

LED solutions

# **luxCONTROL**

Lighting management systems



**TRIDONIC**



SATTLER

# Light at the right place, at the right time

We supply lighting management that provides a perfect combination of control system, sensors, control units and lamps. A complete Tridonic lighting solution system from a one-stop supplier, from the light source right through to the lighting management system.

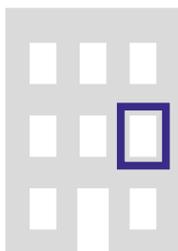


**SMART**  
1 luminaire

### Intelligent switching

SWITCH switching sensors for luminaire installation are the compact solution for the smart luminaire. They offer maximum convenience and optimum energy efficiency. The basic setting for the individually controlled luminaires is made directly on the sensor.

Details from page 4 onwards

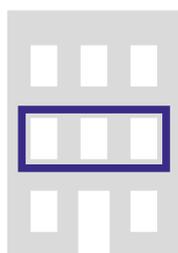


**basicDIM**  
approx.  
20 luminaires

### Light for every mood

An intelligent system solution like basicDIM features lighting control that takes into account the presence of users and ambient light. Besides being suitable for master/slave luminaires, this efficient system wins out in particular thanks to software-free installation. Complex spatial solutions can be implemented quickly and straightforwardly.

Details from page 6 onwards

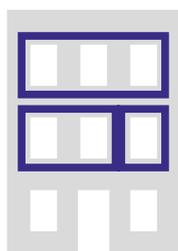


**comfortDIM**  
120 luminaires

### Convenient light

Simple, uncomplicated and flexible; these are the attributes needed to ensure maximum convenience on every floor of a building, and they are also the characteristics exemplified by comfortDIM. This DALI-based lighting management system concentrates on straightforward design, easy installation and flexible configuring.

Details from page 8 onwards



**connecDIM**  
Building

### Innovative light

The lighting management solution connecDIM provides an excellent platform for smart, cost-effective and user-friendly control and lighting management from a few simple DALI devices up to a lighting system in a building.

Details from page 14 onwards

## Switch sensors

Added value for luminaires



Switch sensors that automatically switch lighting depending on the presence of users and ambient light offer greater efficiency and more convenience.

### At a glance

- Switching depending on the presence of users and ambient light
- Extremely easy commissioning
- Up to 20 LED driver can be switched using the corridorFUNCTION
- corridorFUNCTION offers various delay times, which can be programmed in software



**smartSWITCH 5DP 14f**

The smartSWITCH 5DP 14f is a multisensor which combines a presence detector and a light sensor for lighting fixtures and is used to switch luminaires on and off automatically if a presence is detected, depending on whether there is enough natural light in the room or not. The sensor is based on PIR technology (passive infra-red), which determines a presence through a change in sources of heat. The light value and the switch-off delay can be easily adjusted with two potentiometers on the rear of the sensors. The smartSWITCH 5DP 14f can be easily installed by means of the 5DP 14f mounting kit.



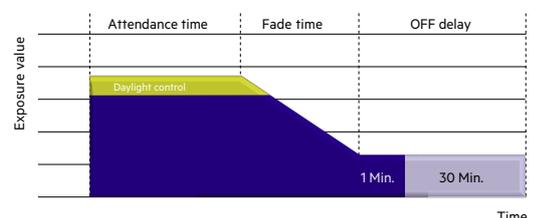
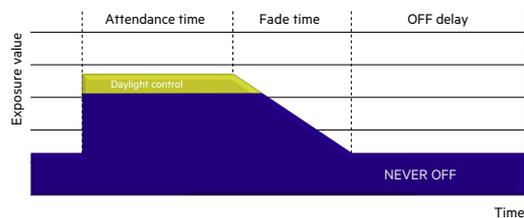
**smartSWITCH HF 5DP f**

This presence and light sensor is equipped with microwave technology and is extremely small and requires minimum space in the luminaire. The adjustable detection area has been extended in comparison with the predecessor HF 5BP. The sensors are particularly space-saving in combination with modules such as CLE G3 ADV from Tridonic, which already have the right cut-out in place. You can benefit from basic functionality or extended corridorFUNCTION provided with our EXC, PRE or Emergency converters. All together: switch sensor, LED module and converter brings you a cost-efficient combination.

