TRIDONIC

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Driver LC 150W 24V bDW SC PRE2

premium series 24 V – dimmable (IP20)

Product description

- NEW: lumDATA (Luminaire data, Energy reporting and Diagnostics & Maintenance)
- Dimmable 24 V constant voltage LED driver for flexible constant voltage strips
- Can be either used built-in or independent with clip-on strain-relief (see data sheet chapter: 1. Standards)
- basicDIM Wireless enables different dimming options
- Forms automatically a wireless communication network with up to 250 nodes
- Dimming range 1 to 100 %
- No additional external dimmer is needed
- Suitable for emergency escape lighting systems acc. to EN 50172
- Nominal lifetime up to 50,000 h
- 5 years guarantee (conditions at www.tridonic.com)

Typical application

• Cove lighting, facade accent lighting, ceiling integration

Technical details

- 24 V, 150 W
- Small design (325 x 43 x 30 mm) with stretched-compact strain relief
- Small cross section
- Push terminal for simple wiring
- Output terminals (+/-) equipped twice for more flexibility in the application

Interfaces

- basicDIM Wireless
- ready2mains (configuration via mains)
- Terminal blocks: 45° push terminals

System solution

- Tridonic LLE-FLEX ADV 600, 1,200, 1,800 lm/m
- Tridonic LLE-FLEX EXC 600, 1,200, 1,800, 2,500 lm/m
- In connection with Flex accessories wire to PCB plug
- Test the function of third party light sources before use at low dimming levels to ensure the dimming function works perfectly

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Standards, page 3









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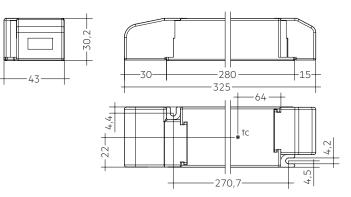


Driver LC 150W 24V bDW SC PRE2

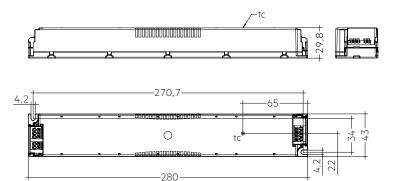
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Technical data

