

## OT 20/170...240/1A0 4DIMLT2 G2 CE

OPTOTRONIC - 4DIM NFC IP20 | DALI-2, AstroDIM, StepDIM, MainsDIM – constant current LED drivers



### Características del producto

- Tensión de suministro: 220...240 V
- Rango de salida de corriente: 70...1.050 mA
- Ajuste de corriente flexible con un cable adicional (LEDset2)
- Permite el ahorro de energía en fases de crepúsculo
- Función MainsDIM para regular mediante la reducción de la amplitud de la tensión de línea
- Interfaz aislada DALI adecuada para sistemas de control a distancia bidireccionales
- Standby power consumption: < 0.35 W
- Protección contra sobretensión mediante NTC externo

### Beneficios del producto

- Función 4DIM en un dispositivo (StepDIM, AstroDIM, MainsDIM, DALI)
- DALI-2 certified incl. Parts 251, 252, 253
- Gran flexibilidad gracias al amplio rango de temperaturas de operatividad de -40...55°C ó 60°C
- Protección a través del doble aislamiento a través de la entrada de red y la salida LED

### Áreas de aplicación

- Iluminación de calles y urbana
- Industria
- Apto para aplicaciones en exteriores en luminarias con IP > 54
- Apto para el uso en luminarias en exteriores con clase de protección I y II



Datos técnicos

Datos eléctricos

|                                           |                             |
|-------------------------------------------|-----------------------------|
| Tensión nominal                           | 220...240 V                 |
| Tensión de entrada                        | 170...264 V                 |
| Tensión cc                                | 176...276 V <sup>1)</sup>   |
| Corriente nominal                         | 012 A                       |
| Frecuencia de red                         | 0/50/60 Hz Hz <sup>1)</sup> |
| Factor de potencia λ                      | 057C099 <sup>2)</sup>       |
| Distorsión armónica total                 | < 10 % <sup>3)</sup>        |
| Pérdida de potencia del equipo            | 3,5 W                       |
| Corriente de encendido IP                 | 25 A <sup>4)</sup>          |
| Nº de ECE máximos con automático 10 A (B) | 22                          |
| Nº de ECE máximos con automático 16 A (B) | 35                          |
| Nº de ECE máximos con automático 25 A (B) | 55                          |
| Resis. a la sobretensión (L/N-tierra)     | 10 kV                       |
| Tensión de aislamiento (L-N)              | 6 kV                        |
| Potencia de salida                        | 22 W <sup>5)</sup>          |
| Potencia de salida máxima                 | 22 W                        |
| Efficiency in full-load                   | 87 % <sup>6)</sup>          |
| Corriente de salida                       | 200...1050 mA               |
| Output current LEDset open                | 70 mA                       |
| Output current LEDset shorted             | Not allowed                 |
| Default output current                    | 700 mA                      |
| Corriente de salida tolerancia            | ±3 % <sup>7)</sup>          |
| Corriente de salida rizada (100 Hz)       | < 5 %                       |
| Output PSTLM                              | ≤1                          |
| Output SVM                                | ≤0.4                        |
| Corriente de salida mínima                | 70 mA                       |
| Aislamiento galvánico                     | SELV                        |
| Tensión de salida                         | 10...38 V                   |
| U-OUT                                     | 60 V                        |
| Núm. máx. ECEs en 16 A MCB con EBN-OS     | 93                          |
| Resist. a la sobretensión (SD - tierra)   | 10 kV                       |
| Resiste. a la sobretensión (L/N - SD)     | 6 kV                        |
| Tensión de entrada (puerto SD)            | 220...277 V                 |

