



**VOXAURA**

**VOXAURA**

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## **PRODUCT CATALOG**

**FURNITURE LIGHT**   **CEILING LIGHT**   **SMART CONTROL**

## LIGHT SOLUTIONS FOR YOUR HOME.

Experts in lighting and product development, we combine German precision with cutting-edge technology. Our mission is to create products that embody simplicity, quality, and sustainability.

Focusing on minimalism and eco-friendly practices, we set new standards in the lighting industry. Looking ahead, we're expanding into Smart Home solutions to enhance your living space.

Our promise „feels like coming home.“

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### STATUS AT TIME OF PRINTING

The products shown reflect the status at the time of printing. In the course of continuous technical and design development, we reserve the right to make changes to construction, specifications and product range. The latest version is available at any time on our website at [www.voxaura.ai](http://www.voxaura.ai)

welcome to the

# ACADEMY OF LIGHT

We would like to invite you to the **VOXAURA Academy of Light**, where we will show you that light is more than just lighting.

Light has a significant influence on human well-being, health and performance, creates a mood, designs rooms and sets the scene for your home.

Our Academy of Light offers you practical advice on how to put your home in the perfect light.

LET US  
INSPIRE YOU!



[www.voxaura.ai](http://www.voxaura.ai)



- ✓ Downlight SL4005, dimmable multiwhite, 2700 - 5000 K
- ✓ Smart-driver SD4000
- ✓ Control unit CU4000, multiwhite, asynchronous – to enable control of downlights independently of linear lights
- ✓ Smart sensor switch BS3000 – to switch light on / off, adjust brightness and colour temperature

- ✓ Linear light PL4000, dimmable multiwhite, 2700 - 5000 K
- ✓ Smart-driver SD4000
- ✓ Control unit CU4000, multiwhite, asynchronous – to enable control of linear lights independently of downlights
- ✓ Smart sensor switch BS3000 – to switch light on / off, adjust brightness and colour temperature

Create a stylish entrance with indirect lighting for wardrobe niches and downlights for accentuation. This blend of gentle and focused light elevates both function and aesthetics.

Learn more at [www.voxaura.ai](http://www.voxaura.ai)

✓ Wardrobe linear light PL4006, monochrome, 3000 K

✓ Driver ID4001

✓ Light is switched by motion sensor automatically when movement is detected.

✓ Linear light PL4009, dimmable, monochrome, 3000 K

✓ Driver ID4001

✓ Stick sensor switch WS3001  
– to switch light on / off and dim brightness

✓ Linear light PL4008, dimmable, monochrome, 3000 K

✓ Driver ID4001

✓ Wired sensor switch WS3000,  
– to switch light on / off and dim brightness

✓ Mini spot light SC4000, dimmable, monochrome, 3000 K

✓ Driver ID4001

✓ Wired sensor switch WS3000  
– to switch light on / off and dim brightness

✓ Linear light PL4000, dimmable, monochrome, 3000 K

✓ Driver ID4001

✓ Wired sensor switch WS3000  
– to switch light on / off and dim brightness

Stage your dressing room like your favorite store with the help of light. Balanced illumination eliminates shadows, making every corner of your wardrobe easily accessible while spot lights highlight your favorite pieces.

Learn more at [www.voxaura.ai](http://www.voxaura.ai)

- ✓ Glass-shelf linear light PL4004, dimmable, multiwhite, 2700 - 5000 K
- ✓ Smart-driver SD4000
- ✓ Control unit CU4000, multiwhite, synchronous – to enable control of all connected lights simultaneously
- ✓ Smart sensor switch BS3000 – to switch light on / off, adjust brightness and colour temperature

- ✓ Linear light PL4000, multiwhite, 2700 - 5000K
- ✓ Smart-driver SD4000
- ✓ Control unit CU4000, multiwhite, asynchronous – to enable control of two lighting groups independently of each other
- ✓ Smart sensor switch BS3000 – to switch light on / off automatically by opening / closing the door