AC voltage range198 - 264 VDC voltage range176 - 280 VMains frequency0 / 50 / 60 HzTyp. current (at 230 V, 50 Hz, full load)710 mATyp. current (220 V, 0 Hz, full load)129 mALeakage current (at 230 V, 50 Hz, full load) $<$ 320 µAMax. input power160 WTyp. efficiency (at 230 V / 50 Hz / full load)94 % λ (at 230 V, 50 Hz, full load)0.99Typ. efficiency (at 230 V / 50 Hz / full load)94 % λ (at 230 V, 50 Hz, full load)0.99Typ. power consumption on stand-by< 0.35 WTyp. input current in no-load operation664 mATyp. input power in no-load operation2.5 WIn-rush current (peak / duration)60.2 A / 195 µsTHD (at 230 V, 50 Hz, full load)< 4.3 %Starting time (at 230 V, 50 Hz, full load)< 8 msOutput voltage tolerance± 1 VOutput voltage ripple (< 120 Hz)± 5 %Max. output voltage (no-load voltage)60 VPWM frequency~ 1 kHzDimming range1 - 100 %Mains surge capability (between L - N)1 kVMains surge capability (between L - N)1 kVMains surge capability (between L - N)4 × 20 dBmLifetimeup to 50,000 hGuarantee (conditions at www.tridonic.com)5 yearsDimensions L x W x H325 x 43 x 29.8 mm	Rated supply voltage	220 – 240 V
Mains frequency0 / 50 / 60 HzTyp. current (at 230 V, 50 Hz, full load)710 mATyp. current (220 V, 0 Hz, full load)129 mALeakage current (at 230 V, 50 Hz, full load) $<$ 320 µAMax. input power160 WTyp. efficiency (at 230 V / 50 Hz / full load)94 % λ (at 230 V, 50 Hz, full load)94 % λ (at 230 V, 50 Hz, full load)94 % λ (at 230 V, 50 Hz, full load)0.99Typ. input current in no-load operation664 mATyp. input current in no-load operation6.02 A / 195 µsTHD (at 230 V, 50 Hz, full load) $<$ 4.3 %Starting time (at 230 V, 50 Hz, full load) $<$ 0.32 sSwitchover time (AC/DC) $<$ 0.32 sSwitchover time (AC/DC) $<$ 0.32 sTurn off time (at 230 V, 50 Hz, full load) $<$ 8 msOutput voltage tolerance \pm 1 VOutput LF voltage ripple (<120 Hz)	AC voltage range	198 – 264 V
Typ. current (at 230 V, 50 Hz, full load)710 mATyp. current (220 V, 0 Hz, full load)129 mALeakage current (at 230 V, 50 Hz, full load) $<$ 320 µAMax. input power160 WTyp. efficiency (at 230 V / 50 Hz / full load)94 % λ (at 230 V, 50 Hz, full load)94 % λ (at 230 V, 50 Hz, full load)0.99Typ. efficiency (at 230 V / 50 Hz / full load)0.99Typ. power consumption on stand-by< 0.35 W	DC voltage range	176 – 280 V
Typ. current (220 V, 0 Hz, full load, 15 % dimming level)129 mALeakage current (at 230 V, 50 Hz, full load) $< 320 \ \mu A$ Max. input power160 WTyp. efficiency (at 230 V / 50 Hz / full load)94 % λ (at 230 V, 50 Hz, full load)94 % λ (at 230 V, 50 Hz, full load)94 % λ (at 230 V, 50 Hz, full load)94 % λ (at 230 V, 50 Hz, full load)94 % λ (at 230 V, 50 Hz, full load)94 % γ p. input current in no-load operation664 mATyp. input power in no-load operation2.5 WIn-rush current (peak / duration)60.2 A / 195 μ sTHD (at 230 V, 50 Hz, full load) $< 4.3 \%$ Starting time (at 230 V, 50 Hz, full load) $< 0.32 s$ Switchover time (AC/DC) $< 0.32 s$ Switchover time (AC/DC) $< 0.32 s$ Turn off time (at 230 V, 50 Hz, full load) $< 8 ms$ Output voltage tolerance $\pm 1 V$ Output LF voltage ripple (< 120 Hz)	Mains frequency	0 / 50 / 60 Hz
Leakage current (at 230 V, 50 Hz, full load)< 320 μ AMax. input power160 WTyp. efficiency (at 230 V / 50 Hz / full load)94 % λ (at 230 V, 50 Hz, full load)94 % λ (at 230 V, 50 Hz, full load)0.99Typ. power consumption on stand-by< 0.35 W	Typ. current (at 230 V, 50 Hz, full load) ^①	710 mA
Max. input power160 WTyp. efficiency (at 230 V / 50 Hz / full load)94 % λ (at 230 V, 50 Hz, full load)0.99Typ. power consumption on stand-by< 0.35 W	Typ. current (220 V, 0 Hz, full load, 15 % dimming level)	129 mA
Typ. efficiency (at 230 V / 50 Hz / full load)94 % λ (at 230 V, 50 Hz, full load)0.99Typ. power consumption on stand-by< 0.35 W	Leakage current (at 230 V, 50 Hz, full load)®	< 320 µA
λ (at 230 V, 50 Hz, full load)0.99Typ. power consumption on stand-by< 0.35 W	Max. input power	160 W