1) Additional fuse needed in DC operation

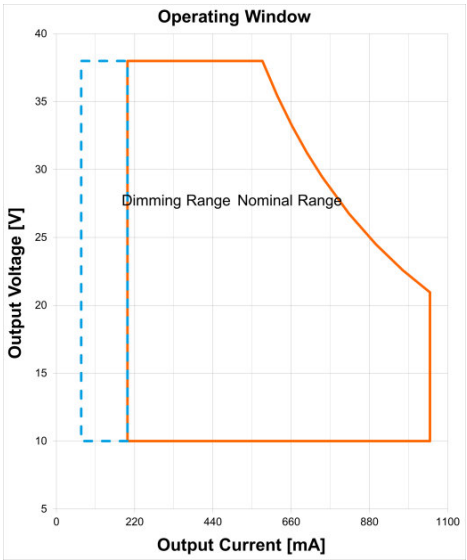
2) Full load

3) At full power

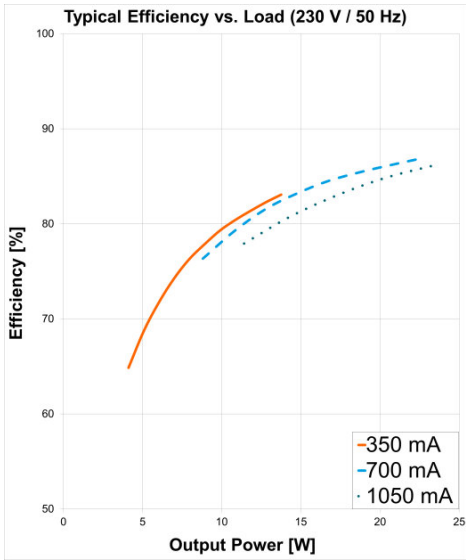
4) A 150 µs

Hoja de datos de producto

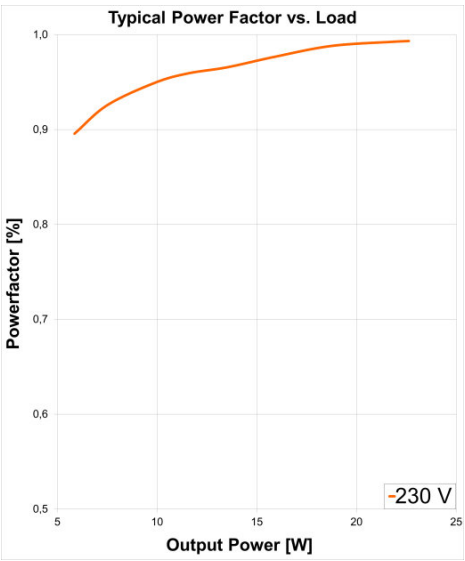
- 5) Max. 75% in DC operating mode
- 6) at 230 V, 50 Hz
- 7) +/- 5% for LEDset down to 300mA



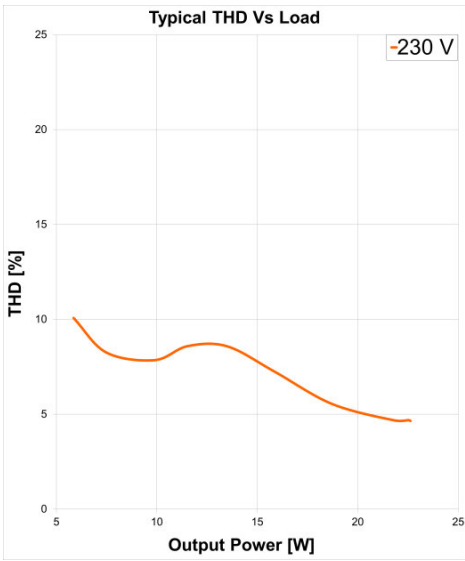
OT 20170-2401A0 4DIMLT2 G2 CE Operating Window



OT 20170-2401A0 4DIMLT2 G2 CE Typical Efficiency vs. Load (230 V 50 Hz)

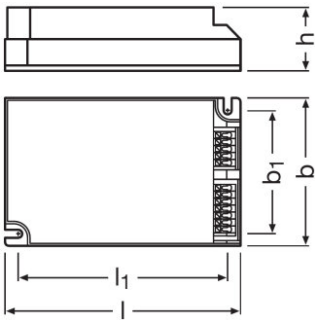


OT 20170-2401A0 4DIMLT2 G2 CE Typical Power Factor vs. Load



OT 20170-2401A0 4DIMLT2 G2 CE Typical THD Vs Load

Dimensiones y peso



|                                      |                           |
|--------------------------------------|---------------------------|
| Largo                                | 1230 mm                   |
| Ancho                                | 790 mm                    |
| Alto                                 | 330 mm                    |
| Distancia entre taladros longitud    | 111,0 mm                  |
| Distancia entre taladros anchura     | 67,0 mm                   |
| Peso del producto                    | 21000 g                   |
| Sección de cable, entrada            | 0,2...1,5 mm <sup>2</sup> |
| Sección de cable, salida             | 0,2...1,5 mm <sup>2</sup> |
| Long aislamiento parte de la entrada | 8,5...9,5 mm              |

Temp. y condiciones de funcionamiento

|                                          |                        |
|------------------------------------------|------------------------|
| Margen de temperatura ambiente           | -40...+60 °C           |
| Temperatura de almacenamiento            | -25...85 °C            |
| Temp. máx. en el punto de prueba tc      | 75 °C                  |
| Temp. máx de la carcasa en caso de fallo | 120 °C                 |
| Humedad en el aire                       | 5...95 % <sup>1)</sup> |

<sup>1)</sup> The luminaire manufacturer must ensure that condensation water cannot be created within the fixture.