**These sensors really come into their own when used in combination with the Tridonic corridorFUNCTION. This function makes it possible to switch up to 20 control units using just one sensor.**

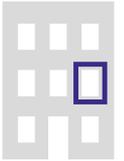
**The corridorFUNCTION – the smart way.**

The corridorFUNCTION's predefined profiles offer a suitable solution in any area. Driver PREMIUM makes it possible to program the corridorFUNCTION individually.



**basicDIM**

Clever combination of daylight and artificial light to suit you



The three most important criteria that modern lighting management systems have to meet are visual comfort, suitability to the tasks being performed and energy efficiency – compactDIM supports all these. With just a small addition you can turn your luminaire into an intelligent system. Compact and with low stand-by losses, it will then save you energy.

**At a glance**

- Compact control module for installation in luminaire
- Presence and ambient light-based control
- Installed without any software
- For use with master/slave luminaires

## DALI TOUCHPANEL BASIC

### Touchpanel



DALI TOUCHPANEL BASIC performs a variety of lighting tasks in small and medium-sized rooms such as offices, hotel rooms, classrooms and meeting rooms and is very easy to use. Luminaires can be switched on and off, dimmed and grouped via the control panel with six individually assignable keys. DALI TOUCHPANEL BASIC is available in the four layouts COMBINATION, GROUP, SCENE and TUNABLE WHITE.

Another advantage is the ease of commissioning by means of a DALI connection. What's more, lighting scenes can be saved and colour temperatures can be set. Using simple rotary switches, up to 15 lighting scenes and 14 groups can be defined. Another benefit is simple commissioning thanks to DALI connection and four preprogrammed types. .

### basicDIM wireless – introduction to intuitive light control



Integrated in the luminaire, the basicDIM wireless module allows anyone to have convenient, wireless interaction with luminaires, including configuration, commissioning and lighting control by the user. Simple control using Bluetooth smart can already be observed from the compact user interface. Its eight buttons enable switching on and off, dimming, scene selection and the setting of the colour temperature and light proportion. The lighting control can also be operated using an app.

### basicDIM ILD 5DPI 14f – for individual floor-standing and pendant luminaires



Thanks to their small and compact in-built design, the basicDIM control devices can be easily installed in luminaires. They are suitable for up to 10 DSI or DALI LED Drivers and have two DALI/DSI output channels with an adjustable offset from channel 2 to channel 1.

It also saves energy: this is based on the detection of ambient light and presence. The comfort of this control device comes from the momentary-action switch input and the optional remote control. The maximum installation height is five metres. It is also possible to adjust the parameters individually via the basicDIM ILD programmer.

The basicDIM ILD 5DPI 14f has not only a white sensor head but also a black type for free-standing luminaires in a metal look to allow an individual design. There is also a model with a black sensor and a 1.8 m transparent cable for suspended luminaires that have little space in the luminaire body. The basicDIM ILD 5DPI 14f can be easily installed by means of the 5DP 14f mounting kit.



### basicDIM DGC – the independent solution for classrooms and offices with that certain extra something

basicDIM DGC is a digital control module with two output channels with an adjustable offset and an additional relay output. Up to 20 DSI or DALI LED drivers can be controlled. Up to four combined sensors for presence and ambient light measurement can be connected to the sensor input. Luminaire installation and ceiling installation versions are available.

