

PRESS RELEASE

Fit for DALI-2

Compact sensors that can detect motion and ambient light

Dornbirn, 27 August 2018. **Tridonic is launching a new series of sensors that can detect both motion and ambient light. Developed in accordance with the IEC-62386-103 standard and prepared for certification by the Digital Illumination Interface Alliance (DiiA), the sensors are suitable for commercially available DALI-2 controllers and can easily be integrated into lighting and building management systems.**

The third-generation multi-sensors for detecting motion and ambient light were developed in accordance with the IEC-62386-103 standard and were tailored to meet the requirements of DALI-2 controllers. The sensors operate with passive infrared technology (PIR) and react to changing thermal radiation in the detection range. The sensors are available in three designs: MSensor G3 SFI 5DPI (low-bay), G3 SFI 30 10DPI WH (mid-bay) and G3 SFI 30 16DPI WH (high-bay); each design is available as a recessed model or with an additional attachment housing. The compact design of the recessed models means that they can be integrated into luminaires without any of the component showing. Depending on the respective design and area of application, models with an additional attachment housing offer protection class IP 66 (mid-bay) or IP65 (high-bay).

Suitable for a wide range of applications

All designs bring together the motion and ambient light sensor under one housing and are ideal for a variety of applications both indoors and outdoors as they can be mounted at a range of heights and offer different detection ranges. Integrated into the housing, a remote-control interface – which can be operated via infrared remote controllers – enables the respective luminaires to be controlled individually.

The perfect sensor for any height

Low-bay sensors are designed for low-ceilinged rooms up to 5 m high. They detect motion within an angle of 84° and ambient light from 10–650 lx. The detection diameter of these sensors depends on the height of the respective room and reaches 3–9 m, which corresponds

to an area of 7 m² to around 64 m². The sensors are particularly suitable for office areas and classrooms.

Mid-bay sensors are especially impressive in rooms with a moderate ceiling height from 5 to 10 m – such as in the sales and industrial sectors. They detect motion within an angle of 72° and ambient light from 0.5–2,000 lx. The detection diameter ranges from 7–14 m depending on the height of the room and the area detected ranges from 38.5–154 m².

For high-ceilinged rooms up to 18 metres – such as logistics halls and industrial buildings – high-bay sensors are the perfect choice. They can be positioned at various mounting heights (8–12 metres or 12–18 metres) and depending on the respective height, they can detect motion within an angle of 60° or 72° (at a low mounting height) and ambient light from 1–2,000 lx. The detection diameter ranges from 12–21 m and the detected area ranges from 113–346 m².

All of the sensors were developed in accordance with the IEC-62386-103 standard and are therefore suitable for certification by the DiiA. The sensors are compatible with standard controllers for DALI systems in accordance with EN 62386-101 Edition 2 and are therefore easy to integrate into lighting management systems.

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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 customers.

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 2017/18 tax year, Tridonic generated sales of €352.7 million. 1,690 highly skilled employees and a worldwide sales presence in over 50 countries reflect the company's commitment to the development and deployment of new, smart and connected lighting systems.

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