Duración de vida

|               |                                |
|---------------|--------------------------------|
| ECE vida útil | 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> = 63°C / 10% failure rate

Duración

|                                      |                                  |       |       |        |
|--------------------------------------|----------------------------------|-------|-------|--------|
| Nombre del producto                  |                                  |       |       |        |
| OT 20/170...240/1A0<br>4DIMLT2 G2 CE | ECE temperatura de ambiente [ta] | 60    | 50    | 48     |
|                                      | temperatura en el punto tc [°C]  | 75    | 65    | 63     |
|                                      | vida [h]                         | 50000 | 85000 | 100000 |

Capacidades

|                                         |                                             |
|-----------------------------------------|---------------------------------------------|
| Regulable                               | Sí                                          |
| Interfaz DIM                            | 4DIM / AstroDIM / DALI / MainsDIM / StepDIM |
| Margen de regulación                    | 10...100 %                                  |
| Apto para luminarias con clase de prot. | I / II                                      |
| Función de lumen constante              | Programmable                                |
| Ent. de coeficiente de temp. negativo   | Sí                                          |
| Protección contra cortocircuito         | Automático reversible                       |
| Prueba de no carga                      | Sí                                          |
| Intended for no-load operation          | No                                          |
| Longitud cableado máx. ECE/lámpara      | 2,0 m <sup>1)</sup>                         |
| Protección contra sobrecarga            | Automático reversible                       |
| LEDset                                  | Sí                                          |
| Number of channels                      | 1                                           |
| DALI-2 Energy Data                      | Sí <sup>2)</sup>                            |
| DALI-2 Diagnostic Data                  | Sí <sup>3)</sup>                            |

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

<sup>2)</sup> Acc. DALI part 252

<sup>3)</sup> Acc. DALI part 253

Programming

|                        |            |
|------------------------|------------|
| Box programming        | Yes        |
| Tuner4TRONIC           | Sí         |
| Tuner4TRONIC Field App | Sí         |
| Programming device     | DALI / NFC |

Programmable features

|                       |                  |
|-----------------------|------------------|
| Constant Lumen        | Sí               |
| Thermal Protection    | Sí               |
| Driver Guard          | Sí               |
| AstroDIM              | Sí               |
| StepDIM               | Sí               |
| MainsDIM              | Sí               |
| Emergency Mode        | Sí               |
| Configuration Lock    | Sí               |
| DALI-2 Luminaire Data | Sí <sup>1)</sup> |

<sup>1)</sup> Acc. DALI part 251

Certificados & Normas

|                          |                                                                                                                                                                                                                                                      |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tipo de protección       | IP20                                                                                                                                                                                                                                                 |
| Normas                   | Según EN 61347-1/Según EN 61347-2-13/Según EN 62384/Según EN 55015:2006 + A1:2007 + A2:2009/Según EN 61547/Según FCC 47 parte 15 clase B/Según IEC 61000-3-2/Según IEC 61000-3-3/Según IEC 62386-101/Según IEC 62386-102/Según IEC 62386-207/UL-8750 |
| Símbolos de homologación | CCC / CE / DALI-2 / EL / ENEC / RCM / VDE / VDE-EMC                                                                                                                                                                                                  |

Datos logísticos

|                                |             |
|--------------------------------|-------------|
| Número estadístico de material | 85044083900 |
|--------------------------------|-------------|

Environmental information

| Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) |                                                                                                    |
|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Date of Declaration                                                   | 30-10-2023                                                                                         |
| Primary Article Identifier                                            | 4052899981928   4050732430770                                                                      |
| Candidate List Substance 1                                            | Lead                                                                                               |
| CAS No. of substance 1                                                | 7439-92-1                                                                                          |
| Safe Use Instruction                                                  | The identification of the Candidate List substance is sufficient to allow safe use of the article. |

Hoja de datos de producto

|                                  |                                                                             |
|----------------------------------|-----------------------------------------------------------------------------|
| Declaration No. in SCIP database | e194334f-d00d-4b07-af4a-186bf7e8f154   f078148f-0558-426b-a82f-b99e83ab5dd3 |
|----------------------------------|-----------------------------------------------------------------------------|

Texto de la hoja técni

- The luminaire manufacturer must ensure that condensation water cannot be created within the fixture and, in particular, cannot affect the functionality of the product. Failing to comply with this requirement will make invalid any warranty claim.

