

## OTi DALI 75/220...240/700 D NFC TW L

OPTOTRONIC Intelligent Tunable White - Dimmable DALI |



### Areas of application

- For Tunable White as well as for 2-channel use (e.g. direct/indirect lighting)
- 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 installation in emergency lighting systems according to EN 60598-2-22
- Suitable for luminaires of protection class I
- Perfect system match with PrevaLED Linear Tunable White

### Product family benefits

- Control of standard white or Tunable White light acc. DALI device type 8 (DT8)
- TouchDIM Tunable White integrated for use without additional LMS (planned for end of 2018)
- Fully programmable via software (DALI Interface, NFC)
- Lifetime: up to 100,000 h (temperature at  $T_C = 65\text{ }^\circ\text{C}$ , max. 10 % failure rate)
- High-quality dimming of 1...100 % (amplitude and/or PWM selectable by software)
- High quality of light thanks to <1% output ripple current
- Very high efficiency
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

### Versatile scope of application due to OSRAM 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

### Product family features

## Product datasheet

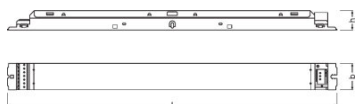
- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile DALI window driver up to 75 W due to flexible output characteristic
- Supply voltage: 220...240 V
- Usable as DT6 (2-channel) or DT8 (Tunable White) driver
- Available with output current range: up to 700 mA
- Constant Lumen Output (CLO)
- Integrated customizable thermal management (Driver Guard)
- Non-isolated drivers
- DALI-2 certified (Part -101,-102 and -207)

## Technical data

### Electrical data

|  |                           |
|--|---------------------------|
| Nominal input voltage                    | 220...240 V               |
| Mains frequency                          | 50...60 Hz                |
| Input voltage AC                         | 198...264 V               |
| Input voltage DC                         | 176...276 V               |
| Current set                              | DALI / NFC / Programmable |
| Total harmonic distortion                | < 10 %                    |
| Power factor $\lambda$                   | > 0.95                    |
| ECG efficiency                           | up to 91 %                |
| Device power loss                        | 6.0 W                     |
| Power loss in stand-by mode              | <0.2 W                    |
| Inrush current                           | 23 A                      |
| Max. ECG no. on circuit breaker 10 A (B) | 13                        |
| Max. ECG no. on circuit breaker 16 A (B) | 19                        |
| Max. ECG no. on circuit breaker 25 A (B) | -                         |
| Surge capability (L/N-Ground)            | 2 kV                      |
| Surge capability (L-N)                   | 1 kV                      |
| Nominal output voltage                   | 50...240 V                |
| U-OUT (working voltage)                  | < 250 V                   |
| Nominal output current                   | 150...700 mA              |
| Output current tolerance                 | $\pm 3$ %                 |
| Output ripple current (100 Hz)           | < 1 %                     |
| Nominal output power                     | 8.1...75 W                |
| Galvanic isolation                       | Non isolated              |

### Dimensions & weight



|                               |          |
|-------------------------------|----------|
| Mounting hole spacing, length | 350.0 mm |
|-------------------------------|----------|

## Product datasheet

|                                      |                           |
|--------------------------------------|---------------------------|
| Product weight                       | 260.00 g                  |
| 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  | 8.5...9.5 mm              |
| Wire preparation length, output side | 8.5...9.5 mm              |
| Length                               | 360.0 mm                  |
| Width                                | 30.0 mm                   |
| Height                               | 21.0 mm                   |

### Colors & materials

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

### Temperatures & operating conditions

|  |              |
|--|--------------|
| Ambient temperature range                | -25...+50 °C |
| Maximum temperature at tc test point     | 75 °C        |
| Max.housing temperature in case of fault | 110 °C       |
| Permitted rel. humidity during operation | 5...85 %     |

### Lifespan

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

<sup>1)</sup> At maximum T<sub>c</sub> = 75°C / 10% failure rate / At T<sub>c</sub> = 65°C / 10% failure rate

### Capabilities

|  |                                     |
|--|-------------------------------------|
| Programming interface                  | DALI, NFC                           |
| Dimmable                               | Yes                                 |
| Dimming interface                      | DALI / Touch DIM / Touch DIM Sensor |
| Dimming range                          | 1...100 %                           |
| Dimming method                         | DALI / TouchDIM / TouchDIM Sensor   |
| Constant lumen function                | Yes                                 |
| Overheating protection                 | Yes                                 |
| Overload protection                    | Yes                                 |
| Short-circuit protection               | Yes                                 |
| No-load proof                          | Yes                                 |
| Max. cable length to lamp/LED module   | 2.0 m                               |
| Suitable for fixtures with prot. class | I                                   |
| Suitable for emergency lighting        | Yes                                 |
| Number of channels                     | 2                                   |

### Programmable features

## Product datasheet

|                              |     |
|------------------------------|-----|
| Operating Current            | Yes |
| Tuning Factor                | Yes |
| Constant Lumen               | Yes |
| Lamp Operating Time          | Yes |
| Thermal Protection           | No  |
| Driver Guard                 | Yes |
| DALI Settings                | Yes |
| Emergency Mode               | Yes |
| Luminaire Info               | Yes |
| Configuration Lock           | Yes |
| Soft Switch Off              | Yes |
| Dim to Dark                  | Yes |
| TouchDIM + Sensor            | Yes |
| Corridor Functionality       | Yes |
| Tunable White CCT            | Yes |
| Tunable White High precision | Yes |






### Certificates & standards

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

### Logistical data

|                              |              |
|------------------------------|--------------|
| Temperature range at storage | -40...85 °C  |
| Commodity code               | 850440829000 |

### Download Data

| File  |  |
|---|--|
|  | User instruction<br>OPTOTRONIC LED Power Supply  |
|  | Certificates<br>VDE EMC Certificate 40011668   |
|  | Certificates<br>VDE ENEC Certificate 40038085  |
|  | Declarations of conformity<br>EU Declaration of Conformity 3633314   |
|  | Declarations of conformity<br>EATON(CEAG) Conformity declaration AM12456_OTI_DALI75_220_240_700_D_NFC_TW_L |

## Product datasheet



Declarations of conformity  
INOTEC Conformity declaration AM12456\_OTI\_DALI75\_220\_240\_700\_D\_NFC\_TW\_L

### Logistical Data

| Product code  | Product description                        | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume               | Gross weight |
|---------------|--|------------------------------|--------------------------------------|----------------------|--------------|
| 4052899990326 | OTi DALI<br>75/220...240/700 D NFC<br>TW L | Shipping carton box<br>20    | 385 mm x 160 mm x 100 mm             | 6.16 dm <sup>3</sup> | 5471.00 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.

### Disclaimer

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