

Driver LC 40W 500-1050mA bDW NFC T EXC3

excite NFC in-track series

**Product description**

- _ Dimmable constant current / in-track LED driver
- _ Optional accessory ACU ALU NIPPLE M10x1 for mounting the luminaire head
- _ Compatible 3-phase system in-tracks, see data sheet chapter 3.8
- _ Forms automatically a wireless communication network with up to 250 nodes
- _ Dimming range 1 to 100 % (min. 5 mA)
- _ For luminaires of protection class II
- _ Temperature protection as per EN 61347-2-13 C5e
- _ Adjustable output current between 500 and 1,050 mA via near field communication (NFC)
- _ Max. output power 40 W
- _ Up to 85 % efficiency
- _ Power input on stand-by < 0.5 W
- _ Nominal lifetime up to 100,000 h
- _ 5 years guarantee

Housing properties

- _ Casing: polycarbonat, black, white or grey
- _ Type of protection IP20

Interfaces

- _ basicDIM Wireless
- _ Near field communication (NFC)

Functions

- _ Adjustable output current in 1-mA-steps (NFC)
- _ Overtemperature protection
- _ Overload protection
- _ Short-circuit protection
- _ No-load protection
- _ Burst protection voltage 2 kV
- _ Surge protection voltage 1 kV (L to N)

Benefits

- _ Flexible configuration via companionSUITE (NFC)
- _ Support NFC multiple programming (full carton box)

Typical applications

- _ For spot light in retail and hospitality application

**Website**

<http://www.tridonic.com/28003058>



Spotlights



Downlights



Linear



Area



Floor | Wall



Free-standing



Street



Decorative

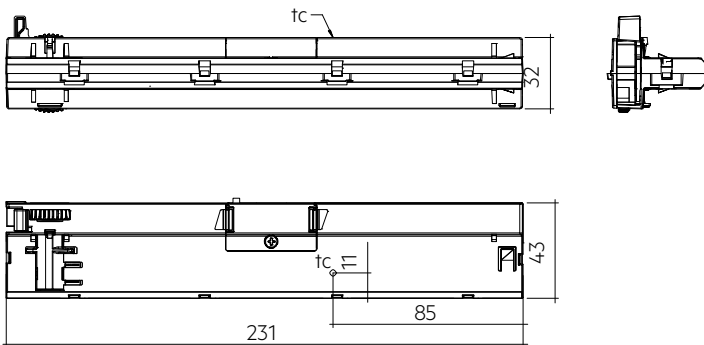


High bay

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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 40/500-1050/42 bDW NF T-W EXC3	28003058	10 pc(s).	1,260 pc(s).	0.150 kg

Technical data

Rated supply voltage	220 – 240 V
AC voltage range	198 – 264 V
Max. input current (at 230 V, 50 Hz, full load)	0.23 A
Leakage current (at 230 V, 50 Hz, full load)	< 700 µA
Mains frequency	50 / 60 Hz
Overvoltage protection	320 V AC, 48 h
Max. input power	49 W
Typ. power consumption (at 230 V, 50 Hz, full load) ①	46.6 W
Min. output power	0.07 W
Max. output power	40 W
Typ. power consumption on stand-by ②	< 0.5 W
Typ. efficiency (at 230 V, 50 Hz, full load) ①	85 %
λ (at 230 V, 50 Hz, full load) ①	0.95
Output current tolerance ③	± 5 %
Max. output current peak ④	≤ output current + 20 %
Max. output voltage (U-OUT)	60 V
THD (at 230 V, 50 Hz, full load) ①	< 10 %
Output LF current ripple (< 120 Hz)	± 3 %
Output P_ST_LM (at full load)	≤ 1
Output SVM (at full load)	≤ 0.4
Starting time (at 230 V, 50 Hz, full load)	< 0.66 s
Turn off time (at 230 V, 50 Hz, full load)	≤ 0.03 s
Hold on time at power failure (output)	0 s
Dimming range	1 – 100 %
Ambient temperature ta (at lifetime 100,000 h)	25 °C
Storage temperature ts	-40 ... +80 °C
Mains surge capability (between L - N)	1 kV
Radio transceiver operating frequencies	2.4 – 2.483 GHz
Max. output power radio transceiver (E.R.I.P.) ⑤	< + 20 dBm
Lifetime	up to 100,000 h
Guarantee	5 Year(s)
Dimensions L x W x H	231 x 42.4 x 32 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 61547, EN 62384, EN 62386 (acc. to DALI standard V1), ETSI EN 300 330, ETSI EN 301 489-1, ETSI EN 301 489-3, ETSI EN 300 328, ETSI EN 301 489-17

Specific technical data

Type	Output current ⑥	Min. forward voltage ⑥	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
LC 40/500-1050/42 bDW NF T-W EXC3	500 mA	14 V	42.0 V	21.0 W	25.0 W	99 mA	90 °C	-20 ... +35 °C
LC 40/500-1050/42 bDW NF T-W EXC3	600 mA	14 V	42.0 V	25.2 W	30.0 W	117 mA	90 °C	-20 ... +35 °C
LC 40/500-1050/42 bDW NF T-W EXC3	700 mA	14 V	42.0 V	29.4 W	34.6 W	134 mA	90 °C	-20 ... +35 °C
LC 40/500-1050/42 bDW NF T-W EXC3	800 mA	14 V	42.0 V	33.6 W	38.9 W	150 mA	90 °C	-20 ... +35 °C
LC 40/500-1050/42 bDW NF T-W EXC3	900 mA	14 V	42.0 V	37.8 W	43.5 W	167 mA	90 °C	-20 ... +35 °C
LC 40/500-1050/42 bDW NF T-W EXC3	1,050 mA	14 V	38.1 V	40.0 W	46.6 W	179 mA	90 °C	-20 ... +35 °C

① Test result at 1,050 mA.

② Depending on the basicDIM Wireless traffic.

③ Output current is mean value.

④ Test result at 25 °C.

⑤ E.I.R.P.: Equivalent Isotropically Radiated Power.

⑥ Device operates down to 4 V output voltage. It cannot be guaranteed that harmonics and EMI stay inside the limits. This has to be checked individually.