Typ. power consumption on stand-by< 0.35 WTyp. input current in no-load operation 66.4 mA Typ. input power in no-load operation 2.5 W In-rush current (peak / duration) 60.2 A / 195 µsTHD (at 230 V, 50 Hz, full load) [®] < 4.3 %	Typ. efficiency (at 230 V / 50 Hz / full load)	94 %
Typ. input current in no-load operation664 mATyp. input power in no-load operation2.5 WIn-rush current (peak / duration) $60.2 \text{ A} / 195 \mu \text{s}$ THD (at 230 V, 50 Hz, full load)®< 4.3 %	λ (at 230 V, 50 Hz, full load) $^{\mbox{\tiny (1)}}$	0.99
Typ. input carcin in the local operation2.5 WTyp. input power in no-load operation 2.5 WIn-rush current (peak / duration) 60.2 A / 195 µsTHD (at 230 V, 50 Hz, full load)® < 4.3 %Starting time (at 230 V, 50 Hz, full load)® < 0.63 sStarting time (DC mode) < 0.32 sSwitchover time (AC/DC)® < 0.32 sTurn off time (at 230 V, 50 Hz, full load) < 8 msOutput voltage tolerance \pm 1 VOutput voltage tolerance \pm 1 VOutput voltage ripple (< 120 Hz)	Typ. power consumption on stand-by	< 0.35 W
Type Input power inflot four operationEAC AIn-rush current (peak / duration) 60.2 A / 195 µsTHD (at 230 V, 50 Hz, full load)®< 4.3 %	Typ. input current in no-load operation	66.4 mA
THD (at 230 V, 50 Hz, full load)< 4.3 %Starting time (at 230 V, 50 Hz, full load)< 0.63 s	Typ. input power in no-load operation	2.5 W
Starting time (at 230 V, 50 Hz, full load)< 0.63 sStarting time (DC mode)< 0.32 s	In-rush current (peak / duration)	60.2 A / 195 µs
Starting time (DC mode)< 0.32 sSwitchover time (AC/DC)®< 0.32 s	THD (at 230 V, 50 Hz, full load)®	< 4.3 %
Switchover time (AC/DC) [®] < 0.32 s	Starting time (at 230 V, 50 Hz, full load)®	< 0.63 s
Turn off time (at 230 V, 50 Hz, full load) < 8 ms	Starting time (DC mode)	< 0.32 s
Output voltage tolerance ± 1 V Output LF voltage ripple (< 120 Hz)	Switchover time (AC/DC)®	< 0.32 s
Output LF voltage ripple (< 120 Hz)	Turn off time (at 230 V, 50 Hz, full load)	< 8 ms
Max. output voltage (no-load voltage) 60 V PWM frequency ~1 kHz Dimming range 1 – 100 % Mains surge capability (between L – N) 1 kV Mains surge capability (between L/N – PE) 2 kV Radio transceiver operating frequencies 2.4 – 2.483 GHz Max. output power radio transceiver (E.R.I.P.)® < ±20 dBm	Output voltage tolerance	±1V
PWM frequency ~1 kHz Dimming range 1 – 100 % Mains surge capability (between L – N) 1 kV Mains surge capability (between L/N – PE) 2 kV Radio transceiver operating frequencies 2.4 – 2.483 GHz Max. output power radio transceiver (E.R.I.P.)® < ±20 dBm	Output LF voltage ripple (< 120 Hz)	± 5 %
Dimming range 1 - 100 % Mains surge capability (between L - N) 1 kV Mains surge capability (between L/N - PE) 2 kV Radio transceiver operating frequencies 2.4 - 2.483 GHz Max. output power radio transceiver (E.R.I.P.)® < +20 dBm	Max. output voltage (no-load voltage)	60 V
Mains surge capability (between L - N) 1 kV Mains surge capability (between L/N - PE) 2 kV Radio transceiver operating frequencies 2.4 - 2.483 GHz Max. output power radio transceiver (E.R.I.P.)® < +20 dBm	PWM frequency	~ 1 kHz
Mains surge capability (between L/N – PE) 2 kV Radio transceiver operating frequencies 2.4 – 2.483 GHz Max. output power radio transceiver (E.R.I.P.)® < +20 dBm	Dimming range	1 – 100 %
Radio transceiver operating frequencies 2.4 - 2.483 GHz Max. output power radio transceiver (E.R.I.P.)® < +20 dBm	Mains surge capability (between L – N)	1 kV
Max. output power radio transceiver (E.R.I.P.)® < +20 dBm	Mains surge capability (between L/N – PE)	2 kV
Lifetime up to 50,000 h Guarantee (conditions at www.tridonic.com) 5 years	Radio transceiver operating frequencies	2.4 – 2.483 GHz
Guarantee (conditions at www.tridonic.com) 5 years	Max. output power radio transceiver (E.R.I.P.)®	< +20 dBm
	Lifetime	up to 50,000 h
Dimensions L x W x H 325 x 43 x 29.8 mm	Guarantee (conditions at www.tridonic.com)	5 years
	Dimensions L x W x H	325 x 43 x 29.8 mm



