

basicDIM Wireless

Modules, drivers and user interface

Intuitive wireless luminaire communication



TRIDONIC

Hassle-free wireless



The Casambi Ready 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 250 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

Hassle-free wireless

basicDIM Wireless, a Casambi Ready technology 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)

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

The benefits for the commissioning engineer (Installation)

- 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

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

The benefits for the user

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



Hassle-free wireless



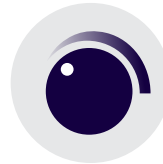
Selection of settings

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



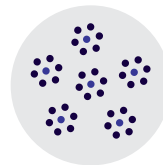
Scheduling

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



Integration

Luminaires with an integrated basicDIM Wireless radio module can be easily integrated into existing sceneCOM light management systems and controlled via these

Technology that creates added value

Wireless usage options in an office building



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*

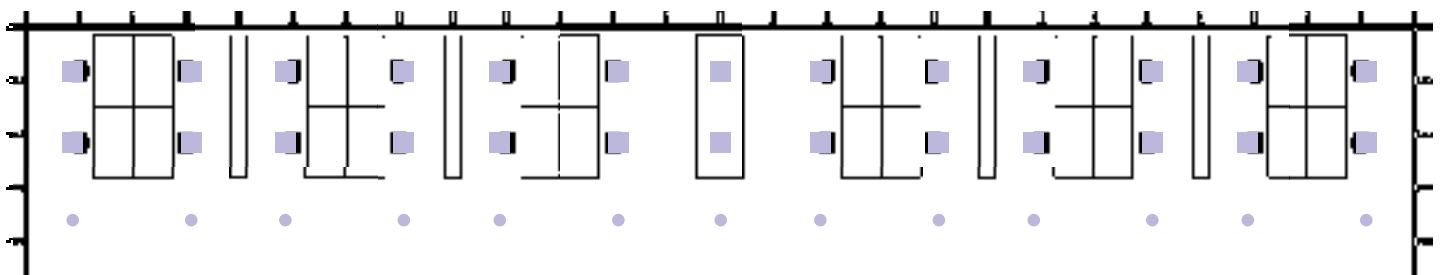
	T8 luminaires	LED luminaires	Dimmed LED luminaires
Lighting	30 luminaires 4 x 18 W	26 luminaires 4,200 lm	26 luminaires 4,200 lm
Total output	2,200 W	1,326 W	1,326 W
Annual power consumption**	7,992 kWh	4,774 kWh	3,197 kWh
Annual electricity costs***	€1,598	€955	€639
Annual savings		Forty percent	Sixty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



Technology that creates added value

Wireless usage options in an conference room



Flexible design options for conference rooms

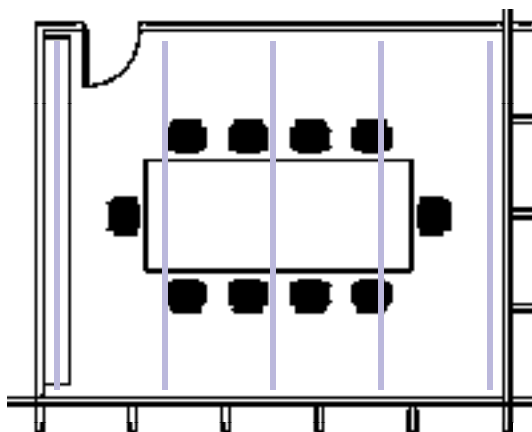
Multi-functional areas provide a space where work alternates between presentations, discussions and teamwork. The different activities require lighting solutions that can be adjusted quickly and easily to the current situation, along with light settings that are easy to access.

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.



Technology that creates added value

Wireless usage options in a single office



Upgrade offices for one or two people

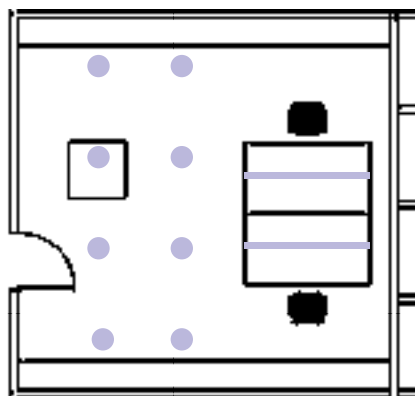
Various office activities such as computer work, brainstorming sessions or telephoning are easier if the direct and indirect sections of the lighting can be adjusted quickly and simply to the relevant needs and requirements. Personalised light also achieves a cost-saving element through incorporation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



