

## OPTOTRONIC - 4DIM NFC IP20 G3

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



### Product family features

- Supply voltage: 220...240 V
- Wide current output range: 150 mA...1050 mA or 1500 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)
- 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
- 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
- High surge DALI protection: 1 kV
- Protection through double isolation between mains input and LED output
- Optimized NFC for programming from the top: easy accessibility in luminaires



## Product family datasheet

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### 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 4DIM NFC G3 CE  | 220...240 V     | 170...264 V <sup>1)</sup> | 176...276 V <sup>2)</sup> | 0.12 A          | 0/50/60 Hz      | 0.39C...0.99 <sub>3)</sub> |
| OT 40/170...240/0A7 4DIM NFC G3 CE  | 220...240 V     | 170...264 V <sup>1)</sup> | 176...276 V <sup>2)</sup> | 0.20 A          | 0/50/60 Hz      | 0.62C...0.99 <sub>3)</sub> |
| OT 40/170...240/1A0 4DIM NFC G3 CE  | 220...240 V     | 170...264 V <sup>1)</sup> | 176...276 V <sup>2)</sup> | 0.20 A          | 0/50/60 Hz      | 0.50C...0.99 <sub>3)</sub> |
| OT 75/170...240/0A7 4DIM NFC G3 CE  | 220...240 V     | 170...264 V <sup>1)</sup> | 176...276 V <sup>2)</sup> | 0.39 A          | 0/50/60 Hz      | 0.54C...0.99 <sub>3)</sub> |
| OT 75/170...240/1A0 4DIM NFC G3 CE  | 220...240 V     | 170...264 V <sup>1)</sup> | 176...276 V <sup>2)</sup> | 0.39 A          | 0/50/60 Hz      | 0.43C...0.99 <sub>3)</sub> |
| OT 75/170...240/1A5 4DIM NFC G3 CE  | 220...240 V     | 170...264 V <sup>1)</sup> | 176...276 V <sup>2)</sup> | 0.38 A          | 0/50/60 Hz      | 0.60C...0.99 <sub>3)</sub> |
| OT 110/170...240/1A0 4DIM NFC G3 CE | 220...240 V     | 170...264 V <sup>1)</sup> | 176...276 V <sup>2)</sup> | 0.52 A          | 0/50/60 Hz      | 0.51C...0.99 <sub>3)</sub> |
| OT 110/170...240/0A7 4DIM NFC G3 CE | 220...240 V     | 170...264 V <sup>1)</sup> | 176...276 V <sup>2)</sup> | 0.52 A          | 0/50/60 Hz      | 0.60C...0.99 <sub>3)</sub> |
| OT 165/170...240/1A0 4DIM NFC G3 CE | 220...240 V     | 170...264 V <sup>1)</sup> | 176...276 V <sup>2)</sup> | 0.80 A          | 0/50/60 Hz      | 0.65C...0.99 <sub>3)</sub> |
| OT 200/170...240/1A0 4DIM NFC G3 CE | 220...240 V     | 170...264 V <sup>1)</sup> | 176...276 V <sup>2)</sup> | 0.95 A          | 0/50/60 Hz      | 0.65C...0.99 <sub>3)</sub> |

| 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 4DIM NFC G3 CE  | < 5 % <sup>3)</sup>       | 3.5 W             | 21 A <sup>4)</sup>   | 30                                       | 48                                       | 74                                       |
| OT 40/170...240/0A7 4DIM NFC G3 CE  | < 5 % <sup>3)</sup>       | 4.5 W             | 31 A <sup>14)</sup>  | 18                                       | 30                                       | 46                                       |
| OT 40/170...240/1A0 4DIM NFC G3 CE  | < 5 % <sup>3)</sup>       | 4.5 W             | 31 A <sup>14)</sup>  | 18                                       | 30                                       | 46                                       |
| OT 75/170...240/0A7 4DIM NFC G3 CE  | < 5 % <sup>3)</sup>       | 6.5 W             | 62 A <sup>16)</sup>  | 6                                        | 10                                       | 16                                       |
| OT 75/170...240/1A0 4DIM NFC G3 CE  | < 5 % <sup>3)</sup>       | 6.5 W             | 62 A <sup>16)</sup>  | 6                                        | 10                                       | 16                                       |
| OT 75/170...240/1A5 4DIM NFC G3 CE  | < 5 % <sup>3)</sup>       | 6.9 W             | 63 A <sup>18)</sup>  | 8                                        | 12                                       | 19                                       |
| OT 110/170...240/1A0 4DIM NFC G3 CE | < 5 % <sup>3)</sup>       | 8.3 W             | 102 A <sup>21)</sup> | 7                                        | 12                                       | 19                                       |
| OT 110/170...240/0A7 4DIM NFC G3 CE | < 5 % <sup>3)</sup>       | 8.3 W             | 102 A <sup>21)</sup> | 7                                        | 12                                       | 19                                       |
| OT 165/170...240/1A0 4DIM NFC G3 CE | < 5 % <sup>3)</sup>       | 11.5 W            | 71 A <sup>22)</sup>  | 6                                        | 10                                       | 16                                       |
| OT 200/170...240/1A0 4DIM NFC G3 CE | < 5 % <sup>3)</sup>       | 15.0 W            | 83 A <sup>23)</sup>  | 4                                        | 7                                        | 11                                       |

