

## Linear LED modules 280x26mm CLAUDIA

A linear solution for retail and industrial lighting. Optimized for LEDiL's CLAUDIA optics.

### Product description

- Long life-time
- Built-in, constant current LED module
- Re-workable push-in terminals enabling easy connection
- Compliance and approval: CE, ENEC
- 2C - two connectors for series system, also recognized as a high voltage system - non-SELV
- Other CCT and CRI on request



### LinLED CRI 80 G1

| Product name                                      | Ordering code  | Colour temperature [K] | Current nominal If nom [mA] | Luminous flux <sup>1</sup> φ [lm] | Useful luminous flux <sup>2</sup> [lm] | Voltage <sup>1</sup> Vf [V] | Power <sup>1</sup> P [W] | Efficacy <sup>1</sup> [lm/W] | Current minimum If min <sup>3</sup> [mA] | Current maximum If max [mA] | Energy Efficiency Class |
|---|----------------|------------------------|-----------------------------|-----------------------------------|--|-----------------------------|--------------------------|------------------------------|--|-----------------------------|-------------------------|
| LinLED 280x26mm 2x650lm 827-865 2C 42V CLAUDIA G1 | 1010 117 55846 | 2700                   | 100                         | 629                               | 652                                    | 39                          | 4.0                      | 162                          | 20                                       | 240                         | D                       |
|   |                | 6500                   | 100                         | 702                               | 728                                    | 39                          | 4.0                      | 181                          | 20                                       | 240                         |                         |
| LinLED 280x26mm 1000lm 830 2C 42V CLAUDIA G1      | 1010 117 62746 | 3000                   | 145                         | 964                               | 1003                                   | 39                          | 5.6                      | 171                          | 20                                       | 300                         | C                       |
| LinLED 280x26mm 1300lm 830 2C 42V CLAUDIA G1      | 1010 117 55546 |                        | 185                         | 1196                              | 1240                                   | 39                          | 7.0                      | 167                          | 40                                       | 400                         | D                       |
| LinLED 280x26mm 1000lm 840 2C 42V CLAUDIA G1      | 1010 117 62846 | 4000                   | 145                         | 1013                              | 1054                                   | 39                          | 5.6                      | 180                          | 20                                       | 300                         | C                       |
| LinLED 280x26mm 1300lm 840 2C 42V CLAUDIA G1      | 1010 117 52946 |                        | 185                         | 1304                              | 1353                                   | 39                          | 7.0                      | 183                          | 40                                       | 400                         | C                       |

<sup>1</sup>At nominal current and T<sub>p</sub>

<sup>2</sup>At nominal current and 25°C

<sup>3</sup>It is recommended not to operate below minimum current in order to avoid un-even brightness

Tolerance range for optical and electrical ±10%

### Temperature & humidity

| Specification item                         | Unit | Value       |
|--|------|-------------|
| T <sub>p</sub>                             | [°C] | 45          |
| T <sub>p</sub> rated                       | [°C] | 65          |
| T <sub>c</sub>                             | [°C] | 85          |
| Relative humidity (non-condensing)         | [%]  | 5 ... 85    |
| Storage ambient temperature                | [°C] | -25 ... +85 |
| Storage relative humidity (non-condensing) | [%]  | 5 ... 85    |

T<sub>p</sub> - Temperature related to the performance parameters of the LED modules

T<sub>p</sub> rated - Maximum operating temperature to which the rated performance characteristics are declared

T<sub>c</sub> - Highest permissible value for safe operation

### Technical data

| Specification item               | Unit   | 1000lm        | 1300lm        |
|----------------------------------|--------|---------------|---------------|
| Classification acc. to IEC 62031 |        | built-in      | built-in      |
| Working voltage                  | [Vdc]  | 300           | 350           |
| Beam angle                       | [deg]  | 120           | 120           |
| Initial color consistency        | [SDCM] | 3             | 3             |
| Photobiological safety           |        | RG1 unlimited | RG1 unlimited |

### Color coordinates

According to CIE 1931

| Specification item | CIE <sub>x</sub> | CIE <sub>y</sub> |
|--------------------|------------------|------------------|
| 2700K              | 0.4578           | 0.4101           |
| 3000K              | 0.4338           | 0.4030           |
| 4000K              | 0.3818           | 0.3797           |
| 6500K              | 0.3123           | 0.3282           |

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### Certificates & standards

| Specification item | Compliant    |
|--------------------|--------------|
| ENEC               | Yes          |
| CE                 | Yes          |
| RoHS               | Yes          |
| REACH              | Yes          |
| IP rating          | No IP rating |

