaturisation for light rails with TALEXXengine DC String
- * Emergency lighting can also benefit



TALEXengine DC String fixed-output*



TALEX engine DC String Graphic*

As miniaturised light sources, LEDs offer great design freedom to luminaire manufacturers and interior designers. However, to date LED drivers, which are essential and need a lot more space than the light sources themselves, have placed restrictions on the design. With the new TALEXXengine DC String, Tridonic is offering an LED solution which makes AC/DC converters and DC/DC components go their separate ways, creating opportunities for new design ideas.

The system supports the trend towards the miniaturisation of LED luminaires, increasing freedom of design and making installation easier at the same time. In present LED lighting solutions, each LED light source needs an LED driver which contains an AC/DC converter and a DC/DC component. The AC/DC converter takes up most of the space in the LED driver, and hence determines the component's minimum size. This component is therefore an obstacle to further miniaturising LED luminaires and increasing design freedom.

Martin Thompson, Tridonic Technical Services Manager explains more about the new offering; "In the DC String LED solution, the AC/DC converter element is separated from the conventional LED drivers and installed at a central location from where it can supply LED light sources with a total output of up to 150 W in an energy-efficient way. The

individual light sources, or luminaires, are now only equipped with a low-profile compact DC/DC module, or the module has already been integrated into the light source, eliminating the limitations that AC/DC converters have created so far. This gives luminaire manufacturers the opportunity of further miniaturising LED luminaires and developing even smaller lighting solutions, which blend discreetly into the room and offer impressive high system efficiency." He concludes; "Tridonic has reached a milestone in lighting design with this DC String LED solution."

DALI modules are centrally connected – no wiring needed

DALI and emergency lighting components will also be centrally connected to the AC/DC converter, eliminating the need for connecting them to the individual LED light sources. DALI dimming commands are converted to digital power line signals for the DC/DC modules by the DALI converter. The system still remains DALI-compliant, with each light source appearing separately as a standalone address, and working in an identical way. That way the lighting system only requires one DALI converter, and emergency lighting components can now also be upgraded from a central location without any additional wiring. The central system gives architects and lighting designers more flexibility for placing luminaires in a room in an aesthetic way, meeting specific occupant demands. Other benefits are an easier SELV installation at a reduced cost and a decrease in maintenance costs.

Upgrading existing lighting systems is equally simple, for example upgrading a non-dimmable lighting system to a dimmable lighting solution. It's enough to replace the existing light sources with light sources with a DC/DC module, and to connect a higher-ranking central AC/DC converter, as well as DALI and emergency lighting components if required.

About Tridonic

For almost 60 years Tridonic has been a successful innovation driver on the lighting market. This pioneer of digital lighting control is focusing its attention on LEDs as the technology of the future. The broad offering for creating semiconductor-based and conventional lighting solutions ranges from individual components to complete systems. The focus is on LED systems comprising light sources and converters. An extensive portfolio of conventional control gear for different lamp types and light management systems rounds off the off the programme.

This global company is shaping the technological changes on the lighting market together with its strategic partners and places great emphasis on intensive and personal contact with its customers. The innovative product portfolio, in-depth application know-how and excellent service are aspects that luminaire manufacturers, architects, electrical and lighting planners, electrical installers and wholesalers all find impressive. Solutions based on components and systems from Tridonic meet the highest quality requirements for indoor and outdoor lighting in reference installations throughout the world.

Tridonic GmbH & Co. KG has its headquarters in Dornbirn in Austria. It is a subsidiary of the Zumtobel Group and has 27 of its own offices on 5 continents. In the 2013/14 fiscal year 1,970 employees produced sales totalling 384.5 million euros. 9.6 % of sales was invested in research and development.

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