Product family datasheet

| Product description                    | Surge capability<br>(L/N-Ground) | Surge capability<br>(L-N) | Nominal<br>output<br>power | Maximum output<br>power | Efficiency in<br>full-load |
|----------------------------------------|----------------------------------|---------------------------|----------------------------|-------------------------|----------------------------|
| OT 20/170...240/1A0 4DIM NFC G3<br>CE  | 10 kV                            | 6 kV                      | 22 W <sup>5)</sup>         | 22 W                    | 87 % <sup>6)</sup>         |
| OT 40/170...240/0A7 4DIM NFC G3<br>CE  | 10 kV                            | 6 kV                      | 40 W <sup>5)</sup>         | 40 W                    | 90 % <sup>6)</sup>         |
| OT 40/170...240/1A0 4DIM NFC G3<br>CE  | 10 kV                            | 6 kV                      | 40 W <sup>5)</sup>         | 40 W                    | 90 % <sup>6)</sup>         |
| OT 75/170...240/0A7 4DIM NFC G3<br>CE  | 10 kV                            | 6 kV                      | 75 W <sup>5)</sup>         | 75 W                    | 92 % <sup>6)</sup>         |
| OT 75/170...240/1A0 4DIM NFC G3<br>CE  | 10 kV                            | 6 kV                      | 75 W <sup>5)</sup>         | 75 W                    | 92 % <sup>6)</sup>         |
| OT 75/170...240/1A5 4DIM NFC G3<br>CE  | 10 kV                            | 6 kV                      | 75 W <sup>5)</sup>         | 75 W                    | 91.5 % <sup>6)</sup>       |
| OT 110/170...240/1A0 4DIM NFC G3<br>CE | 10 kV                            | 6 kV                      | 110 W <sup>5)</sup>        | 110 W                   | 93% <sup>6)</sup>          |
| OT 110/170...240/0A7 4DIM NFC G3<br>CE | 10 kV                            | 6 kV                      | 110 W <sup>5)</sup>        | 110 W                   | 93% <sup>6)</sup>          |
| OT 165/170...240/1A0 4DIM NFC G3<br>CE | 10 kV                            | 6 kV                      | 165 W <sup>5)</sup>        | 165 W                   | 94 % <sup>6)</sup>         |
| OT 200/170...240/1A0 4DIM NFC G3<br>CE | 10 kV                            | 6 kV                      | 200 W <sup>5)</sup>        | 200 W                   | 93 % <sup>6)</sup>         |

| Product description                    | Nominal output<br>current | Default output<br>current | Output<br>current<br>tolerance | Output ripple current<br>(100 Hz) | Output<br>PSTLM |
|----------------------------------------|---------------------------|---------------------------|--------------------------------|-----------------------------------|-----------------|
| OT 20/170...240/1A0 4DIM NFC G3<br>CE  | 150...1050 mA             | 700 mA                    | ±3 % <sup>7)</sup>             | < 4 %                             | ≤1              |
| OT 40/170...240/0A7 4DIM NFC G3<br>CE  | 150...700 mA              | 700 mA                    | ±3 % <sup>7)</sup>             | < 4 %                             | ≤1              |
| OT 40/170...240/1A0 4DIM NFC G3<br>CE  | 150...1050 mA             | 700 mA                    | ±3 % <sup>7)</sup>             | < 4 %                             | ≤1              |
| OT 75/170...240/0A7 4DIM NFC G3<br>CE  | 150...700 mA              | 700 mA                    | ±3 % <sup>7)</sup>             | < 4 %                             | ≤1              |
| OT 75/170...240/1A0 4DIM NFC G3<br>CE  | 150...1050 mA             | 700 mA                    | ±3 % <sup>7)</sup>             | < 4 %                             | ≤1              |
| OT 75/170...240/1A5 4DIM NFC G3<br>CE  | 350...1500 mA             | 1000 mA                   | ±3 % <sup>19)</sup>            | < 4 %                             | ≤1              |
| OT 110/170...240/1A0 4DIM NFC G3<br>CE | 150...1050 mA             | 700 mA                    | ±3 % <sup>7)</sup>             | < 4 %                             | ≤1              |
| OT 110/170...240/0A7 4DIM NFC G3<br>CE | 150...700 mA              | 700 mA                    | ±3 % <sup>7)</sup>             | < 4 %                             | ≤1              |
| OT 165/170...240/1A0 4DIM NFC G3<br>CE | 150...1050 mA             | 700 mA                    | ±3 % <sup>7)</sup>             | < 4 %                             | ≤1              |
| OT 200/170...240/1A0 4DIM NFC G3<br>CE | 150...1050 mA             | 700 mA                    | ±3 % <sup>7)</sup>             | < 4 %                             | ≤1              |

Product family datasheet

| Product description                 | Output SVM | Minimum output current | Galvanic isolation | U-OUT (working voltage) |
|-------------------------------------|------------|------------------------|--------------------|-------------------------|
| OT 20/170...240/1A0 4DIM NFC G3 CE  | ≤0.4       | 70 mA                  | SELV               | 60 V                    |
| OT 40/170...240/0A7 4DIM NFC G3 CE  | ≤0.4       | 70 mA                  | SELV               | 120 V                   |
| OT 40/170...240/1A0 4DIM NFC G3 CE  | ≤0.4       | 70 mA                  | SELV               | 60 V                    |
| OT 75/170...240/0A7 4DIM NFC G3 CE  | ≤0.4       | 70 mA                  | Double             | 185 V                   |
| OT 75/170...240/1A0 4DIM NFC G3 CE  | ≤0.4       | 70 mA                  | SELV               | 120 V                   |
| OT 75/170...240/1A5 4DIM NFC G3 CE  | ≤0.4       | 70 mA                  | SELV               | 120 V                   |
| OT 110/170...240/1A0 4DIM NFC G3 CE | ≤0.4       | 70 mA                  | Double             | 220 V                   |
| OT 110/170...240/0A7 4DIM NFC G3 CE | ≤0.4       | 70 mA                  | Double             | 250 V                   |
| OT 165/170...240/1A0 4DIM NFC G3 CE | ≤0.4       | 70 mA                  | Double             | 320 V                   |
| OT 200/170...240/1A0 4DIM NFC G3 CE | ≤0.4       | 70 mA                  | Double             | 370 V                   |

