

## OPTOTRONIC - 2DIM NFC IP67

2DIM, NFC – constant current LED drivers



### Caratteristiche prodotto

- Wide output current range
- Adjustable and Constant Lumen Output (CLO)
- Protezione da corto circuiti, sovraccarichi e sovratemperature
- 1...10 V dimming (minimum 10%)

### Vantaggi prodotto

- Easily programmable by NFC (AstroDIM / Constant lumen)
- Elevata protezione contro picchi di tensione: fino a 10 kV
- Lifetime: up to 100,000 h

### Aree applicative

- Illuminazione stradale e urbana
- Industry lighting
- Adatto per apparecchi di illuminazione con classe di protezione I

Scheda della famiglia di prodotto

Dati tecnici

| Descrizione del prodotto    | Dati elettrici    |                      |                   |                   |                      |                           |
|-----------------------------|-------------------|----------------------|-------------------|-------------------|----------------------|---------------------------|
|                             | Tensione nominale | Tensione in ingresso | Corrente nominale | Frequenza di rete | Fattore di potenza λ | Total harmonic distortion |
| OT 100/ 220-240/1A4 2DIM P7 | 220...240 V       | 198...264 V          | 050 A             | 50...60 Hz        | ≥ 095                | < 10 % <sup>1)</sup>      |
| OT 150/ 220-240/1A4 2DIM P7 | 220...240 V       | 198...264 V          | 073 A             | 50...60 Hz        | ≥ 095                | < 10 % <sup>1)</sup>      |
| OT 200/ 220-240/1A4 2DIM P7 | 220...240 V       | 198...264 V          | 1 A               | 50...60 Hz        | ≥ 095                | < 10 % <sup>1)</sup>      |
| OT 240/ 220-240/1A0 2DIM P7 | 220...240 V       | 198...264 V          | 115 A             | 50...60 Hz        | ≥ 095                | < 10 % <sup>1)</sup>      |

| Descrizione del prodotto    | Perdita di potenza | Corrente di innesco | Numero max di ECG con autom. da 10 A | No. max di ECG p. circuito autom. 16 A | Numero max di ECG con autom. da 25 A (B) | Resistenza ai transitori (L/N-terra) |
|-----------------------------|--------------------|---------------------|--------------------------------------|----------------------------------------|------------------------------------------|--------------------------------------|
| OT 100/ 220-240/1A4 2DIM P7 | 11 W               | 62 A <sup>2)</sup>  | 8                                    | 13                                     | 21                                       | 10 kV                                |
| OT 150/ 220-240/1A4 2DIM P7 | 13 W               | 96 A <sup>7)</sup>  | 5                                    | 8                                      | 13                                       | 10 kV                                |
| OT 200/ 220-240/1A4 2DIM P7 | 17 W               | 98 A <sup>8)</sup>  | 3                                    | 5                                      | 7                                        | 10 kV                                |
| OT 240/ 220-240/1A0 2DIM P7 | 17 W               | 139 A <sup>8)</sup> | 3                                    | 5                                      | 7                                        | 10 kV                                |

| Descrizione del prodotto    | Resistenza ai transitori (L/N) | Potenza in uscita | Maximum output power | Efficiency in full-load | Corrente in uscita |
|-----------------------------|--------------------------------|-------------------|----------------------|-------------------------|--------------------|
| OT 100/ 220-240/1A4 2DIM P7 | 6 kV                           | 50...100 W        | 100 W                | 91 % <sup>3)</sup>      | 700...1400 mA      |
| OT 150/ 220-240/1A4 2DIM P7 | 6 kV                           | 75...150 W        | 150 W                | 92 % <sup>3)</sup>      | 700...1400 mA      |
| OT 200/ 220-240/1A4 2DIM P7 | 6 kV                           | 100...200 W       | 200 W                | 92 % <sup>3)</sup>      | 700...1400 mA      |
| OT 240/ 220-240/1A0 2DIM P7 | 6 kV                           | 120...240 W       | 240 W                | 93.5 % <sup>3)</sup>    | 700...1050 mA      |

