

luxCONTROL

basicDIM Wireless Module and User Interface

The intuitive move towards wireless
luminaire communication



TRIDONIC

Hassle-free wireless

The intuitive path towards wireless luminaire communication



basicDIM Wireless control technology allows versatile and professional interaction with all luminaires within an area – fully intuitive and with no additional wiring required.

The basis for the wireless light management is found in the luminaire with the LED module, a 24-V constant voltage or DALI driver and one of the basicDIM Wireless modules. The control profiles are saved during the luminaire production stage. Users can choose whether to control the lighting using the 4remote BT App or via the user interface.

Up to 127 light points can be conveniently controlled via Bluetooth: switching on and off as well as dimming functions are just as simple as grouping luminaires and creating lighting settings. Tunable White luminaires change their colour temperature to suit the user and the direct and indirect light content are simple to adjust. All the elements for integrating sensors are also in place.

basicDIM Wireless is the ideal solution for updating conventional lighting without requiring any additional construction effort. There are hardly any limits to the usage area with this. In office buildings for instance, each room and zone benefits from the system's easy-to-use and multi-functional intelligence.

The benefits for the luminaire manufacturer (Production) at a glance

- Simple configuration
- Define luminaire properties
- Allocate luminaire properties wirelessly

The benefits for the commissioning engineer (Installation) at a glance

- Commission, programme and control luminaires intuitively via the 4remote BT App
- Locate and assign luminaires wirelessly with ease
- Adapt the system quickly

The benefits for the building operator at a glance

- Simple updates
- Reduce power consumption
- Ensure multi-functional use for rooms
- Individual wireless light adjustments

The benefits for the user at a glance

- Individual operation for luminaires
- Simple graphic luminaire selection
- Intuitively adjust the light shade and intensity

Options for use



Selection of settings

Saved settings can be accessed quickly and adjusted to the planned room usage



Colour temperature

The light shade can be adjusted individually in accordance with the luminaires used



Dimming options

between 1% and 100%



Presence detection

Light to suit requirements through integration of sensors



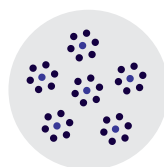
Scheduling

Scheduling possible using internal clock and calendar



Customisation

Adjustments for changes to usage requirements or for system expansion



Group circuit system

Control for individual luminaires and groups adjustable to usage requirements at any time via the 4remote BT App. Simple subsequent expansions through wireless installation

Technology that creates added value

Wireless usage options in an office building

Open-plan offices



Save energy in open-plan offices

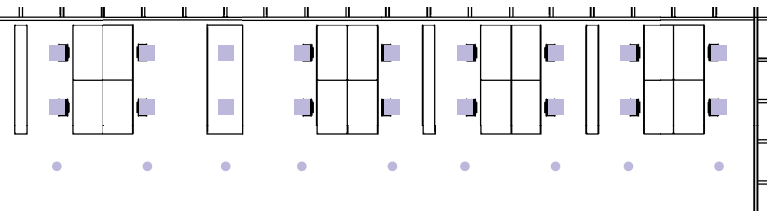
A large number of luminaires and long operating hours provide significant potential for CO₂ savings. Just switching from conventional T8 lighting to LED reduces energy costs by 40%. With basicDIM Wireless the luminaires can be dimmed without any DALI wiring, which can reduce energy costs by a further 20%.

Main benefits: Up to 60% energy savings

Control concept: Dim (groups of) luminaires automatically, depending on the time of day

Commissioning: Light settings set automatically with individual control options available

Individual operation: Switch on and off, access settings, dim the lighting



Comparative calculation*

	T8 luminaires	LED luminaires	Dimmed LED luminaires
Lighting	30 luminaires 4 x 18 W	26 luminaires 4,200 lm	26 luminaires 4,200 lm
Total output	2,200 W	1,326 W	1,326 W
Annual power consumption**	7,992 kW/h	4,774 kW/h	3,197 kW/h
Annual electricity costs***	€1,598	€955	€639
Annual savings		Forty percent	Sixty percent

* Schedule: 7-10 a.m.: 100%; 10 a.m. - 12 noon: 75%; 12 noon - 2 p.m.: 50%; 2 p.m. - 3 p.m.: 75%; 3 p.m. - 4 p.m.: 100%

** Operating time 12 hours per day, 300 working days per year

*** EUR 0.20 per kw/h

Conference rooms



Flexible design options for conference rooms

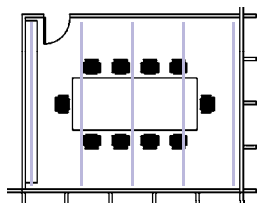
Multi-functional areas provide a space where work alternates between presentations, discussions and teamwork. The different activities require lighting solutions that can be adjusted quickly and easily to the current situation, along with light settings that are easy to access.

