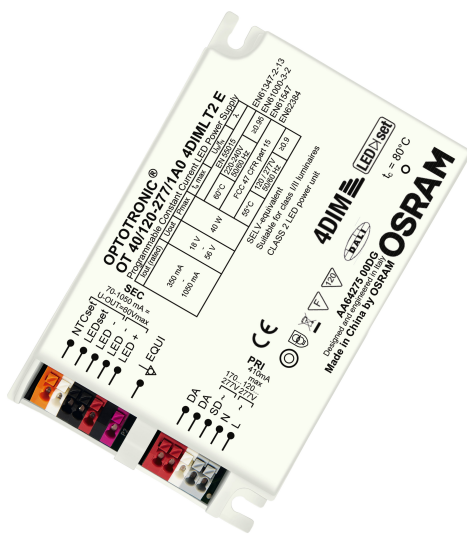


PRODUKTDATENBLATT

OT 40/120...277/1A0 4DIMLT2 E

OT 4DIM IP20 Outdoor | Konstantstrom - Außenbereich - dimmbar



Anwendungsgebiete

- Street and urban lighting
- Industry
- Suitable for outdoor applications in luminaires with IP > 54
- Suitable for use in outdoor luminaires of protection class I and II

Produktvorteile

- 4DIM functionality in one device (StepDIM, AstroDIM, MainsDIM, DALI)
- Very high efficiency
- High surge protection: up to 10 kV (1 pulse) / 8 kV, in protection class I or II
- Low luminous efficacy tolerance through low output current tolerance of $\pm 3\%$
- Great flexibility due to wide operating temperature range of $-40...55\text{ }^{\circ}\text{C}$ or $60\text{ }^{\circ}\text{C}$
- Protection through double isolation between mains input and LED output

Produkteigenschaften

- Available with different wattage: 40 W, 60 W, 90 W, 165 W
- Input voltage: 120...277 V (40 W), 220...240 V (60 W, 90 W, 165 W)
- Current output range: 70...1,050 mA
- Flexible current setting with one additional wire (LEDset2)
- AstroDIM for autonomous dimming with five independent levels (astro, time mode)
- Allows for energy saving in twilight phases
- MainsDIM function for dimming via reduction of line voltage amplitude
- Isolated DALI interface for bidirectional telemanagement systems

- Standby power consumption: < 0.5 W
- Constant Lumen Output (CLO)
- Overtemperature protection via external NTC

TECHNISCHE DATEN

Elektrische Daten

| | |
|--|---------------------------|
| Nennleistung | 40,00 W |
| Nennausgangsleistung | 40 W ¹⁾ |
| Nennspannung | 120...277 V |
| Nennausgangsspannung | 15...56 V |
| Eingangsspannung AC | 108...305 V ²⁾ |
| U-OUT (Arbeitsspannung) | 60 V |
| Nennstrom | 0 A |
| Nennausgangsstrom | 70...1050 mA |
| Einschaltstrom | 45 A |
| Ausgangsstromtoleranz | ±3 % ³⁾ |
| Output ripple current (100 Hz) | 15 % |
| Netzfrequenz | 50...60 Hz |
| Oberschwingungsgehalt | 10 % ⁴⁾ |
| Netzleistungsfaktor λ | 0,95 ⁵⁾ |
| EVG-Effizienz | 88,5 % ⁶⁾ |
| Geräteverlustleistung | 6,5 W ⁷⁾ |
| Max. Anz. EVG an Sicherungsaut. 10 A (B) | 11 ⁸⁾ |
| Max. Anz. EVG an Sicherungsaut. 16 A (B) | 17 ⁸⁾ |
| Max. Anz. EVG an Sicherungsaut. 25 A (B) | 28 ⁸⁾ |
| Stoßspannungsfestigkeit (L/N – Erde) | 10 kV ⁹⁾ |
| Stoßspannungsfestigkeit (L – N) | 6 kV ¹⁰⁾ |
| Galvanische Trennung | SELV |
| Power loss in stand-by mode [calc.] | < 0.5 W |

1) Teillast 7...40 W / Not dimmed

2) Zulässiger Spannungsbereich

3) Within nominal output current range

4) Max. Ausgangsleistung bei 230 V_{AC}

5) Minimum/Full load at 230 V/Half load at 230 V

6) At full load and 230 V

7) Maximum

8) Type B

9) Einzel Puls 10kV / 12 Ohm (1.2/50 µs)

