

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

OPTOTRONIC Intelligent | – Dimmable DALI



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 family benefits

- Fully programmable via software (DALI Interface)
- Flexible current setting (LEDset2)
- Lifetime: up to 100,000 h (temperature at $T_c = 65\text{ °C}$, 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 (SELV)*, < 0.25 W (non-isolated)
- 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 90 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)
- SELV and non-isolated versions available
- 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 ¹⁾ |
| Input voltage DC | 176...276 V |
| Current set | DALI / LEDset / Programmable |
| Total harmonic distortion | < 20 % |
| Power factor λ | > 0.95 ²⁾ |
| ECG efficiency | ≥ 90 % ³⁾ |
| Device power loss | 10 W ⁴⁾ |
| Power loss in stand-by mode | <0.5 W |
| Protective conductor current | <2.0 mA |
| Inrush current | 53 A ⁵⁾ |
| 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 |
| Nominal output voltage | 20...54 V ⁶⁾ |
| U-OUT (working voltage) | < 60 V |
| Nominal output current | 1000...2100 mA ⁷⁾ |
| Output current tolerance | ± 3 % |
| Output ripple current (100 Hz) | < 1 % |
| Nominal output power | 32...80 W |
| Galvanic isolation | SELV |

¹⁾ Permitted voltage range

²⁾ Full load at 230 V

³⁾ At full load and 230 V

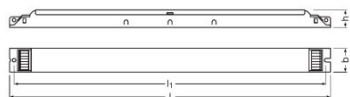
⁴⁾ Maximum

⁵⁾ At 200 μ s

⁶⁾ Maximum 60 V

⁷⁾ ± 2 %

Dimensions & weight



| | |
|---------------------------------------------|-----------------------------------------|
| Mounting hole spacing, length | 350.0 mm |
| Product weight | 285.00 g |
| Cable cross-section, input side | 0.5...1.5 mm ² ¹⁾ |
| Cable cross-section, output side | 0.5...1.5 mm ² ¹⁾ |
| 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 |

¹⁾ Solid or flexible leads

Colors & materials

| | |
|------------------------|-------|
| Casing 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 % |

Lifespan

| | |
|---------------------|--------------------------------|
| ECG lifetime | 50000 / 100000 h ¹⁾ |
|---------------------|--------------------------------|

¹⁾ At maximum T_c = 75°C / 10% failure rate / At T_c = 65°C / 10% failure rate

Additional product data

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

Capabilities

| | |
|-----------------------------------------------|-----------------------------------------------|
| Programming interface | DALI |
| Dimmable | Yes |
| Dimming interface | DALI / Touch DIM / Touch DIM Sensor |
| Dimming range | 1...100 % ¹⁾ |
| Dimming method | Amplitude Modulation / Pulse Width Modulation |
| Constant lumen function | Programmable |
| Overheating protection | Automatic reversible |
| Overload protection | Automatic reversible |
| Short-circuit protection | Automatic reversible |
| 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 |
| Type of connection, output side | Push terminal |
| Number of channels | 1 |

¹⁾ For maximum nominal output current

Programmable features

| | |
|-------------------------------|-----|
| 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 | No |
| Soft Switch Off | Yes |
| Dim to Dark | Yes |
| TouchDIM + Sensor | Yes |
| Corridor Functionality | Yes |
| OEM Key | Yes |

Certificates & standards

| | |
|----------------------------------|-----------------------------------------|
| Approval marks – approval | CE / EL / ENEC 10 / VDE-EMC / CCC / RCM |
|----------------------------------|-----------------------------------------|








Product datasheet

| | |
|---------------------------|------------------------------------------------------------------------------------------------------------------|
| 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 |
| Type of protection | IP20 |

Logistical data

| | |
|-------------------------------------|--------------|
| Temperature range at storage | -25...85 °C |
| Commodity code | 850440829000 |

Download Data

| File | |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|
|  | Product Datasheet 491386_Datasheet_OTi DALI 80220-2402A1 LT2 L |
|  | Certificates VDE ENEC Certificate 40038447 |
|  | Certificates 489311_CB Certificate OTi DALI LT2 L |
|  | Certificates 494640_CE Declaration OTi DALI linear |
|  | Certificates VDE EMC Certificate 40038827 |
|  | Declarations of conformity EU Declaration of Conformity 3366462 |
|  | CAD data 3-dim 546351_OTi-DALI XX LT2 L |

Logistical Data

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---------------|------------------------------------|------------------------------|--------------------------------------|----------------------|--------------|
| 4052899028050 | OTi DALI 80/220...240/2A1 LT2 L | Shipping carton box 20 | 385 mm x 160 mm x 100 mm | 6.16 dm ³ | 6046.00 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.