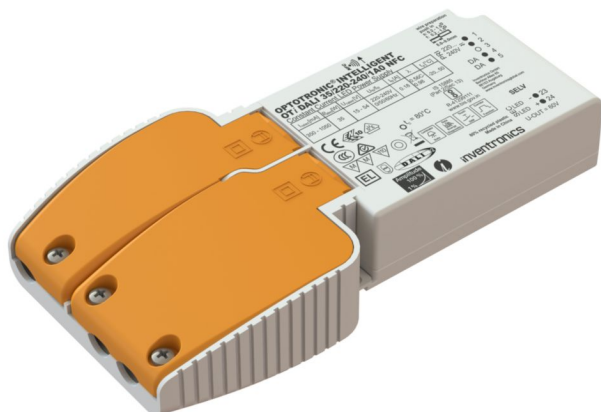


## OTi DALI 35/220-240/1A0 NFC CCTL

OPTOTRONIC Intelligent – DALI NFC CCTL | 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 V
- Lifetime: up to 100,000 h
- Type of protection: IP20
- Integrated cable clamp for luminaire and independent installation

### Product family benefits

- 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



## 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

## Technical data

### Electrical data

|                                          |                             |
|------------------------------------------|-----------------------------|
| Nominal input voltage                    | 220...240 V                 |
| Mains frequency                          | 0/50/60 Hz                  |
| Input voltage AC                         | 198...264 V <sup>1)</sup>   |
| Input voltage DC                         | 176...276 V                 |
| Nominal input current at 230 V           | 0.18 A                      |
| Total harmonic distortion                | < 10 % <sup>2)</sup>        |
| Power factor $\lambda$                   | 0.56C...0.98                |
| Efficiency in full-load                  | 90 % <sup>3)</sup>          |
| Networked standby power                  | <0.10 W <sup>3)</sup>       |
| Inrush current                           | 15 A <sup>4)</sup>          |
| Max. ECG no. on circuit breaker 10 A (B) | 18                          |
| Max. ECG no. on circuit breaker 16 A (B) | 28                          |
| Surge capability (L-N)                   | 1 kV                        |
| Surge capability (L/N-Ground)            | 2 kV                        |
| Protective conductor current             | not relevant                |
| Nominal output voltage                   | 15...54 V <sup>5)</sup>     |
| U-OUT (working voltage)                  | 60 V                        |
| Nominal output current                   | 350...1050 mA <sup>6)</sup> |
| Minimum output current                   | 3.5 mA                      |
| Default output current                   | 700 mA                      |
| Output current tolerance                 | $\pm 3$ %                   |
| Output ripple current (100 Hz)           | < 3 % <sup>7)</sup>         |
| Output PSTLM                             | $\leq 1$                    |
| Output SVM                               | $\leq 0.4$                  |
| Nominal output power                     | 14...35 W <sup>8)</sup>     |
| Maximum output power                     | 35 W                        |
| Galvanic isolation primary/secondary     | SELV                        |
| Galvanic isolation DALI/mains            | Basic                       |
| Galvanic isolation DALI/output           | SELV                        |

1) Permitted voltage range

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

3) at 230 V, 50 Hz

4)  $t_{\text{width}} = 220 \mu\text{s}$  (measured at 50 %  $I_{\text{peak}}$ )