| Descrizione del prodotto    | Default output current | Output current tolerance | Output ripple current (100 Hz) | Minimum output current | Galvanic isolation |
|-----------------------------|------------------------|--------------------------|--------------------------------|------------------------|--------------------|
| OT 100/ 220-240/1A4 2DIM P7 | 700 mA                 | ±5 %                     | < ±5 %                         | 400 mA                 | Double             |
| OT 150/ 220-240/1A4 2DIM P7 | 700 mA                 | ±5 %                     | < ±5 %                         | 400 mA                 | basic              |
| OT 200/ 220-240/1A4 2DIM P7 | 700 mA                 | ±5 %                     | < ±5 %                         | 400 mA                 | basic              |
| OT 240/ 220-240/1A0 2DIM P7 | 700 mA                 | ±5 %                     | < ±5 %                         | 400 mA                 | basic              |

| Descrizione del prodotto    | Tensione in uscita | U-OUT | Dimensioni e peso |           |         |
|-----------------------------|--------------------|-------|-------------------|-----------|---------|
|                             |                    |       | Lunghezza         | Larghezza | Altezza |
| OT 100/ 220-240/1A4 2DIM P7 | 72...144 V         | 200 V | 1644 mm           | 685 mm    | 396 mm  |
| OT 150/ 220-240/1A4 2DIM P7 | 107...214 V        | 250 V | 2034 mm           | 685 mm    | 396 mm  |
| OT 200/ 220-240/1A4 2DIM P7 | 121...286 V        | 350 V | 2284 mm           | 685 mm    | 396 mm  |
| OT 240/ 220-240/1A0 2DIM P7 | 228...343 V        | 450 V | 2524 mm           | 685 mm    | 396 mm  |

Scheda della famiglia di prodotto

| Descrizione del prodotto    | Distanza tra fori di fissaggi-lunghezza | Distanza tra fori di fissaggio-larghezza | Peso prodotto | Sezione dei cavi, lato ingresso | Sezione dei cavi, lato uscita | Spellatura dei cavi in ingresso |
|-----------------------------|-----------------------------------------|------------------------------------------|---------------|---------------------------------|-------------------------------|---------------------------------|
| OT 100/ 220-240/1A4 2DIM P7 | 151.6 mm                                | 42,9 mm                                  | 72000 g       | 1,0 mm <sup>2</sup>             | 1,0 mm <sup>2</sup>           | 10 mm                           |
| OT 150/ 220-240/1A4 2DIM P7 | 190.6 mm                                | 42,9 mm                                  | 92000 g       | 1,0 mm <sup>2</sup>             | 1,0 mm <sup>2</sup>           | 10 mm                           |
| OT 200/ 220-240/1A4 2DIM P7 | 215.6 mm                                | 42,9 mm                                  | 100000 g      | 1,0 mm <sup>2</sup>             | 1,0 mm <sup>2</sup>           | 10 mm                           |
| OT 240/ 220-240/1A0 2DIM P7 | 239.6 mm                                | 42,9 mm                                  | 120000 g      | 1,0 mm <sup>2</sup>             | 1,0 mm <sup>2</sup>           | 10 mm                           |

| Descrizione del prodotto    | Spellatura dei cavi in uscita | Lunghezza cavi in uscita | Cable/wire length, control input | Lunghezza cavi in ingresso |
|-----------------------------|-------------------------------|--------------------------|----------------------------------|----------------------------|
| OT 100/ 220-240/1A4 2DIM P7 | 10 mm                         | 300±20 mm                | 220±20 mm                        | 590±20 mm                  |
| OT 150/ 220-240/1A4 2DIM P7 | 10 mm                         | 300±20 mm                | 220±20 mm                        | 590±20 mm                  |
| OT 200/ 220-240/1A4 2DIM P7 | 10 mm                         | 300±20 mm                | 220±20 mm                        | 590±20 mm                  |
| OT 240/ 220-240/1A0 2DIM P7 | 10 mm                         | 300±20 mm                | 220±20 mm                        | 590±20 mm                  |

| Descrizione del prodotto    | Colori e materiali       | Temperature e condizioni di utilizzo |                           |                                          |                                          |
|-----------------------------|--------------------------|--------------------------------------|---------------------------|------------------------------------------|------------------------------------------|
|                             | Materiale dell'involucro | Temperatura ambiente                 | Temperatura di stoccaggio | Temperatura massima nel punto di prova T | Max temp involucro in caso di malfunzion |
| OT 100/ 220-240/1A4 2DIM P7 | Aluminium                | -40...+55 °C                         | -40...+85 °C              | 85 °C                                    | 120 °C                                   |
| OT 150/ 220-240/1A4 2DIM P7 | Aluminium                | -40...+55 °C                         | -40...+85 °C              | 85 °C                                    | 120 °C                                   |
| OT 200/ 220-240/1A4 2DIM P7 | Aluminium                | -40...+55 °C                         | -40...+85 °C              | 90 °C                                    | 120 °C                                   |
| OT 240/ 220-240/1A0 2DIM P7 | Aluminium                | -40...+55 °C                         | -40...+85 °C              | 85 °C                                    | 120 °C                                   |