10) @ 2 Ohm, acc. to EN61547

Maße & Gewicht

| | |
|-------|-----------|
| Länge | 123.00 mm |
|-------|-----------|

| | |
|--|---|
| Lochmaßabstand Länge | 111,0 mm |
| Breite | 79.00 mm |
| Breite (einschließlich runde Leuchten) | 79.00 mm |
| Höhe | 33.00 mm |
| Länge (einschließlich runde Leuchten) | 33.00 mm |
| Leitungsquerschnitt eingangsseitig | 0,2...1,5 mm ² ¹⁾ |
| Leitungsquerschnitt ausgangsseitig | 0,2...1,5 mm ² ²⁾ |
| Abisolierlänge eingangsseitig | 8,5...9,5 mm |
| Abisolierlänge ausgangsseitig | 8,5...9,5 mm |
| Produktgewicht | 260,00 g |

1) Biigsam / Massive Adern / Equipotential-Pin nur 0,2...1,5 mm²

2) Biigsam / Massive Adern

Farben & Materialien

| | |
|-----------------|--------|
| Gehäusematerial | Metall |
|-----------------|--------|

Temperaturen & Betriebsbedingungen

| | |
|---|------------------------|
| Umgebungstemperaturbereich | -40...+60 °C |
| Maximale Temperatur am Messpunkt tc | 80 °C ¹⁾ |
| Max. Gehäusetemperatur im Fehlerfall | 120 °C |
| Zulässige rel. Luftfeuchte beim Betrieb | 5...85 % ²⁾ |

1) Maximum am T_c-Punkt

2) Nicht kondensiert, absolute Feuchte: 36g/m³

Lebensdauer

| | |
|-----------------|-----------------------|
| EVG Lebensdauer | 85000 h ¹⁾ |
|-----------------|-----------------------|

1) Bei T_{case} = 70°C am T_c-Punkt / 10% Ausfallrate

Einsatzmöglichkeiten

| | |
|--|---|
| Dimmbar | Ja |
| DIM-Schnittstelle | 4DIM / DALI / StepDIM / AstroDIM / MainsDIM |
| Dimmbereich | 10...100 % ¹⁾ |
| Übertemperaturschutz | Automatisch reversibel |
| Überlastschutz | Automatisch reversibel |
| Kurzschlusschutz | Automatisch reversibel |
| Leerlauffestigkeit | Ja |
| Maximale Leitungslänge EVG/Lampe REM | 2,0 m |
| Geeignet für Leuchten mit Schutzklasse | I / II |

| | |
|---------------------------------|------------------|
| Type of connection, output side | Federkraftklemme |
|---------------------------------|------------------|

1) Für 700mA Nennausgangsstrom

Zertifikate & Standards

| | |
|-------------------------|---|
| Prüfzeichen - Zulassung | CE / ENEC 10 / UR / VDE / VDE-EMC / CQC |
| Normen | Gemäß EN 61347-1 / Gemäß EN 61347-2-13 / Gemäß EN 62384 / Gemäß EN 55015:2006 + A1:2007 + A2:2009 / Gemäß EN 61547 / Gemäß FCC 47 part 15 class B / Gemäß IEC 61000-3-2 / Gemäß IEC 61000-3-3 / Gemäß IEC 62386-101 / Gemäß IEC 62386-102 / Gemäß IEC 62386-207 / UL-8750 |
| Schutzklasse | II |
| Schutzart | IP20 |

LOGISTISCHE DATEN

| | |
|------------------------|-------------|
| Lagertemperaturbereich | -25...80 °C |
|------------------------|-------------|

Daten gemäß der Verordnung zur Energieverbrauchskennzeichnung EU 2019/2015

| | |
|-------------------------|-------|
| Ähnliche Farbtemperatur | RANGE |
|-------------------------|-------|

TECHNISCHE AUSSTATTUNG
















- DALI magic hardware for configuring 4DIM ECGs necessary
- Programmable via Tuner4TRONIC software