| Product description                 | Nominal output voltage | Dimensions & weight |          |         |                               |                              |
|-------------------------------------|------------------------|---------------------|----------|---------|-------------------------------|------------------------------|
|                                     |                        | Length              | Width    | Height  | Mounting hole spacing, length | Mounting hole spacing, width |
| OT 20/170...240/1A0 4DIM NFC G3 CE  | 10...38 V              | 123.0 mm            | 79.0 mm  | 33.0 mm | 111.0 mm                      | 67.0 mm                      |
| OT 40/170...240/0A7 4DIM NFC G3 CE  | 30...77 V              | 123.0 mm            | 79.0 mm  | 33.0 mm | 111.0 mm                      | 67.0 mm                      |
| OT 40/170...240/1A0 4DIM NFC G3 CE  | 15...56 V              | 123.0 mm            | 79.0 mm  | 33.0 mm | 111.0 mm                      | 67.0 mm                      |
| OT 75/170...240/0A7 4DIM NFC G3 CE  | 50...150 V             | 123.0 mm            | 79.0 mm  | 33.0 mm | 111.0 mm                      | 67.0 mm                      |
| OT 75/170...240/1A0 4DIM NFC G3 CE  | 35...115 V             | 123.0 mm            | 79.0 mm  | 33.0 mm | 111.0 mm                      | 67.0 mm                      |
| OT 75/170...240/1A5 4DIM NFC G3 CE  | 25...75 V              | 133.0 mm            | 77.0 mm  | 40.0 mm | 110.0 mm                      |                              |
| OT 110/170...240/1A0 4DIM NFC G3 CE | 55...157 V             | 133.0 mm            | 77.0 mm  | 40.0 mm | 122.5 mm                      |                              |
| OT 110/170...240/0A7 4DIM NFC G3 CE | 80...220 V             | 133.0 mm            | 77.0 mm  | 40.0 mm | 122.5 mm                      |                              |
| OT 165/170...240/1A0 4DIM NFC G3 CE | 90...260 V             | 150.0 mm            | 90.0 mm  | 40.0 mm | 134.0 mm                      |                              |
| OT 200/170...240/1A0 4DIM NFC G3 CE | 140...300 V            | 170.0 mm            | 100.0 mm | 40.0 mm | 160.0 mm                      | 90.0 mm                      |

Product family datasheet

|                                     |                |                                 |                                  |                                     | Temperatures & operating conditions |
|-------------------------------------|----------------|---------------------------------|----------------------------------|-------------------------------------|-------------------------------------|
| Product description                 | Product weight | Cable cross-section, input side | Cable cross-section, output side | Wire preparation length, input side | Ambient temperature range           |
| OT 20/170...240/1A0 4DIM NFC G3 CE  | 210.00 g       | 0.2...1.5 mm <sup>2</sup>       | 0.2...1.5 mm <sup>2</sup>        | 8.5...9.5 mm                        | -40...+60 °C                        |
| OT 40/170...240/0A7 4DIM NFC G3 CE  | 210.00 g       | 0.2...1.5 mm <sup>2</sup>       | 0.2...1.5 mm <sup>2</sup>        | 8.5...9.5 mm                        | -40...+60 °C                        |
| OT 40/170...240/1A0 4DIM NFC G3 CE  | 210.00 g       | 0.2...1.5 mm <sup>2</sup>       | 0.2...1.5 mm <sup>2</sup>        | 8.5...9.5 mm                        | -40...+60 °C                        |
| OT 75/170...240/0A7 4DIM NFC G3 CE  | 210.00 g       | 0.2...1.5 mm <sup>2</sup>       | 0.2...1.5 mm <sup>2</sup>        | 8.5...9.5 mm                        | -40...+55 °C                        |
| OT 75/170...240/1A0 4DIM NFC G3 CE  | 210.00 g       | 0.2...1.5 mm <sup>2</sup>       | 0.2...1.5 mm <sup>2</sup>        | 8.5...9.5 mm                        | -40...+55 °C                        |
| OT 75/170...240/1A5 4DIM NFC G3 CE  | 590.00 g       | 0.2...1.5 mm <sup>2</sup>       | 0.2...1.5 mm <sup>2</sup>        | 8.5...9.5 mm                        | -40...+60 °C                        |
| OT 110/170...240/1A0 4DIM NFC G3 CE | 590.00 g       | 0.2...1.5 mm <sup>2</sup>       | 0.2...1.5 mm <sup>2</sup>        | 8.5...9.5 mm                        | -40...+55 °C                        |
| OT 110/170...240/0A7 4DIM NFC G3 CE | 590.00 g       | 0.2...1.5 mm <sup>2</sup>       | 0.2...1.5 mm <sup>2</sup>        | 8.5...9.5 mm                        | -40...+55 °C                        |
| OT 165/170...240/1A0 4DIM NFC G3 CE | 780.00 g       | 0.2...1.5 mm <sup>2</sup>       | 0.2...1.5 mm <sup>2</sup>        | 8.5...9.5 mm                        | -40...+55 °C                        |
| OT 200/170...240/1A0 4DIM NFC G3 CE | 980.00 g       | 0.2...1.5 mm <sup>2</sup>       | 0.2...1.5 mm <sup>2</sup>        | 8.5...9.5 mm                        | -40...+55 °C                        |

|                                     |                              |                                      |                                          |                                          | Lifespan                        |
|-------------------------------------|------------------------------|--------------------------------------|------------------------------------------|------------------------------------------|---------------------------------|
| Product description                 | Temperature range at storage | Maximum temperature at tc test point | Max.housing temperature in case of fault | Permitted rel. humidity during operation | ECG lifetime                    |
| OT 20/170...240/1A0 4DIM NFC G3 CE  | -40...+85 °C                 | 75 °C                                | 120 °C                                   | 5...95 % <sup>8)</sup>                   | 50000 / 100000 h <sup>9)</sup>  |
| OT 40/170...240/0A7 4DIM NFC G3 CE  | -40...+85 °C                 | 80 °C                                | 120 °C                                   | 5...95 % <sup>8)</sup>                   | 50000 / 100000 h <sup>15)</sup> |
| OT 40/170...240/1A0 4DIM NFC G3 CE  | -40...+85 °C                 | 80 °C                                | 120 °C                                   | 5...95 % <sup>8)</sup>                   | 50000 / 100000 h <sup>15)</sup> |
| OT 75/170...240/0A7 4DIM NFC G3 CE  | -40...+85 °C                 | 90 °C                                | 120 °C                                   | 5...95 % <sup>8)</sup>                   | 50000 / 100000 h <sup>17)</sup> |
| OT 75/170...240/1A0 4DIM NFC G3 CE  | -40...+85 °C                 | 90 °C                                | 120 °C                                   | 5...95 % <sup>8)</sup>                   | 50000 / 100000 h <sup>17)</sup> |
| OT 75/170...240/1A5 4DIM NFC G3 CE  | -40...+85 °C                 | 85 °C                                | 120 °C                                   | 5...95 % <sup>8)</sup>                   | 50000 / 100000 h <sup>20)</sup> |
| OT 110/170...240/1A0 4DIM NFC G3 CE | -40...+85 °C                 | 85 °C                                | 120 °C                                   | 5...95 % <sup>8)</sup>                   | 50000 / 100000 h <sup>20)</sup> |
| OT 110/170...240/0A7 4DIM NFC G3 CE | -40...+85 °C                 | 80 °C                                | 120 °C                                   | 5...95 % <sup>8)</sup>                   | 50000 / 100000 h <sup>15)</sup> |

