

## OPTOTRONIC - 4DIM NFC IP20

DALI-2, AstroDIM, StepDIM, MainsDIM – constant current LED drivers



### Product family features

- Supply voltage: 220...240 V
- Current output range: 70...1,050 mA
- Easy and fast wireless luminaire programming via NFC
- 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: < 0.35 W
- Constant Lumen Output (CLO)
- Overtemperature protection via external NTC
- Integrated customizable thermal management (Driver Guard)

### Product family benefits

- 4DIM functionality in one device (StepDIM, AstroDIM, MainsDIM, DALI)
- DALI-2 certified incl. Parts 251, 252, 253
- Easy and fast wireless luminaire programming
- Very high efficiency
- Wide current output range: 200 mA...1050 mA
- High surge protection: up to 10 kV (in protection class I or II)
- Great flexibility due to wide operating temperature range of -40...55 °C or 60 °C
- Protection through double isolation between mains input and LED output

### Areas of application

- 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



## Product family datasheet

### Technical data

| Product description                | Electrical data |                  |                           |                 |                          |                          |
|------------------------------------|-----------------|------------------|---------------------------|-----------------|--------------------------|--------------------------|
|                                    | Nominal voltage | Input voltage AC | Input voltage DC          | Nominal current | Mains frequency          | Power factor $\lambda$   |
| OT 20/170...240/1A0 4DIMLT2 G2 CE  | 220...240 V     | 170...264 V      | 176...276 V <sup>1)</sup> | 012 A           | 0/50/60 Hz <sup>1)</sup> | 057C099 <sup>2)</sup>    |
| OT 40/170...240/1A0 4DIMLT2 G2 CE  | 220...240 V     | 170...264 V      | 176...276 V <sup>1)</sup> | 020 A           | 0/50/60 Hz <sup>1)</sup> | 052C...099 <sup>2)</sup> |
| OT 75/170...240/1A0 4DIMLT2 G2 CE  | 220...240 V     | 170...264 V      | 176...276 V <sup>1)</sup> | 037 A           | 0/50/60 Hz <sup>1)</sup> | 058C...099 <sup>2)</sup> |
| OT 110/170...240/1A0 4DIMLT2 G2 CE | 220...240 V     | 170...264 V      | 176...276 V <sup>1)</sup> | 052 A           | 0/50/60 Hz <sup>1)</sup> | 074C099 <sup>2)</sup>    |
| OT 165/170...240/1A0 4DIMLT2 G2 CE | 220...240 V     | 170...264 V      | 176...276 V <sup>1)</sup> | 076 A           | 0/50/60 Hz <sup>1)</sup> | 085C...099 <sup>2)</sup> |

| Product description                | Total harmonic distortion | Device power loss | Inrush current      | Max. ECG no. on circuit breaker 10 A (B) | Max. ECG no. on circuit breaker 16 A (B) | Max. ECG no. on circuit breaker 25 A (B) |
|------------------------------------|---------------------------|-------------------|---------------------|------------------------------------------|------------------------------------------|------------------------------------------|
| OT 20/170...240/1A0 4DIMLT2 G2 CE  | < 10 % <sup>3)</sup>      | 3.5 W             | 25 A <sup>4)</sup>  | 22                                       | 35                                       | 55                                       |
| OT 40/170...240/1A0 4DIMLT2 G2 CE  | < 10 % <sup>3)</sup>      | 4.5 W             | 26 A <sup>14)</sup> | 17                                       | 28                                       | 44                                       |
| OT 75/170...240/1A0 4DIMLT2 G2 CE  | < 5 % <sup>3)</sup>       | 5.3 W             | 54 A <sup>16)</sup> | 8                                        | 12                                       | 20                                       |
| OT 110/170...240/1A0 4DIMLT2 G2 CE | < 5 % <sup>3)</sup>       | 8.0 W             | 65 A <sup>18)</sup> | 7                                        | 12                                       | 19                                       |
| OT 165/170...240/1A0 4DIMLT2 G2 CE | < 5 % <sup>3)</sup>       | 11.5 W            | 77 A <sup>14)</sup> | 5                                        | 9                                        | 14                                       |