### Lumen maintenance

for LinLED 280x26mm 2x650lm... and LinLED 280x26mm 1300lm...

| Forward current | Tp temp. | L70 [h] |         | L80 [h] |         | L90 [h] |         |
|-----------------|----------|---------|---------|---------|---------|---------|---------|
|                 |          | B50     | B10     | B50     | B10     | B50     | B10     |
| If nom          | 45°C     | >60 000 | >60 000 | >60 000 | >60 000 | >60 000 | >60 000 |
|                 | 65°C     | >60 000 | >60 000 | >60 000 | >60 000 | >60 000 | 55 000  |
|                 | 85°C     | >60 000 | >60 000 | >60 000 | >60 000 | >60 000 | 50 000  |
| If max          | 45°C     | >60 000 | >60 000 | >60 000 | >60 000 | >60 000 | 46 000  |
|                 | 65°C     | >60 000 | >60 000 | >60 000 | >60 000 | >60 000 | 44 000  |
|                 | 85°C     | >60 000 | >60 000 | >60 000 | >60 000 | >60 000 | 40 000  |

reported data based on LM80 LED data (10 000h)

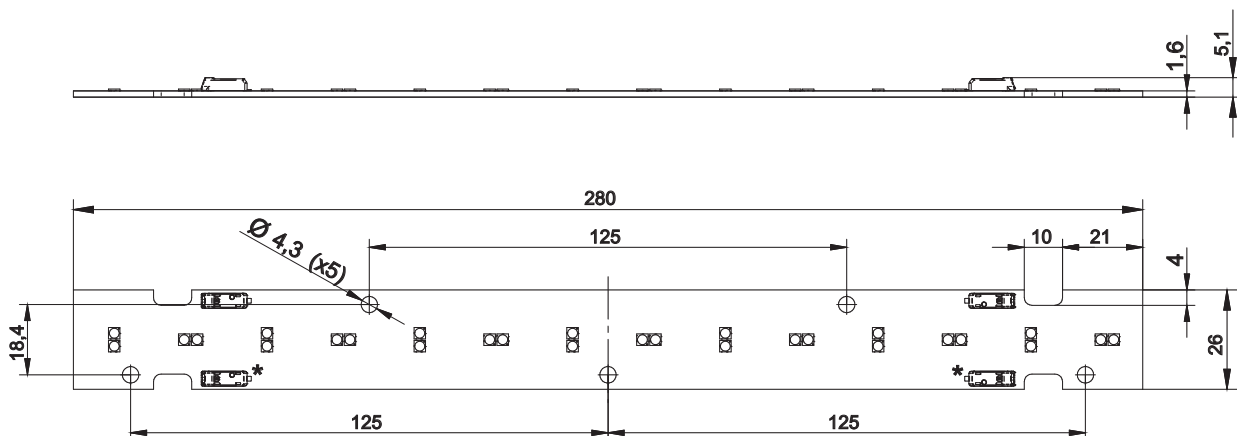
for LinLED 280x26mm 1000lm...

| Forward current | Tp temp. | L70 [h] |         | L80 [h] |         | L90 [h] |        |
|-----------------|----------|---------|---------|---------|---------|---------|--------|
|                 |          | B50     | B10     | B50     | B10     | B50     | B10    |
| If nom          | 45°C     | >72 000 | >72 000 | >72 000 | >72 000 | 70 000  | 60 000 |
|                 | 55°C     | >72 000 | >72 000 | >72 000 | >72 000 | 70 000  | 60 000 |
|                 | 65°C     | >72 000 | >72 000 | >72 000 | >72 000 | 68 000  | 59 000 |
|                 | 75°C     | >72 000 | >72 000 | >72 000 | >72 000 | 67 000  | 58 000 |
| If max          | 85°C     | >72 000 | >72 000 | >72 000 | >72 000 | 66 000  | 57 000 |
|                 | 45°C     | >72 000 | >72 000 | >72 000 | >72 000 | 51 000  | 39 000 |
|                 | 55°C     | >72 000 | >72 000 | >72 000 | >72 000 | 51 000  | 39 000 |
|                 | 65°C     | >72 000 | >72 000 | >72 000 | >72 000 | 48 000  | 37 000 |
| If max          | 75°C     | >72 000 | >72 000 | >72 000 | >72 000 | 45 000  | 35 000 |
|                 | 85°C     | >72 000 | >72 000 | >72 000 | >72 000 | 69 000  | 43 000 |

reported data based on LM80 LED data (@65mA 17000h / @160mA & 200mA 12000h)