With strain-relief



Without strain-relief

Ordering data

Туре	Article numb	er Packaging carton®	Packaging pallet	Weight per pc.
Multi packaging				
LC 150/24V bDW SC PRE2	28002418	10 pc(s).	390 pc(s).	0.293 kg
Single packaging				
LC 150/24V bDW SC PRE2 SP	28002678	10 pc(s).	480 pc(s).	0.293 kg

[®] The strain relief is included in both packaging variants. In the single packaging each Driver has also an individual packaging.

Specific technical data

Туре	Load	Forward voltage	Output current	Max. output power (at full load)	Typ. power consumption (at full load)	Typ. current consumption (at full load)	Max. casing temperature tc	Ambient temperature ta max.
	10 %	24 V	0,625 A	15 W	19.1 W	122 mA	80 °C	-25 +60 °C
	20 %	24 V	1,250 A	30 W	34.3 W	174 mA	80 °C	-25 +60 °C
	30 %	24 V	1,875 A	45 W	49.7 W	235 mA	80 °C	-25 +60 °C
	40 %	24 V	2,500 A	60 W	65.2 W	298 mA	85 °C	-25 +55 °C
	50 %	24 V	3,125 A	75 W	80.7 W	364 mA	85 °C	-25 +55 °C
LC 150/24V bDW SC PRE2	60 %	24 V	3,750 A	90 W	96.3 W	430 mA	85 °C	-25 +55 ℃
	70 %	24 V	4,375 A	105 W	112.1 W	498 mA	90 °C	-25 +50 °C
	80 %	24 V	5,000 A	120 W	127.7 W	565 mA	90 °C	-25 +50 °C
	90 %	24 V	5,625 A	135 W	143.3 W	633 mA	90 °C	-25 +50 °C
	100 %	24 V	6,250 A	150 W	159.3 W	702 mA	90 °C	-25 +50 °C

^① Valid at 100 % dimming level.

 $^{\oslash}$ Valid for immediate change of power supply type otherwise the starting time is valid.

[®] E.I.R.P.: Equivalent Isotropically Radiated Power.

1. Standards

EN 55015 EN 61000-3-2 EN 61000-3-3 EN 61347-1 EN 61347-2-13 EN 62384 EN 61547 ETSI EN 300 330 ETSI EN 300 489-1 ETSI EN 301 489-3 ETSI EN 301 489-3 ETSI EN 300 328 ETSI EN 301 489-17 According to EN 50172 for use in central battery systems According to EN 60598-2-22 suitable for emergency lighting installations

For devices with strain-reliefs the following test marks apply:

🔲 ... Class II luminaires

🗇 ... Independet device

For devices without strain-reliefs the following test mark apply:

 \bigcirc ... Double or reinforced insulation

2. Thermal details and lifetime

2.1 Expected lifetime

Expected lifetime

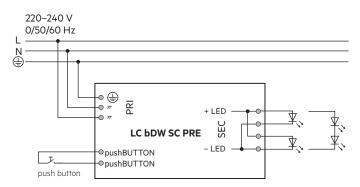
Туре	Output load	ta	40 °C	45 °C	50 °C	55 °C	60 °C
	100 150 14	tc	80 °C	80 °C	90 °C		
	100 – 150 W	Lifetime	95,000 h	75,000 h	55,000 h		
LC 150/24V bDW SC PRE2	F0 100 W	tc	65 °C	70 °C	75 °C	85 °C	
LC ISU/24V BDW SC PREZ	50 – 100 W	Lifetime	>100,000 h	>100,000 h	80,000 h	60,000 h	
	. FO W/	tc	55 ℃	60 °C	65 °C	70 °C	80 °C
	< 50 W	Lifetime	>100,000 h	>100,000 h	>100,000 h	80,000 h	60,000 h

The LED control gear is designed for a lifetime stated above under reference conditions and with a failure probability of less than 10 %.