## Product family datasheet

| Product description                 | Temperature range at storage | Maximum temperature at tc test point | Max.housing temperature in case of fault | Permitted rel. humidity during operation | Lifespan                        |
|-------------------------------------|------------------------------|--------------------------------------|------------------------------------------|------------------------------------------|---------------------------------|
|                                     |                              |                                      |                                          |                                          | ECG lifetime                    |
| OT 165/170...240/1A0 4DIM NFC G3 CE | -40...+85 °C                 | 90 °C                                | 120 °C                                   | 5...95 % <sup>8)</sup>                   | 50000 / 100000 h <sup>17)</sup> |
| OT 200/170...240/1A0 4DIM NFC G3 CE | -40...+85 °C                 | 95 °C                                | 120 °C                                   | 5...95 % <sup>8)</sup>                   | 50000 / 100000 h <sup>24)</sup> |

| Product description                 | Additional product data | Capabilities |                                             |               |                                        |
|-------------------------------------|-------------------------|--------------|---------------------------------------------|---------------|----------------------------------------|
|                                     | Predecessor EAN         | Dimmable     | Dimming interface                           | Dimming range | Suitable for fixtures with prot. class |
| OT 20/170...240/1A0 4DIM NFC G3 CE  | 4052899981928           | Yes          | 4DIM / AstroDIM / DALI / MainsDIM / StepDIM | 10...100 %    | I / II                                 |
| OT 40/170...240/0A7 4DIM NFC G3 CE  |                         | Yes          | 4DIM / AstroDIM / DALI / MainsDIM / StepDIM | 10...100 %    | I / II                                 |
| OT 40/170...240/1A0 4DIM NFC G3 CE  | 4052899981935           | Yes          | 4DIM / AstroDIM / DALI / MainsDIM / StepDIM | 10...100 %    | I / II                                 |
| OT 75/170...240/0A7 4DIM NFC G3 CE  |                         | Yes          | 4DIM / AstroDIM / DALI / MainsDIM / StepDIM | 10...100 %    | I / II                                 |
| OT 75/170...240/1A0 4DIM NFC G3 CE  | 4052899981942           | Yes          | 4DIM / AstroDIM / DALI / MainsDIM / StepDIM | 10...100 %    | I / II                                 |
| OT 75/170...240/1A5 4DIM NFC G3 CE  |                         | Yes          | 4DIM / AstroDIM / DALI / MainsDIM / StepDIM | 10...100 %    | I / II                                 |
| OT 110/170...240/1A0 4DIM NFC G3 CE | 4052899981959           | Yes          | 4DIM / AstroDIM / DALI / MainsDIM / StepDIM | 10...100 %    | I / II                                 |
| OT 110/170...240/0A7 4DIM NFC G3 CE |                         | Yes          | 4DIM / AstroDIM / DALI / MainsDIM / StepDIM | 10...100 %    | I / II                                 |
| OT 165/170...240/1A0 4DIM NFC G3 CE | 4062172053952           | Yes          | 4DIM / AstroDIM / DALI / MainsDIM / StepDIM | 10...100 %    | I / II                                 |
| OT 200/170...240/1A0 4DIM NFC G3 CE |                         | Yes          | 4DIM / AstroDIM / DALI / MainsDIM / StepDIM | 10...100 %    | I / II                                 |

| Product description                | Constant lumen function | NTC input | Short-circuit protection | No-load proof |
|------------------------------------|-------------------------|-----------|--------------------------|---------------|
| OT 20/170...240/1A0 4DIM NFC G3 CE | Programmable            | Yes       | Automatic reversible     | Yes           |

Product family datasheet

| Product description                 | Constant lumen function | NTC input | Short-circuit protection | No-load proof |
|-------------------------------------|-------------------------|-----------|--------------------------|---------------|
| OT 40/170...240/0A7 4DIM NFC G3 CE  | Programmable            | Yes       | Automatic reversible     | Yes           |
| OT 40/170...240/1A0 4DIM NFC G3 CE  | Programmable            | Yes       | Automatic reversible     | Yes           |
| OT 75/170...240/0A7 4DIM NFC G3 CE  | Programmable            | Yes       | Automatic reversible     | Yes           |
| OT 75/170...240/1A0 4DIM NFC G3 CE  | Programmable            | Yes       | Automatic reversible     | Yes           |
| OT 75/170...240/1A5 4DIM NFC G3 CE  | Programmable            | Yes       | Automatic reversible     | Yes           |
| OT 110/170...240/1A0 4DIM NFC G3 CE | Programmable            | Yes       | Automatic reversible     | Yes           |
| OT 110/170...240/0A7 4DIM NFC G3 CE | Programmable            | Yes       | Automatic reversible     | Yes           |
| OT 165/170...240/1A0 4DIM NFC G3 CE | Programmable            | Yes       | Automatic reversible     | Yes           |
| OT 200/170...240/1A0 4DIM NFC G3 CE | Programmable            | Yes       | Automatic reversible     | Yes           |

| Product description                 | Intended for no-load operation | Max. cable length to lamp/LED module | Number of channels | DALI-2 Diagnostic Data |
|-------------------------------------|--------------------------------|--------------------------------------|--------------------|------------------------|
| OT 20/170...240/1A0 4DIM NFC G3 CE  | No                             | 2.0 m <sup>10)</sup>                 | 1                  | Yes <sup>11)</sup>     |
| OT 40/170...240/0A7 4DIM NFC G3 CE  | No                             | 2.0 m <sup>10)</sup>                 | 1                  | Yes <sup>11)</sup>     |
| OT 40/170...240/1A0 4DIM NFC G3 CE  | No                             | 2.0 m <sup>10)</sup>                 | 1                  | Yes <sup>11)</sup>     |
| OT 75/170...240/0A7 4DIM NFC G3 CE  | No                             | 2.0 m <sup>10)</sup>                 | 1                  | Yes <sup>11)</sup>     |
| OT 75/170...240/1A0 4DIM NFC G3 CE  | No                             | 2.0 m <sup>10)</sup>                 | 1                  | Yes <sup>11)</sup>     |
| OT 75/170...240/1A5 4DIM NFC G3 CE  | No                             | 2.0 m <sup>10)</sup>                 | 1                  | Yes <sup>11)</sup>     |
| OT 110/170...240/1A0 4DIM NFC G3 CE | No                             | 2.0 m <sup>10)</sup>                 | 1                  | Yes <sup>11)</sup>     |
| OT 110/170...240/0A7 4DIM NFC G3 CE | No                             | 2.0 m <sup>10)</sup>                 | 1                  | Yes <sup>11)</sup>     |
| OT 165/170...240/1A0 4DIM NFC G3 CE | No                             | 2.0 m <sup>10)</sup>                 | 1                  | Yes <sup>11)</sup>     |
| OT 200/170...240/1A0 4DIM NFC G3 CE | No                             | 2.0 m <sup>10)</sup>                 | 1                  | Yes <sup>11)</sup>     |