| Product description                | Surge capability (L/N-Ground) | Surge capability (L-N) | Nominal output power | Maximum output power | Efficiency in full-load |
|------------------------------------|-------------------------------|------------------------|----------------------|----------------------|-------------------------|
| OT 20/170...240/1A0 4DIMLT2 G2 CE  | 10 kV                         | 6 kV                   | 22 W <sup>5)</sup>   | 22 W                 | 87 % <sup>6)</sup>      |
| OT 40/170...240/1A0 4DIMLT2 G2 CE  | 10 kV                         | 6 kV                   | 40 W <sup>5)</sup>   | 40 W                 | 90 % <sup>6)</sup>      |
| OT 75/170...240/1A0 4DIMLT2 G2 CE  | 10 kV                         | 6 kV                   | 75 W <sup>5)</sup>   | 75 W                 | 93 % <sup>6)</sup>      |
| OT 110/170...240/1A0 4DIMLT2 G2 CE | 10 kV                         | 6 kV                   | 110 W <sup>5)</sup>  | 110 W                | 93 % <sup>6)</sup>      |
| OT 165/170...240/1A0 4DIMLT2 G2 CE | 10 kV                         | 6 kV                   | 165 W <sup>5)</sup>  | 165 W                | 93.5 % <sup>6)</sup>    |

| Product description                | Nominal output current | Output current LEDset open | Output current LEDset shorted | Default output current |
|------------------------------------|------------------------|----------------------------|-------------------------------|------------------------|
| OT 20/170...240/1A0 4DIMLT2 G2 CE  | 200...1050 mA          | 70 mA                      | Not allowed                   | 700 mA                 |
| OT 40/170...240/1A0 4DIMLT2 G2 CE  | 200...1050 mA          | 70 mA                      | Not allowed                   | 700 mA                 |
| OT 75/170...240/1A0 4DIMLT2 G2 CE  | 200...1050 mA          | 70 mA                      | Not allowed                   | 700 mA                 |
| OT 110/170...240/1A0 4DIMLT2 G2 CE | 200...1050 mA          | 70 mA                      | Not allowed                   | 700 mA                 |
| OT 165/170...240/1A0 4DIMLT2 G2 CE | 200...1050 mA          | 70 mA                      | Not allowed                   | 700 mA                 |

Product family datasheet

| Product description                | Output current tolerance | Output ripple current (100 Hz) | Output PSTLM | Output SVM | Minimum output current |
|------------------------------------|--------------------------|--------------------------------|--------------|------------|------------------------|
| OT 20/170...240/1A0 4DIMLT2 G2 CE  | ±3 % <sup>7)</sup>       | < 5 %                          | ≤1           | ≤0.4       | 70 mA                  |
| OT 40/170...240/1A0 4DIMLT2 G2 CE  | ±3 % <sup>7)</sup>       | < 5 %                          | ≤1           | ≤0.4       | 70 mA                  |
| OT 75/170...240/1A0 4DIMLT2 G2 CE  | ±3 % <sup>7)</sup>       | < 6 %                          | ≤1           | ≤0.4       | 70 mA                  |
| OT 110/170...240/1A0 4DIMLT2 G2 CE | ±3 % <sup>7)</sup>       | < 5 %                          | ≤1           | ≤0.4       | 70 mA                  |
| OT 165/170...240/1A0 4DIMLT2 G2 CE | ±3 % <sup>7)</sup>       | < 5 %                          |              |            | 70 mA                  |

| Product description                | Galvanic isolation | Nominal input voltage (SD port) | Surge capability (L/N – SD) | U-OUT (working voltage) |
|------------------------------------|--------------------|---------------------------------|-----------------------------|-------------------------|
| OT 20/170...240/1A0 4DIMLT2 G2 CE  | SELV               | 220...277 V                     | 6 kV                        | 60 V                    |
| OT 40/170...240/1A0 4DIMLT2 G2 CE  | SELV               | 220...277 V                     | 6 kV                        | 60 V                    |
| OT 75/170...240/1A0 4DIMLT2 G2 CE  | SELV               | 220...277 V                     | 6 kV                        | 120 V                   |
| OT 110/170...240/1A0 4DIMLT2 G2 CE | Double             | 220...277 V                     | 6 kV                        | 250 V                   |
| OT 165/170...240/1A0 4DIMLT2 G2 CE | Double             | 220...277 V                     | 6 kV                        | 300 V                   |

| Product description                | Max. no. of ECGs on 16A MCB with EBN-OS | Nominal output voltage | Surge capability (SD – Ground) | Dimensions & weight |         |
|------------------------------------|-----------------------------------------|------------------------|--------------------------------|---------------------|---------|
|                                    |                                         |                        |                                | Length              | Width   |
| OT 20/170...240/1A0 4DIMLT2 G2 CE  | 93                                      | 10...38 V              | 10 kV                          | 1230 mm             | 790 mm  |
| OT 40/170...240/1A0 4DIMLT2 G2 CE  | 56                                      | 15...56 V              | 10 kV                          | 1230 mm             | 790 mm  |
| OT 75/170...240/1A0 4DIMLT2 G2 CE  | 30                                      | 35...115 V             | 10 kV                          | 1330 mm             | 770 mm  |
| OT 110/170...240/1A0 4DIMLT2 G2 CE | 21                                      | 80...220 V             | 10 kV                          | 1500 mm             | 900 mm  |
| OT 165/170...240/1A0 4DIMLT2 G2 CE | 15                                      | 130...260 V            | 10 kV                          | 1700 mm             | 1000 mm |