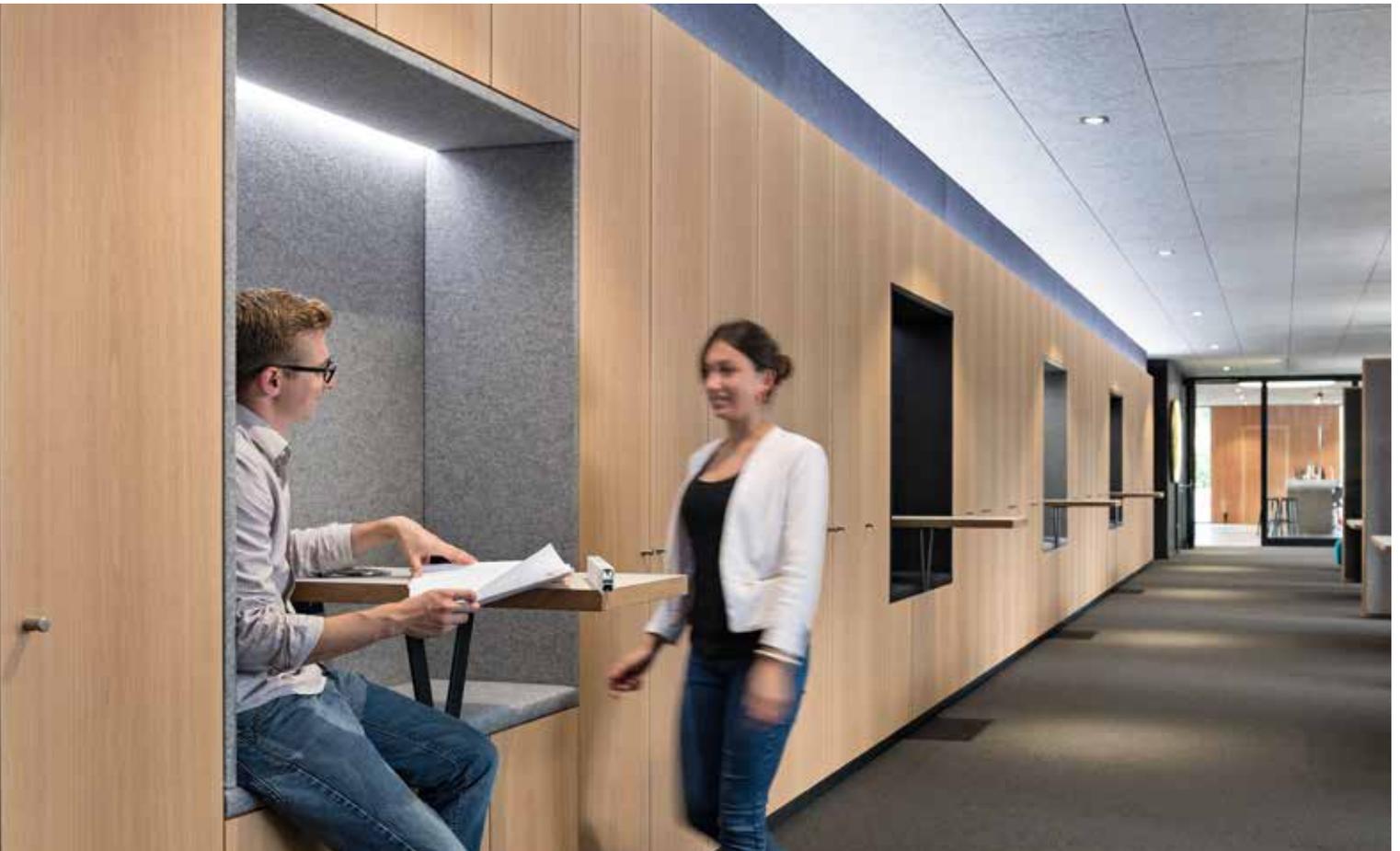
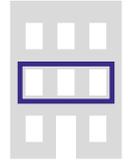
For classrooms, one of four preprogrammed settings can be selected at the push of a button via the basicDIM DGC programmer and the additional switch output can be used for panel illumination.

If the device is used as a floor standing luminaire module, the relay output supports the Minergie standard. Thanks to the DALI input on the device the basicDIM DGC can be integrated and used in a light management system, for example for central lamp fault queries or on/off commands. The basicDIM DGC can be easily installed by means of the 5DP 14f mounting kit.

Product characteristics	basicDIM ILD	basicDIM DGC	basicDIM Wireless
Installation	Installed in luminaire	Installed in luminaire/mounted on ceiling	Installed in luminaire
Daylight, presence, remote control	■	■	Presence remote control
Mounting height 5 m	■	■	■
DSI/DALI broadcast	■	■	DALI
LED Driver	2x5	2x10	1
Output channels	2	2	1
Momentary-action switch inputs	1	2	1
Standby	200 mW	200 mW	
Relay		Yes	
DALI input		Yes	

## comfortDIM

Comfortable lighting for unrestricted freedom



Our comfortDIM lighting management system is based on the twin principles of comfort and independence. Your projects benefit from simplicity and maximum flexibility from start to finish.

