

## OTi DALI 150/220-240/1A0 D NFC IND L

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



### Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile scope of application thanks to an output power range of up to 300 W
- Supply voltage: 220...240 V
- Available with output current range: up to 1,000 mA
- Constant Lumen Output (CLO)
- Integrated customizable thermal management (Driver Guard)
- Non-isolated drivers
- DALI-2 certified (Part -101,-102, -207, -251, -252, -253)

### Product family benefits

- Fully programmable via T4T software (NFC, DALI Interface)
- Lifetime: up to 100,000 h (temperature at  $T_c = 75^\circ\text{C}$ , max. 10 % failure rate)
- High light quality: 1...100% amplitude dimming and <1% output ripple current
- Wide operating temperature range:  $-25...+55^\circ\text{C}$
- High surge protection: up to 4 kV (L-N) / 4 kV (L/N-PE)
- Integrated inrush current limiter
- Very high efficiency (up to 96%)
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection
- Very low standby power consumption: < 0.25 W

## Areas of application

- Linear lighting solutions for industry, storage areas and retail applications
  - Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
  - Suitable for installation in emergency lighting systems according to EN 60598-2-22
  - Suitable for luminaires of protection class I
- 

## Versatile scope of application due to DALI Technology:

- Easy to use in corridors and restrooms because of three-level Corridor function
- Touch DIM® application: easy to control via pushbutton or sensor
- Energy efficient Touch DIM® operation due to automatic switch-off at sufficient residual light
- Suitable for emergency Installations (acc. to EN 60598-2-22 and IEC 61347-2-13, appendix J) thanks to DC detection (0 Hz, pulsating DC), on/off switchable
- Feedback of power consumption and operating hours (Fit for SMART GRID)
- Suitable for buildings according to EPBD/BREEAM/LEED due to automatic Constant Lumen Output setting
- Luminaire information for easy maintenance
- Advanced luminaire/driver data (power, energy, operating hours...) for analytics

## Technical data

### Electrical data

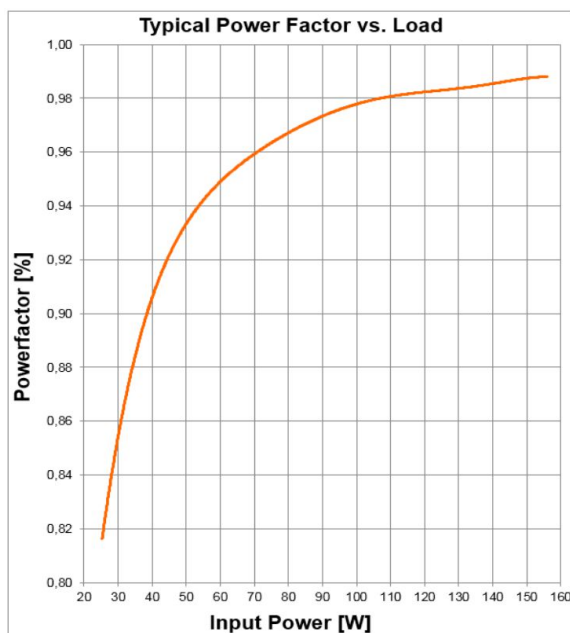
|                                          |                         |
|------------------------------------------|-------------------------|
| Nominal input voltage                    | 220...240 V             |
| Mains frequency                          | 0/50/60 Hz              |
| Input voltage AC                         | 198...264 V             |
| Input voltage DC                         | 176...276 V             |
| Total harmonic distortion                | < 8 %                   |
| Power factor $\lambda$                   | 0.59C...0.99            |
| Efficiency in full-load                  | 95 % <sup>1)</sup>      |
| Device power loss                        | 11.0 W                  |
| Networked standby power                  | <0.22 W <sup>1)</sup>   |
| Inrush current                           | 5 A                     |
| Max. ECG no. on circuit breaker 10 A (B) | 14                      |
| Max. ECG no. on circuit breaker 16 A (B) | 22                      |
| Surge capability (L-N)                   | 4 kV                    |
| Surge capability (L/N-Ground)            | 4 kV                    |
| Protective conductor current             | 0.31 mA                 |
| Nominal output voltage                   | 64...300 V              |
| U-OUT (working voltage)                  | < 310 V                 |
| Nominal output current                   | 250...1000 mA           |
| Default output current                   | 125 mA <sup>2)</sup>    |
| Output current tolerance                 | $\pm 3$ % <sup>3)</sup> |
| Output ripple current (100 Hz)           | < 1 %                   |
| Output PSTLM                             | $\leq 1$                |
| Output SVM                               | $\leq 0.4$              |
| Output current LEDset open               | 125 mA                  |
| Output current LEDset shorted            | 250 mA                  |
| Nominal output power                     | 43...150 W              |
| Maximum output power                     | 150 W                   |

