

## OTi DALI 25/220-240/300 D NFC F L

OPTOTRONIC Intelligent Flat – DALI (non-isolated) | Linear constant current LED driver – Dimmable



### Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile DALI window driver up to 75 W due to flexible output characteristic
- Supply voltage: 220...240 V
- Available with output current range: up to 500 mA
- DALI-2 certified (Part -101,-102 and -207)
- Monitoring of luminaire operating parameters
- Constant Lumen Output (CLO)
- Non-isolated drivers

### Product family benefits

- Flat housing (16 mm height) for innovative luminaire designs and applications
- Fully programmable via software (DALI Interface, NFC)
- Advanced luminaire/driver data (power, energy, operating hours...) for analytics
- Prepared for DiiA Specification Parts -251, -252 and -253
- Lifetime: up to 100,000 h (temperature at  $T_c = 65^\circ\text{C}$ , max. 10 % failure rate)
- High-quality dimming of 1...100 % (amplitude and/or PWM selectable by software)
- Higher quality of light thanks to < 1% output ripple current
- Very high efficiency
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

## Areas of application

- Linear lighting for office, education, industry, storage areas and retail
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for luminaires of protection class I

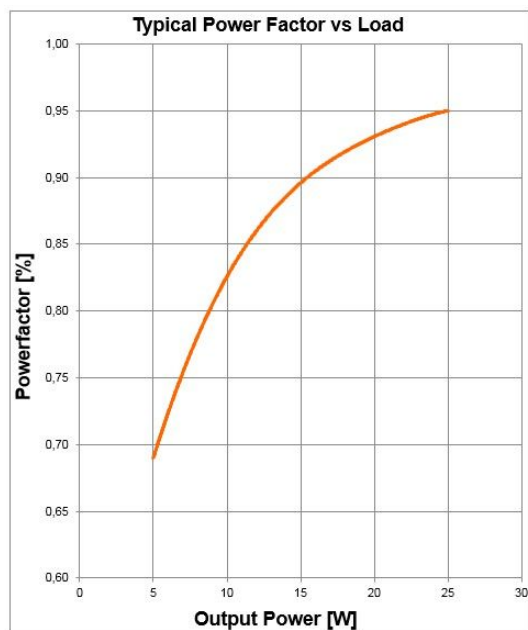
## Technical data

### Electrical data

|  |                           |
|--|---------------------------|
| Max. ECG no. on circuit breaker 10 A (B) | 17                        |
| Max. ECG no. on circuit breaker 16 A (B) | 28                        |
| Maximum output power                     | 25 W                      |
| Nominal output current                   | 35...300 mA               |
| Nominal output power                     | 2.7...25 W                |
| Nominal output voltage                   | 54...240 V                |
| Nominal input voltage                    | 220...240 V               |
| Input voltage AC                         | 198...264 V               |
| Input voltage DC                         | 176...276 V               |
| Device power loss                        | 2.0 W                     |
| Efficiency in full-load                  | 90.5 % <sup>1)</sup>      |
| Inrush current                           | 21 A                      |
| Power factor $\lambda$                   | 0.30C...0.95              |
| Mains frequency                          | 0/50/60 Hz                |
| Surge capability (L-N)                   | 1 kV                      |
| Surge capability (L/N-Ground)            | 2 kV                      |
| U-OUT (working voltage)                  | < 250 V                   |
| Current set                              | DALI / NFC / Programmable |
| Output current tolerance                 | $\pm 3$ %                 |
| Output ripple current (100 Hz)           | < 1 %                     |
| Protective conductor current             | <0.5 mA                   |
| Total harmonic distortion                | 9.50 %                    |
| Default output current                   | 35 mA                     |