- ✓ Illuminated glass shelf PL4012, multiwhite, 2700 - 5000K
- ✓ Smart-driver SD4000
- ✓ Control unit CU4000, multiwhite, asynchronous – to enable control of two lighting groups independently of each other
- ✓ Smart sensor switch BS3000 – to switch light on / off and dim brightness touchless by swiping

- ✓ Silicone LED-ribbon LS4040, dimmable, multiwhite 2700 - 5000 K + profile API1000 for plinth
- ✓ Smart-driver SD4000
- ✓ Control unit CU4000, multiwhite, synchronous – to enable control of all connected lights simultaneously
- ✓ Smart sensor switch BS3000 – to switch light on / off, adjust brightness and colour temperature

The kitchen is not just for cooking, it's also a place for living and it's not unusual for the best parties to take place in the kitchen.

By choosing different types of lighting, your kitchen can meet a wide range of requirements.

Learn more at [www.voxaura.ai](http://www.voxaura.ai)

**MORE** PERFORMANCE  
**HIGHER** EFFICIENCY  
**BEST** APPLICATION

**24V**

**+ LOWER CURRENT**

24V systems work with half the current of 12V systems, reducing heat and current losses, leading to increased lifespan.

**+ LONGER RIBBON**

Lower current and higher voltage allow longer ribbons with minimal voltage drop.

**+ ENERGY EFFICIENCY**

Lower energy consumption means lower operating costs.

**+ FASTER PRODUCT AVAILABILITY**

Focusing on a single system significantly reduces stock size for products and accessories.

**+ CUT DISTANCE**

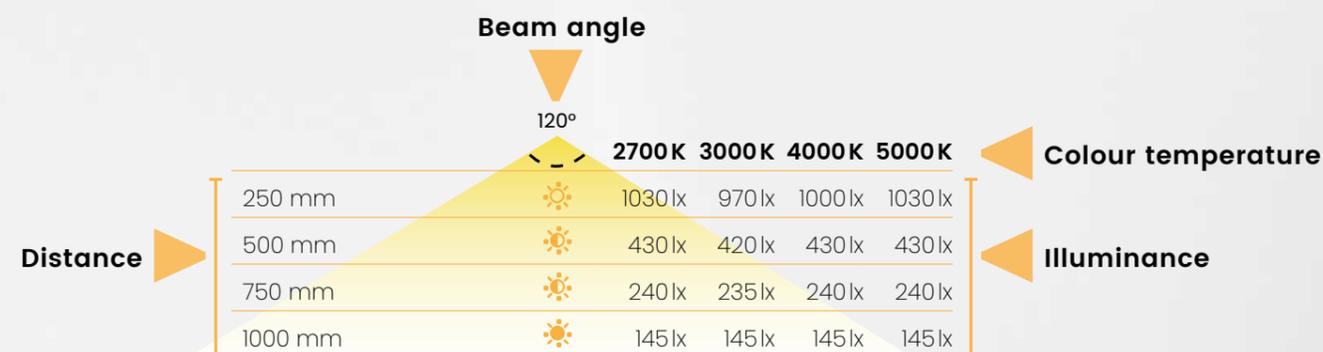
24V LED-ribbons feature more LED chips than standard 12V LED-ribbons and can be cut to any size without loss of brightness, even the corners are brightly lit.

**+ FROM FURNITURE TO SPACE**

24V systems enable the seamless integration of furniture and ceiling lighting. One voltage. One system.