Main benefits: Different light settings that can be accessed for alternating activities in the area

Control concept: Group luminaires and define settings

Commissioning: Light settings set automatically with individual control options available

Individual operation: Switch on and off, access settings, dim the lighting



Offices



Upgrade offices for one or two people

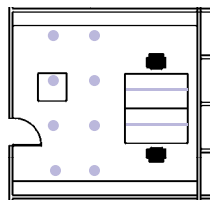
Various office activities such as computer work, brainstorming sessions or telephoning are easier if the direct and indirect sections of the lighting can be adjusted quickly and simply to the relevant needs and requirements. Personalised light also achieves a cost-saving element through incorporation of presence sensors.

Main benefits: Personalised lighting moods, energy savings

Control concept: Modify and dim indirect/direct light distribution, define groups and settings, detect presence

Commissioning: Light settings set automatically with individual control options available, modify the direct/indirect sections

Individual operation: Dim direct and indirect light sections separately, access personal settings via the 4remote BT App



Breakout zones



Live up breakout zones

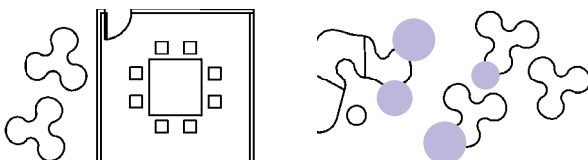
Breakout zones offer space for a wide range of activities – from a cosy lunch break through to inspiring brainstorming sessions and relaxed after-work drinks. Adjustable light settings create the right atmosphere at any time. Tunable White luminaires provide the most appropriate light atmosphere by using alternating light shades, illuminating the space with a soft or energising light as required.

Main benefits: Inspire, design and illuminate with light shades

Control concept: Change the colour temperature (Tunable White), dim lighting, define groups and settings

Commissioning: Automatically set light settings with colour temperature progress and available individual control options

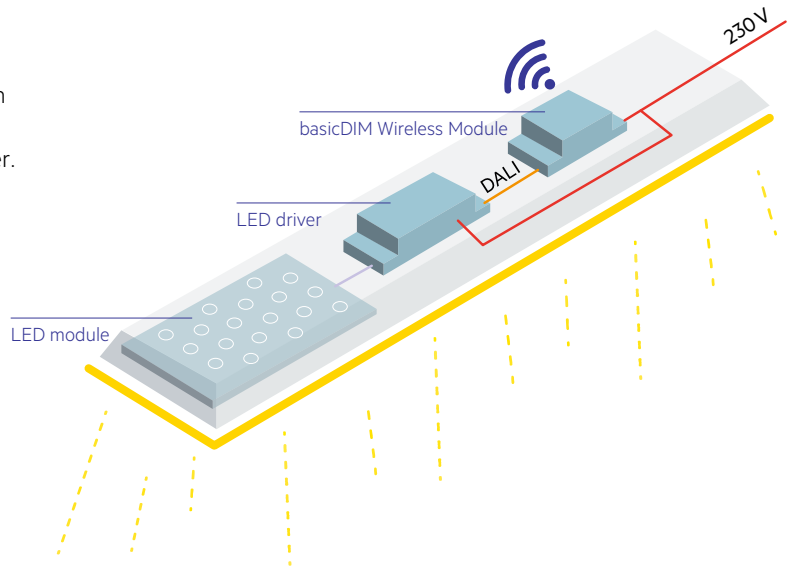
Individual operation: Switch on and off, adjust light shades, access settings, dim lighting



System structure

Compatible with Tridonic's DALI range

Wireless communication starts in the luminaire. The user uses the 4remote BT App or user interface to communicate with the basicDIM Wireless modules, which forwards the information to the LED module via the PREMIUM DALI driver or the 24 V constant voltage driver.



At a glance: basicDIM Wireless Module

- DALI Wireless Module
- Forms automatically a wireless communication network with up to 127 nodes

Convenient from configuration to use

The basicDIM Wireless module integrated into the luminaire allows convenient, wireless interaction with luminaires, including configuration as well as commissioning and actual use. Easy control via Bluetooth is already visible on the compact user interface. The lighting control system can also be operated via the 4remote BT App, which perfectly complements the modules and drivers from Tridonic.