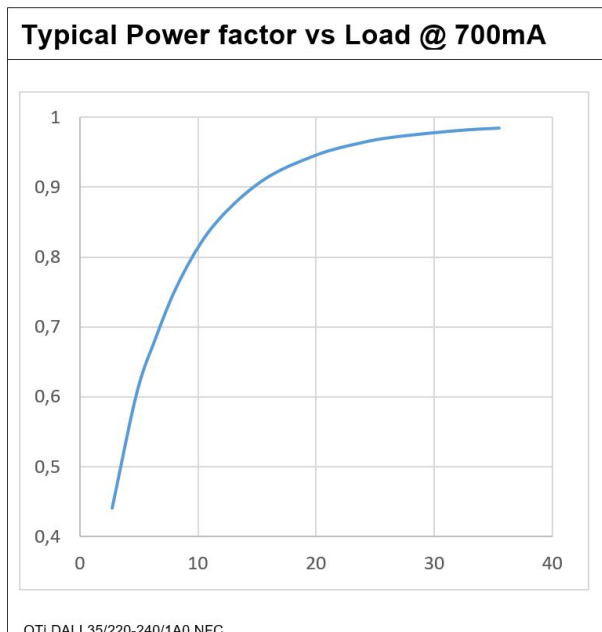
5) Maximum 60 V

6)  $\pm 3\%$

7) Ripple / average @ 100 Hz

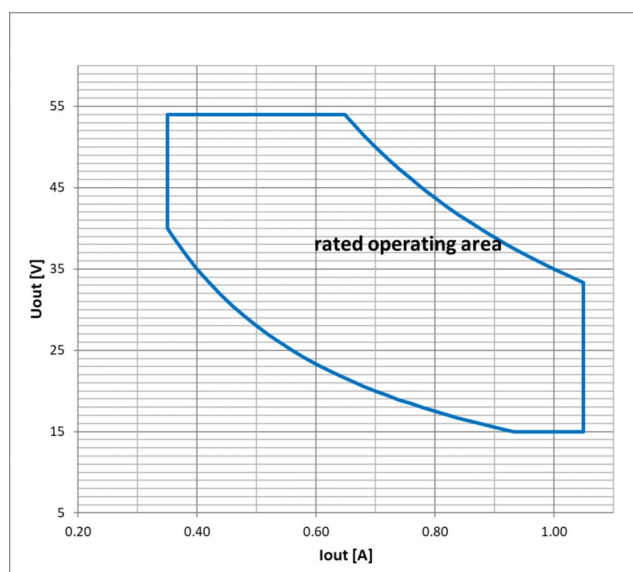
8) Partial load 15...35 W

## Typical Power Factor v Load



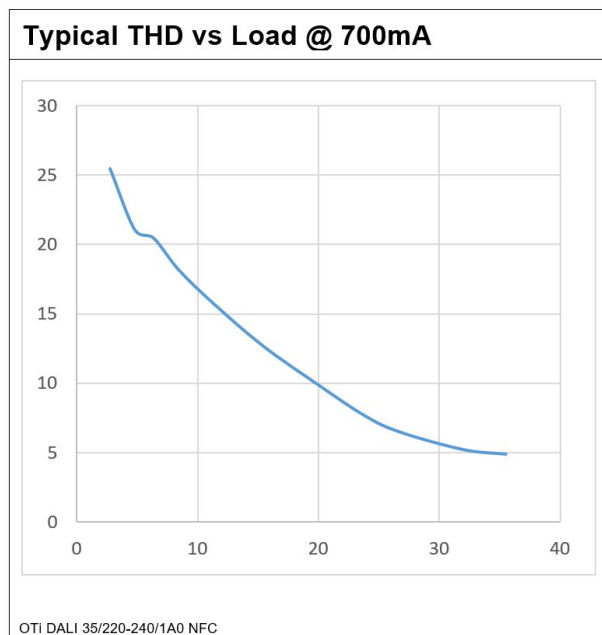
OTi DALI 35/220-240/1A0 NFC

## Operating Window



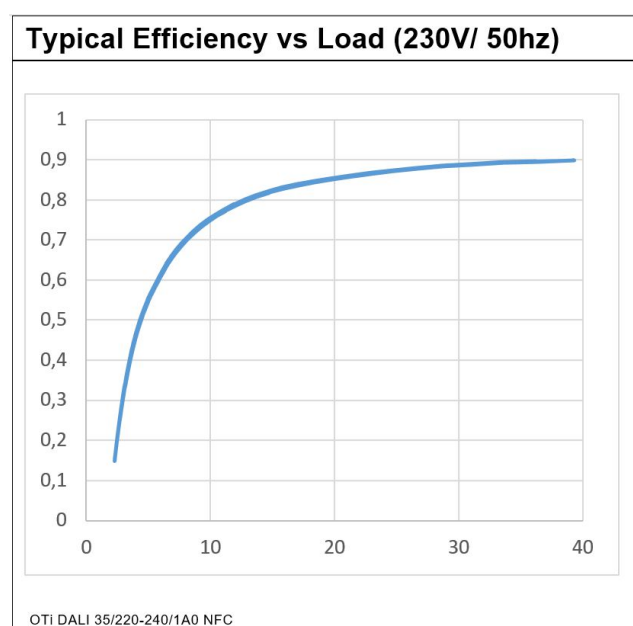
OTi DX DALI 35 NFC Operating window

## Typical THD v Load



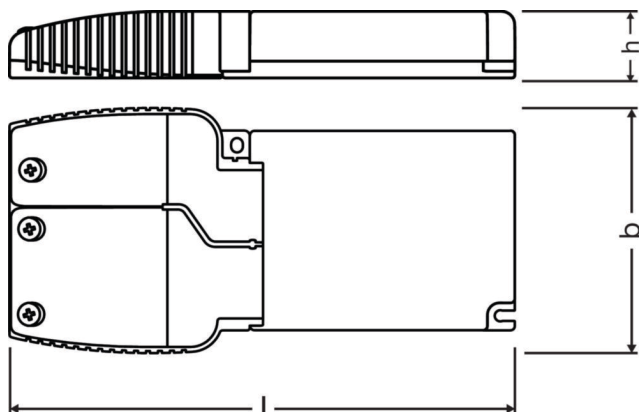
OTi DALI 35/220-240/1A0 NFC

## Typical Efficiency v Load 230 V 50 Hz



OTi DALI 35/220-240/1A0 NFC

## Dimensions & weight



|                                      |                              |
|--------------------------------------|------------------------------|
| Product weight                       | 225.00 g                     |
| Length                               | 178.0 mm                     |
| Width                                | 92.0 mm                      |
| Height                               | 29.5 mm                      |
| Mounting hole spacing, length        | 94.0 mm                      |
| Mounting hole spacing, width         | 58.0 mm                      |
| Cable cross-section, input side      | 1.5...2.5 mm <sup>2 1)</sup> |
| Cable cross-section, output side     | 0.2...1.5 mm <sup>2 1)</sup> |
| Wire preparation length, input side  | 8.0...9.0 mm                 |
| Wire preparation length, output side | 8.0...9.0 mm                 |
| Cable/wire length, output side       | 2000 mm                      |

1) Solid or flexible leads

## Colors & materials

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

## Temperatures & operating conditions

|                                          |                        |
|------------------------------------------|------------------------|
| Ambient temperature range                | -20...+50 °C           |
| Maximum temperature at tc test point     | 80 °C <sup>1)</sup>    |
| Max.housing temperature in case of fault | 110 °C                 |
| Temperature range at storage             | -40...+85 °C           |
| Permitted rel. humidity during operation | 5...85 % <sup>2)</sup> |

1) Maximum at the Tc-point

2) Maximum 56 days/year at 85 %

## Lifespan

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

1)  $T_c = 75^\circ\text{C}$ , 0.2% / 1,000 h failure rate /  $T_c = 65^\circ\text{C}$ , 0.1% / 1,000 h failure rate

## Additional product data

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

## Capabilities

|                                        |                               |
|----------------------------------------|-------------------------------|
| Programming interface                  | DALI, NFC                     |
| Control interface                      | DALI-2, Touch DIM, Corridor   |
| Dimmable                               | Yes                           |
| Dimming interface                      | DALI-2 / Touch DIM / Corridor |
| Dimming range                          | 1...100 %                     |
