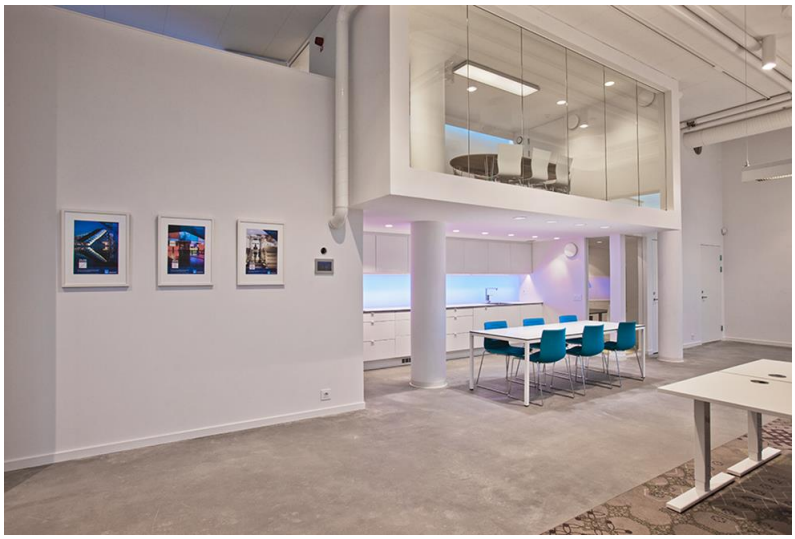
TRIDONIC

Driver LC 17W 250–700mA bDW SC PRE2

premium series

With strain-relief



Product description
_ Dimmable built-in constant current LED Driver
_ 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
_ Adjustable output current between 250 and 700 mA via ready2mains Programmer or I-SELECT 2 plugs
_ Max. output power 17 W
_ Up to 86 % efficiency
_ Power input on stand-by < 0.35 W
_ Dimming range 1 to 100 %
_ For luminaires of protection class I and protection class II
_ Nominal lifetime up to 100,000 h
_ 5-year guarantee

Housing properties
_ Casing: polycarbonate, white
_ Type of protection IP20

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

Functions
_ Adjustable output current in 1-mA-steps (ready2mains, I-SELECT 2)
_ Constant light output function (CLO)
_ Power-up fading at AC
_ Configurable via ready2mains
_ Service monitor to log certain events
_ Protective features (overtemperature, short-circuit, overload, no-load, input voltage range, reduced surge amplification)
_ Intelligent Voltage Guard (overvoltage and undervoltage monitoring)
_ Suitable for emergency escape lighting systems acc. to EN 50172

Benefits
_ Application-oriented operating window for maximum compatibility
_ Best energy savings due to low stand-by losses and high efficiency
_ Flexible configuration via basicDIM Wireless, ready2mains and I-SELECT 2

Typical applications
_ For linear/area lighting in office applications

Website
http://www.tridonic.com/28002412

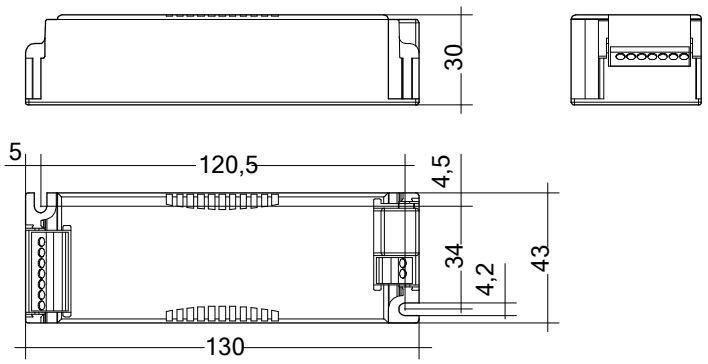
Spotlights | Downlights | **Linear** | **Area** | Floor | Wall | **Free-standing** | Street | Decorative | High bay