|                                    |                    |        |                      | Programming     |
|------------------------------------|--------------------|--------|----------------------|-----------------|
| Product description                | DALI-2 Energy Data | LEDset | Overload protection  | Box programming |
| OT 20/170...240/1A0 4DIM NFC G3 CE | Yes <sup>12)</sup> | Yes    | Automatic reversible | Yes             |
| OT 40/170...240/0A7 4DIM NFC G3 CE | Yes <sup>12)</sup> | Yes    | Automatic reversible | Yes             |

## Product family datasheet

| Product description                 | DALI-2 Energy Data | LEDset | Overload protection  | Programming     |
|-------------------------------------|--------------------|--------|----------------------|-----------------|
|                                     |                    |        |                      | Box programming |
| OT 40/170...240/1A0 4DIM NFC G3 CE  | Yes <sup>12)</sup> | Yes    | Automatic reversible | Yes             |
| OT 75/170...240/0A7 4DIM NFC G3 CE  | Yes <sup>12)</sup> | Yes    | Automatic reversible | Yes             |
| OT 75/170...240/1A0 4DIM NFC G3 CE  | Yes <sup>12)</sup> | Yes    | Automatic reversible | Yes             |
| OT 75/170...240/1A5 4DIM NFC G3 CE  | Yes <sup>12)</sup> | Yes    | Automatic reversible | Yes             |
| OT 110/170...240/1A0 4DIM NFC G3 CE | Yes <sup>12)</sup> | Yes    | Automatic reversible | Yes             |
| OT 110/170...240/0A7 4DIM NFC G3 CE | Yes <sup>12)</sup> | Yes    | Automatic reversible | Yes             |
| OT 165/170...240/1A0 4DIM NFC G3 CE | Yes <sup>12)</sup> | Yes    | Automatic reversible | Yes             |
| OT 200/170...240/1A0 4DIM NFC G3 CE | Yes <sup>12)</sup> | Yes    | Automatic reversible | Yes             |

| Product description                 | Tuner4TRONIC | Tuner4TRONIC Field App | Programming device | Programmable features |
|-------------------------------------|--------------|------------------------|--------------------|-----------------------|
|                                     |              |                        |                    | Configuration Lock    |
| OT 20/170...240/1A0 4DIM NFC G3 CE  | Yes          | Yes                    | DALI / NFC         | Yes                   |
| OT 40/170...240/0A7 4DIM NFC G3 CE  | Yes          | Yes                    | DALI / NFC         | Yes                   |
| OT 40/170...240/1A0 4DIM NFC G3 CE  | Yes          | Yes                    | DALI / NFC         | Yes                   |
| OT 75/170...240/0A7 4DIM NFC G3 CE  | Yes          | Yes                    | DALI / NFC         | Yes                   |
| OT 75/170...240/1A0 4DIM NFC G3 CE  | Yes          | Yes                    | DALI / NFC         | Yes                   |
| OT 75/170...240/1A5 4DIM NFC G3 CE  | Yes          | Yes                    | DALI / NFC         | Yes                   |
| OT 110/170...240/1A0 4DIM NFC G3 CE | Yes          | Yes                    | DALI / NFC         | Yes                   |
| OT 110/170...240/0A7 4DIM NFC G3 CE | Yes          | Yes                    | DALI / NFC         | Yes                   |
| OT 165/170...240/1A0 4DIM NFC G3 CE | Yes          | Yes                    | DALI / NFC         | Yes                   |
| OT 200/170...240/1A0 4DIM NFC G3 CE | Yes          |                        | DALI / NFC         | Yes                   |

| Product description                | DALI-2 Luminaire Data | Emergency Mode | MainsDIM | StepDIM |
|------------------------------------|-----------------------|----------------|----------|---------|
| OT 20/170...240/1A0 4DIM NFC G3 CE | Yes <sup>13)</sup>    | Yes            | Yes      | Yes     |
| OT 40/170...240/0A7 4DIM NFC G3 CE | Yes <sup>13)</sup>    | Yes            | Yes      | Yes     |

Product family datasheet

| Product description                 | DALI-2 Luminaire Data | Emergency Mode | MainsDIM | StepDIM |
|-------------------------------------|-----------------------|----------------|----------|---------|
| OT 40/170...240/1A0 4DIM NFC G3 CE  | Yes <sup>13)</sup>    | Yes            | Yes      | Yes     |
| OT 75/170...240/0A7 4DIM NFC G3 CE  | Yes <sup>13)</sup>    | Yes            | Yes      | Yes     |
| OT 75/170...240/1A0 4DIM NFC G3 CE  | Yes <sup>13)</sup>    | Yes            | Yes      | Yes     |
| OT 75/170...240/1A5 4DIM NFC G3 CE  | Yes <sup>13)</sup>    | Yes            | Yes      | Yes     |
| OT 110/170...240/1A0 4DIM NFC G3 CE | Yes <sup>13)</sup>    | Yes            | Yes      | Yes     |
| OT 110/170...240/0A7 4DIM NFC G3 CE | Yes <sup>13)</sup>    | Yes            | Yes      | Yes     |
| OT 165/170...240/1A0 4DIM NFC G3 CE | Yes <sup>13)</sup>    | Yes            | Yes      | Yes     |
| OT 200/170...240/1A0 4DIM NFC G3 CE | Yes <sup>13)</sup>    | Yes            | Yes      | Yes     |