| Product description                | Height | Mounting hole spacing, length | Mounting hole spacing, width | Product weight | Cable cross-section, input side | Cable cross-section, output side |
|------------------------------------|--------|-------------------------------|------------------------------|----------------|---------------------------------|----------------------------------|
| OT 20/170...240/1A0 4DIMLT2 G2 CE  | 330 mm | 111.0 mm                      | 67.0 mm                      | 21000 g        | 0.2...1.5 mm <sup>2</sup>       | 0.2...1.5 mm <sup>2</sup>        |
| OT 40/170...240/1A0 4DIMLT2 G2 CE  | 330 mm | 111.0 mm                      | 67.0 mm                      | 21000 g        | 0.2...1.5 mm <sup>2</sup>       | 0.2...1.5 mm <sup>2</sup>        |
| OT 75/170...240/1A0 4DIMLT2 G2 CE  | 400 mm | 122.5 mm                      |                              | 30000 g        | 0.2...1.5 mm <sup>2</sup>       | 0.2...1.5 mm <sup>2</sup>        |
| OT 110/170...240/1A0 4DIMLT2 G2 CE | 400 mm | 134.0 mm                      |                              | 78000 g        | 0.2...1.5 mm <sup>2</sup>       | 0.2...1.5 mm <sup>2</sup>        |

## Product family datasheet

| Product description                | Height | Mounting hole spacing, length | Mounting hole spacing, width | Product weight | Cable cross-section, input side | Cable cross-section, output side |
|------------------------------------|--------|-------------------------------|------------------------------|----------------|---------------------------------|----------------------------------|
| OT 165/170...240/1A0 4DIMLT2 G2 CE | 400 mm | 160.0 mm                      | 90.0 mm                      | 98000 g        | 0.2...1.5 mm <sup>2</sup>       | 0.2...1.5 mm <sup>2</sup>        |

| Product description                | Wire preparation length, input side | Temperatures & operating conditions |                              |                                      |                                          |
|------------------------------------|-------------------------------------|-------------------------------------|------------------------------|--------------------------------------|------------------------------------------|
|                                    |                                     | Ambient temperature range           | Temperature range at storage | Maximum temperature at tc test point | Max.housing temperature in case of fault |
| OT 20/170...240/1A0 4DIMLT2 G2 CE  | 8.5...9.5 mm                        | -40...+60 °C                        | -25...85 °C                  | 75 °C                                | 120 °C                                   |
| OT 40/170...240/1A0 4DIMLT2 G2 CE  | 8.5...9.5 mm                        | -40...+60 °C                        | -25...85 °C                  | 80 °C                                | 120 °C                                   |
| OT 75/170...240/1A0 4DIMLT2 G2 CE  | 8.5...9.5 mm                        | -40...+55 °C                        | -25...85 °C                  | 85 °C                                | 120 °C                                   |
| OT 110/170...240/1A0 4DIMLT2 G2 CE | 8.5...9.5 mm                        | -40...+55 °C                        | -25...85 °C                  | 85 °C                                | 120 °C                                   |
| OT 165/170...240/1A0 4DIMLT2 G2 CE | 8.5...9.5 mm                        | -40...+55 °C                        | -40...+85 °C                 | 90 °C                                | 110 °C                                   |

| Product description                | Permitted rel. humidity during operation | Lifespan                        | Capabilities |                                             |
|------------------------------------|------------------------------------------|---------------------------------|--------------|---------------------------------------------|
|                                    |                                          | ECG lifetime                    | Dimmable     | Dimming interface                           |
| OT 20/170...240/1A0 4DIMLT2 G2 CE  | 5...95 % <sup>8)</sup>                   | 50000 / 100000 h <sup>9)</sup>  | Yes          | 4DIM / AstroDIM / DALI / MainsDIM / StepDIM |
| OT 40/170...240/1A0 4DIMLT2 G2 CE  | 5...95 % <sup>8)</sup>                   | 50000 / 100000 h <sup>15)</sup> | Yes          | 4DIM / AstroDIM / DALI / MainsDIM / StepDIM |
| OT 75/170...240/1A0 4DIMLT2 G2 CE  | 5...95 % <sup>8)</sup>                   | 50000 / 100000 h <sup>17)</sup> | Yes          | 4DIM / AstroDIM / DALI / MainsDIM / StepDIM |
| OT 110/170...240/1A0 4DIMLT2 G2 CE | 5...95 % <sup>8)</sup>                   | 50000 / 100000 h <sup>17)</sup> | Yes          | 4DIM / AstroDIM / DALI / MainsDIM / StepDIM |
| OT 165/170...240/1A0 4DIMLT2 G2 CE | 5...95 % <sup>8)</sup>                   | 50000 / 100000 h <sup>19)</sup> | Yes          | 4DIM / AstroDIM / DALI / MainsDIM / StepDIM |