TRIDONIC

Driver LC 17W 250–700mA bDW SC PRE2

premium series

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 17/250-700/50 bDW SC PRE2	**28002412**	10 pc(s).	1,000 pc(s).	0.125 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. current (at 230 V, 50 Hz, full load) ①②	65 – 95 mA
Typ. current (220 V, 0 Hz, full load, 15 % dimming level) ②	15 – 25 mA
Leakage current (at 230 V, 50 Hz, full load) ①②	< 700 µA
Max. input power	22.5 W
Typ. efficiency (at 230 V, 50 Hz, full load) ②	86 %
λ (at 230 V, 50 Hz, full load)	0.96
Typ. power input on stand-by	< 0.35 W
Typ. input current in no-load operation	12.3 mA
Typ. input power in no-load operation	0.35 W
In-rush current (peak / duration)	20 A / 140 µs
THD (at 230 V, 50 Hz, full load) ①	< 3 %
Starting time (at 230 V, 50 Hz, full load) ①	< 0.7 s
Starting time (DC mode)	< 0.4 s
Switchover time (AC/DC) ③	< 0.4 s
Turn off time (at 230 V, 50 Hz, full load)	< 30 ms
Output current tolerance ①④	± 3 %
Max. output current peak (non-repetitive)	≤ output current + 40 %
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 %
Mains surge capability (between L - N)	1 kV
Mains surge capability (between L/N - PE)	2 kV
Surge voltage at output side (against PE)	< 500 V
Type of protection	IP20
Radio transceiver operating frequencies	2.4 – 2.483 GHz
Max. output power radio transceiver	+ 4 dBm
Lifetime	up to 100,000 h
Guarantee	5 Year(s)
Dimensions L x W x H	130 x 43 x 30 mm

Approval marks

IP20 SELV RoHS

Standards

EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 62384, EN 61547, EN 301 489-17 V2.1.1, ETSI EN 301 489-1, according to EN 50172, according to EN 60598-2-22

Specific technical data

Type	Output current⑤④	Min. forward voltage	Max. forward voltage	Max. output power	Typ. power consumption (at 230 V, 50 Hz, full load)	Typ. current consumption (at 230 V, 50 Hz, full load)	tc point max.	Ambient temperature ta	I-SELECT 2 resistor value
LC 17/250-700/50 bDW SC PRE2	250 mA	15 V	50 V	12.5 W	15.3 W	68 mA	80 °C	-25 … +55 °C	–
LC 17/250-700/50 bDW SC PRE2	300 mA	15 V	50 V	15.0 W	18.0 W	80 mA	80 °C	-25 … +55 °C	16.67 kΩ
LC 17/250-700/50 bDW SC PRE2	350 mA	15 V	49 V	17.2 W	20.1 W	89 mA	80 °C	-25 … +55 °C	14.29 kΩ
LC 17/250-700/50 bDW SC PRE2	400 mA	15 V	43 V	17.2 W	19.9 W	88 mA	75 °C	-25 … +60 °C	12.50 kΩ
LC 17/250-700/50 bDW SC PRE2	450 mA	15 V	38 V	17.1 W	19.6 W	88 mA	75 °C	-25 … +60 °C	11.11 kΩ
LC 17/250-700/50 bDW SC PRE2	500 mA	15 V	34 V	17.0 W	19.5 W	86 mA	75 °C	-25 … +60 °C	10.00 kΩ
LC 17/250-700/50 bDW SC PRE2	550 mA	15 V	31 V	17.1 W	19.5 W	86 mA	75 °C	-25 … +60 °C	9.09 kΩ
LC 17/250-700/50 bDW SC PRE2	600 mA	15 V	28 V	16.8 W	19.2 W	85 mA	75 °C	-25 … +60 °C	8.33 kΩ
LC 17/250-700/50 bDW SC PRE2	650 mA	15 V	26 V	16.9 W	19.4 W	86 mA	75 °C	-25 … +60 °C	7.69 kΩ
LC 17/250-700/50 bDW SC PRE2	700 mA	15 V	24 V	16.8 W	19.4 W	85 mA	75 °C	-25 … +60 °C	0.00 kΩ

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 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.
⑥ Not compatible with I-SELECT (generation 1). Calculated resistor value.