

## PRODUCT DATASHEET

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

OPTOTRONIC Intelligent - DALI NFC (SELV) | Constant Current - Indoor



#### 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

#### Product benefits

- Fully programmable via software (DALI Interface, NFC)
- Advanced luminaire/driver data (power, energy, operating hours...) for analytics
- DALI-2 certified incl. Parts 251, 252, 253
- Lifetime: up to 100,000 h (temperature at Tc = 65 °C, max. 10 % failure rate)
- High-quality dimming of 1...100 % by amplitude dimming
- Higher quality of light thanks to < 3 % output ripple current
- Very high efficiency
- Very low standby power consumption: < 0.15 W
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

#### 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)

## 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          |
| Input voltage range                      | 220...240 V        |
| Input voltage AC                         | 198...264 V        |
| Input voltage DC                         | 176...276 V        |
| U-OUT (working voltage)                  | < 60 V             |
| Nominal output current                   | 600...2100 mA      |
| Inrush current                           | ≤30 A              |
| Output current tolerance                 | ±3 %               |
| Output ripple current (100 Hz)           | ≤ 3 %              |
| Mains frequency                          | 0/50/60 Hz         |
| Total harmonic distortion                | ≤ 10 %             |
| Power factor $\lambda$                   | ≥0.95              |
| ECG efficiency                           | 91 % <sup>1)</sup> |
| Device power loss                        | 8,0 W              |
| Max. ECG no. on circuit breaker 10 A (C) | -                  |
| Max. ECG no. on circuit breaker 16 A (C) | -                  |
| Surge capability (L/N-Ground)            | 2 kV               |
| Surge capability (L-N)                   | 1 kV               |
| Galvanic isolation                       | SELV               |
| Flickering metric (Pst LM)               | ≤1                 |

<sup>1)</sup> at 230 V, 50 Hz

### Photometrical data

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

### Dimensions & Weight

|                                  |                           |
|----------------------------------|---------------------------|
| Length                           | 360 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> |
| 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              |
| Conductor cross section              | 0.5...1.5 mm <sup>2</sup> |
| Product weight                       | 270.00 g                  |

### Colors & materials

|                 |       |
|-----------------|-------|
| Casing material | Metal |
| Body 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 % <sup>1)</sup> |

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

### Lifespan

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

### Capabilities

|                                        |                                       |
|----------------------------------------|---------------------------------------|
| Dimmable                               | Yes                                   |
| Dimming interface                      | DALI-2 / Touch DIM / Touch DIM Sensor |
| Dimming range                          | 1...100 %                             |
| 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 <sup>1)</sup>                   |
| Suitable for fixtures with prot. class | I                                     |
| Type of connection, output side        | Push terminal                         |

<sup>1)</sup> Output wires must be routed as close as possible to each other

### Certificates & Standards

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

### LOGISTICAL DATA

|                              |              |
|------------------------------|--------------|
| Temperature range at storage | -40...+85 °C |
|------------------------------|--------------|

## Energy labelling regulation data acc EU 2019/2015

|                                 |         |
|---------------------------------|---------|
| Networked standby power for CLS | ≤0.19 W |
|---------------------------------|---------|

## DOWNLOAD DATA

| Documents and certificates                                                        |                                        | Document name                   |
|-----------------------------------------------------------------------------------|----------------------------------------|---------------------------------|
|   | User instruction / safety instructions | OTI DALI 80 NFC L               |
|   | Declarations of conformity             | EU declaration OTI DALI 35, 80W |
|   | Declarations of conformity             | UK declaration OTI DALI 35, 80W |
|   | Certificates                           | VDE Certificate                 |
| CAD/BIM files                                                                     |                                        | Document name                   |
|  | CAD data 3D PDF                        | OTI DALI 80 NFC L 3DPDF         |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume               |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4062172238656 | Unpacked<br>1                |                                      | 297.00 g     |                      |
| 4062172238663 | Shipping box<br>20           | 385 mm x 160 mm x 100 mm             | 5574.00 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

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