| Product description                 | AstroDIM | Driver Guard | Thermal Protection | Constant Lumen |
|-------------------------------------|----------|--------------|--------------------|----------------|
| OT 20/170...240/1A0 4DIM NFC G3 CE  | Yes      | Yes          | Yes                | Yes            |
| OT 40/170...240/0A7 4DIM NFC G3 CE  | Yes      | Yes          | Yes                | Yes            |
| OT 40/170...240/1A0 4DIM NFC G3 CE  | Yes      | Yes          | Yes                | Yes            |
| OT 75/170...240/0A7 4DIM NFC G3 CE  | Yes      | Yes          | Yes                | Yes            |
| OT 75/170...240/1A0 4DIM NFC G3 CE  | Yes      | Yes          | Yes                | Yes            |
| OT 75/170...240/1A5 4DIM NFC G3 CE  | Yes      | Yes          | Yes                | Yes            |
| OT 110/170...240/1A0 4DIM NFC G3 CE | Yes      | Yes          | Yes                | Yes            |
| OT 110/170...240/0A7 4DIM NFC G3 CE | Yes      | Yes          | Yes                | Yes            |
| OT 165/170...240/1A0 4DIM NFC G3 CE | Yes      | Yes          | Yes                | Yes            |
| OT 200/170...240/1A0 4DIM NFC G3 CE | Yes      | Yes          | Yes                | Yes            |

## Product family datasheet

| Product description                | Certificates & standards |                                                                                                                                                                                                                                                                           |                                           | Logistical data |
|------------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------|
|                                    | Type of protection       | Standards                                                                                                                                                                                                                                                                 | Approval marks – approval                 | Commodity code  |
| OT 20/170...240/1A0 4DIM NFC G3 CE | 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 | CCC / CE / DALI-2 / EL / ENEC / RCM / VDE | 85044083900     |
| OT 40/170...240/0A7 4DIM NFC G3 CE | 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 | CCC / CE / DALI-2 / EL / ENEC / RCM / VDE | 85044083900     |
| OT 40/170...240/1A0 4DIM NFC G3 CE | 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 | CCC / CE / DALI-2 / EL / ENEC / RCM / VDE | 85044083900     |
| OT 75/170...240/0A7 4DIM NFC G3 CE | 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 | CCC / CE / DALI-2 / EL / ENEC / RCM / VDE | 85044083900     |

Product family datasheet

| Product description                    | Certificates & standards |                                                                                                                                                                                                                                                                                                            |                                                 | Logistical data |
|----------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------|
|                                        | Type of protection       | Standards                                                                                                                                                                                                                                                                                                  | Approval marks – approval                       | Commodity code  |
| OT 75/170...240/1A0 4DIM NFC G3<br>CE  | IP20                     | Acc. to EN 61347-1/Acc.<br>to EN 61347-2-13/Acc. to<br>EN 62384/Acc. to EN<br>55015:2006 + A1:2007 +<br>A2:2009/Acc. to EN<br>61547/Acc. to FCC 47 part<br>15 class B/Acc. to IEC<br>61000-3-2/Acc. to IEC<br>61000-3-3/Acc. to IEC<br>62386-101/Acc. to IEC<br>62386-102/Acc. to IEC<br>62386-207/UL-8750 | CCC / CE / DALI-2 /<br>EL / ENEC / RCM /<br>VDE | 85044083900     |
| OT 75/170...240/1A5 4DIM NFC G3<br>CE  | IP20                     | Acc. to EN 61347-1/Acc.<br>to EN 61347-2-13/Acc. to<br>EN 62384/Acc. to EN<br>55015:2006 + A1:2007 +<br>A2:2009/Acc. to EN<br>61547/Acc. to FCC 47 part<br>15 class B/Acc. to IEC<br>61000-3-2/Acc. to IEC<br>61000-3-3/Acc. to IEC<br>62386-101/Acc. to IEC<br>62386-102/Acc. to IEC<br>62386-207/UL-8750 | CCC / CE / DALI-2 /<br>EL / ENEC / RCM /<br>VDE | 85044083900     |
| OT 110/170...240/1A0 4DIM NFC G3<br>CE | IP20                     | Acc. to EN 61347-1/Acc.<br>to EN 61347-2-13/Acc. to<br>EN 62384/Acc. to EN<br>55015:2006 + A1:2007 +<br>A2:2009/Acc. to EN<br>61547/Acc. to FCC 47 part<br>15 class B/Acc. to IEC<br>61000-3-2/Acc. to IEC<br>61000-3-3/Acc. to IEC<br>62386-101/Acc. to IEC<br>62386-102/Acc. to IEC<br>62386-207/UL-8750 | CCC / CE / DALI-2 /<br>EL / ENEC / RCM /<br>VDE | 85044083900     |
| OT 110/170...240/0A7 4DIM NFC G3<br>CE | IP20                     | Acc. to EN 61347-1/Acc.<br>to EN 61347-2-13/Acc. to<br>EN 62384/Acc. to EN<br>55015:2006 + A1:2007 +<br>A2:2009/Acc. to EN<br>61547/Acc. to FCC 47 part<br>15 class B/Acc. to IEC<br>61000-3-2/Acc. to IEC<br>61000-3-3/Acc. to IEC<br>62386-101/Acc. to IEC<br>62386-102/Acc. to IEC<br>62386-207/UL-8750 | CCC / CE / DALI-2 /<br>EL / ENEC / RCM /<br>VDE | 85044083900     |

Product family datasheet

| Product description                 | Certificates & standards |                                                                                                                                                                                                                                                                           |                                           | Logistical data |
|-------------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------|
|                                     | Type of protection       | Standards                                                                                                                                                                                                                                                                 | Approval marks – approval                 | Commodity code  |
| OT 165/170...240/1A0 4DIM NFC G3 CE | 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 | CCC / CE / DALI-2 / EL / ENEC / RCM / VDE | 85044083900     |
| OT 200/170...240/1A0 4DIM NFC G3 CE | 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 | CCC / CE / DALI-2 / EL / ENEC / RCM / VDE | 85044083900     |