Technology that creates added value

Wireless usage options in breakout zones



Liven up breakout zones

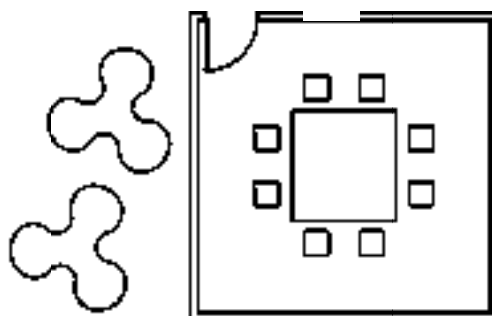
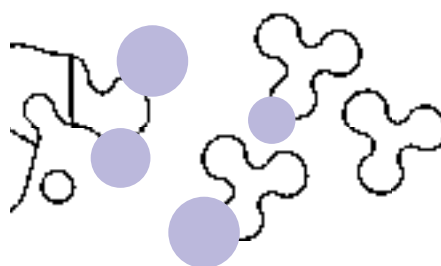
Breakout zones offer space for a wide range of activities – from a cosy lunch break through to inspiring brainstorming sessions and relaxed after-work drinks. Adjustable light settings create the right atmosphere at any time. Tunable White luminaires provide the most appropriate light atmosphere by using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



basicDIM Wireless

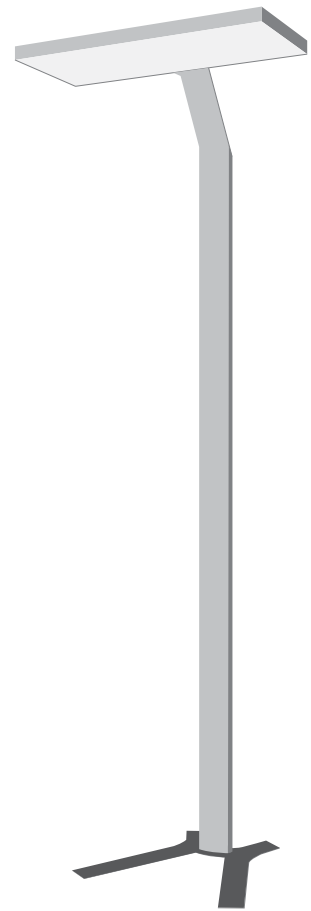
System structure

Wireless expansion of existing DALI systems

Die drahtlose Kommunikation beginnt in der Leuchte. Der Nutzer kommuniziert via 4remote BT App oder User Interface mit den basicDIM Wireless Modulen, welche die Informationen über den DALI Treiber PREMIUM bzw. den constant voltage 24 V Treibern an das LED-Modul weitergibt.

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With the DALI gateway functionality, the necessary regular tests on emergency luminaires can be carried out and evaluated via a sceneCOM DALI system.