| Descrizione del prodotto    | Umidità relativa       | Durata                         | Caratteristiche |                                              |                      |
|-----------------------------|------------------------|--------------------------------|-----------------|----------------------------------------------|----------------------|
|                             |                        | Durata ECG                     | Dimmerabile     | Interfaccia per la regolazione               | Campo di regolazione |
| OT 100/ 220-240/1A4 2DIM P7 | 5...95 % <sup>4)</sup> | 50000 / 100000 h <sup>5)</sup> | Sì              | AstroDIM / 1...10 V / Pulse Width Modulation | 10...100 %           |
| OT 150/ 220-240/1A4 2DIM P7 | 5...95 % <sup>4)</sup> | 50000 / 100000 h <sup>5)</sup> | Sì              | AstroDIM / 1...10 V / Pulse Width Modulation | 10...100 %           |
| OT 200/ 220-240/1A4 2DIM P7 | 5...95 % <sup>4)</sup> | 50000 / 100000 h <sup>5)</sup> | Sì              | AstroDIM / 1...10 V / Pulse Width Modulation | 10...100 %           |
| OT 240/ 220-240/1A0 2DIM P7 | 5...95 % <sup>4)</sup> | 50000 / 100000 h <sup>9)</sup> | Sì              | AstroDIM / 1...10 V / Pulse Width Modulation | 10...100 %           |

Scheda della famiglia di prodotto

| Descrizione del prodotto    | Idoneo per apparecchi con vetro frontale | Constant Lumen Function | Ingresso coefficiente temperatura negati | Protezione contro i corto circuiti |
|-----------------------------|------------------------------------------|-------------------------|------------------------------------------|------------------------------------|
| OT 100/ 220-240/1A4 2DIM P7 | I                                        | Sì                      | No                                       | Reversibile automatico             |
| OT 150/ 220-240/1A4 2DIM P7 | I                                        | Sì                      | No                                       | Reversibile automatico             |
| OT 200/ 220-240/1A4 2DIM P7 | I                                        | Sì                      | No                                       | Reversibile automatico             |
| OT 240/ 220-240/1A0 2DIM P7 | I                                        | Sì                      | No                                       | Reversibile automatico             |

| Descrizione del prodotto    | Prova funzionamento a vuoto | Intended for no-load operation | Lunghezza massima cavi ECG/lampada | Number of channels |
|-----------------------------|-----------------------------|--------------------------------|------------------------------------|--------------------|
| OT 100/ 220-240/1A4 2DIM P7 | Automatic reversible        | No                             | 2,0 m <sup>6)</sup>                | 1                  |
| OT 150/ 220-240/1A4 2DIM P7 | Automatic reversible        | No                             | 2,0 m <sup>6)</sup>                | 1                  |
| OT 200/ 220-240/1A4 2DIM P7 | Automatic reversible        | No                             | 2,0 m <sup>6)</sup>                | 1                  |
| OT 240/ 220-240/1A0 2DIM P7 | Automatic reversible        | No                             | 2,0 m <sup>6)</sup>                | 1                  |

|                             |                                   | Programming  |                    | Certificati, Norme, Direttive |
|-----------------------------|-----------------------------------|--------------|--------------------|-------------------------------|
| Descrizione del prodotto    | Protezione contro il sovraccarico | Tuner4TRONIC | Programming device | Grado di protezione           |
| OT 100/ 220-240/1A4 2DIM P7 | Reversibile automatico            | Sì           | NFC                | IP67                          |
| OT 150/ 220-240/1A4 2DIM P7 | Reversibile automatico            | Sì           | NFC                | IP67                          |
| OT 200/ 220-240/1A4 2DIM P7 | Reversibile automatico            | Sì           | NFC                | IP67                          |
| OT 240/ 220-240/1A0 2DIM P7 | Reversibile automatico            | Sì           | NFC                | IP67                          |