| Product description                 | Environmental information<br>Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) |                            |                            |                        |
|-------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------|----------------------------|------------------------|
|                                     | Date of Declaration                                                                                | Primary Article Identifier | Candidate List Substance 1 | CAS No. of substance 1 |
| OT 20/170...240/1A0 4DIM NFC G3 CE  | 30-10-2023                                                                                         | 4062172218917              | Lead                       | 7439-92-1              |
| OT 40/170...240/0A7 4DIM NFC G3 CE  | 30-10-2023                                                                                         | 4062172218931              | Lead                       | 7439-92-1              |
| OT 40/170...240/1A0 4DIM NFC G3 CE  | 30-10-2023                                                                                         | 4062172218955              | Lead                       | 7439-92-1              |
| OT 75/170...240/0A7 4DIM NFC G3 CE  | 30-10-2023                                                                                         | 4062172218979              | Lead                       | 7439-92-1              |
| OT 75/170...240/1A0 4DIM NFC G3 CE  | 30-10-2023                                                                                         | 4062172218993              | Lead                       | 7439-92-1              |
| OT 75/170...240/1A5 4DIM NFC G3 CE  | 30-10-2023                                                                                         | 4062172219013              | Lead                       | 7439-92-1              |
| OT 110/170...240/1A0 4DIM NFC G3 CE | 30-10-2023                                                                                         | 4062172219037              | Lead                       | 7439-92-1              |
| OT 110/170...240/0A7 4DIM NFC G3 CE | 30-10-2023                                                                                         | 4062172219051              | Lead                       | 7439-92-1              |
| OT 165/170...240/1A0 4DIM NFC G3 CE | 30-10-2023                                                                                         | 4062172219075              | Lead                       | 7439-92-1              |
| OT 200/170...240/1A0 4DIM NFC G3 CE | 30-10-2023                                                                                         | 4062172219105              | Lead                       | 7439-92-1              |

Product family datasheet

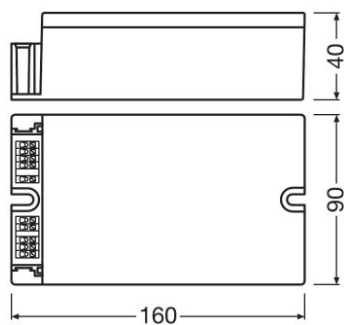
| Product description                 | Safe Use Instruction                                                                               | Declaration No. in SCIP database     |
|-------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------|
| OT 20/170...240/1A0 4DIM NFC G3 CE  | The identification of the Candidate List substance is sufficient to allow safe use of the article. | 955484cd-c98c-400d-b404-0bdc8b18e61  |
| OT 40/170...240/0A7 4DIM NFC G3 CE  | The identification of the Candidate List substance is sufficient to allow safe use of the article. | b3888823-9fde-416b-914a-7530ec6d3fbd |
| OT 40/170...240/1A0 4DIM NFC G3 CE  | The identification of the Candidate List substance is sufficient to allow safe use of the article. | 379f7569-52ac-433f-9818-68b3e830beef |
| OT 75/170...240/0A7 4DIM NFC G3 CE  | The identification of the Candidate List substance is sufficient to allow safe use of the article. | e855b353-59ba-477c-8d96-bf79d78cc51c |
| OT 75/170...240/1A0 4DIM NFC G3 CE  | The identification of the Candidate List substance is sufficient to allow safe use of the article. | 68d1cbcc-6936-4e84-a80e-357a925e6979 |
| OT 75/170...240/1A5 4DIM NFC G3 CE  | The identification of the Candidate List substance is sufficient to allow safe use of the article. | d88ce670-7fc7-4b84-bbf0-dae54cba0cb9 |
| OT 110/170...240/1A0 4DIM NFC G3 CE | The identification of the Candidate List substance is sufficient to allow safe use of the article. | 674f36be-9964-4e5b-9b5d-faa5b7f24988 |
| OT 110/170...240/0A7 4DIM NFC G3 CE | The identification of the Candidate List substance is sufficient to allow safe use of the article. | 6ba02630-ff61-4dc5-b65e-f95aede086f5 |
| OT 165/170...240/1A0 4DIM NFC G3 CE | The identification of the Candidate List substance is sufficient to allow safe use of the article. | d1d15d96-476c-4d10-b73f-5091e4380197 |

Product family datasheet

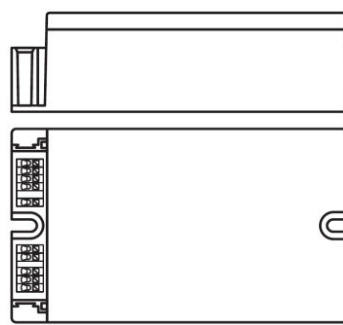
| Product description                 | Safe Use Instruction                                                                               | Declaration No. in SCIP database     |
|-------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------|
| OT 200/170...240/1A0 4DIM NFC G3 CE | The identification of the Candidate List substance is sufficient to allow safe use of the article. | 0dd55d9f-aa6b-4632-8d55-a2e1f1b41813 |

- 1) Permitted voltage range
- 2) Additional fuse needed in DC operation
- 3) At full power
- 4) At 180 µs
- 5) Max. 75% in DC operating mode
- 6) at 230 V, 50 Hz
- 7) +/- 5% for LEDset down to 150mA
- 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 / At  $T_c = 63^{\circ}\text{C}$  / 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 186 µs
- 15) At maximum  $T_c = 80^{\circ}\text{C}$  / 10% failure rate / At  $T_c = 68^{\circ}\text{C}$  / 10% failure rate
- 16) At 202 µs
- 17) At maximum  $T_c = 90^{\circ}\text{C}$  / 10% failure rate / At  $T_c = 78^{\circ}\text{C}$  / 10% failure rate
- 18) At 176 µs
- 19) +/- 5% for LEDset down to 350mA
- 20) At maximum  $T_c = 85^{\circ}\text{C}$  / 10% failure rate / At  $T_c = 73^{\circ}\text{C}$  / 10% failure rate
- 21) At 106 µs
- 22) At 175 µs
- 23) At 83 µs
- 24) At maximum  $T_c = 95^{\circ}\text{C}$  / 10% failure rate / At  $T_c = 83^{\circ}\text{C}$  / 10% failure rate