| Product description                | Dimming range | Suitable for fixtures with prot. class | Constant lumen function | NTC input |
|------------------------------------|---------------|----------------------------------------|-------------------------|-----------|
| OT 20/170...240/1A0 4DIMLT2 G2 CE  | 10...100 %    | I / II                                 | Programmable            | Yes       |
| OT 40/170...240/1A0 4DIMLT2 G2 CE  | 10...100 %    | I / II                                 | Programmable            | Yes       |
| OT 75/170...240/1A0 4DIMLT2 G2 CE  | 10...100 %    | I / II                                 | Programmable            | Yes       |
| OT 110/170...240/1A0 4DIMLT2 G2 CE | 10...100 %    | I / II                                 | Programmable            | Yes       |
| OT 165/170...240/1A0 4DIMLT2 G2 CE | 10...100 %    | I / II                                 | Programmable            | Yes       |

## Product family datasheet

| Product description                | Short-circuit protection | No-load proof | Intended for no-load operation | Max. cable length to lamp/LED module |
|------------------------------------|--------------------------|---------------|--------------------------------|--------------------------------------|
| OT 20/170...240/1A0 4DIMLT2 G2 CE  | Automatic reversible     | Yes           | No                             | 2.0 m <sup>10)</sup>                 |
| OT 40/170...240/1A0 4DIMLT2 G2 CE  | Automatic reversible     | Yes           | No                             | 2.0 m <sup>10)</sup>                 |
| OT 75/170...240/1A0 4DIMLT2 G2 CE  | Automatic reversible     | Yes           | No                             | 2.0 m <sup>10)</sup>                 |
| OT 110/170...240/1A0 4DIMLT2 G2 CE | Automatic reversible     | Yes           | No                             | 2.0 m <sup>10)</sup>                 |
| OT 165/170...240/1A0 4DIMLT2 G2 CE | Automatic reversible     | Yes           | No                             | 2.0 m <sup>10)</sup>                 |

| Product description                | LEDset | DALI-2 Diagnostic Data | DALI-2 Energy Data | Overload protection  |
|------------------------------------|--------|------------------------|--------------------|----------------------|
| OT 20/170...240/1A0 4DIMLT2 G2 CE  | Yes    | Yes <sup>11)</sup>     | Yes <sup>12)</sup> | Automatic reversible |
| OT 40/170...240/1A0 4DIMLT2 G2 CE  | Yes    | Yes <sup>11)</sup>     | Yes <sup>12)</sup> | Automatic reversible |
| OT 75/170...240/1A0 4DIMLT2 G2 CE  | Yes    | Yes <sup>11)</sup>     | Yes <sup>12)</sup> | Automatic reversible |
| OT 110/170...240/1A0 4DIMLT2 G2 CE | Yes    | Yes <sup>11)</sup>     | Yes <sup>12)</sup> | Automatic reversible |
| OT 165/170...240/1A0 4DIMLT2 G2 CE | Yes    | Yes <sup>11)</sup>     | Yes <sup>12)</sup> | Automatic reversible |

| Product description                | Number of channels | Programming     |              |                        |
|------------------------------------|--------------------|-----------------|--------------|------------------------|
|                                    |                    | Box programming | Tuner4TRONIC | Tuner4TRONIC Field App |
| OT 20/170...240/1A0 4DIMLT2 G2 CE  | 1                  | Yes             | Yes          | Yes                    |
| OT 40/170...240/1A0 4DIMLT2 G2 CE  | 1                  | Yes             | Yes          | Yes                    |
| OT 75/170...240/1A0 4DIMLT2 G2 CE  | 1                  |                 | Yes          | Yes                    |
| OT 110/170...240/1A0 4DIMLT2 G2 CE | 1                  | Yes             | Yes          | Yes                    |
| OT 165/170...240/1A0 4DIMLT2 G2 CE | 1                  |                 | Yes          | Yes                    |

| Product description                | Programming device | Programmable features |                    |              |
|------------------------------------|--------------------|-----------------------|--------------------|--------------|
|                                    |                    | Constant Lumen        | Thermal Protection | Driver Guard |
| OT 20/170...240/1A0 4DIMLT2 G2 CE  | DALI / NFC         | Yes                   | Yes                | Yes          |
| OT 40/170...240/1A0 4DIMLT2 G2 CE  | DALI / NFC         | Yes                   | Yes                | Yes          |
| OT 75/170...240/1A0 4DIMLT2 G2 CE  | DALI / NFC         | Yes                   | Yes                | Yes          |
| OT 110/170...240/1A0 4DIMLT2 G2 CE | DALI / NFC         | Yes                   | Yes                | Yes          |
| OT 165/170...240/1A0 4DIMLT2 G2 CE | DALI / NFC         | Yes                   | Yes                | Yes          |

