

Driver LC 28W 300–700mA 42V bDW NFC SC EXC3
excite series



With strain-relief



Product description

- _ Can be integrated in Casambi systems (Casambi Ready)
- _ NEW: lumDATA (Luminaire data, Energy reporting and Diagnostics & Maintenance)
- _ Can be either used built-in or independent with clip-on strain-relief (see accessory)
- _ Forms automatically a wireless communication network with up to 250 nodes
- _ Dimming range 1 – 100 % (min. 5 mA)
- _ For luminaires of protection class I and protection class II
- _ Temperature protection as per EN 61347-2-13 C5e
- _ Adjustable output current between 300 – 700 mA via NFC
- _ Max. output power 28 W
- _ Up to 85 % efficiency
- _ Lowest power input on stand-by < 0.45 W
- _ Nominal lifetime up to 100,000 h
- _ 5 years guarantee (conditions at www.tridonic.com)

Housing properties

- _ Casing: polycarbonate, white
- _ Type of protection IP20

Interfaces

- _ basicDIM Wireless
- _ Near field communication (NFC)
- _ Terminal blocks: 45° push terminals

Functions

- _ Adjustable output current in 1-mA-steps (NFC)
- _ Enhanced constant light output function (eCLO)
- _ Protective features (overtemperature, short-circuit, overload, no-load)
- _ Suitable for emergency escape lighting systems acc. to EN 50172

Benefits

- _ Flexible configuration via companionSUITE (NFC)
- _ Application-oriented operating window for maximum compatibility
- _ Best energy savings due to low stand-by losses and high efficiency
- _ In-field programming possible after installation with NFC interface

Typical applications

- _ For downlight, spotlight and decorative applications

Website

<http://www.tridonic.com/28003715>



Spotlights



Downlights



Linear



Area



Floor | Wall



Free-standing



Street



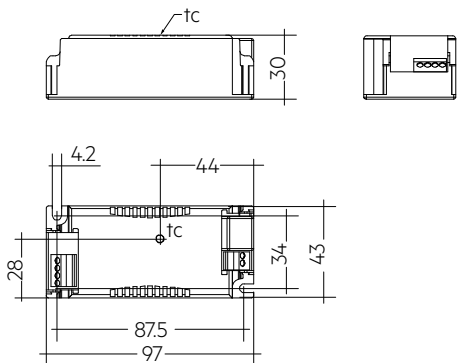
Decorative



High bay

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The complete data sheet for this product is available in the Downloads section.



Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pc.
LC 28/300-700/42 bDW NF SC EXC3	28003715	10 pc(s).	920 pc(s).	0.102 kg

Technical data

Rated supply voltage	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 48 h
Typ. rated current (at 230 V, 50 Hz, full load) ①②	141 mA
Typ. current (220 V, 0 Hz, full load, 15 % dimming level) ②	28 mA
Leakage current (at 230 V, 50 Hz, full load) ①②	< 250 µA
Max. input power	32.87 W
Typ. efficiency (at 230 V, 50 Hz, full load) ②	85 %
λ (at 230 V, 50 Hz, full load) ①	0.97
λ (over full operating range)	0.47C – 0.97
Typ. power consumption on stand-by	< 0.45 W
In-rush current (peak / duration)	3.31 A / 43 µs
THD (at 230 V, 50 Hz, full load) ①	< 13 %
Starting time (AC mode)	< 900 ms
Starting time (DC mode)	< 500 ms
Switchover time (AC/DC) ③	< 800 ms
Turn off time (at 230 V, 50 Hz, full load)	< 50 ms
Output current tolerance ①④	± 5 %
Max. output current peak (non-repetitive)	≤ output current + 20 %
Output LF current ripple (< 120 Hz)	± 5 %
Output P_ST_LM (at full load)	≤ 1
Output SVM (at full load)	≤ 0.4
Max. output voltage (U-OUT)	60 V
Dimming range	1 – 100 % (min. 5 mA)
Mains surge capability (between L - N) ⑤	1 kV
Mains surge capability (between L/N - PE)	2 kV
Burst protection	1 kV
Burst / surge peaks output side against PE	< 3 kV
Ambient temperature ta	-20 ... +50 °C
Max. casing temperature tc	78 °C
Radio transceiver operating frequencies	2.4 – 2.483 GHz
Max. output power radio transceiver (E.R.I.P.) ⑥	< + 20 dBm
Type of protection	IP20
Lifetime	up to 100,000 h
Guarantee	5 Year(s)
Dimensions L x W x H	97 x 43 x 30 mm

Approval marks



Standards

EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61000-4-4, EN 61000-4-5, EN 61347-1, EN 61347-2-13, EN 62384, EN 61547, according to EN 50172, according to EN 60598-2-22

Specific technical data

Type	Output current [®]	Min. output voltage	Max. output voltage	Max. output power	Typ. power consumption (at 230 V, 50 Hz, full load)	Typ. current consumption (at 230 V, 50 Hz, full load)
LC 28/300-700/42 bDW NF SC EXC3	300 mA	7.5 V	42 V	12.6 W	15.6 W	74 mA
LC 28/300-700/42 bDW NF SC EXC3	400 mA	7.5 V	42 V	16.8 W	20.3 W	93 mA
LC 28/300-700/42 bDW NF SC EXC3	500 mA	7.5 V	42 V	21.0 W	24.9 W	113 mA
LC 28/300-700/42 bDW NF SC EXC3	600 mA	7.5 V	42 V	25.2 W	29.5 W	132 mA
LC 28/300-700/42 bDW NF SC EXC3	667 mA	7.5 V	42 V	28.0 W	32.0 W	143 mA
LC 28/300-700/42 bDW NF SC EXC3	700 mA	7.5 V	40 V	28.0 W	32.5 W	141 mA

- ① Valid at 100 % dimming level.
- ② Depending on the selected output current.
- ③ Valid for immediate change of power supply type otherwise the starting time is valid.
- ④ Output current is mean value.
- ⑤ L-N acc. to EN 61000-4-5, 2 Ohm, 12/50 μ s, 8/20 μ s.
- ⑥ E.I.R.P.: Equivalent Isotropically Radiated Power.