The relation of tc to ta temperature depends also on the luminaire design. If the measured tc temperature is approx. 5 K below tc max., ta temperature should be checked and eventually critical components (e.g. ELCAP) measured. Detailed information on request.

3. Installation / wiring

3.1 Circuit diagram



The used push button has to be insulated.

Connecting 230 V on the pushBUTTON terminal will damage the driver.

1.1 Glow wire test

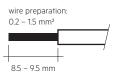
according to EN 61347-1 with increased temperature of 850 °C passed.

3.2 Wiring type and cross section

Mains supply wires

For wiring use stranded wire with ferrules or solid wire from 0.2 – 1.5 mm². For perfect function of the push-wire terminals (WAGO 250) the strip length should be 8.5 - 9.5 mm.

Use one wire for each terminal connector only.

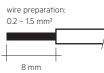


Secondary wires (LED module)

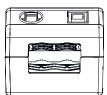
For wiring use stranded wire with ferrules or solid wire from $0.2 - 1.5 \text{ mm}^2$ (24AWG - 16AWG).

For perfect function of the push-wire terminals (Phoenix SPTAF 1/4-5,0-IL) the strip length should be 8 mm.

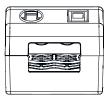
Use one wire for each terminal connector only.



Secondary strain relief for cables with bigger cable sheath

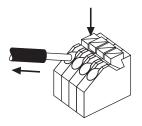


Secondary strain relief for cable with smaller cable sheath



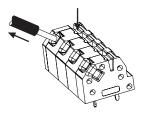
3.3 Loose wiring





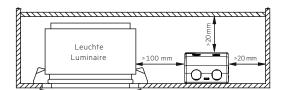
Release of the wiring Press down the "push button" and remove the cable from front.

Secondary wires (LED module)



3.4 Fixing conditions when using as independent Driver with Clip-On

Dry, acidfree, oilfree, fatfree. It is not allowed to exceed the maximum ambient temperature (ta) stated on the device. Minimum distances stated below are recommendations and depend on the actual luminaire. Device is not suitable for fixing in corner.



3.5 Wiring guidelines

- Run the secondary lines separately from the mains connections and lines to achieve good EMC performance.
- The max. secondary cable (LED module) length is 2 m (4 m circuit).
- For good EMC performance, keep the LED wiring as short as possible.
- To comply with the EMC regulations run the secondary wires (LED module) in parallel.
- Secondary switching is not permitted.
- The LED driver has no inverse-polarity protection on the secondary side. Wrong polarity can damage LED modules with no inverse-polarity protection.
- Wrong wiring of the LED driver can lead to malfunction or irreparable damage.
- To avoid the damage of the Driver, the wiring must be protected against short circuits to earth (sharp edged metal parts, metal cable clips, louver, etc.).

3.6 Hot plug-in

Hot plug-in is not supported due to residual output voltage of > 0 V. When connecting an LED load, restart the device to activate the LED output. This can be done via mains reset or interface (basicDIM Wireless).

3.7 Earth connection

The earth connection is conducted as protection earth (PE). The LED driver can be earthed via earth terminal. If the LED driver will be earthed, protection earth (PE) has to be used. There is no earth connection required for the functionality of the LED driver. Earth connection is recommended to improve following

behaviour:

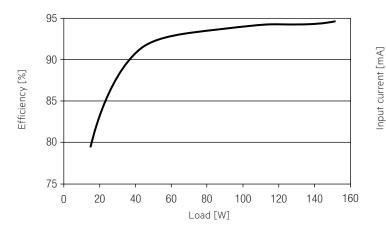
- Electromagnetic interferences (EMI)
- LED glowing at standby
- Transmission of mains transients to the LED output

In general it is recommended to earth the LED driver if the LED module is mounted on earthed luminaire parts respectively heat sinks and thereby representing a high capacity against earth.