| Product description               | AstroDIM | StepDIM | MainsDIM | Emergency Mode |
|-----------------------------------|----------|---------|----------|----------------|
| OT 20/170...240/1A0 4DIMLT2 G2 CE | Yes      | Yes     | Yes      | Yes            |
| OT 40/170...240/1A0 4DIMLT2 G2 CE | Yes      | Yes     | Yes      | Yes            |
| OT 75/170...240/1A0 4DIMLT2 G2 CE | Yes      | Yes     | Yes      | Yes            |

Product family datasheet

| Product description                | AstroDIM | StepDIM | MainsDIM | Emergency Mode |
|------------------------------------|----------|---------|----------|----------------|
| OT 110/170...240/1A0 4DIMLT2 G2 CE | Yes      | Yes     | Yes      | Yes            |
| OT 165/170...240/1A0 4DIMLT2 G2 CE | Yes      | Yes     | Yes      | Yes            |

|                                   |                    |                       | Certificates & standards |                                                                                                                                                                                                                                                                           |
|-----------------------------------|--------------------|-----------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product description               | Configuration Lock | DALI-2 Luminaire Data | Type of protection       | Standards                                                                                                                                                                                                                                                                 |
| OT 20/170...240/1A0 4DIMLT2 G2 CE | Yes                | Yes <sup>13)</sup>    | IP20                     | Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 62384/Acc. to EN 55015:2006 + A1:2007 + A2:2009/Acc. to EN 61547/Acc. to FCC 47 part 15 class B/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 62386-101/Acc. to IEC 62386-102/Acc. to IEC 62386-207/UL-8750 |
| OT 40/170...240/1A0 4DIMLT2 G2 CE | Yes                | Yes <sup>13)</sup>    | IP20                     | Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 62384/Acc. to EN 55015:2006 + A1:2007 + A2:2009/Acc. to EN 61547/Acc. to FCC 47 part 15 class B/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 62386-101/Acc. to IEC 62386-102/Acc. to IEC 62386-207/UL-8750 |
| OT 75/170...240/1A0 4DIMLT2 G2 CE | Yes                | Yes <sup>13)</sup>    | IP20                     | Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 62384/Acc. to EN 55015:2006 + A1:2007 + A2:2009/Acc. to EN 61547/Acc. to FCC 47 part 15 class B/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 62386-101/Acc. to IEC 62386-102/Acc. to IEC 62386-207/UL-8750 |

## Product family datasheet

| Product description                | Configuration Lock | DALI-2 Luminaire Data | Certificates & standards |                                                                                                                                                                                                                                                                           |
|------------------------------------|--------------------|-----------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                    |                    |                       | Type of protection       | Standards                                                                                                                                                                                                                                                                 |
| OT 110/170...240/1A0 4DIMLT2 G2 CE | Yes                | Yes <sup>13)</sup>    | IP20                     | Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 62384/Acc. to EN 55015:2006 + A1:2007 + A2:2009/Acc. to EN 61547/Acc. to FCC 47 part 15 class B/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 62386-101/Acc. to IEC 62386-102/Acc. to IEC 62386-207/UL-8750 |
| OT 165/170...240/1A0 4DIMLT2 G2 CE | Yes                | Yes <sup>13)</sup>    | IP20                     | Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 62384/Acc. to EN 55015:2006 + A1:2007 + A2:2009/Acc. to EN 61547/Acc. to FCC 47 part 15 class B/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 62386-101/Acc. to IEC 62386-102/Acc. to IEC 62386-207/UL-8750 |

| Product description                | Approval marks – approval                           | Logistical data | Environmental information<br>Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) |                                               |
|------------------------------------|-----------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------|
|                                    |                                                     | Commodity code  | Date of Declaration                                                                                | Primary Article Identifier                    |
| OT 20/170...240/1A0 4DIMLT2 G2 CE  | CCC / CE / DALI-2 / EL / ENEC / RCM / VDE / VDE-EMC | 85044083900     | 30-10-2023                                                                                         | 4052899981928   4050732430770                 |
| OT 40/170...240/1A0 4DIMLT2 G2 CE  | CCC / CE / DALI-2 / EL / ENEC / RCM / VDE / VDE-EMC | 85044083900     | 30-10-2023                                                                                         | 4052899981935   4050732430800                 |
| OT 75/170...240/1A0 4DIMLT2 G2 CE  | CCC / CE / DALI-2 / EL / ENEC / RCM / VDE / VDE-EMC | 85044083900     | 30-10-2023                                                                                         | 4052899981942   4050732430817                 |
| OT 110/170...240/1A0 4DIMLT2 G2 CE | CCC / CE / DALI-2 / EL / ENEC / RCM / VDE / VDE-EMC | 85044083900     | 30-10-2023                                                                                         | 4052899981959   4050732430824                 |
| OT 165/170...240/1A0 4DIMLT2 G2 CE | BIS / CCC / CE / DALI-2 / EL / ENEC / VDE / VDE-EMC | 85044083900     | 03-11-2023                                                                                         | 4062172053952   8010703816770   4055462326874 |