1) at 230 V, 50 Hz

2) LEDset deactivated

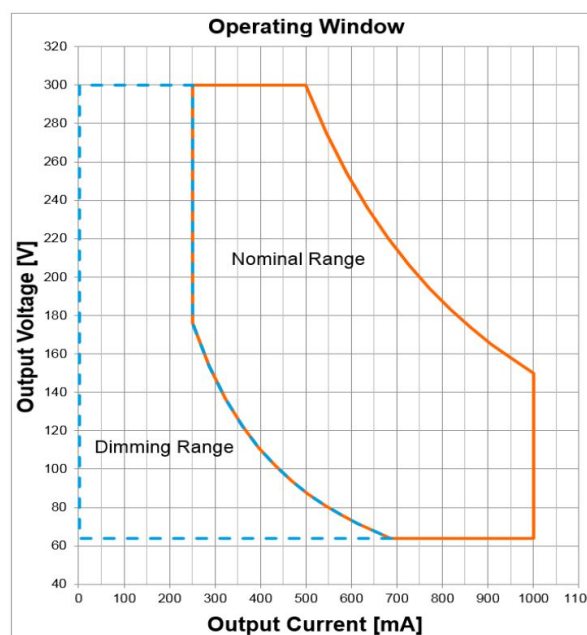
3) When use DALI

## Typical Power Factor v Load



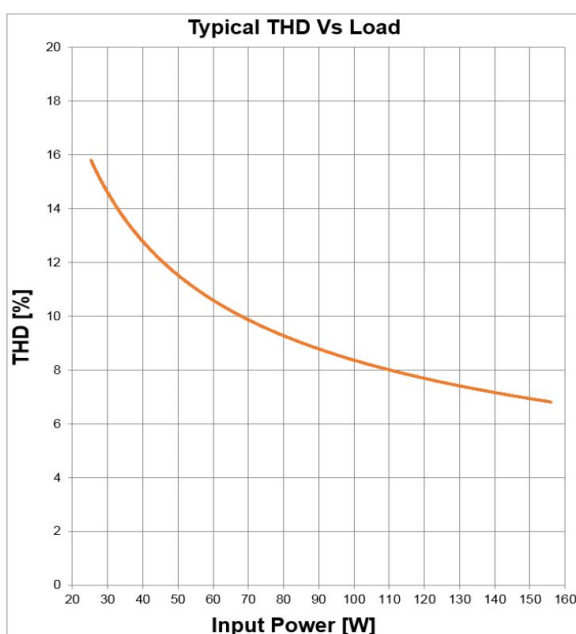
OTI DALI 150/220-240/1A0 D NFC IND L Typical Power Factor vs. Load

## Operating Window



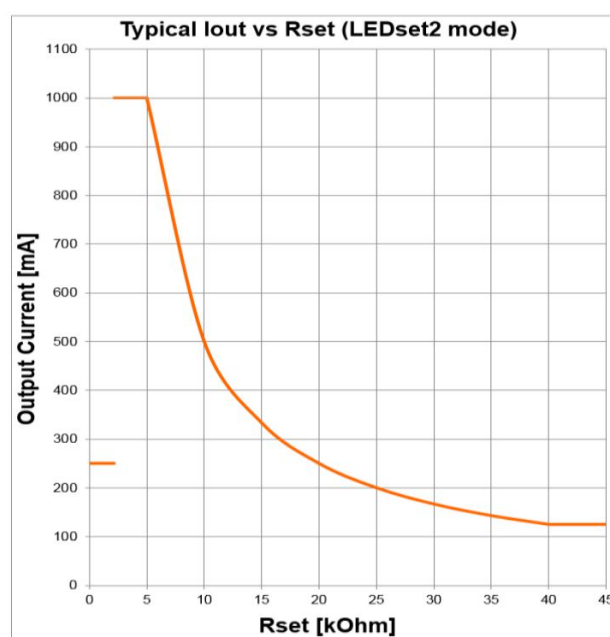
OTI DALI 150/220-240/1A0 D NFC IND L Operating Window