|                             |                                                                                                                                                        |                                 | Dati logistici          | Environmental information<br>Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------|----------------------------------------------------------------------------------------------------|
| Descrizione del prodotto    | Norme                                                                                                                                                  | Marchi di approvazione          | Codice prodotto di base | Date of Declaration                                                                                |
| OT 100/ 220-240/1A4 2DIM P7 | Secondo EN 61347-1/Secondo EN 61347-2-13/Secondo EN 55015/Secondo EN 61547/Secondo EN 61000-3-2/Secondo EN 61000-3-3/Secondo EN 62384/EN 60598-1(ED.8) | CE / CCC / RCM / ENEC 05 / TISI | 85044083900             | 26-10-2023                                                                                         |
| OT 150/ 220-240/1A4 2DIM P7 | Secondo EN 61347-1/Secondo EN 61347-2-13/Secondo EN 55015/Secondo EN 61547/Secondo EN 61000-3-2/Secondo EN 61000-3-3/Secondo EN 62384/EN 60598-1(ED.8) | CE / CCC / RCM / ENEC 05 / TISI | 85044083900             | 26-10-2023                                                                                         |

Scheda della famiglia di prodotto

|                             |                                                                                                                                                        |                                 | Dati logistici          | Environmental information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------|-------------------------------------------------------------------------------------|
| Descrizione del prodotto    | Norme                                                                                                                                                  | Marchi di approvazione          | Codice prodotto di base | Date of Declaration                                                                 |
| OT 200/ 220-240/1A4 2DIM P7 | Secondo EN 61347-1/Secondo EN 61347-2-13/Secondo EN 55015/Secondo EN 61547/Secondo EN 61000-3-2/Secondo EN 61000-3-3/Secondo EN 62384/EN 60598-1(ED.8) | CE / CCC / RCM / ENEC 05 / TISI | 85044083900             | 26-10-2023                                                                          |
| OT 240/ 220-240/1A0 2DIM P7 | Secondo EN 61347-1/Secondo EN 61347-2-13/Secondo EN 55015/Secondo EN 61547/Secondo EN 61000-3-2/Secondo EN 61000-3-3/Secondo EN 62384/EN 60598-1(ED.8) | CE / CCC / RCM / ENEC 05 / TISI | 85044083900             | 26-10-2023                                                                          |

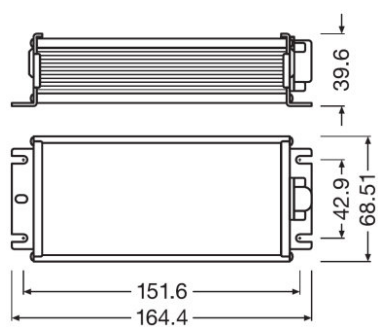
| Descrizione del prodotto    | Primary Article Identifier | Candidate List Substance 1 | CAS No. of substance 1 | Safe Use Instruction                                                                               |
|-----------------------------|----------------------------|----------------------------|------------------------|----------------------------------------------------------------------------------------------------|
| OT 100/ 220-240/1A4 2DIM P7 | 4062172060677              | Lead                       | 7439-92-1              | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| OT 150/ 220-240/1A4 2DIM P7 | 4062172060691              | Lead                       | 7439-92-1              | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| OT 200/ 220-240/1A4 2DIM P7 | 4062172069649              | Lead                       | 7439-92-1              | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| OT 240/ 220-240/1A0 2DIM P7 | 4062172069663              | Lead                       | 7439-92-1              | The identification of the Candidate List substance is sufficient to allow safe use of the article. |

Scheda della famiglia di prodotto

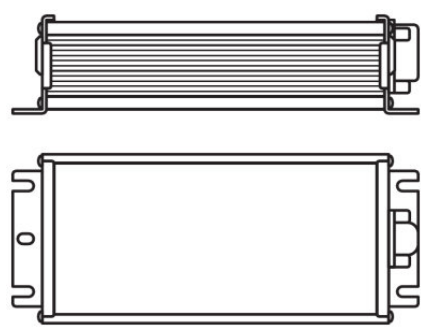
| Descrizione del prodotto    | Declaration No. in SCIP database     |
|-----------------------------|--------------------------------------|
| OT 100/ 220-240/1A4 2DIM P7 | 7aedf4ac-7bf9-4b37-9aaa-52cb6188fe41 |
| OT 150/ 220-240/1A4 2DIM P7 | 63c17eaf-68dc-4b90-84ec-6e018b616576 |
| OT 200/ 220-240/1A4 2DIM P7 | 31d9d9d9-be37-472c-b1d5-4744d09a3f5b |
| OT 240/ 220-240/1A0 2DIM P7 | 63be9521-1cbc-4f6a-afde-bfb3897131d8 |