### At a glance

- DALI-based lighting management
- Easy design
- User-friendly installation
- Flexible configuring



### DALI TOUCHPANEL 02

#### Touch panels

Operating DALI systems – Tridonic touch panels enable you to accomplish this conveniently via a static user interface. DALI TOUCHPANEL 02 has a keypad with user-selectable key functions for manually controlling lighting groups and lighting scenes. Alternatively, the colour temperature can be changed manually (Tunable White). It is programmed by using masterCONFIGURATOR software, which is available free of charge.



### DALI x/e-touchPANEL 02

#### Touch panels

With the DALI x/e-touchPANEL 02 you can program groups and lighting moods and retrieve them via the graphical user interface. The panel also includes a sequencer which is used to automate calendar-controlled sequences. The daylight sequence function enables the colour temperature of the light to change automatically throughout the course of the day. The x/e-touchPANEL 02 can be remote controlled from a PC/tablet via the Ethernet interface at the back, or files can be downloaded from a PC/tablet or uploaded to the x/e-touchPANEL.



### DALI XC

comfortDIM momentary-action switch module Conventional momentary-action switches can be connected quickly and easily to the comfortDIM XC module. This gives you the option of customising the lighting and programming it via the free masterCONFIGURATOR software. These momentary-action switch modules are used to group luminaires together, define scenes and program macros. Tunable White also allows colour temperature variations.



### DALI MSensor 02 and MSensor 5DPI 14

#### comfortDIM sensor with remote control

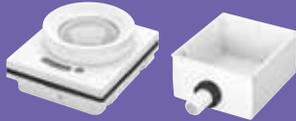
DALI MSensor 02 and MSensor 5DPI 14 both have combined light sensors (ambient light) and presence detectors (available as surface-mounted and recessed version). Remote control IR6 can be used to control and set the light values. The DALI MSensor 5DPI 14f can be easily installed by means of the 5DP 14f mounting kit or lowbay sensor housing.

Functionality	DALI TOUCHPANEL BASIC	DALI TOUCHPANEL 02	DALI x/e-touchPANEL 02	DALI XC
Manual group/scene control	■	■	■	■
Automatic scene control (sequence)			■	■
Convenient operation and programming	■		■	■
Comfortable configuration with a PC		■		■

# Latest DALI specification now open for controls

## Overview MSensors 3rd generation

With the especially integration of lighting controls and IoT applications, sensors are becoming especially relevant. Light that switches on automatically via presence detectors and that adapts to the current light conditions reduces energy costs and promotes human well-being. With the establishment of DALI-2, sensors are gaining significance as they can now easily be integrated into DALI systems. The options range from discreet integration in luminaires to surface-mounting/installation in the ceiling. Tridonic is following the trend of miniaturisation in this respect too. Each sensor combines Tridonic's areas of technical expertise, such as precise detection over large areas. Suitable designs for various mounting heights, tasks and environments round off Tridonic's range of sensors perfectly.