At a glance: basicDIM Wireless passive Module

- Power supply via DALI power line (po4a driver PRE or DALI power supply)
- Perfect integration into basicDIM Wireless's simple wireless light control

Wireless modules with powered DALI power supply

The basicDIM Wireless passive module does away with the need for an additional mains line – one DALI power supply, either via the new po4a driver PRE or via a traditional separate DALI mains supply, is enough to modernise individual luminaires to areas as large as entire offices or corridors.



At a glance: basicDIM Wireless Module PMW constant voltage (CV) 4CH

- Can be combined with 24 V constant voltage drivers and applications
- Input voltage: 12 – 24 V
- Up to 4 LLE FLEX tapes together

Easy-to-dim LLE FLEX continuous row

The constant voltage (CV) basicDIM Wireless module is the ideal solution when you want to add a dimming function to existing accent lighting consisting of LED light lines without undertaking structural measures. Combined with non-dimmable 24 V CV drivers, an individual control module can dim up to four LLE FLEX module strips.

Order information

NEW	Type	Item no.
	basicDIM Wireless	28002212
	basicDIM Wireless PWM CV 4CH	28002575
	basicDIM Wireless Passive Module	28002574
	basicDIM Wireless User Interface	28002213
	basicDIM Wireless User Interface white	28002420

Further details can be found in the datasheet.

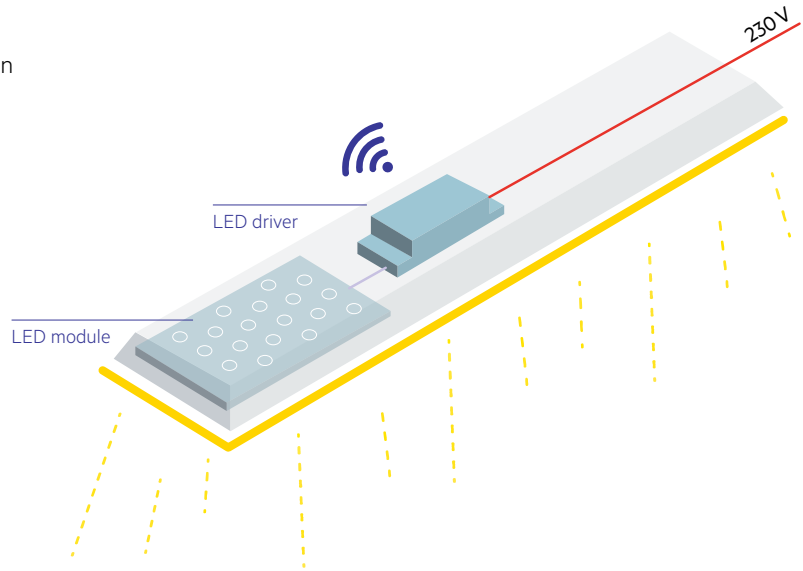
System structure

basicDIM Wireless integrated Driver premium series (PRE)

Thanks to the premium (PRE) driver series with integrated basicDIM Wireless technology, luminaires can be constructed with even greater ease.

The advantages of drivers with integrated basicDIM Wireless technology

With premium (PRE) series drivers, just one device needs to be installed for each luminaire, saving a huge amount of space. Since no additional wiring is required, costs are reduced significantly, too.



At a glance: basicDIM Wireless Driver constant current PRE (CC)

- Dimmable built-in constant current LED Driver
- Can be either used build-in or independent with clip-on strain-relief
- Adjustable output current via ready2mains Programmer, basicDIM Wireless or I-select 2 plugs
- Nominal life-time up to 100,000h, 5-year guarantee



At a glance: basicDIM Wireless Driver constant voltage PRE (CV)

- Dimmable 24 V constant voltage LED Driver for flexible constant voltage strips
- Small design with stretched-compact strain relief
- basicDIM Wireless enables different dimming options 1 to 100%
- Nominal life-time up to 50,000h, 5-year guarantee



At a glance: basicDIM Wireless Driver Tunable White PRE (TW)

- Independent dimmable constant current 2-channel LED Driver
- Adjustable output current via basicDIM Wireless or I-SELECT 2 Plug
- Nominal life-time up to 100,000h, 5-year guarantee

basicDIM Wireless Driver premium series (PRE)