- 1) At full load
- 2) Max, th = 155µs
- 3) at 230 V, 50 Hz
- 4) Non condensing, absolute humidity: 36g/m³
- 5) At maximum T<sub>c</sub> = 85°C / 10% failure rate
- 6) Output wires must be routed as close as possible to each other
- 7) Max, th = 160µs
- 8) Max, th = 260µs
- 9) At maximum T<sub>c</sub> = 80°C / 10% failure rate

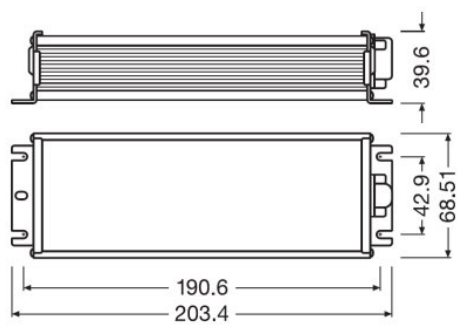
Scheda della famiglia di prodotto



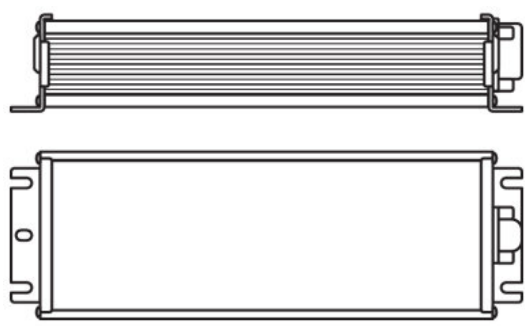
OT 100W 2DIM P7



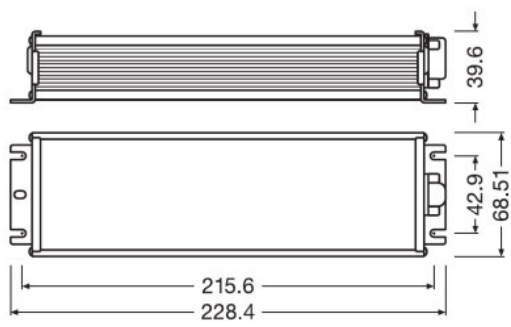
OT 100W 2DIM P7



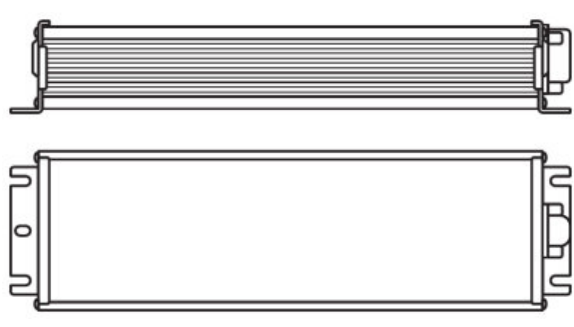
OT 150W 2DIM P7



OT 150W 2DIM P7

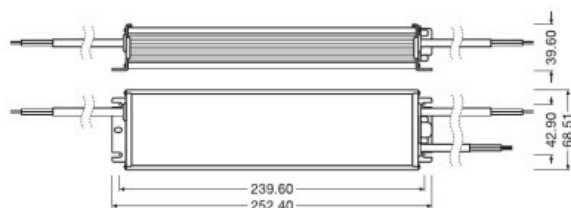


OT 200W 2DIM P7



OT 200W 2DIM P7

## Scheda della famiglia di prodotto



Line Drawing of OT 240W 2DIM P7

### Consigli di applicazione

Per informazioni più dettagliate e grafici consultare la scheda tecnica

### Testo delle specifiche

- Input overvoltage protection: the driver withstands an input voltage up to 350 Vac for a maximum of two hours, shut down of the output load might occur in case the supply voltage exceeds the declared input voltage range;
- Output short circuit protection: short circuit current is limited to the actual output current setting without damage to the unit. See typical operating window graph for details;
- Input voltage range: Nominal operation at 198 – 264Vac. Workable at 120 – 277Vac without safety issue (refer to [8] Typical Input Voltage vs. Load), but normal performance such as THD, EMI, lifetime etc are not guaranteed;
- Over temperature protection: the driver is protected against temporary overheating by shutting down until the overheating eliminated; Auto-reversible when temperature back to normal;
- Not suitable to be mounted in ceiling corner
- The LED control gear cannot be abutted against or covered by normally flammable materials or used in installations where building insulation or debris is, or may be, present in normal use.
- The external flexible cable or cord of this driver cannot be replaced; if the cord is damaged, the driver shall be destroyed.
- The dimmer should fulfill at least basic insulation between control voltage and dimming circuit (for Australia and New Zealand).
- The startup time to reach the set output current is less than 2s.
- The protective earth (GNYE/PE wire, housing) has to be connected to the heat sink of the LED module to improve the capability of the system to withstand a surge and EMI in critical luminaires.
- For further details please consult the 2DIMLT2 application guide.
- Output over load/voltage protection: In case the input voltage of the load exceeds the output voltage range which is auto defined by output current setting of the driver ( $V_o = P_o / I_o$ ), it automatically reduces the output current. Auto-reversible without mains power on/off;