Product family datasheet

| Product description                | Candidate List Substance 1 | CAS No. of substance 1 | Safe Use Instruction                                                                               | Declaration No. in SCIP database                                                                                    |
|------------------------------------|----------------------------|------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| OT 20/170...240/1A0 4DIMLT2 G2 CE  | Lead                       | 7439-92-1              | The identification of the Candidate List substance is sufficient to allow safe use of the article. | e194334f-d00d-4b07-af4a-186bf7e8f154   f078148f-0558-426b-a82f-b99e83ab5dd3                                         |
| OT 40/170...240/1A0 4DIMLT2 G2 CE  | Lead                       | 7439-92-1              | The identification of the Candidate List substance is sufficient to allow safe use of the article. | 16e72155-53df-4f2a-b626-fd331e915998   3994c468-6cfc-424b-bdea-75401fbfdcd1                                         |
| OT 75/170...240/1A0 4DIMLT2 G2 CE  | Lead                       | 7439-92-1              | The identification of the Candidate List substance is sufficient to allow safe use of the article. | f0e55951-b434-4dfc-8c7e-7f99a3caacf6   f03d492e-b521-49ff-9947-5e4143b3b884                                         |
| OT 110/170...240/1A0 4DIMLT2 G2 CE | Lead                       | 7439-92-1              | The identification of the Candidate List substance is sufficient to allow safe use of the article. | 8dbda5ac-2927-4137-ac7a-fd3bdc12e03c   7987324e-163c-4a68-bba5-0fe2fcf79682                                         |
| OT 165/170...240/1A0 4DIMLT2 G2 CE | Lead                       | 7439-92-1              | The identification of the Candidate List substance is sufficient to allow safe use of the article. | 3df45517-1430-4628-9bac-58fb426845aa   90b0d98b-73d6-4b09-b6a7-8dfddbcb4f19d   075c4855-5594-4ee0-8332-f0d291e95ac6 |

- 1) Additional fuse needed in DC operation
- 2) Full load
- 3) At full power
- 4) At 150 µs
- 5) Max. 75% in DC operating mode
- 6) at 230 V, 50 Hz
- 7) +/- 5% for LEDset down to 300mA
- 8) The luminaire manufacturer must ensure that condensation water cannot be created within the fixture.
- 9) At maximum  $T_c = 75^{\circ}\text{C}$  / 10% failure rate
- 10) Output wires must be routed as close as possible to each other
- 11) Acc. DALI part 253
- 12) Acc. DALI part 252
- 13) Acc. DALI part 251
- 14) At 180 µs
- 15) At maximum  $T_c = 80^{\circ}\text{C}$  / 10% failure rate
- 16) At 190 µs
- 17) At maximum  $T_c = 85^{\circ}\text{C}$  / 10% failure rate

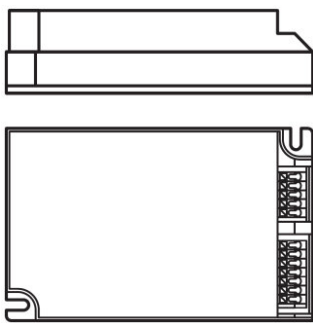


Product family datasheet

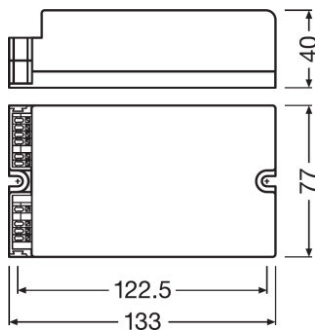
18) At 160 µs

19) At maximum T<sub>c</sub> = 90°C / 10% failure rate

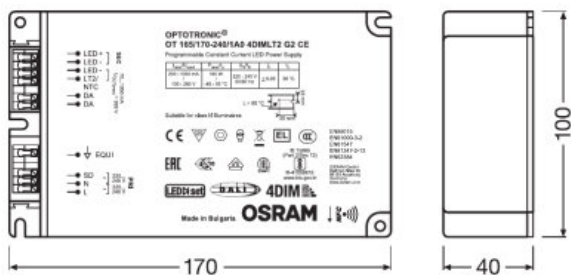
Product family datasheet



539459\_OT 40120-2771A0 4DIMLT2 E



OT 75170-2401A0 4DIMLT2 G2 CE



OT 165 170-2401A0 4 DIM LT2 G2 CE



OT 165 170-2401A0 4 DIM LT2 G2 CE

Application advice

For more detailed application information and graphics please see product datasheet.