Driver PRE | Constant current

NEW	Designation	Output current (mA)	Output voltage range (V)	Output power (W)	Efficiency	Input voltage (V)	Size (mm)	Order No.
	LC 10/150-400/40 bDW SC PRE2	150-400	15-40	10	82	220-240	130 x 43 x 30	28002411
	LC 17/250-700/50 bDW SC PRE2	250-700	15-50	17	86	220-240	130 x 43 x 30	28002412
	LC 25/350-1050/50 bDW SC PRE2	350-1,050	20-50	25	90	220-240	130 x 43 x 30	28002413
	LC 45/500-1400/50 bDW SC PRE2	500-1,400	25-50	45	91	220-240	150 x 43 x 30	28002414

Further details can be found in datasheet.

Driver PRE | 24V Constant voltage

NEW	Designation	Output current (mA)	Output voltage range (V)	Output power (W)	Efficiency	Input voltage (V)	Size (mm)	Order No.
	LC 35/24V bDW SC PRE2	146-1,453	24	35	89	220-240	195 x 43 x 30,2	28002415
	LC 60/24V bDW SC PRE2	250-2,500	24	60	93	220-240	225 x 43 x 30,2	28002416
	LC 100/24V bDW SC PRE2	417-4,167	24	100	93	220-240	295 x 43 x 29,8	28002417
	LC 150/24V bDW SC PRE2	625-6,250	24	150	94	220-240	325 x 43 x 29,8	28002418

Further details can be found in datasheet.

Driver PRE | Tunable White

NEW	Designation	Output current (mA)	Output voltage range (V)	Output power (W)	Efficiency	Input voltage (V)	Size (mm)	Order No.
	LC 38/350-1050/50 bDW TW SR PRE2	350-1,050	20-50	38	87	220-240	215 x 70 x 31	28002584

Further details can be found in datasheet.

One app for commissioning and room usage

Intuition at all levels



Control and manage light in just a few steps

Product features	Production	Commissioning	Use
Luminaires on/off			■
Dim luminaires			■
Group luminaires		■	
Set direct/indirect light	■	■	
Control Tunable White settings	■	■	
Configure, save and access settings		■	■
Image gallery for simple luminaire selection		■	■
Graphic display for simple luminaire selection		■	■
Timer function		■	
Set colour temperature		■	■
Motion detection	■		
Configure, save and access animation		■	■
Operation via basicDIM Wireless User Interface			■
Automatic network setup		■	
Remote maintenance		■	
Optional password protection		■	■

basicDIM Wireless demonstrates its user-friendly control options at all stages with the free 4remote BT App or the User Interface.

Define luminaire properties

The luminaire manufacturer saves the properties that define the luminaire via 4remote BT App profiles. These parameters include dimmability, Tunable White and direct/indirect light content.