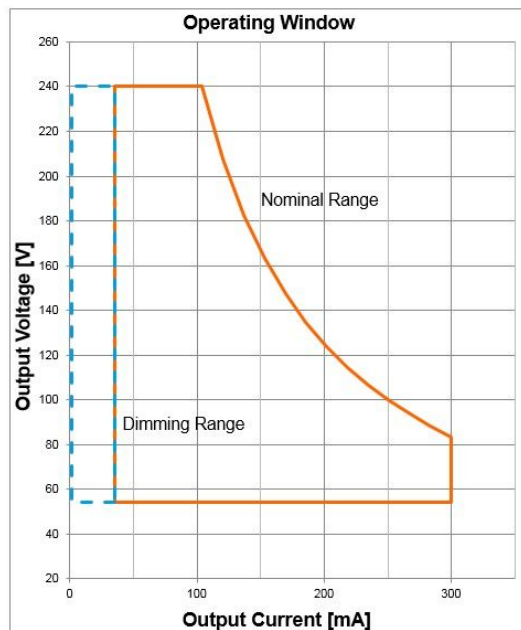
1) at 230 V, 50 Hz

## Typical Power Factor v Load



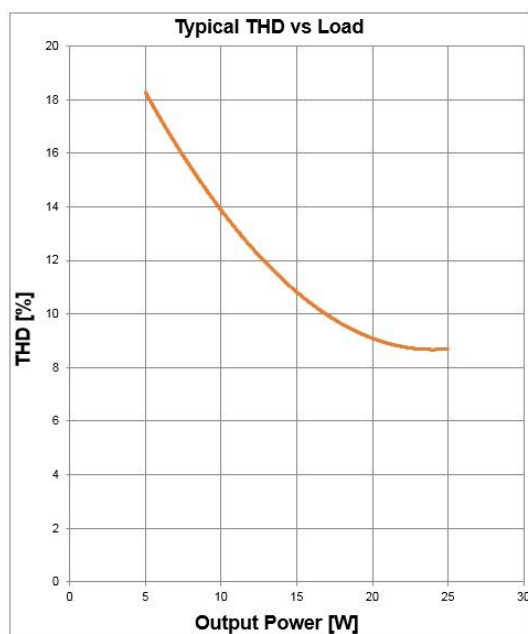
Typical Power factor vs. Load OTI DALI 25/220-240/300 D NFC FL

## Operating Window



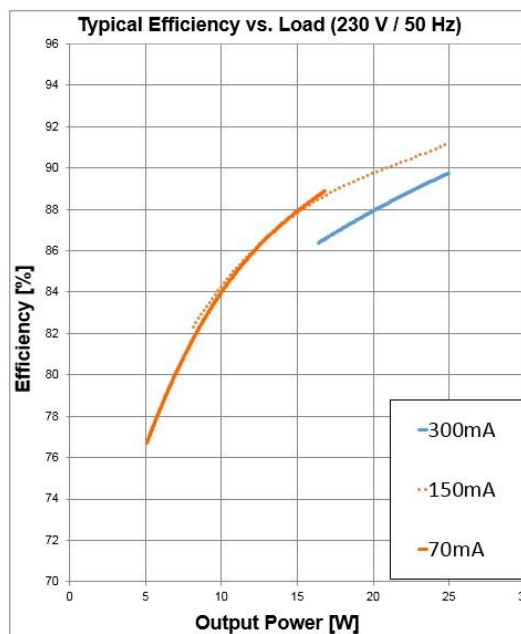
Operating Window OTI DALI 25/220-240/300 D NFC FL

## Typical THD v Load



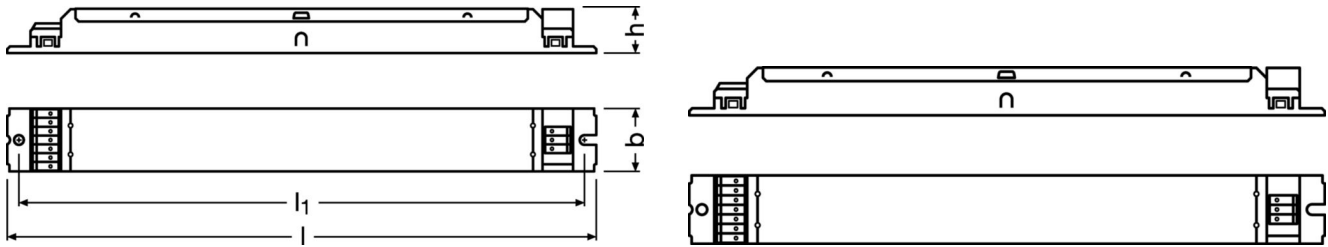
Typical THD vs Load OTI DALI 25/220-240/300 D NFC FL