Descarga datos

| Fichero                                                                             |                                                                          |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
|    | User instruction<br>OPTOTRONIC Outdoor                                   |
|    | Folleto de ventas<br>4 DIM NFC G3 CE LED drivers and T4T C (EN)          |
|    | Certificados<br>RCM Certificate CS10824N                                 |
|    | Certificados<br>OT VDE ENEC 40050684 290923                              |
|  | Certificados<br>OT Outdoor CB DE1 62952A1 220920                         |
|  | Certificados<br>OT EMC 40050085 200220                                   |
|  | Certificados<br>OT 20 4DIM LT2 G2 EATON AM35336 210520                   |
|  | Certificados<br>OT 20 4DIM LT2 G2 INOTEC AM35336 210520                  |
|  | Certificados<br>OT Outdoor CB DE1 62952A2 220920                         |
|  | Certificados<br>OT Outdoor VDE TESTREPORT 276377 220920                  |
|  | Certificados<br>VDE ENEC Certificate 40043863                            |
|  | Certificados<br>CB Certificate DE1-59452                                 |
|  | Certificados<br>VDE ENEC Certificate 40043863 appendix                   |
|  | Certificados<br>OT EMC 40044675 031022                                   |
|  | Certificados<br>CCC Certificate 2018171002002021                         |
|  | Declaración de conformidad<br>OT 1DIMLT2 G1 4DIMLT2 G2 CE 3806542 061221 |
|  | Declaración de conformidad<br>OT DIM LT2 CE UK DoC 4291524 260221        |

Hoja de datos de producto

|                                                                                   |                                                                                                         |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
|  | Declaración de conformidad<br>EATON(CEAG)-Conformity declaration AM04626_OT20_170-240_1A0_4DIMLT2_G2_CE |
|  | Declaración de conformidad<br>INOTEC- Conformity declaration AM04626_OT20_170-240_1A0_4DIMLT2_G2_CE     |
|  | Declaración de conformidad<br>EU Declaration of Conformity 3584649                                      |
|  | Datos CAD<br>CAD data STEP OT 20170-2401A0 4DIMLT2 G2 CE                                                |
|  | Datos CAD<br>OT 20 4DIMLT2G2CE IGS 060820                                                               |
|  | Datos CAD<br>OT 20 4DIMLT2G2CE STEP 060820                                                              |
|  | Datos CAD 2-dim<br>OT 20 4DIMLT2G2CE CAD2PDF 060820                                                     |
|  | Datos CAD 3-dim<br>OT 20 4DIMLT2G2CE CAD3PDF 060820                                                     |

Ecodesign regulation information:

Intended for use with LED modules.  
The forward voltage of the LED light source shall be within the defined operating window of the control gear in all operating conditions including dimming if applicable.

Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.

| ISOLATION     | Input / Mains | SD     | EQUI   | DALI   | LEDset | LED Output | Case   | NTC    |
|---------------|---------------|--------|--------|--------|--------|------------|--------|--------|
| Input / Mains | -             | -      | Double | Basic  | SELV   | SELV       | Double | SELV   |
| SD            | -             | -      | Double | Basic  | Double | Double     | Double | Double |
| EQUI          | Double        | Double | -      | Double | Basic  | Basic      | Basic  | Double |
| DALI          | Basic         | Basic  | Double | -      | Double | Double     | Double | Double |
| LEDset        | SELV          | Double | Basic  | Double | -      | -          | Basic  | -      |
| LED Output    | SELV          | Double | Basic  | Double | -      | -          | Basic  | -      |
| Case          | Double        | Double | Basic  | Double | Basic  | Basic      | -      | Basic  |
| NTC           | SELV          | Double | Double | Double | -      | -          | Basic  | -      |

Logistical Data

| Código del producto | Descripción del producto          | Unidad de embalaje (Piezas/unidad) | Dimensiones (largo x ancho x alto) | Volúmen              | Peso bruto |
|---------------------|-----------------------------------|------------------------------------|------------------------------------|----------------------|------------|
| 4052899981928       | OT 20/170...240/1A0 4DIMLT2 G2 CE | Embalaje de envío 10               | 280 mm x 175 mm x 102 mm           | 5.00 dm <sup>3</sup> | 2279.00 g  |

El código del producto mencionado describe la unidad más pequeña de la cantidad que se puede pedir. Una unidad de envío puede contener uno o más productos individuales. Al cursar un pedido, introduzca la cantidad de la unidad de envío o su múltiple.

Privacidad de datos

This OSRAM driver can be configured using the Tuner4TRONIC software. This requires registering on [www.myosram.com](http://www.myosram.com) and downloading theTuner4TRONIC software from the Internet. The Tuner4TRONIC software enables users to access and view the operational data of a luminaire or driver via the corresponding programming interfaces. A password key (Config Lock) must be set up in the driver via the Tuner4TRONIC software in order to control which users can access and view operational data. Follow the instructions for password setup. To grant an external person or company rights to access or view operational data, you can assign password keys. In this case, however, you are responsible for ensuring that the third party concerned takes notice of the information described here. However, OSRAM can read out operating data from devices for maintenance and service purposes even when a password key has been assigned. In individual cases, OSRAM will also use its access rights in order to optimize or improve driver hardware and driver functions. In accordance with data privacy principles, any user of operating data (luminaire manufacturers, third parties with access rights) must ensure that personal data (e.g. name, address, location IDs) are only merged with the prior written consent of the person (end user) concerned. The respective user of the operating data is responsible for providing evidence of consent.

Aviso

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