### Dimensions

| Product name                                      | Ordering code  | Connectors (*) |
|---|----------------|----------------|
| LinLED 280x26mm 2x650lm 827-865 2C 42V CLAUDIA G1 | 1010 117 55846 | Yes            |
| LinLED 280x26mm 1000lm 830 2C 42V CLAUDIA G1      | 1010 117 62746 | No             |
| LinLED 280x26mm 1300lm 830 2C 42V CLAUDIA G1      | 1010 117 55546 | No             |
| LinLED 280x26mm 1000lm 840 2C 42V CLAUDIA G1      | 1010 117 62846 | No             |
| LinLED 280x26mm 1300lm 840 2C 42V CLAUDIA G1      | 1010 117 52946 | No             |



### Mounting

LED Modules cannot be exposed to tensile or compressive stresses. For this purpose it is necessary that the modules are assembled to a flat surface by only rounded head screws. Additionally plastic flat washer should be used to ensure creepage distance between screw's head and surface of the pcb. Max. torque for fixing: 0,5Nm.

LED modules are sensitive to electrostatic discharge (ESD). Follow safety regulations according to IEC 61340-5-1.

Protection against electric shock must be provided by the luminaire's enclosure.

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### Wiring

Wire cross section and strip length:



| D - wire cross section<br>(solid and flexible wires) | Min                | Max                 |
|--|--------------------|---------------------|
|  | 0.2mm <sup>2</sup> | 0.75mm <sup>2</sup> |
|  | AWG 24             | AWG 18              |

| L - strip length | Min | Max |
|------------------|-----|-----|
|                  | 8mm | 9mm |

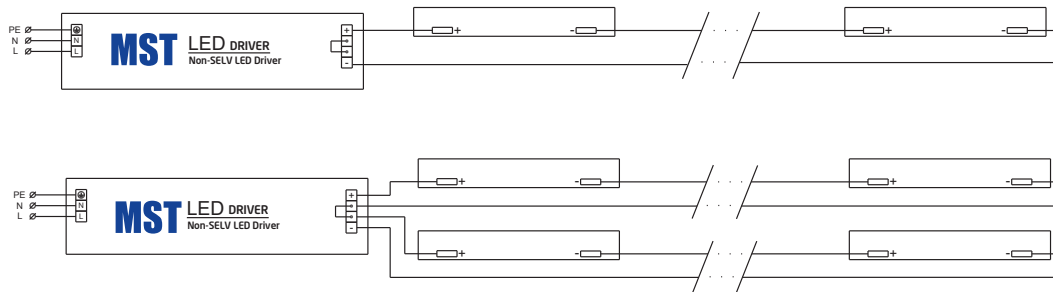
Opening for the release of wires from the top with release pin Electroterminal art. 881 167 884:



### Connections

| Max number of modules | Unit  | Series | Parallel |
|-----------------------|-------|--------|----------|
| LinLED 280x26mm...    | [pcs] | 8      | -        |

Wiring for series connection system (2C)



### Energy Label / EPREL database

To obtain Energy Label for this product visit <https://eprel.ec.europa.eu/> and enter model identifier

Model identifier consists of 10 digits XXXX XXX XXX. It is printed directly on the LED module or on product label. This is the number you can see in EPREL database.

Ordering code consist of 12 digits XXXX XXX XXX46. Additional last two digits means packaging of the product.

### Ordering codes

| Product name                                      | Ordering code  | Pieces per box | Pieces per pallet | Box dimensions [mm] |
|---|----------------|----------------|-------------------|---------------------|
| LinLED 280x26mm 2x650lm 827-865 2C 42V CLAUDIA G1 | 1010 117 55846 | 153            | 18360             | 300 x 266 x 83      |
| LinLED 280x26mm 1000lm 830 2C 42V CLAUDIA G1      | 1010 117 62746 | 153            | 18360             | 300 x 266 x 83      |
| LinLED 280x26mm 1300lm 830 2C 42V CLAUDIA G1      | 1010 117 55546 | 153            | 18360             | 300 x 266 x 83      |
| LinLED 280x26mm 1000lm 840 2C 42V CLAUDIA G1      | 1010 117 62846 | 153            | 18360             | 300 x 266 x 83      |
| LinLED 280x26mm 1300lm 840 2C 42V CLAUDIA G1      | 1010 117 52946 | 153            | 18360             | 300 x 266 x 83      |