| Dimming method                         | Amplitude Modulation          |
| DALI-2 Diagnostic Data                 | Yes <sup>1)</sup>             |
| DALI-2 Energy Data                     | Yes <sup>2)</sup>             |
| Constant lumen function                | Programmable                  |
| Max. cable length to lamp/LED module   | 2.0 m <sup>3)</sup>           |
| Suitable for fixtures with prot. class | I / II                        |
| Suitable for emergency lighting        | Yes                           |
| Type of connection, input side         | Push terminal                 |
| Type of connection, output side        | Push terminal                 |
| Suitable for through-wiring            | Yes                           |
| 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) Acc. DALI part 253

2) Acc. DALI part 252

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

## Programming

|                        |            |
|------------------------|------------|
| Programming device     | DALI / NFC |
| Tuner4TRONIC           | Yes        |
| Tuner4TRONIC Field App | Yes        |

## Programmable features

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

1) Acc. DALI part 251

## Certificates & standards

|                           |                                                                                                                                                   |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval marks – approval | CE / EL / ENEC / DALI-2 / MM                                                                                                                      |
| Standards                 | EN 61347-1 / EN 61347-2-13 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 62384 / EN 62386 / IEC 62386-101:Ed2 / IEC 62386-102:Ed2 / IEC 62386-207:Ed1 |
| 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                                            | 4062172197366   6977770431744 |
| 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                  |
| CAD data 3-dim   | PDF     | ▶ OTI DALI 25/220-240/700 NFC CCTL   3-dim PDF |
| CAD data         | UNKNOWN | ▶ OTI DALI 25/220-240/700 NFC CCTL   IGS       |
| CAD data         | UNKNOWN | ▶ OTI DALI 25/220-240/700 NFC CCTL   STEP      |
| User instruction | PDF     | ▶ UI OTI DALI 25 35 50 NFC CCTL                |

### Logistical Data

| Product code                  | Product description                  | Packaging unit<br>(Pieces/Unit)  | Dimensions (length<br>x width x height) | Volume    | Gross weight |
|-------------------------------|--------------------------------------|----------------------------------|-----------------------------------------|-----------|--------------|
| 6977770431744<br>INVENTRONICS | OTi DALI 35/220-<br>240/1A0 NFC CCTL | Shipping carton box<br>18 Pieces | 400 x 277 x 119 mm                      | 13.19 dm³ | 251.11 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.