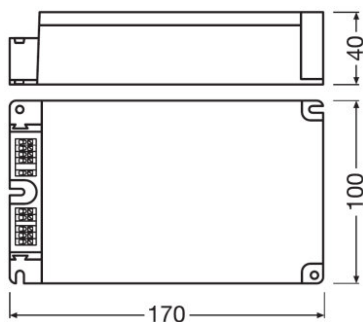
Product family datasheet



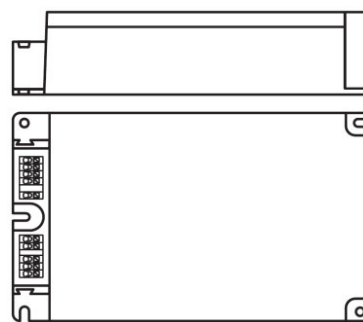
OT 200170-2401A0 4DIM NFC G3 CE



OT 165 170 240 1A0 4DIM NFC G3 CE



OT 165170-2401A0 4DIM NFC G3 CE



OT 200 170 240 1A0 4DIM NFC G3 CE

Application advice

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

Additional product information

- To ensure an optimal communication during the NFC programming, the NFC antenna should be placed on the top of the LED Driver, above the NFC marking. This improves the accessibility to the NFC tag also in application, for instance within Luminaires.
- In order to ensure an optimal NFC programming of the Led Driver during the luminaire production, the luminaire maker shall not place any metal parts in proximity of the NFC reader, at least within a distance of 10 cm.
- Default output current is supplied without any resistor connected to the LEDset port. As soon as the driver detects one time a resistor value within the allowed resistor range for more than 3 s, the driver activates the LEDset2 mode.
- Typical resistor values: 3.33 kOhm for 1500 mA; 4.76 kOhm for 1050 mA; 4.28 kOhm for 350 mA, 33.3 kOhm for 150 mA.
- In case of miswiring the driver can withstand up to 350 Vac for up to two hours.
- The driver withstands an input voltage of up to 320 Vac with unlimited time. Shut down of output load might occur in case the supply voltage exceeds (270 Vac). Under operation conditions in which overvoltage level > 264 Vac occur, the product shall be additionally protected by an external fuse (400V 4A, time lag, I<sub>2</sub> t > 160 160 A2s).
- Shut down of output load happens if the input voltage of the load is below the allowed minimum output voltage of the driver. The driver automatically tries to switch on the load cyclically.
- The driver automatically reduces the output current in case the maximum allowed output power is exceeded.
- The driver automatically adjusts the output voltage to the maximum output voltage if no load is connected and switches off the load after some seconds. Hot-plug of the load or external switching on the secondary side is not allowed.
- The driver is protected against temporary overheating by automatic reduction of the output current down to 30 % and then switches off.
- The maximum number of units per circuit breaker is an indicative value due mainly to high tolerance for the tripping current for narrow pulses.
- The EQUI pin should be connected to the heat sink of the LED module to improve the surge withstand capability of the system and EMI in critical luminaires.
- Several external NTCs are supported for temperature protection of the LED module or luminaire. By default, the following resistor values are set: start derating: 6.3 kOhm, end derating 5.0 kOhm, shut off: 4.5 kOhm, derating level 50 %.
- The dimming mode feature is disabled by default. If the dimming mode is changed via NFC while the driver is not powered, one additional power on/off cycle is needed before the new dimming mode becomes active.
- The constant lumen feature is disabled by default.
- For input voltage of 170...190 Vac, the maximum allowed output power is linear limited starting from 100 % at 190 Vac down to 85 % at 170 Vac.
- LEDset and NTC functionality share the same connection terminal; both features are not simultaneously available.
- LEDset functionalities are limited only to the current setting, via codified resistor, and thermal protection via PTC (5V supply, miswiring protection, thermal protection with NTC are not available).
- If any output level is below the physical min level, the physical min level will be used.
- All functionalities are ensured for output cables up to 10 m. For cable length more than 2 m, EMI compliance has to be checked in the application.

Sales and Technical Support

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

Download Data

| File                                                                                |                                        |
|-------------------------------------------------------------------------------------|----------------------------------------|
|  | User instruction<br>OPTOTRONIC Outdoor |

Product family datasheet

|                                                                                   |                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|
|  | Certificates<br>OT VDE ENEC 40050684 290923         |
|  | Certificates<br>OT 4DIM NFC G3 ZHAGA 4497157 111023 |

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 |
|---------------|----------------------------------------|------------------------------|--------------------------------------|-----------------------|--------------|
| 4062172218917 | OT 20/170...240/1A0<br>4DIM NFC G3 CE  | Shipping carton box<br>18    | 272 mm x 260 mm x 125 mm             | 8.84 dm <sup>3</sup>  | 4152.00 g    |
| 4062172218931 | OT 40/170...240/0A7<br>4DIM NFC G3 CE  | Shipping carton box<br>18    | 272 mm x 260 mm x 125 mm             | 8.84 dm <sup>3</sup>  | 4152.00 g    |
| 4062172218955 | OT 40/170...240/1A0<br>4DIM NFC G3 CE  | Shipping carton box<br>18    | 272 mm x 260 mm x 125 mm             | 8.84 dm <sup>3</sup>  | 4152.00 g    |
| 4062172218979 | OT 75/170...240/0A7<br>4DIM NFC G3 CE  | Shipping carton box<br>18    | 272 mm x 260 mm x 125 mm             | 8.84 dm <sup>3</sup>  | 4152.00 g    |
| 4062172218993 | OT 75/170...240/1A0<br>4DIM NFC G3 CE  | Shipping carton box<br>18    | 272 mm x 260 mm x 125 mm             | 8.84 dm <sup>3</sup>  | 4152.00 g    |
| 4062172219013 | OT 75/170...240/1A5<br>4DIM NFC G3 CE  | Shipping carton box<br>18    | 285 mm x 268 mm x 156 mm             | 11.92 dm <sup>3</sup> | 11096.00 g   |
| 4062172219037 | OT 110/170...240/1A0<br>4DIM NFC G3 CE | Shipping carton box<br>18    | 285 mm x 268 mm x 156 mm             | 11.92 dm <sup>3</sup> | 11096.00 g   |
| 4062172219051 | OT 110/170...240/0A7<br>4DIM NFC G3 CE | Shipping carton box<br>18    | 285 mm x 268 mm x 156 mm             | 11.92 dm <sup>3</sup> | 11096.00 g   |
| 4062172219075 | OT 165/170...240/1A0<br>4DIM NFC G3 CE | Shipping carton box<br>12    | 319 mm x 210 mm x 156 mm             | 10.45 dm <sup>3</sup> | 9748.00 g    |
| 4062172219105 | OT 200/170...240/1A0<br>4DIM NFC G3 CE | Shipping carton box<br>8     | 394 mm x 254 mm x 115 mm             | 11.51 dm <sup>3</sup> | 8712.00 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.

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Disclaimer

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