- No load protection: the driver automatically adjusts the output voltage to the maximum output voltage which is auto defined by output current setting if no load is connected. Auto-reversible with the correct load connected;

### Supporto tecnico e di vendita

Supporto tecnico e di vendita [www.osram.it](http://www.osram.it)

Scheda della famiglia di prodotto

Download dati

| File                                                                               |                                                   |
|------------------------------------------------------------------------------------|---------------------------------------------------|
|   | User instruction<br>OPTOTRONIC 2DIM P7            |
|   | Certificati<br>ENEC Certificate                   |
|   | Dati CAD<br>OT 100 P7 STEP 300323                 |
|   | Dati CAD<br>OT 150 P7 STEP 300323                 |
|   | Dati CAD<br>OT 200 P7 STEP 300323                 |
|   | Certificati<br>CB certification OT 240W 2DIM P7   |
|   | Certificati<br>CCC certificate OT 240W 2DIM P7    |
|   | Certificati<br>ENEC certification OT 240W 2DIM P7 |
|  | Dati CAD<br>OT 240 2DIM P7 STEP 300323            |

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.

Dati logistici

| Codice prodotto | Descrizione del prodotto    | Unità di imballo (Pezzi/unità) | Dimensioni (lunghezza x profondità x altezza) | Volume                | Peso lordo |
|-----------------|-----------------------------|--------------------------------|-----------------------------------------------|-----------------------|------------|
| 4062172060677   | OT 100/ 220-240/1A4 2DIM P7 | Cartone di spedizione 10       | 469 mm x 253 mm x 128 mm                      | 15.19 dm <sup>3</sup> | 8010.00 g  |
| 4062172060691   | OT 150/ 220-240/1A4 2DIM P7 | Cartone di spedizione 10       | 469 mm x 289 mm x 128 mm                      | 17.35 dm <sup>3</sup> | 10136.00 g |

Scheda della famiglia di prodotto

Dati logistici

|               |                                |                             |                          |                       |            |
|---------------|--------------------------------|-----------------------------|--------------------------|-----------------------|------------|
| 4062172069649 | OT 200/ 220-240/1A4<br>2DIM P7 | Cartone di spedizione<br>10 | 495 mm x 309 mm x 130 mm | 19.88 dm <sup>3</sup> | 10994.00 g |
| 4062172069663 | OT 240/ 220-240/1A0<br>2DIM P7 | Cartone di spedizione<br>10 | 495 mm x 333 mm x 130 mm | 21.43 dm <sup>3</sup> | 13078.00 g |

1)☒ codice prodotto indicato descrive la minore quantità che può essere ordinata. Una unità di spedizione può contenere uno o più di un singolo prodotto. Quando si inserisce un ordine, per la quantità inserire una o più unità di spedizione.

Norme sulla privacy

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.

Clausola

Con riserva di modifiche senza preavviso. Salvo errori o omissioni. Assicurarsi sempre di utilizzare la versione più recente.