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OTi DALI 40/220-240/1A0 NFC LP

OPTOTRONIC Intelligent - DALI NFC LP | Compact constant current LED driver - Dimmable

Product family features

- Supply voltage: 220...240 V

- Line frequency: 0 Hz | 50 Hz | 60 Hz

Line voltage: 198...264 VLifetime: up to 100,000 hType of protection: IP20



Product family benefits

- Small housing for flexible luminaire designs
- Versatile DALI window driver due to flexible output characteristic
- Easy and fast output current setting via NFC
- Very high efficiency
- High-quality dimming of 1...100 % by amplitude dimming
- DALI-2 certified incl. Parts 251, 252, 253
- Easy to use in corridors and restrooms because of three-level Corridor function
- Touch DIM application: easy to control via pushbutton or sensor



Specifications are subject to changes without notice.

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Areas of application

- Suitable for downlights, spotlights and LED panels
- Suitable for use in luminaires with flexible current setting
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for indoor SELV installations
- Suitable for luminaires of protection classes I and II

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Technical data

Electrical data

| Max. ECG no. on circuit breaker 10 A (B) | 35 |
|--|--------------------------|
| Max. ECG no. on circuit breaker 16 A (B) | 55 |
| Maximum output power | 38 W ¹⁾ |
| Nominal output current | 3501050 mA ²⁾ |
| Nominal output power | 38 W ¹⁾ |
| Nominal output voltage | 1054 V ³⁾ |
| Nominal input voltage | 220240 V |
| Input voltage AC | 198264 V ⁴⁾ |
| Input voltage DC | 176276 V |
| Efficiency in full-load | 88 % ⁵⁾ |
| Galvanic isolation DALI/mains | Basic |
| Galvanic isolation DALI/output | SELV |
| Galvanic isolation primary/secondary | SELV |
| Inrush current | 20 A ⁶⁾ |
| Networked standby power | 0.13 W ⁵⁾ |
| Power factor λ | 0.70C0.99 |
| Mains frequency | 0,50,60 Hz |
| Surge capability (L-N) | 1 kV |
| Surge capability (L/N-Ground) | 2 kV |
| U-OUT (working voltage) | 60 V |
| Current set | DALI / NFC |
| Output current tolerance | ±3 % |
| Output ripple current (100 Hz) | < 3 % ⁷⁾ |
| Protective conductor current | not relevant |
| Total harmonic distortion | < 10 % ⁸⁾ |
| Default output current | 700 mA |

¹⁾ Partial load 7...38 W

^{2) ±3%}

³⁾ Maximum 60 V

⁴⁾ Permitted voltage range

⁵⁾ at 230 V, 50 Hz

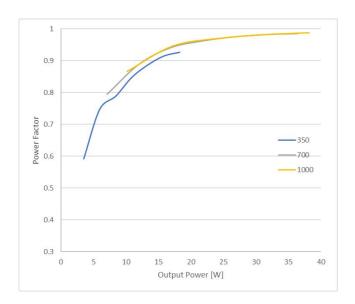
 ⁶⁾ t_{width} = 25 μs (measured at 50 % I_{peak})
7) Ripple average at 100 Hz

⁸⁾ At full load, 220...240 V, 50 Hz / see graphs

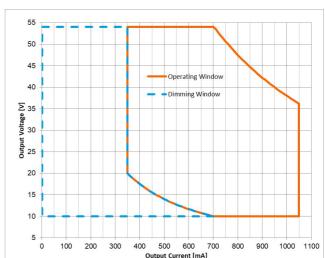
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Typical Power Factor v Load

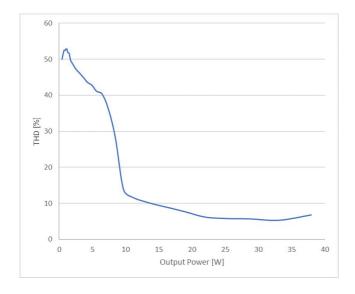


Operating Window



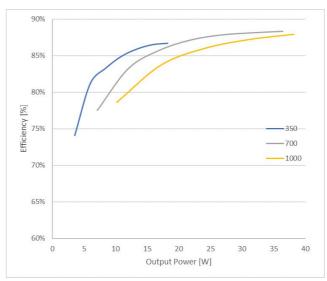
OTI DALI 40 NFC LP Typical Power Factor vs. Load

Typical THD v Load



OTI DALI 40 NFC LP Operating window

Typical Efficiency v Load 230 V 50 Hz

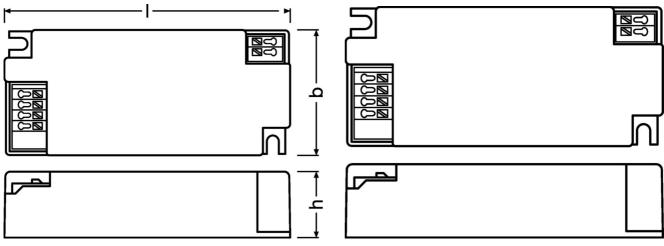


OTI DALI 40 NFC LP Typical THD Vs Load

OTI DALI 40 NFC LP Typical Efficiency vs. Load (230 V / 50 Hz)

Dimensions & weight

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| Product weight | 130.00 g | |
|--------------------------------------|---------------------------|--|
| Length | 97.0 mm | |
| Height | 22.0 mm | |
| Width | 42.5 mm | |
| Cable cross-section, input side | 0.51.5 mm ² 1) | |
| Cable cross-section, output side | 0.51.5 mm ² 1) | |
| Cable/wire length, output side | 2000 mm | |
| Mounting hole spacing, length | 88.0 mm | |
| Mounting hole spacing, width | 34.0 mm | |
| Wire preparation length, input side | 78 mm | |
| Wire preparation length, output side | 78 mm | |