Additional product information

- 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.

Sales and Technical Support

Sales and Technical Support [www.osram.com](http://www.osram.com)

Download Data

## Product family datasheet

| File                                                                                |                                                                                                         |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
|    | User instruction<br>OPTOTRONIC Outdoor                                                                  |
|    | Brochures<br>4 DIM NFC G3 CE LED drivers and T4T C (EN)                                                 |
|    | Certificates<br>RCM Certificate CS10824N                                                                |
|    | Certificates<br>OT VDE ENEC 40050684 290923                                                             |
|    | Certificates<br>OT Outdoor CB DE1 62952A1 220920                                                        |
|    | Certificates<br>OT EMC 40050085 200220                                                                  |
|    | Certificates<br>OT 20 4DIM LT2 G2 EATON AM35336 210520                                                  |
|    | Certificates<br>OT 20 4DIM LT2 G2 INOTEC AM35336 210520                                                 |
|    | Certificates<br>OT Outdoor CB DE1 62952A2 220920                                                        |
|   | Certificates<br>OT Outdoor VDE TESTREPORT 276377 220920                                                 |
|  | Certificates<br>VDE ENEC Certificate 40043863                                                           |
|  | Certificates<br>CB Certificate DE1-59452                                                                |
|  | Certificates<br>VDE ENEC Certificate 40043863 appendix                                                  |
|  | Certificates<br>OT EMC 40044675 031022                                                                  |
|  | Certificates<br>CCC Certificate 2018171002002021                                                        |
|  | Declarations of conformity<br>OT 1DIMLT2 G1 4DIMLT2 G2 CE 3806542 061221                                |
|  | Declarations of conformity<br>OT DIM LT2 CE UK DoC 4291524 260221                                       |
|  | Declarations of conformity<br>EATON(CEAG)-Conformity declaration AM04626_OT20_170-240_1A0_4DIMLT2_G2_CE |
|  | Declarations of conformity<br>INOTEC- Conformity declaration AM04626_OT20_170-240_1A0_4DIMLT2_G2_CE     |
|  | Declarations of conformity<br>EU Declaration of Conformity 3584649                                      |
|  | CAD data<br>CAD data STEP OT 20170-2401A0 4DIMLT2 G2 CE                                                 |
|  | CAD data<br>OT 20 4DIMLT2G2CE IGS 060820                                                                |

## Product family datasheet

|                                                                                     |                                                                                                         |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
|    | CAD data<br>OT 20 4DIMLT2G2CE STEP 060820                                                               |
|    | CAD Data 2-dim<br>OT 20 4DIMLT2G2CE CAD2PDF 060820                                                      |
|    | CAD data 3-dim<br>OT 20 4DIMLT2G2CE CAD3PDF 060820                                                      |
|    | Certificates<br>OT 40 4DIM LT2 G2 EATON AM35337 210520                                                  |
|    | Certificates<br>OT 40 4DIM LT2 G2 INOTEC AM35337 210520                                                 |
|    | Declarations of conformity<br>Declaration of Conformity 3547530                                         |
|    | Declarations of conformity<br>EATON(CEAG)-Conformity declaration AM04628_OT40_170-240_1A0_4DIMLT2_G2_CE |
|    | Declarations of conformity<br>INOTEC- Conformity declaration AM04628_OT40_170-240_1A0_4DIMLT2_G2_CE     |
|    | CAD data<br>OT 40 4DIMLT2G2CE IGS 060820                                                                |
|    | CAD data<br>OT 40 4DIMLT2G2CE STEP 060820                                                               |
|  | CAD Data 2-dim<br>OT 40 4DIMLT2G2CE CAD2PDF 060820                                                      |
|  | CAD data 3-dim<br>OT 40 4DIMLT2G2CE CAD3PDF 060820                                                      |
|  | User instruction<br>OPTOTRONIC Outdoor                                                                  |
|  | Certificates<br>OT 75 4DIM LT2 G2 EATON AM35338 210520                                                  |
|  | Certificates<br>OT 75 4DIM LT2 G2 INOTEC AM35338 210520                                                 |
|  | Certificates<br>CB Test Certificate DE1-60243                                                           |
|  | Certificates<br>CCC Certificate 2018171002002244                                                        |
|  | Declarations of conformity<br>EU Declaration of Conformity 3605907 (EN)                                 |
|  | Declarations of conformity<br>EATON(CEAG)-Conformity declaration AM03550 OT 75170-2401A0 4DIMLT2 G2 CE  |
|  | Declarations of conformity<br>INOTEC-Conformity declaration AM03550 OT 75170-2401A0 4DIMLT2 G2 CE       |
|  | CAD data<br>CAD data STEP OT 75170-2401A0 4DIMLT2 G2 CE                                                 |
|  | CAD data<br>OT 75 4DIMLT2G2CE IGS 060820                                                                |
|  | CAD data<br>OT 75 4DIMLT2G2CE STEP 060820                                                               |