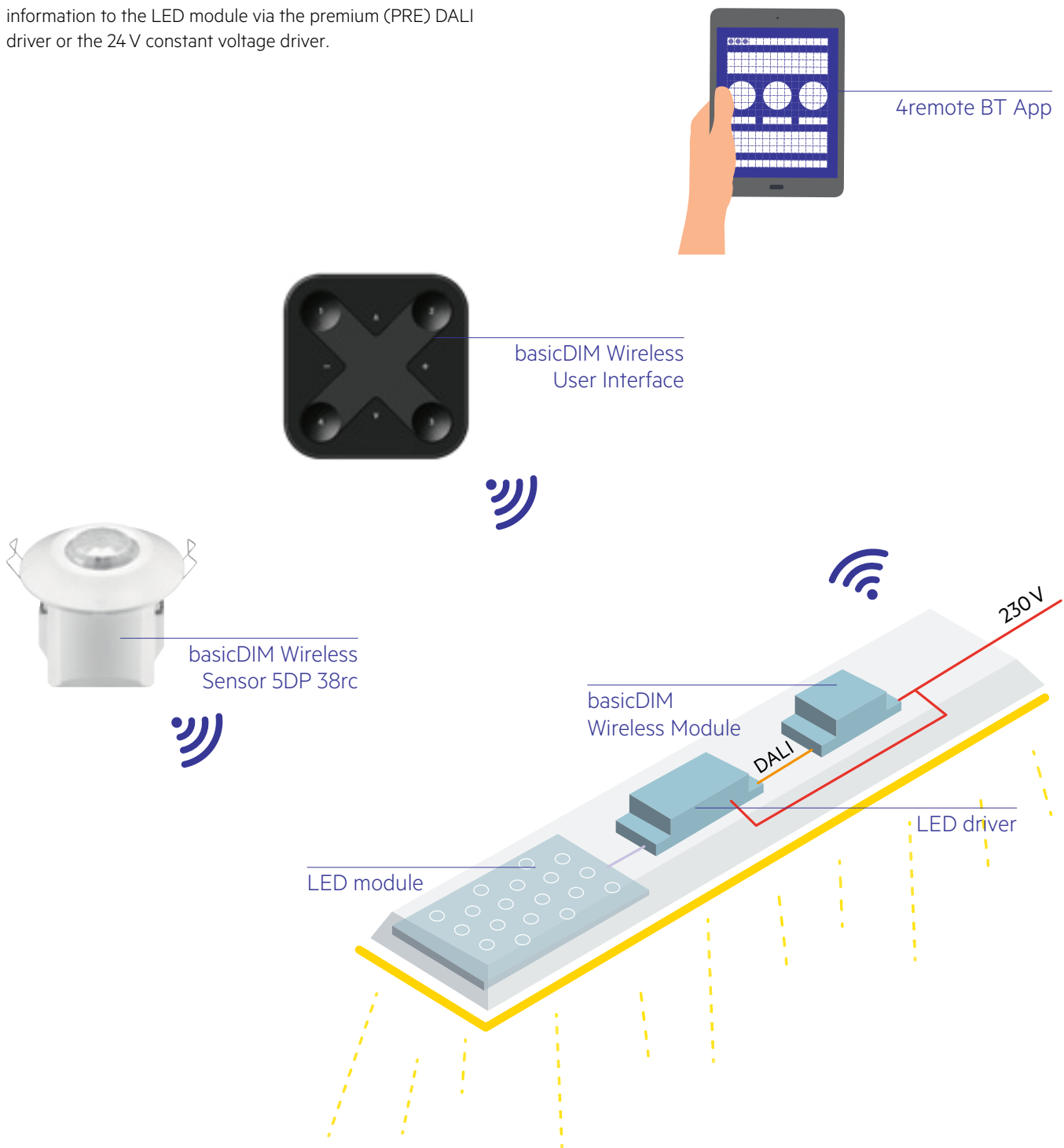


System structure

DALI compatible

Control of individual luminaires

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 (PRE) DALI driver or the 24 V constant voltage driver.



basicDIM Wireless

System structure

DALI compatible

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basicDIM
Wireless SR



System structure

Modules – Compatible with the DALI range from Tridonic



At a glance:

basicDIM wireless module G2

- DALI wireless module
- Forms automatically a wireless communication network with up to 250 nodes
- Integrated DALI power supply 10 mA

Convenient from configuration to use

With its reduced housing the radio module can be easily integrated even into very slim luminaires, thus supporting the current trend towards minimalisation. In addition, it allows convenient, wireless interaction, from configuration to commissioning and operation through to use.



At a glance:

basicDIM wireless SR

- DALI wireless module
- Automatically establishes a wireless communication network with up to 250 nodes
- Integrated DALI power supply 50 mA

Convenient from configuration to use

Thanks to the strain relief, the module can easily be used for installation in a false ceiling, for example. Due to the high integrated power supply of 50 mA, a large number of DALI operating devices can be addressed.



At a glance:

basicDIM wireless passiv module G2

- Power supply via DALI line (po4a driver PRE or DALI power supply)
- Perfect integration into the simple wireless lighting control of basicDIM Wireless
- Configurable as DALI gateway

Wireless module with poweredDALI power supply

The basicDIM wireless passive module requires no additional mains cable – a DALI power supply, either via the new po4a driver PRE driver or traditionally via a separate DALI power supply, is all that is needed, to modernise individual luminaires or even entire offices or corridors. Thanks to its small design, the module is ideally suited for luminaire installation.

