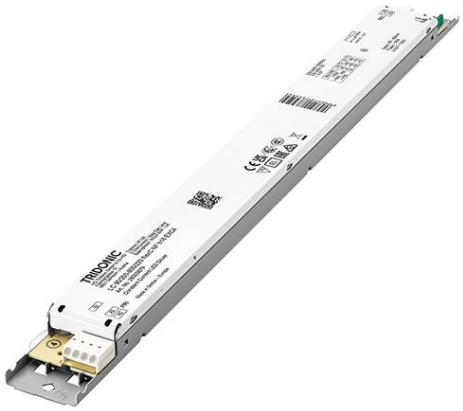
TRIDONIC

Driver LC 90W 200–800mA flexC NF h16 EXC4

excite series



a generation your needs

CERTIFIED cradle to cradle BRONZE

Product description

_ New article (28005037) with updated NFC interface for combability with ID ECCO Smart 2D-TR
_ Constant current LED driver for luminaire installation
_ For class I luminaires
_ Adjustable output current between 200 and 800 mA via NFC
_ Max. output power 90 W
_ Up to 95 % efficiency
_ Nominal lifetime up to 100,000 h
_ 5 years guarantee (conditions at https://www.tridonic.com/manufacturer-guarantee-conditions)

Housing properties

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

Interfaces

_ Near field communication (NFC)
_ Terminal blocks: 0° push terminals

Functions

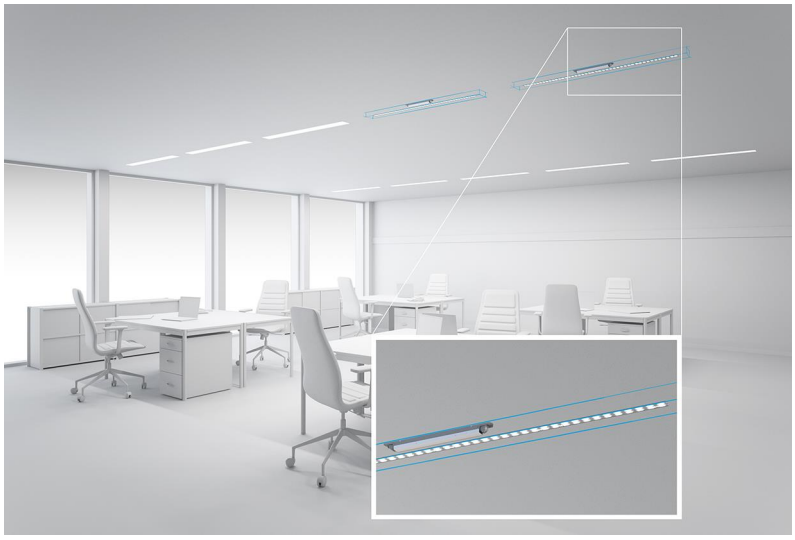
_ Adjustable output current in 1-mA-steps (NFC)
_ Constant light output function (eCLO)
_ Protective features (overtemperature, short-circuit, overload, no-load)
_ Intelligent Voltage Guard (overvoltage and undervoltage monitoring)
_ Suitable for emergency escape lighting systems acc. to EN 50172

Benefits

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

Typical applications

_ For linear/area lighting in office applications



Website

http://www.tridonic.com/28005037

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

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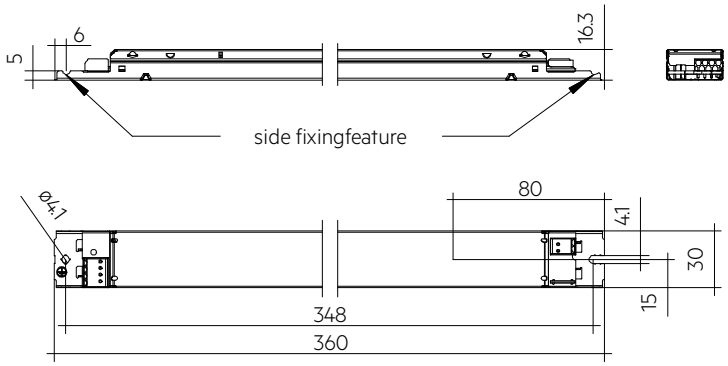
The complete data sheet for this product is available in the Downloads section.



Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pc.
LC 90/200-800/220 flexC NF h16 EXC4	28005037	10 pc(s).	950 pc(s).	0.197 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) ①	450 mA
Typ. current (220 V, 0 Hz, full load) ①	440 mA
Leakage current (at 230 V, 50 Hz, full load) ①	< 500 µA
Max. input power	97 W
Output power range (P_rated)	9 – 90 W
Typ. efficiency (at 230 V, 50 Hz, full load) ①	95 %
λ (at 230 V, 50 Hz, full load)	0.97
λ (over full operating range)	0.61C – 0.97
Typ. input current in no-load operation	47.3 mA
Typ. input power in no-load operation	0.74 W
In-rush current (peak / duration)	34.2 A / 188 µs
THD (at 230 V, 50 Hz, full load)	< 10 %
Starting time (at 230 V, 50 Hz, full load)	< 300 ms
Starting time (DC mode)	< 300 ms
Switchover time (AC/DC) ②	< 300 ms
Turn off time (at 230 V, 50 Hz, full load)	< 30 ms
Output current tolerance ③	± 5 %
Max. output current peak (non-repetitive)	≤ output current + 90 %
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
Mains surge capability (between L - N)	1 kV
Mains surge capability (between L/N - PE)	2 kV
Burst / surge peaks output side against PE	≤ 2.5 kV
Type of protection	IP20
Lifetime	up to 100,000 h
Guarantee (conditions at www.tridonic.com)	5 Year(s)
Dimensions L x W x H	360 x 30 x 16.3 mm

Approval marks

IP20 RoHS

Standards

EN 55015, EN 61000-3-2, EN 61000-3-3, 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 ④③	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)	tc point max.	Ambient temperature ta
LC 90/200-800/220 flexC NF h16 EXC4	200 mA	45 V	220.0 V	44 W	45.9 W	212 mA	65 °C	-20 … +55 °C
LC 90/200-800/220 flexC NF h16 EXC4	250 mA	45 V	220.0 V	55 W	56.7 W	257 mA	65 °C	-20 … +55 °C
LC 90/200-800/220 flexC NF h16 EXC4	300 mA	45 V	220.0 V	66 W	68.1 W	306 mA	65 °C	-20 … +55 °C
LC 90/200-800/220 flexC NF h16 EXC4	350 mA	45 V	220.0 V	77 W	79.2 W	353 mA	65 °C	-20 … +55 °C
LC 90/200-800/220 flexC NF h16 EXC4	400 mA	45 V	220.0 V	88 W	90.6 W	402 mA	65 °C	-20 … +55 °C
LC 90/200-800/220 flexC NF h16 EXC4	450 mA	45 V	200.0 V	90 W	93.0 W	413 mA	65 °C	-20 … +55 °C
LC 90/200-800/220 flexC NF h16 EXC4	500 mA	45 V	180.0 V	90 W	93.6 W	415 mA	65 °C	-20 … +55 °C
LC 90/200-800/220 flexC NF h16 EXC4	550 mA	45 V	163.6 V	90 W	93.9 W	416 mA	70 °C	-20 … +55 °C
LC 90/200-800/220 flexC NF h16 EXC4	600 mA	45 V	150.0 V	90 W	94.2 W	418 mA	70 °C	-20 … +55 °C
LC 90/200-800/220 flexC NF h16 EXC4	650 mA	45 V	138.5 V	90 W	95.0 W	421 mA	70 °C	-20 … +55 °C
LC 90/200-800/220 flexC NF h16 EXC4	700 mA	45 V	128.6 V	90 W	95.5 W	424 mA	70 °C	-20 … +55 °C
LC 90/200-800/220 flexC NF h16 EXC4	750 mA	45 V	120.0 V	90 W	95.7 W	424 mA	75 °C	-20 … +55 °C
LC 90/200-800/220 flexC NF h16 EXC4	800 mA	45 V	112.5 V	90 W	96.7 W	429 mA	75 °C	-20 … +55 °C

① Depending on the selected output current.
② Valid for immediate change of power supply type otherwise the starting time is valid.
③ Output current is mean value.
④ 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.