## Product family datasheet

|                                                                                     |                                                                                                         |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
|    | CAD Data 2-dim<br>OT 75 4DIMLT2G2CE CAD2PDF 060820                                                      |
|    | CAD data 3-dim<br>OT 75 4DIMLT2G2CE CAD3PDF 060820                                                      |
|    | Certificates<br>OT 110 4DIM LT2 G2 EATON AM35339 210520                                                 |
|    | Certificates<br>OT 110 4DIM LT2 G2 INOTEC AM35339 210520                                                |
|    | Certificates<br>CCC Certificate 2018171002002265                                                        |
|    | Declarations of conformity<br>EU Declaration of Conformity 3629845                                      |
|    | Declarations of conformity<br>EATON(CEAG)-Conformity declaration AM03548 OT 110170-2401A0 4DIMLT2 G2 CE |
|    | Declarations of conformity<br>INOTEC-Conformity declaration AM03548 OT 110170-2401A0 4DIMLT2 G2 CE      |
|    | CAD data<br>CAD data STEP OT 110170-2401A0 4DIMLT2 G2 CE                                                |
|    | CAD data<br>OT 110 4DIMLT2G2CE IGS 060820                                                               |
|  | CAD data<br>OT 110 4DIMLT2G2CE STEP 060820                                                              |
|  | CAD Data 2-dim<br>OT 110 4DIMLT2G2CE CAD2PDF 060820                                                     |
|  | CAD data 3-dim<br>OT 110 4DIMLT2G2CE CAD3PDF 060820                                                     |
|  | User instruction<br>OPTOTRONIC Outdoor                                                                  |
|  | Certificates<br>OT 165 4DIM G2 CE BIS 34496 170420                                                      |
|  | Certificates<br>OT 165 4DIM LT2 G2 EATON AM27702 210520                                                 |
|  | Certificates<br>OT 165 4DIM LT2 G2 INOTEC AM27702 210520                                                |
|  | Certificates<br>OT 165 4DIMLT2 G2 CE UK DoC 4310787 010621                                              |
|  | Declarations of conformity<br>OT 4DIMLT2 G2 CE 3813028 100921                                           |
|  | CAD data<br>OT 165 4DIMLT2G2CE IGS 060820                                                               |
|  | CAD data<br>OT 165 4DIMLT2G2CE STEP 060820                                                              |
|  | CAD Data 2-dim<br>OT 165 4DIMLT2G2CE CAD2PDF 060820                                                     |
|  | CAD data 3-dim<br>OT 165 4DIMLT2G2CE CAD3PDF 060820                                                     |

Product family datasheet

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.

Logistical Data

| Product code  | Product description                   | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume                | Gross weight |
|---------------|---------------------------------------|------------------------------|--------------------------------------|-----------------------|--------------|
| 4052899981928 | OT 20/170...240/1A0<br>4DIMLT2 G2 CE  | Shipping carton box<br>10    | 280 mm x 175 mm x 102 mm             | 5.00 dm <sup>3</sup>  | 2279.00 g    |
| 4052899981935 | OT 40/170...240/1A0<br>4DIMLT2 G2 CE  | Shipping carton box<br>10    | 280 mm x 175 mm x 102 mm             | 5.00 dm <sup>3</sup>  | 2279.00 g    |
| 4052899981942 | OT 75/170...240/1A0<br>4DIMLT2 G2 CE  | Shipping carton box<br>10    | 300 mm x 210 mm x 100 mm             | 6.30 dm <sup>3</sup>  | 3223.00 g    |
| 4052899981959 | OT 110/170...240/1A0<br>4DIMLT2 G2 CE | Shipping carton box<br>10    | 385 mm x 300 mm x 125 mm             | 14.44 dm <sup>3</sup> | 8141.00 g    |
| 4062172053952 | OT 165/170...240/1A0<br>4DIMLT2 G2 CE | Shipping carton box<br>10    | 303 mm x 285 mm x 205 mm             | 17.70 dm <sup>3</sup> | 10352.00 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.

Data privacy

This OSRAM driver can be configured using the Tuner4TRONIC software. This requires registering on [www.mynosram.com](http://www.mynosram.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.

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Disclaimer

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