

## PRODUCT DATASHEET

### OTi DALI 80/220...240/2A1 LT2 L

OPTOTRONIC® Intelligent | – Dimmable DALI SELV LEDset (LT2)



#### Areas of application

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

#### Product benefits

- Fully programmable via software (DALI Interface)
- Flexible current setting (LEDset2)
- Lifetime: up to 100,000 h (temperature at  $T_c = 65^\circ\text{C}$ , max. 10 % failure rate)
- High-quality dimming of 1...100 % by amplitude dimming (except 80 W versions)
- High quality of light thanks to <1% output ripple current
- Very high efficiency
- Very low standby power consumption: < 0.15 W \*
- 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 features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile DALI window driver up to 80 W due to flexible output characteristic
- Supply voltage: 220...240 V
- Available with output current range: up to 2,100 mA
- Constant Lumen Output (CLO)
- Integrated customizable thermal management (Driver Guard)
- DALI-2 certified (Part -101,-102 and -207)

## TECHNICAL DATA

### Electrical data

|                                          |                              |
|------------------------------------------|------------------------------|
| Nominal wattage                          | 80.00 W                      |
| Nominal output power                     | 32...80 W                    |
| Nominal voltage                          | 220...240 V                  |
| Nominal output voltage                   | 20...54 V <sup>1)</sup>      |
| Input voltage AC                         | 198...264 V <sup>2)</sup>    |
| Input voltage DC                         | 176...276 V                  |
| U-OUT (working voltage)                  | < 60 V                       |
| Nominal current                          | 0.42 A                       |
| Nominal output current                   | 1000...2100 mA <sup>3)</sup> |
| Inrush current                           | 53 A                         |
| Output current tolerance                 | ±3 % <sup>4)</sup>           |
| Mains frequency                          | 50/60 Hz                     |
| Total harmonic distortion                | < 20 %                       |
| Power factor $\lambda$                   | > 0.95 <sup>5)</sup>         |
| ECG efficiency                           | ≥90 % <sup>6)</sup>          |
| Device power loss                        | 10 W <sup>7)</sup>           |
| Max. ECG no. on circuit breaker 10 A (B) | 8                            |
| Max. ECG no. on circuit breaker 16 A (B) | 13                           |
| Max. ECG no. on circuit breaker 25 A (B) | -                            |
| Surge capability (L/N-Ground)            | 2 kV                         |
| Surge capability (L-N)                   | 1 kV                         |
| Galvanic isolation                       | SELV                         |
| Power loss in stand-by mode              | < 0.5 W                      |

1) Maximum 60 V

2) Permitted voltage range

3) ±5%

4) When use DALI

5) Full load at 230 V

6) At full load and 230 V

7) Maximum

### Photometrical data

|                                 |      |
|---------------------------------|------|
| Flickering metric (Pst LM)      | ≤1   |
| Stroboscope effect metric (SVM) | ≤0.4 |

### Dimensions & Weight



|                                      |                                         |
|--------------------------------------|-----------------------------------------|
| Length                               | 360.00 mm                               |
| Mounting hole spacing, length        | 350,0 mm                                |
| Width                                | 30.00 mm                                |
| Height                               | 21.00 mm                                |
| Cable cross-section, input side      | 0,5...1,5 mm <sup>2</sup> <sup>1)</sup> |
| Cable cross-section, output side     | 0,5...1,5 mm <sup>2</sup> <sup>1)</sup> |
| Wire preparation length, input side  | 8,5...9,5 mm                            |
| Wire preparation length, output side | 8,5...9,5 mm                            |
| Product weight                       | 285.00 g                                |

<sup>1)</sup> Solid or flexible leads

### Colors & materials

|                 |       |
|-----------------|-------|
| Product color   | White |
| Casing material | Metal |
| Body material   | Metal |

### Temperatures & operating conditions

|                                          |                        |
|------------------------------------------|------------------------|
| Ambient temperature range                | -25...+45 °C           |
| Maximum temperature at tc test point     | 80 °C                  |
| Max.housing temperature in case of fault | 120 °C                 |
| Permitted rel. humidity during operation | 5...85 % <sup>1)</sup> |

<sup>1)</sup> Maximum 56 days/year at 85 %

### Lifespan

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

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

### Additional product data

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

### Capabilities

|                   |                                       |
|-------------------|---------------------------------------|
| Dimmable          | Yes                                   |
| Dimming interface | DALI-2 / Touch DIM / Touch DIM Sensor |
| Dimming range     | 1...100 % <sup>1)</sup>               |

|                                        |                      |
|----------------------------------------|----------------------|
| Overheating protection                 | Automatic reversible |
| Overload protection                    | Automatic reversible |
| No-load proof                          | Yes                  |
| Short-circuit protection               | Automatic reversible |
| Max. cable length to lamp/LED module   | 2,0 m                |
| Suitable for fixtures with prot. class | I                    |
| Suitable for emergency lighting        | Yes                  |
| Type of connection, output side        | Push terminal        |

1) For maximum nominal output current

### Certificates & Standards

|                           |                                                                                                                                               |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Approval marks – approval | CE / EL / ENEC 10 / VDE-EMC / CCC / RCM                                                                                                       |
| 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 |
| Protection class          | I                                                                                                                                             |
| Type of protection        | IP20                                                                                                                                          |

### LOGISTICAL DATA

|                              |             |
|------------------------------|-------------|
| Temperature range at storage | -25...85 °C |
|------------------------------|-------------|

### Energy labelling regulation data acc EU 2019/2015

|                                 |          |
|---------------------------------|----------|
| Networked standby power for CLS | < 0.50 W |
|---------------------------------|----------|

### DOWNLOAD DATA

| DOWNLOAD DATA                                                                      |                                                                     |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------|
|  | User instruction<br>OPTOTRONIC LED Power Supply                     |
|  | PRODUCT DATASHEET<br>491386_Datasheet_OTi DALI 80/220-240/2A1 LT2 L |
|  | Certificates<br>OT FIT OTi DALI LT2 CB DE1 63464 060520             |
|  | Certificates<br>494640_CE Declaration OTi DALI linear               |
|  | Certificates<br>VDE EMC Certificate 40038827                        |
|  | Certificates<br>VDE ENEC Certificate 40038447                       |
|  | Certificates<br>489311_CB Certificate OTi DALI LT2 L                |

## DOWNLOAD DATA

|                                                                                  |                                                                    |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------|
|  | Declarations of conformity<br>EU Declaration of Conformity 3366462 |
|  | CAD data<br>OTI DALI 80 LT2 L IGS 270220                           |
|  | CAD data<br>OTI DALI 80 LT2 L STEP 270220                          |
|  | CAD data 2-dim<br>OTI DALI 80 LT2 L CAD2PDF 270220                 |
|  | CAD data 3-dim<br>546351_OTi-DALI XX LT2 L                         |
|  | CAD data 3-dim<br>OTI DALI 80 LT2 L CAD3PDF 270220                 |
|  | Advertisements<br>538835_Poster OPTOTRONIC LED drivers (EN)        |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume               |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4052899028050 | Unpacked<br>1                |                                      | 285.00 g     |                      |
| 4052899028067 | Shipping box<br>20           | 385 mm x 160 mm x 100 mm             | 5871.00 g    | 6.16 dm <sup>3</sup> |

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

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