Product characteristics	<b>MSensor G3 SFI 30 PIR 5DPI*</b> for Low-bay application 	<b>MSensor G3 SFI 30 PIR 10DPI</b> For Mid-bay application 	<b>MSensor G3 SFI 30 PIR 16DPI</b> For High-bay application 
	The multi-sensor with PIR technology combines motion and daylight detectors for spaces with ceiling heights of up to five metres. It is therefore mainly used in offices, thus covering small and medium-sized systems right up to LMS and BMS. The optional installation kit makes installation in the luminaire especially easy. Thanks to the matching accessories, the sensor – available in both black and white – can also be used as a stand-alone solution.	Heights up to 10 metres are the perfect environment for the Mid-Bay multi-sensor with PIR technology. It combines a motion and daylight detector in its small, slim housing and perfectly covers all DALI systems, whatever their size. The IP66 protection means that it is perfectly suited for use in industrial environments and outdoor luminaires; the discreet housing with its excellent integration capability is bound to impress users. With the DALI application controller, the commissioning process is particularly easy.	The PIR sensor with motion and daylight detector covers all system sizes, from small and medium-sized DALI systems through to integration in BMS. It can be fully integrated into luminaires, which are mounted at heights of up to 18 metres. As a result, the sensor is ideally suited to the fields of industry and logistics. Equipped with IP65, it is ideally suited for use in demanding environments.
Standard	Sensor only applicable for DALI installations according to EN 62386-101 Ed.2.		
Technology	PIR	PIR	PIR
Presence sensor	■	■	■
Ambient light	■	■	■
Typical application	Various office applications	Industrial, logistic and DIY	Industrial and logistic halls with high ceilings
Max. Mounting height	5 m	10 m	up to 18 m
Motion detection angle	84°	72°	60-72° (low-high)
Range for light measurement (sensor head)	10–650 lx	0.5– 2,000 lx	1–2,000 lx
Size	16,4 x 44,4 x 12,8 mm	30 x 30 x 28,5	86,3 x 99,3 x 38
IP protection	IP20	IP66 (front)	IP65
Infrared interface	for remote control only	for remote control only	for remote control only
Powering Options	DALI circuit, converter with the DALI PS or stand alone DALI PS	DALI circuit, converter with the DALI PS or stand alone DALI PS	DALI circuit, converter with the DALI PS or stand alone DALI PS
Function	On/Off and dimming Addressing and grouping of the sensor via Application Controller	On/Off and dimming Addressing and grouping of the sensor via Application Controller	On/Off and dimming Addressing and grouping of the sensor via Application Controller
Mounting accessories	Sensor mounting KIT for the luminaire installation (in black and white). Surface-mounted housing made from UV-resistant plastic which are protected by IP20	Sensor mounting KIT for the luminaire installation; housing for stand-alone solutions is available as an option; this comes equipped with the choice of IP20 or IP66 protection.	IP65 BOX for side entry installation and optional 3 Shading Lenses (AISLE, HALF, ENTRY)
Commissioning	Via multi-master DALI-2 application controller. Individual adjustment of the parameters with configuration software.	Via multi-master DALI-2 application controller. Individual adjustment of the parameters with configuration software	Via multi-master DALI-2 application controller. Individual adjustment of the parameters with configuration software.

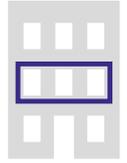
# Sensors and control units

## Overview

Product characteristics	smartSWITCH SDP 14f	smartSWITCH HF SDP f	basicDIM ILD SDPI 14f	basicDIM ILD 16DPI 14f	basicDIM DGC	DALI MSensor 02 und MSensor 5DPI 14
	It is multisensor which combine presence detector and light sensor for lighting fixtures and used to switch luminaires on and off automatically if a presence is detected, depending on whether there is enough natural light in the room or not.	This presence and light sensor is equipped with microwave technology and is extremely small and requires minimum space in the luminaire. The sensors are particularly space-saving in combination with modules such as CLE G3 ADV from Tridonic, which already have the right cut-out in place.	Thanks to their small and compact in-built design, the basicDIM control devices can be easily installed in luminaires. The comfort of this control device comes from the momentary-action switch input and the optional remote control. It is also possible to adjust the parameters individually via the basicDIM ILD programmer.		basicDIM DGC is a digital control module with two output channels with an adjustable offset and an additional relay output. Up to four combined sensors for presence and ambient light measurement can be connected to the sensor input.	DALI MSensor 02 and MSensor 5DPI 14 both have combined light sensors (ambient light) and presence detectors (available as surface-mounted and recessed version). Remote control IR6 can be used to control the light values.
Technology	PIR	HF	PIR	PIR	PIR	PIR
Presence sensor	■	■	■	■	■	■
Ambient light	■	■	■	■	■	■
Typical application	individual luminaire or small room	individual luminaire or small room	small rooms, free-standing and ceiling luminaires	Industry halls and areas with high ceilings	individual luminaires, mid-size offices, class rooms	Various office applications
Max. Mounting height	5 m	5 m	5 m	16 m	5 m	4 m (02)/5 m(14f)
Motion detection angle	84°	30°–150°	84°	60-72° (low-high)	84°	90°/ 84°
Range for light measurement (sensor head)	10–650 lx	2–50 lx	10–650 lx	1–500 lx	10–650 lx	10–650 lx
Size	30 x 120 x 21 mm/ 44,4 x 16,4 x 12,8 mm	58 x 48,5 x 24,5 mm	30 x 120 x 21/ 44,4 x 16,4 x 12,8 mm	30 x 120 x 21/ 86 x 99 x 38 mm	30 x 159 x 21 mm (F) Ø58 x 64 mm (14rc)	depends on type (02) 44,4 x 16,4 x 12,8 mm (F) Ø58x64mm (14rc)
IP protection	IP20	IP20	IP20	IP65	IP20	IP20
Infrared Interface	-	-	remote control and commissioning	remote control and commissioning	remote control and commissioning	for remote control only
Device connection	Max. switching output 200 VA/500 W	Maximum load (capacitive): 400 W/400 VA	for up to 10 DSI or DALI LED Drivers		for up to 20 DSI or DALI LED Drivers	Limited by DALI standard
Function	On/Off	On/Off	On/Off and dimming		On/Off and dimming	On/Off and dimming; DALI addressing and grouping via masterCONFIGURATOR
Mounting accessories	built-in housing with UV stabilized plastic		Sensor mounting KIT for the luminaire installation	IP65 BOX for side entry installation, set of shutters	built-in and ceiling recessed housing with UV stabilized plastic	Various housing types for fixture in-build and stand alone installation

