

Driver LC 25W 50–350mA 230V o4a NFC h16 EXC4

16 mm excite NFC series

**Product description**

- _ NEW: lumDATA (DALI-2 part ext. 251, 252 and 253)
- _ Dimmable built-in constant current LED driver
- _ Dimming range 1 to 100 %
- _ For luminaires of protection class I and protection class II
- _ Output current adjustable between 50 – 350 mA
- _ Max. output power 25 W
- _ Up to 91.1 % efficiency
- _ Power input on stand-by < 0.14 W
- _ Nominal lifetime up to 100,000 h
- _ 5 years guarantee

Housing properties

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

Interfaces

- _ Near field communication (NFC)
- _ one4all (DALI-2 DT 6, DSI, switchDIM, corridorFUNCTION)
- _ Terminal blocks: 0° push terminals

Functions

- _ Adjustable output current in 1-mA-steps (NFC, DALI)
- _ Fulfills DALI-2 parts: 251 (Luminaire data), 252 (Energy reporting) and 253 (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

Typical applications

- _ For linear/area lighting in office applications

Website
<http://www.tridonic.com/28004048>


Spotlights



Downlights



Linear



Area



Floor | Wall



Free-standing



Street



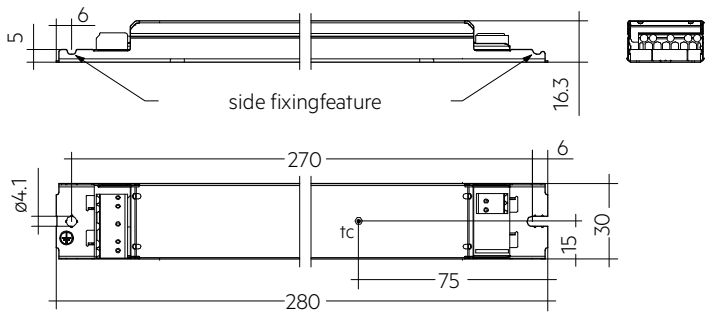
Decorative



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 25/50-350/230 o4a NF h16 EXC4	28004048	10 pc(s).	1,150 pc(s).	0,154 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}	122 mA
Typ. current (220 V, 0 Hz, full load, 15 % dimming level) ^③	26 mA
Leakage current (PE)	< 500 µA
Max. input power	28 W
Typ. efficiency (at 230 V, 50 Hz, full load) ^②	91.1 %
λ (at 230 V, 50 Hz, full load) ^①	0.99
Typ. power consumption on stand-by ^④	< 0.14 W
Typ. input current in no-load operation	14.5 mA
Typ. input power in no-load operation	0.33 W
In-rush current (peak / duration)	21.3 A / 206 µs
THD (at 230 V, 50 Hz, full load) ^①	< 8.5 %
Starting time (AC mode)	< 0.7 s
Starting time (DC mode)	< 0.35 s
Switchover time (AC/DC) ^④	< 0.3 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
Lifetime	up to 100,000 h
Guarantee	5 Year(s)
Dimensions L x W x H	280 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, EN 62386-101 (DALI-2), EN 62386-102 (DALI-2), EN 62386-207 (DALI-2), according to EN 50172, according to EN 60598-2-22

Specific technical data

Type	Output current ^①	Min. output voltage	Max output voltage	Max output power	Typ. power consumption n (at 230 V, 50 Hz, full load)	Typ. current consumption n (at 230 V, 50 Hz, full load)	tc point max.	Ambient temperature ta
LC 25/50-350/230 o4a NF h16 EXC4	50 mA	45 V	230.0 V	11.5 W	13.5 W	61 mA	81 °C	-20 ... +70 °C
LC 25/50-350/230 o4a NF h16 EXC4	100 mA	45 V	230.0 V	23.0 W	25.4 W	111 mA	82 °C	-20 ... +70 °C
LC 25/50-350/230 o4a NF h16 EXC4	150 mA	45 V	166.7 V	25.0 W	27.6 W	121 mA	83 °C	-20 ... +70 °C
LC 25/50-350/230 o4a NF h16 EXC4	200 mA	45 V	125.0 V	25.0 W	27.6 W	121 mA	83 °C	-20 ... +70 °C
LC 25/50-350/230 o4a NF h16 EXC4	250 mA	45 V	100.0 V	25.0 W	27.6 W	122 mA	84 °C	-20 ... +70 °C
LC 25/50-350/230 o4a NF h16 EXC4	300 mA	45 V	83.3 V	25.0 W	27.7 W	122 mA	84 °C	-20 ... +70 °C
LC 25/50-350/230 o4a NF h16 EXC4	350 mA	45 V	71.4 V	25.0 W	27.8 W	122 mA	85 °C	-20 ... +70 °C

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

② Depending on the selected output current.

③ Depending on the DALI traffic at the interface.

④ Valid for immediate change of power supply type otherwise the starting time is valid.

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.