

Driver LC 90W 200–800mA 230V bDW NFC h16 PRE4

16 mm premium NFC series

**Product description**

- _ Can be integrated in Casambi systems (Casambi Ready)
- _ NEW: lumDATA (Luminaire data, Energy reporting and Diagnostics & Maintenance)
- _ Dimmable built-in constant current LED driver
- _ Dimming range 1 to 100 %
- _ For luminaires of protection class I and protection class II
- _ Adjustable output current between 200 and 800 mA
- _ Max. output power 90 W
- _ Up to 95 % efficiency
- _ Power input on stand-by < 0.14 W
- _ Nominal lifetime up to 100,000 h
- _ 5 years guarantee (conditions at www.tridonic.com)

Housing properties

- _ Low profile metal casing with white cover
- _ Only 16 mm housing height
- _ Type of protection IP20

Interfaces

- _ basicDIM Wireless
- _ Near field communication (NFC)
- _ switchDIM
- _ Terminal blocks: 0° push terminals

Functions

- _ Adjustable output current in 1-mA-steps (NFC)
- _ lumDATA (Luminaire data, Energy reporting and Diagnostics & Maintenance)
- _ Constant light output function (eCLO)
- _ Power-up fading at AC
- _ Switch off the driver with fade2zero
- _ Protective features (overtemperature, short-circuit, overload, no-load)
- _ Suitable for emergency escape lighting systems acc. to EN 50172

Benefits

- _ Flexible configuration via companionSUITE
- _ Support NFC multiple programming (full carton box)
- _ Application-oriented operating window for maximum compatibility
- _ Best energy savings due to low stand-by losses and high efficiency
- _ Reliability proven by lifetime up to 100,000 h and 5 years guarantee (conditions at www.tridonic.com)

Typical applications

- _ For linear/area lighting in office applications

Website
<http://www.tridonic.com/28004620>


Spotlights



Downlights



Linear



Area



Floor | Wall



Free-standing



Street



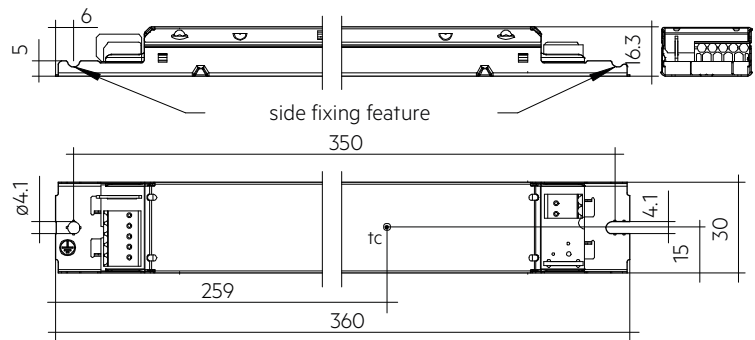
Decorative



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 90/200-800/230 bDW NF h16 PRE4	28004620	10 pc(s).	760 pc(s).	0.213 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}	419 mA
Typ. current (220 V, 0 Hz, full load, 15 % dimming level) ^②	74 mA
Leakage current (PE)	< 250 µA
Max. input power	95 W
Output power range (P _{rated})	9 – 90 W
Typ. efficiency (at 230 V, 50 Hz, full load) ^②	95 %
λ over full operating range (max.) ^①	0.99
λ over full operating range (min.)	0.56C
Typ. power consumption on stand-by	< 0.14 W
Typ. input current in no-load operation	42.8 mA
Typ. input power in no-load operation	0.37 W
In-rush current (peak / duration)	44.5 A / 141 µs
THD (at 230 V, 50 Hz, full load) ^①	< 5.5 %
Starting time (AC mode)	< 0.7 s
Starting time (DC mode)	< 0.3 s
Switchover time (AC/DC) ^③	< 0.08 s
Turn off time (at 230 V, 50 Hz, full load)	< 50 ms
Output current tolerance ^①	± 3 %
Max. output current peak (non-repetitive)	≤ output current + 40 %
Output LF current ripple (< 120 Hz)	± 1.5 %
Output P _{ST_LM} (at full load)	≤ 1
Output SVM (at full load)	≤ 0.4
Max. output voltage (U-OUT)	250 V
Dimming range	1 – 100 %
Mains surge capability (between L - N)	1 kV
Mains surge capability (between L/N - PE)	2 kV
Surge voltage at output side (against PE)	< 2 kV
Type of protection	IP20
Radio transceiver operating frequencies	2.4 – 2.483 GHz
Max. output power radio transceiver (E.R.I.P.) ^④	< + 20 dBm
Lifetime	up to 100,000 h
Guarantee	5 Year(s)
Dimensions L x W x H	360 x 30 x 16 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, ETSI EN 300 330, ETSI EN 301 489-1, ETSI EN 301 489-3, ETSI EN 300 328, ETSI EN 301 489-17, according to EN 50172, according to EN 60598-2-22

Specific technical data

Type	Output ^⑤ 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)	T _c point max.	Ambient temperature T _a
LC 90/200-800/230 bDW NF h16 PRE4	200 mA	45 V	230.0 V	46 W	49.0 W	220 mA	78 °C	-20 ... +65 °C
LC 90/200-800/230 bDW NF h16 PRE4	300 mA	45 V	230.0 V	69 W	72.4 W	320 mA	80 °C	-20 ... +65 °C
LC 90/200-800/230 bDW NF h16 PRE4	400 mA	45 V	225.0 V	90 W	94.2 W	415 mA	80 °C	-20 ... +65 °C
LC 90/200-800/230 bDW NF h16 PRE4	500 mA	45 V	180.0 V	90 W	94.4 W	416 mA	80 °C	-20 ... +60 °C
LC 90/200-800/230 bDW NF h16 PRE4	600 mA	45 V	150.0 V	90 W	94.6 W	416 mA	80 °C	-20 ... +60 °C
LC 90/200-800/230 bDW NF h16 PRE4	700 mA	45 V	128.6 V	90 W	94.8 W	418 mA	84 °C	-20 ... +60 °C
LC 90/200-800/230 bDW NF h16 PRE4	800 mA	45 V	112.5 V	90 W	95.0 W	419 mA	84 °C	-20 ... +60 °C

① Valid at 100 % dimming level. Output current is mean value.

② Depending on the selected output current.

③ Valid for immediate change of power supply type otherwise the starting time is valid.

④ E.I.R.P.: Equivalent Isotropically Radiated Power.

⑤ The table only lists a number of possible operating points but does not cover each single point. The output current can be set within the total value range in 1-mA-steps. Output current is mean value.