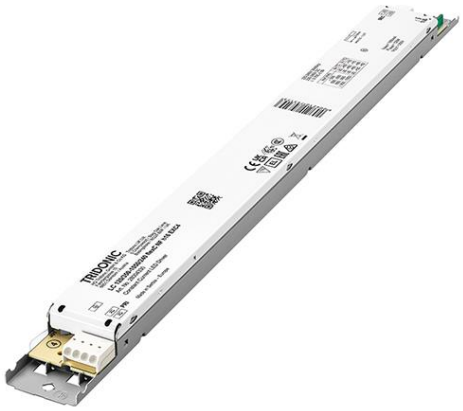
TRIDONIC

## Driver LC 120W 350–1050mA flexC NF h16 EXC4

excite series



a generation 4 your needs

CERTIFIED cradle to cradle BRONZE

### Product description

_ New article (28005039) 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 350 and 1,050 mA with NFC
_ Max. output power 120 W
_ Up to 93 % 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

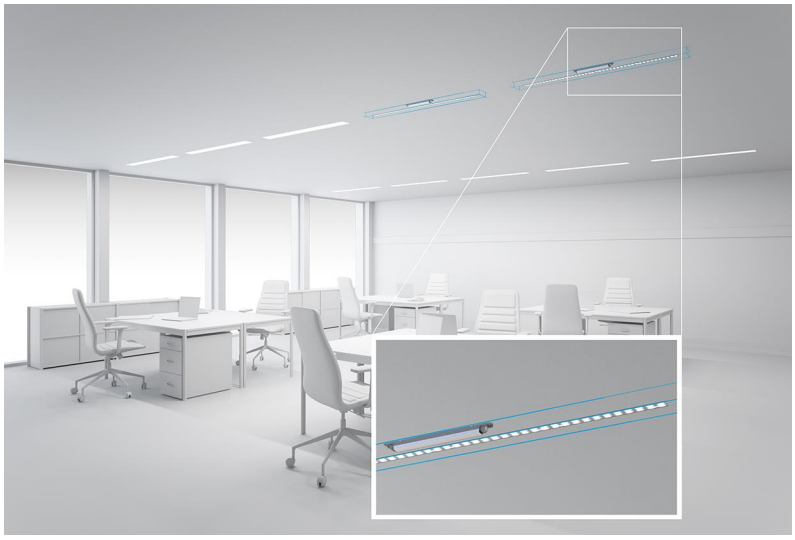
_ Adjustable output current in 1-mA-steps (NFC)
_ Constant light output function (eCLO)
_ Protective features (overtemperature, short-circuit, overload, no-load)
_ Intelligent Voltage Guard (overvoltage and undervoltage monitoring)
_ Suitable for emergency escape lighting systems acc. to EN 50172

### 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/28005039

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

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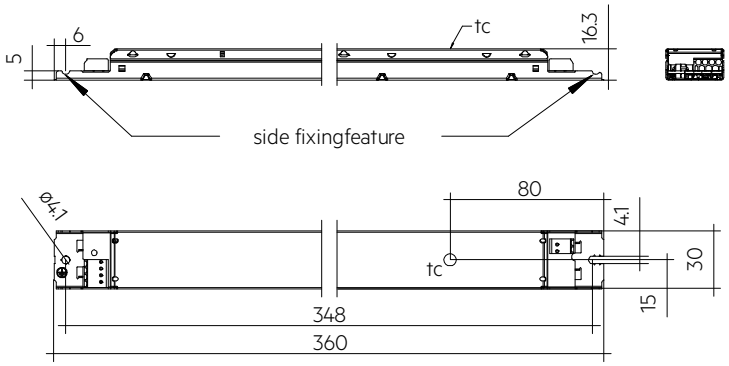
**The complete data sheet for this product is available in the Downloads section.**




### Ordering data

| Type | Article number | Packaging, carton | Packaging, pallet | Weight per pc. |
|---|---|---|---|---|
| LC 120/350-1050/240 flexC NF h16 EXC4 | 28005039 | 10 pc(s). | 950 pc(s). | 0.196 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 | 560 mA |
| Typ. current (220 V, 0 Hz, full load) ① | 580 mA |
| Leakage current (at 230 V, 50 Hz, full load) ① | < 700 µA |
| Max. input power | 128 W |
| Output power range (P_rated) | 77 – 120 W |
| Typ. efficiency (at 230 V, 50 Hz, full load) ① | 93 % |
| λ (at 230 V, 50 Hz, full load) | 0.99 |
| λ (over full operating range) | 0.7C – 0.99 |
| Typ. input current in no-load operation | 46.9 mA |
| Typ. input power in no-load operation | 0.85 W |
| In-rush current (peak / duration) | 51.4 A / 143 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) | < 500 ms |
| Switchover time (AC/DC) ② | < 500 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) | ± 3 % |
| 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 120/350-1050/240 flexC NF h16 EXC4** | 350 mA | 45 V | 220.0 V | 77 W | 80.2 W | 360 mA | 70 °C | -20 … +60 °C |
| **LC 120/350-1050/240 flexC NF h16 EXC4** | 400 mA | 45 V | 220.0 V | 88 W | 91.7 W | 410 mA | 70 °C | -20 … +60 °C |
| **LC 120/350-1050/240 flexC NF h16 EXC4** | 450 mA | 45 V | 220.0 V | 99 W | 102.6 W | 457 mA | 70 °C | -20 … +60 °C |
| **LC 120/350-1050/240 flexC NF h16 EXC4** | 500 mA | 45 V | 220.0 V | 110 W | 114.6 W | 509 mA | 75 °C | -20 … +60 °C |
| **LC 120/350-1050/240 flexC NF h16 EXC4** | 550 mA | 45 V | 218.2 V | 120 W | 124.3 W | 551 mA | 75 °C | -20 … +60 °C |
| **LC 120/350-1050/240 flexC NF h16 EXC4** | 600 mA | 45 V | 200.0 V | 120 W | 124.7 W | 553 mA | 75 °C | -20 … +60 °C |
| **LC 120/350-1050/240 flexC NF h16 EXC4** | 650 mA | 45 V | 184.6 V | 120 W | 124.3 W | 550 mA | 75 °C | -20 … +60 °C |
| **LC 120/350-1050/240 flexC NF h16 EXC4** | 700 mA | 45 V | 171.4 V | 120 W | 125.0 W | 553 mA | 80 °C | -20 … +60 °C |
| **LC 120/350-1050/240 flexC NF h16 EXC4** | 750 mA | 45 V | 160.0 V | 120 W | 125.5 W | 556 mA | 80 °C | -20 … +60 °C |
| **LC 120/350-1050/240 flexC NF h16 EXC4** | 800 mA | 45 V | 150.0 V | 120 W | 126.2 W | 559 mA | 80 °C | -20 … +60 °C |
| **LC 120/350-1050/240 flexC NF h16 EXC4** | 900 mA | 45 V | 133.3 V | 120 W | 127.4 W | 564 mA | 80 °C | -20 … +60 °C |
| **LC 120/350-1050/240 flexC NF h16 EXC4** | 950 mA | 45 V | 126.3 V | 120 W | 129.3 W | 572 mA | 82 °C | -20 … +55 °C |
| **LC 120/350-1050/240 flexC NF h16 EXC4** | 1,000 mA | 45 V | 120.0 V | 120 W | 128.3 W | 568 mA | 82 °C | -20 … +55 °C |
| **LC 120/350-1050/240 flexC NF h16 EXC4** | 1,050 mA | 45 V | 114.3 V | 120 W | 128.0 W | 567 mA | 82 °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.