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PRESS RELEASE

Airport lighting on demand

Tridonic supplies new mega airport in Beijing with light-on-demand

Dornbirn, October 4, 2019**. The new Beijing Daxing International Airport, approximately 50 kilometres south of the Chinese capital, is already being hailed as a mega airport – and not without reason. Enormous capacity, unique architecture, rapid construction and special, customizable lighting are the hallmarks of the building. Tridonic played a major role in providing optimum lighting. The technology company supplied drivers, intelligent lighting control and light-on-demand with daylight tracking for this mega project.**

The lighting concept is based on indirect lighting and uses concealed light sources and reflected light to create a special atmosphere. The building had to be welcoming and modern, and above make the time spent there by the millions of passengers a pleasant one. A very large area had to be equipped with functional light and an individual control system in only a short space of time. The lighting had to include daylight detection, flexible adjustment of lighting levels, remote control of the luminaires and simple maintenance.

DALI drivers and intelligent lighting control provide light-on-demand

Tridonic supplied the LED drivers that provide the basis for light-on-demand in the new terminal building. Lighting is an essential element at the airport. It has to fulfil different tasks and be used for different situations. The DALI drivers enable these different requirements to be met – always in line with the needs and comfort of passengers. Relaxation areas, for example, have low illuminance levels, whereas reading areas are brightly lit for optimum visibility, and the restaurant area is sufficiently bright to create the right atmosphere.

Daxing is the first new airport project in China in which DALI drivers and a light management system are integrated in the KNX building control system. Tridonic has supplied the starfish airport with DALI LED drivers, intelligent lighting control and an on-demand lighting solution. More than 2,000 LCA one4all drivers in the premium series are used in the spacious interior of the new terminal building. The drivers are compact and dimmable. They are therefore ideal for discreet indirect lighting. Tridonic has also supplied around 3,000 drivers for illuminating the

parking spaces. The drivers in the premium and premium SELV series are characterised by their efficient dimming behaviour and optimum functionality. They therefore meet the requirements for daylight connectivity over large areas.

Daylight detection, simple maintenance and energy efficiency

The results of the mega project speak for themselves. Thanks to Tridonic, the airport has large-scale interior lighting with daylight tracking. The luminaires can be remote controlled in real time and as accurately as if they were being controlled from the immediate vicinity. For control purposes the luminaires are combined intelligently into small groups and can be adjusted independently and in any way within these groups. Maintenance is very simple. The drivers automatically provide information on their operating status and that of the luminaires – again in real time. There is therefore no need for permanent monitoring, and action is only required when necessary. Thanks to predictive maintenance, technicians receive information about impending failures or defective components at an early stage and can react in good time. This makes their job and the job of facility managers much easier and also has cost benefits. The low standby power consumption of only 0.2 W makes the drivers energy efficient.

“We are delighted to be involved in this globally significant mobility project. Thanks to our broad portfolio and the expertise of our team, we were able to quickly find appropriate solutions and meet the requirements of the airport authority,” said Christoph Zimmermann, SVP Global Sales & Communication at Tridonic. “With our solutions we are helping to make Beijing Daxing airport a pleasant place for millions of passengers.”

Beijing Daxing International Airport – a mega project

In terms of the area it covers, the new Beijing airport is the world’s largest airport. It was constructed in only four years. It was officially opened on September 30 to coincide with 70th anniversary of the founding of the People’s Republic of China. Covering a total of 1.4 million square metres, it is expected to handle 100 million passengers a year. Approximately 300 take-offs and landings are scheduled to take place each day. Designed by architect Zaha Hadid, the unique futuristic building resembles a starfish from the air.

Caption
Tridonic supplied more than 5,000 LED drivers to provide light-on-demand in the terminal of the new Beijing Daxing airport.

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About Tridonic
Tridonic is a world-leading supplier of lighting technology, supporting its customers with intelligent hardware and software and offering the highest level of quality, reliability and energy savings. As a global driver of innovation in the field of lighting-based network technology, Tridonic develops scalable, future-oriented solutions that enable new business models for lighting manufacturers, building managers, systems integrators, planners and many other types of customer.

To promote the vision of the “Internet of Light”, Tridonic relies on partnerships with other specialists. The goal is the joint development of innovative technological solutions that convert lighting systems into intelligent networks and thereby enable associated services. Its profound, technical industry expertise makes Tridonic an ideal partner for established brands and for newcomers to the market.

Tridonic is the technology company of the Zumtobel Group and is headquartered in Dornbirn, Austria. In the 2018/19 fiscal year, Tridonic achieved sales of 348.3 million euros. 1,778 highly skilled employees and a worldwide sales presence in over 70 countries provide the basis for developing and launching new, smart and connected lighting systems.

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