Make use of light

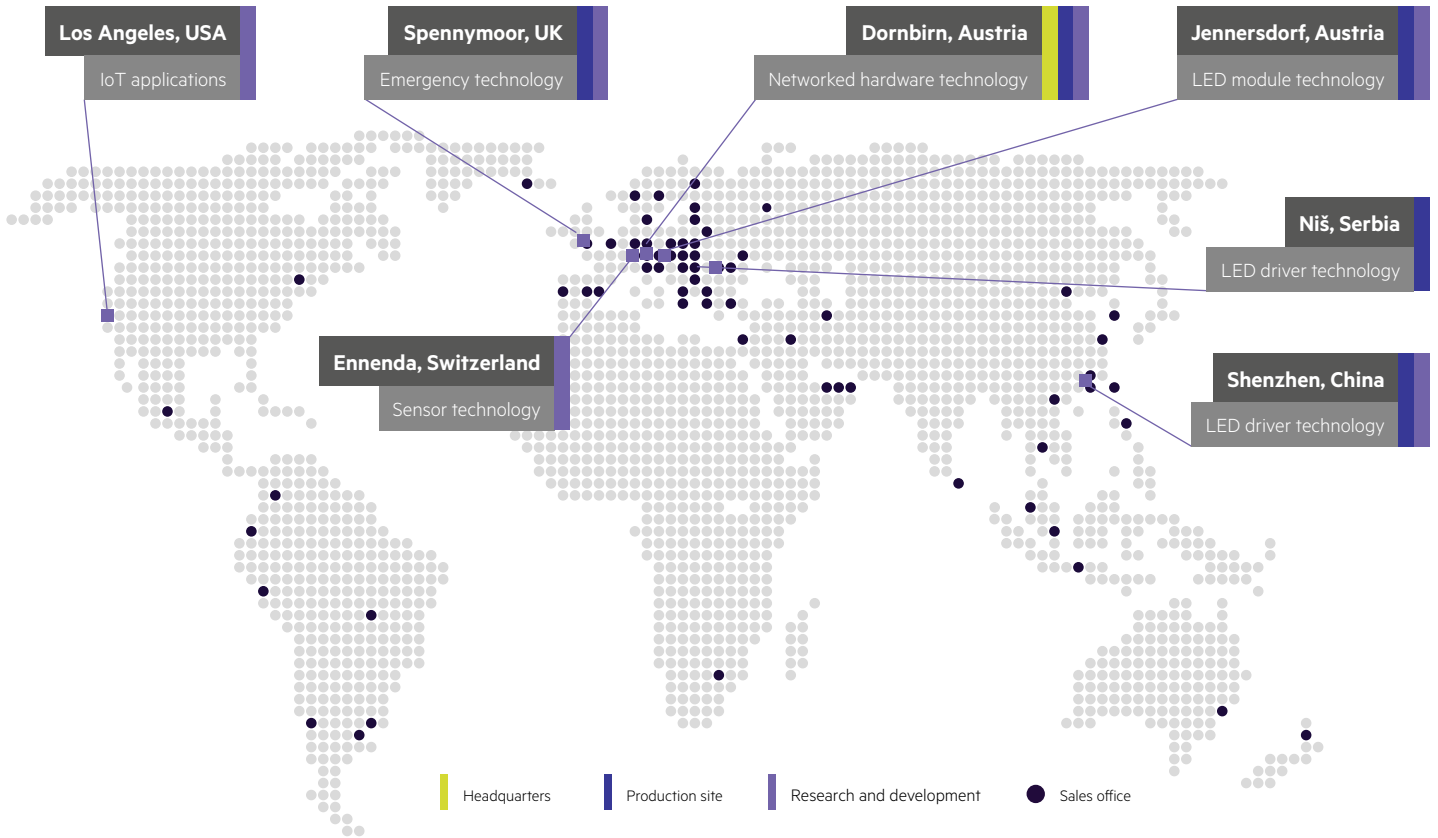
The user can communicate directly with the luminaires and customise these via traditional 4remote BT App or User Interface functions. The result is an entirely new method of light control that is very convenient at the same time.

Commission the system intuitively

The 4remote BT App automatically detects the luminaires that are switched on. Subsequent location, designation, illustration and grouping of the luminaires is very simple.

Prepared for the Future

Our Activities and Locations



1,700

Around 1,700 employees throughout the world are committed to helping you with their know-how and creativity to create the perfect light.

6

There are six research and development centres in which new LEDs and networked lighting technologies are being developed.

3

There are three things you can rely on at Tridonic: optimum product quality, decades of expertise and our committed and flexible support.

21

With 21 branch offices on five continents we are there for you wherever you are in the world.

2,700

That's how many patents and inventions testify to Tridonic's extraordinary powers of innovation.

Details

For further information, data sheets, product catalogues and ordering details, please go to www.tridonic.com

Close light

We attach great importance to a strong international presence – this allows us to stay sufficiently close to our customers

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Light at the right place

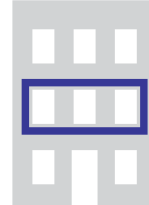
At the right time



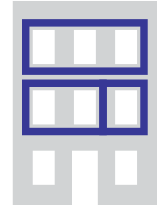
SMART
1 luminaire



basicDIM
approx. 20 luminaires



comfortDIM
120 luminaire



connecDIM
Building/branches

Controlling light intelligently

SMART interface is a compact in-built solution for smart luminaires. It provides maximum convenience and outstanding energy efficiency without the need for any additional control unit.

Light for every mood

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.

Convenient light

comfortDIM concentrates on straightforward design, easy installation and flexible configuring on every floor of a building.

Innovative light

connecDIM provides an excellent platform for smart, cost-effective and user-friendly control and lighting management.

A complete Tridonic lighting solution system from a one-stop supplier, from the light source right through to the lighting management system.

As an international company, Tridonic is represented worldwide by 30 branch offices and partners in 73 countries.



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Light you want to follow.