## Typical THD v Load



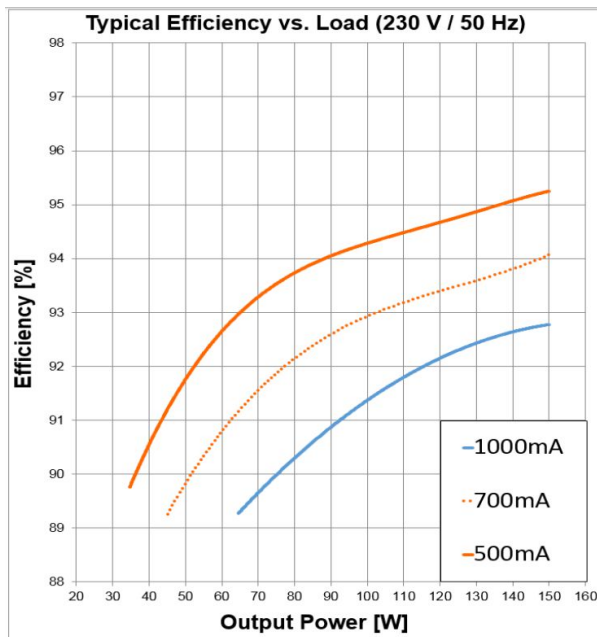
OTI DALI 150/220-240/1A0 D NFC IND L Typical THD Vs Load

## Typical Iout v Rset LEDset2 mode



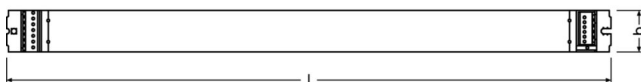
OTI DALI 150/220-240/1A0 D NFC IND L Typical Iout vs Rset (LEDset2 mode)

## Typical Efficiency v Load 230 V 50 Hz



OTI DALI 150/220-240/1A0 D NFC IND L Typical Efficiency vs. Load (230 V / 50 Hz)

## Dimensions & weight



|                                      |                           |
|--------------------------------------|---------------------------|
| Product weight                       | 306.00 g                  |
| Length                               | 425.0 mm                  |
| Width                                | 30.0 mm                   |
| Height                               | 21.0 mm                   |
| Mounting hole spacing, length        | 415.0 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> |
| 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                | -40...+65 °C           |
| Maximum temperature at tc test point     | 85 °C                  |
| Max.housing temperature in case of fault | 110 °C                 |
| Temperature range at storage             | -40...+85 °C           |
| Permitted rel. humidity during operation | 5...85 % <sup>1)</sup> |

1) Maximum 56 days/year at 85 %

## Lifespan

|              |                                  |
|--------------|----------------------------------|
| ECG lifetime | 50000 h / 100000 h <sup>1)</sup> |
|--------------|----------------------------------|

1) At maximum  $T_c = 85^\circ\text{C}$  / 10% failure rate / At  $T_{\text{case}} = 75^\circ\text{C}$  at  $T_c$  point / 10% failure rate

## Additional product data

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

## Capabilities

|                                        |                                                  |
|----------------------------------------|--------------------------------------------------|
| Programming interface                  | DALI, NFC, LEDset                                |
| Control interface                      | DALI                                             |
| Dimmable                               | Yes                                              |
| Dimming interface                      | DALI-2 / Corridor / Touch DIM / Touch DIM Sensor |
| Dimming range                          | 1...100 %                                        |
| Dimming method                         | Full analogue dimming                            |
| DALI-2 Diagnostic Data                 | Yes                                              |
| DALI-2 Energy Data                     | Yes                                              |
| Constant lumen function                | Programmable                                     |
| Max. cable length to lamp/LED module   | 5.0 m <sup>1)</sup>                              |
| Suitable for fixtures with prot. class | I                                                |
| Suitable for emergency lighting        | Yes                                              |
| Type of connection, input side         | Push terminal                                    |
| Type of connection, output side        | Push terminal                                    |
| Number of channels                     | 1                                                |
| Overheating protection                 | Automatic reversible                             |
| Overload protection                    | Automatic reversible                             |
| Short-circuit protection               | Automatic reversible                             |
| Intended for no-load operation         | No                                               |
| No-load proof                          | Yes                                              |