System structure

Modules – Compatible with the DALI range from Tridonic



At a glance:

basicDIM Wireless 0-10 V 2CH

- Can be combined with 24 V constant voltage drivers and applications
- Input voltage: 12–24 V
- Up to four LLE FLEX tapes together
- FCC and UL listed version available

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.

At a glance:

basicDIM wireless PMW (CV) 4CH

- Can be combined with 24 V constant voltage drivers and applications
- Input voltage: 12–24 V
- Up to four LLE FLEX continuous rows simultaneously
- FCC and UL listed

LLE FLEX continuous rooflight easy to dim

The constant Voltage (CV) basicDIM Wireless module is ideal for equipping an existing accentuation with LED light lines with a dimming function without structural measures. Combined with non-dimmable 24 V CV drivers, a single control module can dim up to four LLE FLEX strip lights.

System structure

Sensors

The basicDIM Wireless Sensor 5DP 38RC is the ideal addition to the basicDIM Wireless series of products as it offers daylight-dependent lighting control and presence detection. It has been designed for the following principal applications:

- Open-plan offices
- Training / presentation rooms
- Corridors, passageways and garages

At a glance:

**basicDIM Wireless Sensor 5DP
PMW constant voltage (CV) 4CH**

- Component of the basicDIM Wireless systems (Casambi ready)
- Ambient light dependent control and presence detection
- Wireless controllable with a Android/iOS smart device
- Mounting variants for suspended ceilings and solid ceilings available



basicDIM Wireless

Lighting control Sensors

Daylight-dependent lighting

The basicDIM Wireless Sensor 5DP 38RC supports Presence Detection and Daylight control and is designed that it can be used together with the basicDIM Wireless components (e.g. basicDIM Wireless Module).

basicDIM Wireless devices are controlled and configured wirelessly by a smartphone or tablet with 4remote BT-App. Devices form automatically a secure wireless mesh network so that a large number of fixtures can be controlled from any point. No external gateway module is needed.

Ordering data

Type	Order no.
basicDIM Wireless module G2	28002576
basicDIM Wireless Passive module G2	28003541
basicDIM Wireless Wireless SR	28003542
basicDIM Wireless 0-10V 2CH	28002576
basicDIM Wireless PWM CV 4CH	28002575
basicDIM Wireless Sensor 5DP 38rc	28002801
basicDIM Wireless Sensor 5DP 38rc US	28002800
basicDIM Wireless Sensor 5DP housing	28002802
basicDIM Wireless User Interface	28002213
basicDIM Wireless User Interface white	28002420