ZUSÄTZLICHE PRODUKTINFORMATIONEN

- Default output current is 700 mA without any resistor connected to the LEDset port. As soon as the driver detects one time a resistor value within the resistor range of 2.37 kOhm (1050 mA) and 24.9 kOhm (200 mA) for more than 3 s, the driver activates the LEDset2 mode.
- The driver withstands an input voltage of up to 350 Vac for a maximum of two hours. Shut down of output load might occur in case the supply voltage exceeds the declared input voltage range.
- Shut down of output load happens if the input voltage of the load is below the allowed minimum output voltage of the driver. The driver automatically tries to switch on the load cyclically.
- In case the input voltage of the load exceeds the output voltage range of the driver, it automatically reduces the output current to keep the output voltage controlled to the maximum allowed output voltage.
- The driver automatically reduces the output current in case the maximum allowed output power is exceeded.
- The driver automatically adjusts the output voltage to the maximum output voltage if no load is connected and switches off the load after some seconds. Hot-plug of the load or external switching on the secondary side is not allowed.
- The driver is protected against temporary overheating by automatic reduction of the output current down to 30 % and then switches off.
- The EQUI pin shall be connected to the heat sink of the LED module to improve the surge withstand capability of the system and EMI in critical luminaires.
- Several external NTCs are supported for temperature protection of the LED module or luminaire. The type of NTC can be selected in the programming software in the temperature based mode. By default the resistor based mode is activated with following values: start derating: 6.3 kOhm, end derating 5.0 kOhm, shut off: 4.3 kOhm, derating level 50 %.
- The default dimming mode is StepDIM / AstroDIM / DALI (wiring selection) with following values for:- StepDIM: 100 % on, 50 % dimming level if SD port is active, fade time 180 s- AstroDIM: 100 % on, 50 % dimming level, 6 h dimming duration, start of dimming duration 2 h before the middle of the average switched-on time, fade time 180 s
- The constant lumen feature is disabled by default.
- For MainsDIM dimming mode and for 170 Vac input voltage condition the output power should not exceed 85 % of the maximum declared output power.
- For input voltage of 170...190 Vac, the maximum allowed output power is linear limited starting from 100 % at 190 Vac down to 85 % at 170 Vac, except for the 40 W type.

- If any output level is below the physical min level, the physical min level will be used.
- In case the 3DIM and 4DIMLT2 devices are operated on one common control phase connected to SD input the 3DIM devices needs to have a relay as described in the 3DIM application guide.
- The SD port is suitable for three phase systems with 220...240 Vac, for other input voltages only single phase systems are supported.
- For further details please consult the 4DIMLT2 application guide.

DOWNLOADS

| DOWNLOADS | |
|--|---|
|  | Certificates VDE ENEC Certificate 40043863 |
|  | Certificates OT outdoor ENEC 40050684 100220 |
|  | Certificates 724035_INOTEC Requirements for control gears DALI V1 OT40 4DIMLT2E |
|  | Certificates VDE EMC Certificate 40038827 |
|  | Certificates 724028_EATON (CEAG)_requirements for DALI control gears LED V2.11 OT 40 4DIM LT2E |
|  | Certificates 725971_Certificate OT40 4DIM |
|  | Certificates OT 4DIM LT2 E CB DE1 63483 060520 |
|  | Certificates VDE ENEC Certificate 40043863 appendix |
|  | Certificates EAEC N RU D-DE.MYu62.B.01159 20 20.03.2020-19.03.2025 |
|  | Certificates RU C-DE AB61.B.00038 16.08.2017-15.08.2022 |
|  | Declarations of conformity 539443_UL-Certificate OT 40/120-277/1A0 4DIMLT2 E |
|  | Declarations of conformity OT 4DIMLT2E CE 3667769 211119 |
|  | Declarations of conformity 712567_Declaration of Conformity OT 4 DIM LT2 E |
|  | Declarations of conformity 607414_Synergrid Conformity 4DIMLT2 |
|  | Advertisements Poster OPTOTRONIC LED drivers (DE) |

VERPACKUNGSMITTEL

| EAN | Verpackungseinheit (Stück pro Einheit) | Abmessungen (Länge x Breite x Höhe) | Bruttogewicht | Volumen |
|---------------|--|-------------------------------------|---------------|----------------------|
| 4052899925182 | Unverpackt 1 | | 260.00 g | |
| 4052899173767 | Versandschachtel 20 | 418 mm x 255 mm x 82 mm | 5549.00 g | 8.74 dm ³ |

Die genannten Produktnummern beschreiben die kleinste bestellbare Mengeneinheit. Eine Versandeinheit kann mehrere Einzelprodukte beinhalten. Als Bestellmenge verwenden Sie bitte das Ein- oder Mehrfache einer Versandeinheit.

Haftungsausschluss

Änderungen und Irrtümer vorbehalten. Vergewissern Sie sich, dass Sie immer den neuesten Stand verwenden.