¹⁾ Solid or flexible leads

Colors & materials

| Casing material | Plastic |
|-----------------|---------|
| Product color | White |

Temperatures & operating conditions

| Ambient temperature range | -20+45 °C |
|--|---------------------|
| Max.housing temperature in case of fault | 110 °C |
| Maximum temperature at tc test point | 85 °C ¹⁾ |
| Permitted rel. humidity during operation | 585 % ²⁾ |
| Temperature range at storage | -40+85 °C |

¹⁾ Maximum at the Tc-point

²⁾ Maximum 56 days/year at 85 %

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Lifespan

| ECG lifetime | 50000 h / 100000 h ¹⁾ |
|--------------|----------------------------------|

1) T_c = 85°C, 0.2% / 1,000 h failure rate / T_c = 75°C, 0.1% / 1,000 h failure rate

Additional product data

| Encapsulated | No |
|--------------|----|

Capabilities

| Max. cable length to lamp/LED module | 2.0 m ¹⁾ | |
|--|---------------------------------------|--|
| Number of channels | 1 | |
| Dimmable | Yes | |
| Dimming interface | DALI-2 / Touch DIM / Touch DIM Sensor | |
| Dimming method | Amplitude Modulation | |
| Dimming range | 1100 % | |
| Overload protection | Automatic reversible | |
| Overheating protection | Automatic reversible | |
| Short-circuit protection | Automatic reversible | |
| Suitable for through-wiring | No | |
| Suitable for emergency lighting | Yes | |
| Suitable for fixtures with prot. class | 1/11 | |
| Type of connection, input side | Push terminal | |
| Type of connection, output side | Push terminal | |
| Constant lumen function | Programmable | |
| No-load proof | Yes | |
| Programming interface | DALI, NFC | |

¹⁾ Output wires must be routed as close as possible to each other

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Programming

| _ | |
|-----------------|-----|
| Box programming | Yes |

Programmable features

| Dim to Dark | Yes |
|------------------------|--------|
| Configuration Lock | Yes |
| Corridor Functionality | Yes |
| DALI Settings | Yes |
| DALI-2 Luminaire Data | Yes 1) |
| Driver Guard | Yes |
| Emergency Mode | Yes |
| Soft Switch Off | Yes |
| Tuning Factor | Yes |
| TouchDIM + Sensor | Yes |

¹⁾ Acc. DALI part 251

Certificates & standards

| Type of protection | IP20 | |
|---------------------------|---|--|
| Standards | Acc. to EN 61347-1 / Acc. to EN 61347-2-13 / Acc. to EN 55015 / Acc. to EN 61547 / Acc. to EN 61000-3-2 / Acc. to EN 62384 / Acc. to EN 62386 / Acc. to IEC 62386-101:Ed2 / Acc. to IEC 62386-102:Ed2 / Acc. to IEC 62386-207:Ed1 | |
| Approval marks – approval | CE / UKCA / ENEC / EL / DALI-2 / EAC / BIS | |

Logistical data

| Commodity code | 85044083900 |
|----------------|-------------|



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Ecodesign regulation information:

Intended for use with LED modules.

The forward voltage of the LED light source shall be within the defined operating window of the control gear in all operating conditions including dimming if applicable.

Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.

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Download Data

| File | | |
|------------------------|------------|--|
| Certificates | PDF | ►OT ENEC 40038447 270224 |
| CAD data 3-dim | Compressed | ►OTI DALI NFC LP CAD3PDF 240921 |
| CAD data 2-dim | Compressed | ►OTI DALI NFC LP CAD2PDF 240921 |
| CAD data | Compressed | ►OTI DALI NFC LP IGS 240921 |
| CAD data | Compressed | ►OTI DALI NFC LP STEP 240921 |
| Mandatory Publications | PDF | ►OTi DALI NFC LP CE 4378498 260422 |
| Mandatory Publications | PDF | ►OTi DALI NFC LP UK DoC 4378499 260422 |
| User instruction | PDF | ►OPTOTRONIC LED Power Supply |



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Logistical Data

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---------------|-----------------------------------|-------------------------------|--------------------------------------|----------|--------------|
| 4062172227711 | OTi DALI 40/220-240/1A0 NFC LP | Shipping carton box 20 Pieces | 208 x 122 x 107 mm | 2.72 dm³ | 90.00 g |

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit

Data privacy

This OSRAM driver can be configured using the Tuner4TRONIC software. This requires registering on www.myosram.com and downloading theTuner4TRONIC software from the Internet. The Tuner4TRONIC software enables users to access and view the operational data of a luminaire or driver via the corresponding programming interfaces. A password key (Config Lock) must be set up in the driver via the Tuner4TRONIC software in order to control which users can access and view operational data. Follow the instructions for password setup. To grant an external person or company rights to access or view operational data, you can assign password keys. In this case, however, you are responsible for ensuring that the third party concerned takes notice of the information described here.

However, OSRAM can read out operating data from devices for maintenance and service purposes even when a password key has been assigned. In individual cases, OSRAM will also use its access rights in order to optimize or improve driver hardware and driver functions. In accordance with data privacy principles, any user of operating data (luminaire manufacturers, third parties with access rights) must ensure that personal data (e.g. name, address, location IDs) are only merged with the prior written consent of the person (end user) concerned. The respective user of the operating data is responsible for providing evidence of consent.

Accessories Optional

| Product description | Accessory name | Accessory code |
|--------------------------------|----------------|----------------|
| OTi DALI 40/220-240/1A0 NFC LP | PRH101 -USB | ►6977078996938 |
| OTi DALI 40/220-240/1A0 NFC LP | CPR30 -USB | ▶6977078996945 |

Disclaimer

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