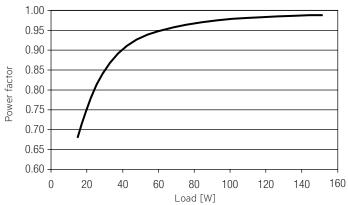
4. Electrical values

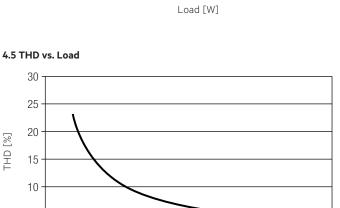
4.1 Efficiency vs. load



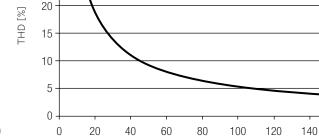


4.2 Power factor vs. Load

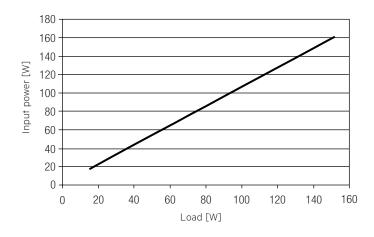




Load [W]



4.3 Input power vs. Load



4.6 Maximum loading of automatic circuit breakers in relation to inrush current

Automatic circuit breaker type	C10	C13	C16	C20	B10	B13	B16	B20	Inrush	current
Installation Ø	1.5 mm ²	1.5 mm ²	2.5 mm ²	2.5 mm ²	1.5 mm ²	1.5 mm ²	2.5 mm ²	2.5 mm ²	max	time
LC 150/24V bDW SC PRE2	7	8	10	13	4	5	6	8	60.2 A	195 µs

These are max. values calculated out of inrush current! Please consider not to exceed the maximum rated continuous current of the circuit breaker. Calculation uses typical values from ABB series S200 as a reference.

Actual values may differ due to used circuit breaker types and installation environment.

4.7 Harmonic distortion in the mains supply (at 230 V / 50 Hz and full load) in %

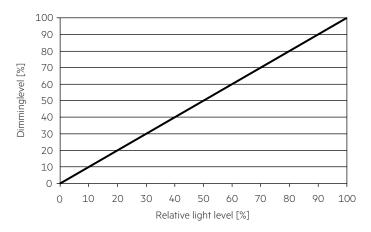
	THD	3.	5.	7.	9.	11.
LC 150/24V bDW SC PRE2	4	4	3	1	1	1

4.8 Dimming

Dimming range 1% to 100 % Digital control with:

- basicDIM Wireless
- basicDIM wireless

4.9 Dimming characteristics



5. Interfaces / communication

5.1 Control input

A standard push button can be connected on the input terminals. Maximum cable lenght of the push button is 1 meter. This function have to be activated before using.

The control signal is not SELV. Control cable has to be installed in accordance to the requirements of low voltage installations. Different functions depending on each module. Profile change see handbook https://www.tridonic.com/com/en/download/technical/Documentation_Tridonic_4remote_BT_EN.pdf

5.2 Control input ready2mains (L, N)

The digital ready2mains protocol is modulated onto the mains signal which is wired to the mains terminal (L and N).

6. Functions

6.1 ready2mains - configuration

The ready2mains interface can be used to configure the main parameters of LED drivers via the mains wiring, such as LED output current, CLO and DC level. These parameters can be adjusted either via ready2mains-capable configuration software or directly via the ready2mains programmer (output current only).

6.2 Short-circuit behaviour

In case of a short-circuit at the LED output the LED output is switched off. After restart of the LED driver the output will be activated again. The restart can either be done via mains reset or via software or pushBUTTON.

6.3 Overload protection

If the maximum load is exceeded by a defined internal limit, the LED driver turns off the LED output. After restart of the LED driver the output will be activated again.

The restart can either be done via mains reset or via software or pushBUTTON.

6.4 Overtemperature protection

The LED driver is protected against temporary thermal overheating. If the temperature limit is exceeded the output current of the LED module(s) is reduced. The temperature protection is activated above tc max. The activation temperature differs depending on the LED load. On DC operation this function is deactivated to fulfill emergency requirements.