## Interfaces and actuators

Interfaces and actuators connect our lighting management systems with your world



With the unique comfortDIM system you can produce lighting solutions that offer impressive flexibility, ease of use and individuality. Our solutions can provide maximum protection for your investment and future-proof design.



### **DALI PS 1/PS 2**

These allow a central supply unit which is optionally available for installation in switch cabinets (PS 2) or surface-mounted housings (PS 1).



### **DALI USB**

The USB interface for connecting computers to DALI systems enables simple addressing and configuration of the DALI components with masterCONFIGURATOR software from Tridonic.



### **DALI PCD 1-300 one4all**

The 300 VA Leading-edge or trailing-edge phase dimmer for the comfortDIM system.



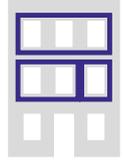
### **DALI PCD/S**

The 1000 VA Leading-edge or trailing-edge phase dimmer for the comfortDIM system.



### **DALI 3-RM-C**

The DALI control module for controlling up to three 24V standard contactors offers greater convenience. This ensures that different electronic loads can be switched by DALI commands.



**connecDIM is Tridonic's next generation distributed smart lighting management solution.**

**This innovative lighting management solution provides an excellent platform for smart, cost-effective and user-friendly control and lighting management from a few simple DALI devices up to a lighting system in a building.**

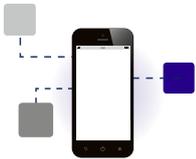
#### **At a glance**

- Commissioning via tablet or smartphones
- connecDIM firmware updates via the Cloud
- Inexpensive solution using industrial standard hardware and internet technologies (DALI, TCP/IP)
- With one gateway, up to 4 DALI lines can be controlled
- No need for complex and expensive BMS servers in the building thanks to Cloud service



**connecDIM Gateway**

The connecDIM Gateway links the DALI lines and enables interoperation between DALI standard devices. Enables wireless control through a standard wifi-router with a iOS or Android device. Once connected to the internet, it uploads all lighting data to the connecDIM Cloud.\*



**connecDIM App's**

**connecDIM Lite:** App made for users to control their individual lights within the wifi-network.

**connecDIM Architect:** App made for commissioning used by electrician/ integrators and for maintenance.



**connecDIM Cloud\***

A service accessible online from anywhere in the world. Remote monitoring of the site, astronomical schedule management, maintenance and emergency lighting tests.

Functionality	connecDIM Lite App	connecDIM Architect App	connecDIM Cloud*
Convenient dimming/switching	■		
Tunable White luminaires (colour control)	■		
Central user management			■
QR code based light control	■		
DALI Commissioning		■	
DALI address finding wizard		■	
DALI Bridging Function		■	■
Multiply sites support			■
Device history			■
Astronomical Schedule Management			■
Automated Emergency Testing & Reporting			■

\*Paid service.

# The Light

## Discover the hidden lighting asset.

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.

### Supporting information and instruments:



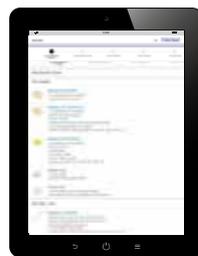
LED solutions product catalogue



Data sheets at [www.tridonic.com](http://www.tridonic.com), under "Technical data"



Product Solutions App [productsolutions.tridonic.com](http://productsolutions.tridonic.com)



Setbuilder V2.0 [setbuilder.tridonic.com](http://setbuilder.tridonic.com)



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Light you want to follow.