Further details can be found in datasheet



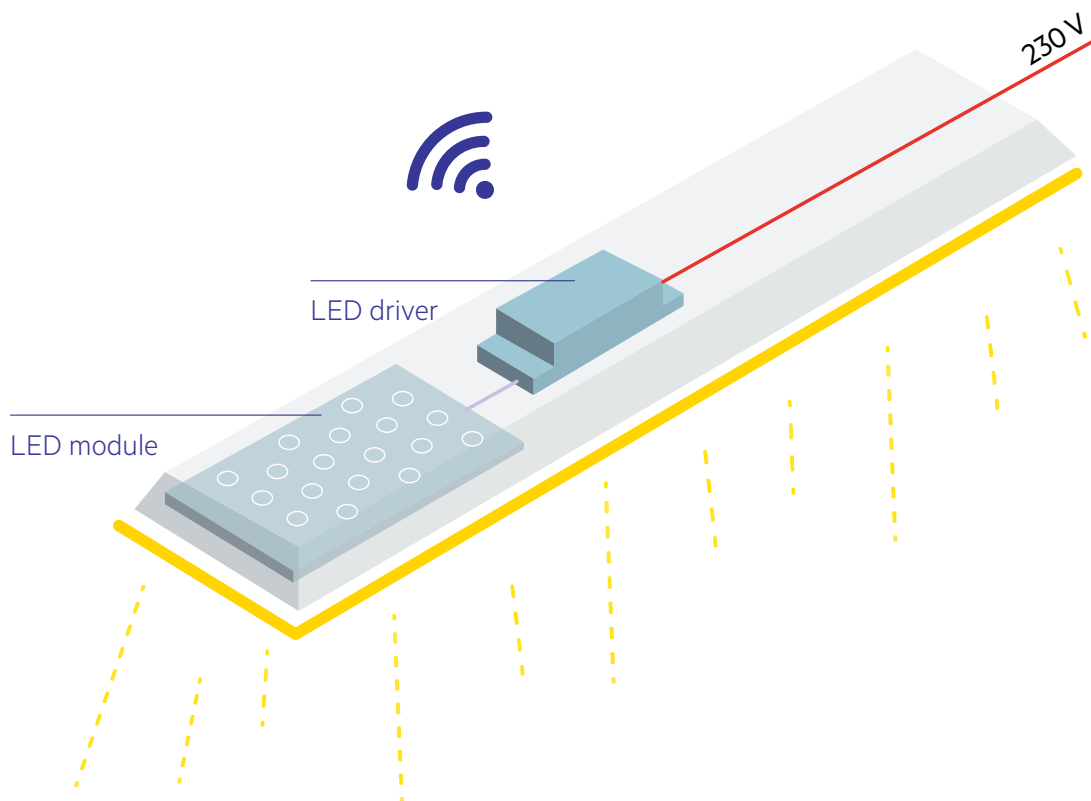
System setup

basicDIM Wireless integrated driver (PRE)

The basicDIM Wireless control technology allows versatile, professional interaction with all the luminaires in a room - intuitively. luminaires in a room - completely intuitively and without additional wiring.

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.



System structure

basicDIM Wireless integrated driver (PRE)



At a glance:

basicDIM Wireless Driver constant current PRE (CC)

- Dimmable constant current LED Driver
- Can be used for luminaire installation or independently with snap-on cable clamp
- lumDATA for storage and transmission of luminaire, energy and diagnostic data
- Adjustable output current via ready2mains Programmer, basicDIM Wireless or I-SELECT 2 Plug
- Nominal life-time up to 100,000 h
- 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
- lumDATA for storage and transmission of luminaire, energy and diagnostic data
- basicDIM Wireless enables different dimming options 1 to 100 %
- Nominal life-time up to 50,000 h
- 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 100,000 h
- 5-year guarantee



At a glance:

basicDIM Wireless Driver in-track

- Dimmable constant current / in-track LED Driver
- Adjustable output current between 500–1,050 mA via near field communication (NFC)
- Nominal life-time up to 100,000 h
- 5-year guarantee

basicDIM Wireless driver (PRE)

Driver PRE | Constant current

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

Further information can be found in the datasheet

Driver PRE | 24V Constant voltage

Type	Output current (mA)	Output voltage range (V)	Output power (W)	Efficiency	Input voltage (V _{ac})	lumDATA	Size (mm)	Order No.
LC 35/24V bDW SC PRE2	146-1,453	24	35	89	220-240	yes	195 x 43 x 30.2	28002415
LC 60/24V bDW SC PRE2	250-2,500	24	60	93	220-240	yes	225 x 43 x 30.2	28002416
LC 100/24V bDW SC PRE2	417-4,167	24	100	93	220-240	yes	295 x 43 x 29.8	28002417
LC 150/24V bDW SC PRE2	625-6,250	24	150	94	220-240	yes	325 x 43 x 29.8	28002418

Further details can be found in the datasheet

Driver PRE | Tunable White

Type	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
LC 38W 350-1050 MA bDW TW C PRE2	350-1,050	20-50	38	87	220-240	120 x 70 x 28.3	28002858

Further details can be found in datasheet

Driver EXC3 | in-track

Type	Output current (mA)	Output voltage range (V)	Output power (W)	Typ. power consumption (V)	Input voltage (V)	Size (mm)	Order No.
LC 25/350-600/42 bDW NF T-B EXC3	350-600	14-42	25	up to 29,7	220-240	231 x 42,4 x 32	28003054
LC 25/350-600/42 bDW NF T-W EXC3							28003055
LC 25/350-600/42 bDW NF T-G EXC3							28003056
LC 40/500-1050/42 bDW NF T-B EXC3	500-1,050	14-42	40	up to 46,6	220-240	231 x 42,4 x 32	28003057
LC 40/500-1050/42 bDW NF T-W EXC3							28003058
LC 40/500-1050/42 bDW NF T-G EXC3							28003059

Further details can be found in datasheet

Commissioning and space usage



Download via App Store
oder Google Play



One app for commissioning and room usage

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.

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.

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.

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Light you want to follow.