6.5 Constant light output (CLO)

The luminous flux of a LED decreases constantly over the lifetime. The CLO function ensures that the emitted luminous flux remains stable. For that purpose the LED current will increase continuously over the LED lifetime.

Via ready2mains it is possible to select a start value (in percent) and an expected lifetime.

The LED driver adjusts the current afterwards automatically.

6.6 Power-up/-down fading

The power-up/-down function offers the opportunity to modify the on-/off behavior. The time for fading on or off can be adjusted in a range of 0.2 to 16 seconds. According to this value, the device dims either from 0 % up to the power-on level or from the current set dim level down to 0 %. This feature applies while operating via 4remoteBT and when switching the mains voltage on or off. By factory default no fading time is set (=0s).

Data sheet 07/22-LC675-21 Subject to change without notice. Information provided without guarantee.

6.7 Light level in DC operation

The LED driver is designed for operation on DC voltage and pulsed DC voltage.

Light output level in DC operation: programmable 1 – 100 % (EOFu = 0.13). Programming by ready2mains.

The voltage-dependent input current of Driver incl. LED module is depending on the used load.

6.8 Software / programming

With appropriate software and an interface different functions can be activated and various parameters can be configured in the LED driver. To do so, a ready2mains programmer or utilityAPP is required.

7. Miscellaneous

7.1 Insulation and electric strength testing of luminaires

Electronic devices can be damaged by high voltage. This has to be considered during the routine testing of the luminaires in production.

According to IEC 60598-1 Annex Q (informative only!) or ENEC 303-Annex A, each luminaire should be submitted to an insulation test with 500 V $_{DC}$ for 1 second. This test voltage should be connected between the interconnected phase and neutral terminals and the earth terminal. The insulation resistance must be at least 2 M Ω .

As an alternative, IEC 60598-1 Annex Q describes a test of the electrical strength with 1500 V $_{AC}$ (or 1.414 x 1500 V $_{DC}$). To avoid damage to the electronic devices this test must not be conducted.

7.2 Conditions of use and storage

Humidity:	5 % up to max. 85 %,
	not condensed
	(max. 56 days/year at 85 %)

Storage temperature: -40 °C up to max. +80 °C

The devices have to be acclimatised to the specified temperature range (ta) before they can be operated.

The LED driver is declared as inbuilt LED controlgear, meaning it is intended to be used within a luminaire enclosure.

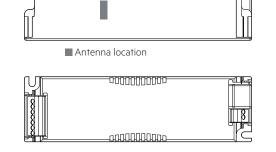
If the product is used outside a luminaire, the installation must provide suitable protection for people and environment (e.g. in illuminated ceilings).

7.3 Placement

basicDIM Wireless has an integrated antenna for easy integration. In order to maximize the range in every direction some design guidelines should be taken into consideration when mounting the device.

The antenna is located on the corner of the enclosure. It is on the top side of the internal PCB (Printed Circuit Board).

When the device is mounted on a metal plate (e.g. frame of a luminaire), it may efficiently block the radio frequency signal. In this case, a cut-out underneath the antenna may be needed for the RF signal to exit the structure. The cut-out area should be as large as possible. Also the device should be placed as far away from any vertical metal structures as possible.





The range of the communication signal is depending on the environment e.g. luminaire, construction of the building, furnitures or humans and needs to be tested and approved in the installation.

7.4 Network compatibility

This Driver is fully compatible with networks which support up to 250 nodes (Evolution networks). If the Driver is used with different types of basicDIM Wireless devices in an Evolution network, their compatibility has to be checked before. If a device is not compatible with Evolution networks, it can be only used in networks which support up to max. of 127 devices (Classic networks).

7.5 Maximum number of switching cycles

All LED driver are tested with 50,000 switching cycles. The actually achieved number of switching cycles is significantly higher.

7.6 Additional information

Additional technical information at <u>www.tridonic.com</u> \rightarrow Technical Data

Lifetime declarations are informative and represent no warranty claim. No warranty if device was opened.