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

## Programming

|                        |                          |
|------------------------|--------------------------|
| Programming device     | DALI magic / NFC Scanner |
| Tuner4TRONIC           | Yes                      |
| Tuner4TRONIC Field App | Yes                      |
| Box programming        | Yes                      |

## Programmable features

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

## Certificates & standards

|                           |                                                                                       |
|---------------------------|---------------------------------------------------------------------------------------|
| Approval marks – approval | CE / EL / VDE-ENEC / EAC / CCC / RCM / BIS                                            |
| Standards                 | EN 61347-1 / EN 61347-2-13 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 62384 / EN 62386 |
| Type of protection        | IP20                                                                                  |

## Logistical data

|                   |                                                                         |
|-------------------|-------------------------------------------------------------------------|
| Commodity code    | 85044083900                                                             |
| Applicable region | APAC (excl. China, India, Japan) / EUROPE / INDIA / MEA / SOUTH AMERICA |

## Environmental information

| Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) |                               |
|-----------------------------------------------------------------------|-------------------------------|
| Date of Declaration                                                   | 28-07-2026                    |
| Primary Article Identifier                                            | 4052899559530   6977770436527 |
| Declaration No. in SCIP database                                      | In work                       |
| SCIP_STATUS                                                           | In work                       |
| SCIP_ID                                                               |                               |

## 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     | ▶ CED OTi DALI_ xx NFC family                       |
| Certificates           | PDF     | ▶ VDE ENEC certificate 40038085                     |
| Product Datasheet      | PDF     | ▶ OTi DALI 150 1A0 D NFC IND L DS 210824            |
| CAD data               | UNKNOWN | ▶ OTi D IN BIN DA2 LT2 NFC DALI2 I150 220-   IGS    |
| CAD data               | UNKNOWN | ▶ OTi D IN BIN DA2 LT2 NFC DALI2 I150 220-   STEP   |
| CAD data PDF           | PDF     | ▶ OTi D IN BIN DA2 LT2 NFC DALI2 I150 220-240   PDF |
| Mandatory Publications | PDF     | ▶ OTi DALI D NFC IND L CE 3633294 13 200125         |
| User instruction       | PDF     | ▶ UI OTi DALI D NFC IND L                           |

### Logistical Data

| Product code                  | Product description                      | Packaging unit<br>(Pieces/Unit)  | Dimensions (length<br>x width x height) | Volume               | Gross weight |
|-------------------------------|------------------------------------------|----------------------------------|-----------------------------------------|----------------------|--------------|
| 6977770436527<br>INVENTRONICS | OTi DALI 150/220-<br>240/1A0 D NFC IND L | Shipping carton box<br>20 Pieces | 447 x 160 x 101 mm                      | 7.22 dm <sup>3</sup> | 315.59 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 Inventronics driver can be configured using the Tuner4TRONIC software. This requires registering on [www.inventronicsglobal.com/ds](http://www.inventronicsglobal.com/ds) 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, Inventronics can read out operating data from devices for maintenance and service purposes even when a password key has been assigned. In individual cases, Inventronics 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.

### Disclaimer

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

## Accessories Optional

| Product description                  | Accessory name | Accessory code  |
|--------------------------------------|----------------|-----------------|
| OTi DALI 150/220-240/1A0 D NFC IND L | PRH101 -USB    | ▶ 6977078996938 |
| OTi DALI 150/220-240/1A0 D NFC IND L | PRH101 -USB    | ▶ 6937186112354 |
| OTi DALI 150/220-240/1A0 D NFC IND L | CPR30+         | ▶ 6977078996945 |
| OTi DALI 150/220-240/1A0 D NFC IND L | CPR30+         | ▶ 6937186112378 |