## Typical Efficiency v Load 230 V 50 Hz



Typical Efficiency vs. Load (230V/50Hz) OTI DALI 25/220-240/300 D NFC FL

## Dimensions & weight



|                                      |                           |
|--------------------------------------|---------------------------|
| Product weight                       | 205.00 g                  |
| Length                               | 280.0 mm                  |
| Height                               | 16.0 mm                   |
| Width                                | 30.0 mm                   |
| Cable cross-section, input side      | 0.5...1.5 mm <sup>2</sup> |
| Cable cross-section, output side     | 0.5...1.5 mm <sup>2</sup> |
| Mounting hole spacing, length        | 270.0 mm                  |
| Wire preparation length, input side  | 8.0...9.0 mm              |
| Wire preparation length, output side | 8.0...9.0 mm              |

## Colors & materials

|                 |       |
|-----------------|-------|
| Casing material | Metal |
|-----------------|-------|

## Temperatures & operating conditions

|  |                        |
|--|------------------------|
| Ambient temperature range                | -25...+60 °C           |
| Max.housing temperature in case of fault | 110 °C                 |
| Maximum temperature at tc test point     | 75 °C                  |
| Permitted rel. humidity during operation | 5...85 % <sup>1)</sup> |
| Temperature range at storage             | -40...+85 °C           |

1) Maximum 56 days/year at 85 %

## Lifespan

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

## Capabilities

|  |   |
|--|---|
| Max. cable length to lamp/LED module   | 2.0 m <sup>1)</sup>                       |
| Number of channels                     | 1   |
| Dimmable                               | Yes                                       |
| Dimming interface                      | DALI-2 / Touch DIM / Touch DIM Sensor     |
| Dimming method                         | Full analogue dimming / AM/PWM selectable |
| Dimming range                          | 0.1...100 %                               |
| Overload protection                    | Automatic reversible                      |
| Overheating protection                 | Automatic reversible                      |
| Short-circuit protection               | Automatic reversible                      |
| Suitable for emergency lighting        | Yes                                       |
| Suitable for fixtures with prot. class | I   |
| 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

## Programming

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

## Programmable features

|                       |     |
|-----------------------|-----|
| DALI-2 Luminaire Data | Yes |
|-----------------------|-----|

## Certificates & standards

|                           |  |
|---------------------------|--|
| Type of protection        | IP20   |
| Standards                 | Acc. to IEC 61347-1 / Acc. to IEC 61347-2-13 / Acc. to IEC 62384 / Acc. to IEC 62386 / Acc. to IEC 61000-3-2 / Acc. to IEC 61000-3-3 / Acc. to IEC 61547 |
| Approval marks – approval | CE / EL / VDE-ENEC / EAC / CCC / RCM / BIS   |

## Logistical data

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

## 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.



## Download Data

| File                   |            |   |
|------------------------|------------|---|
| Certificates           | PDF        | ▶ OTI DALI 25 D NFC FL EATON AM35714 070920   |
| Certificates           | PDF        | ▶ OTI DALI 25 D NFC FL INOTEC AM35714 070920  |
| Certificates           | PDF        | ▶ OT ENEC 40038085 230824   |
| Certificates           | PDF        | ▶ EATON(CEAG) Conformity declaration AM18335 OTi DALI 25 220-240 300 D NFC F L (EN) |
| CAD data 3-dim         | Compressed | ▶ OTI DALI D NFC FL CAD3PDF 090120  |
| CAD data 2-dim         | Compressed | ▶ OTI DALI D NFC FL CAD2PDF 090120  |
| CAD data               | Compressed | ▶ OTI DALI D NFC FL IGS 090120  |
| CAD data               | Compressed | ▶ OTI DALI D NFC FL STEP 090120   |
| Mandatory Publications | PDF        | ▶ OTI DALI D NFC FL CE 3747608 06 160524  |
| Mandatory Publications | PDF        | ▶ OTI DALI D NFC FL UK DoC 4281098 03 200524  |
| User instruction       | PDF        | ▶ UI OTI DALI D NFC F L   |

### Logistical Data

| Product code  | Product description               | Packaging unit (Pieces/Unit)     | Dimensions (length x width x height) | Volume   | Gross weight |
|---------------|-----------------------------------|----------------------------------|--------------------------------------|----------|--------------|
| 4062172020749 | OTi DALI 25/220-240/300 D NFC F L | Shipping carton box<br>20 Pieces | 300 x 128 x 106 mm                   | 4.07 dm³ | 123.00 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](http://www.myosram.com) and downloading the Tuner4TRONIC 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 25/220-240/300 D NFC F L | PRH101 -USB    | ► 6977078996938 |
| OTi DALI 25/220-240/300 D NFC F L | CPR30 -USB     | ► 6977078996945 |

### Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.