**DIALUX**

SIGNIFICANT FACTORS INFLUENCING ILLUMINATION



**DIALUX illustrates the relationship between the distance from a light source, its beam angle and colour temperature as well as the resulting illuminance:**

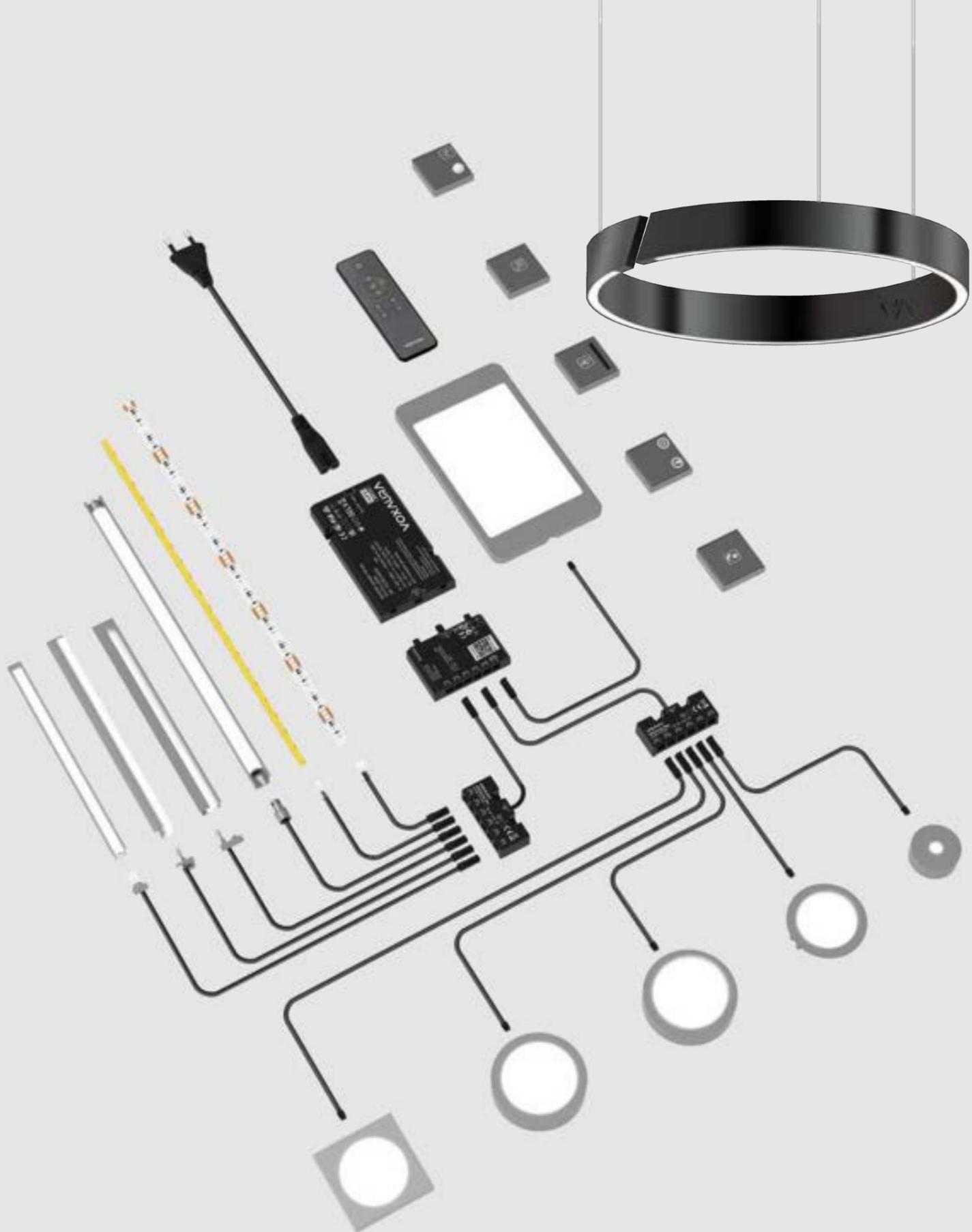
- Increasing distance leads to decreasing illuminance.
- A small beam angle produces a focused beam of light with high illuminance, while a wide beam angle produces a wider light cone with less illuminance.
- Although warm white and cool white light can technically have the same illuminance, cool white light mostly seems brighter than warm white light.

So the DIALUX shows the illuminance depending on the most relevant influencing factors and helps you to choose the suitable light according to your needs.

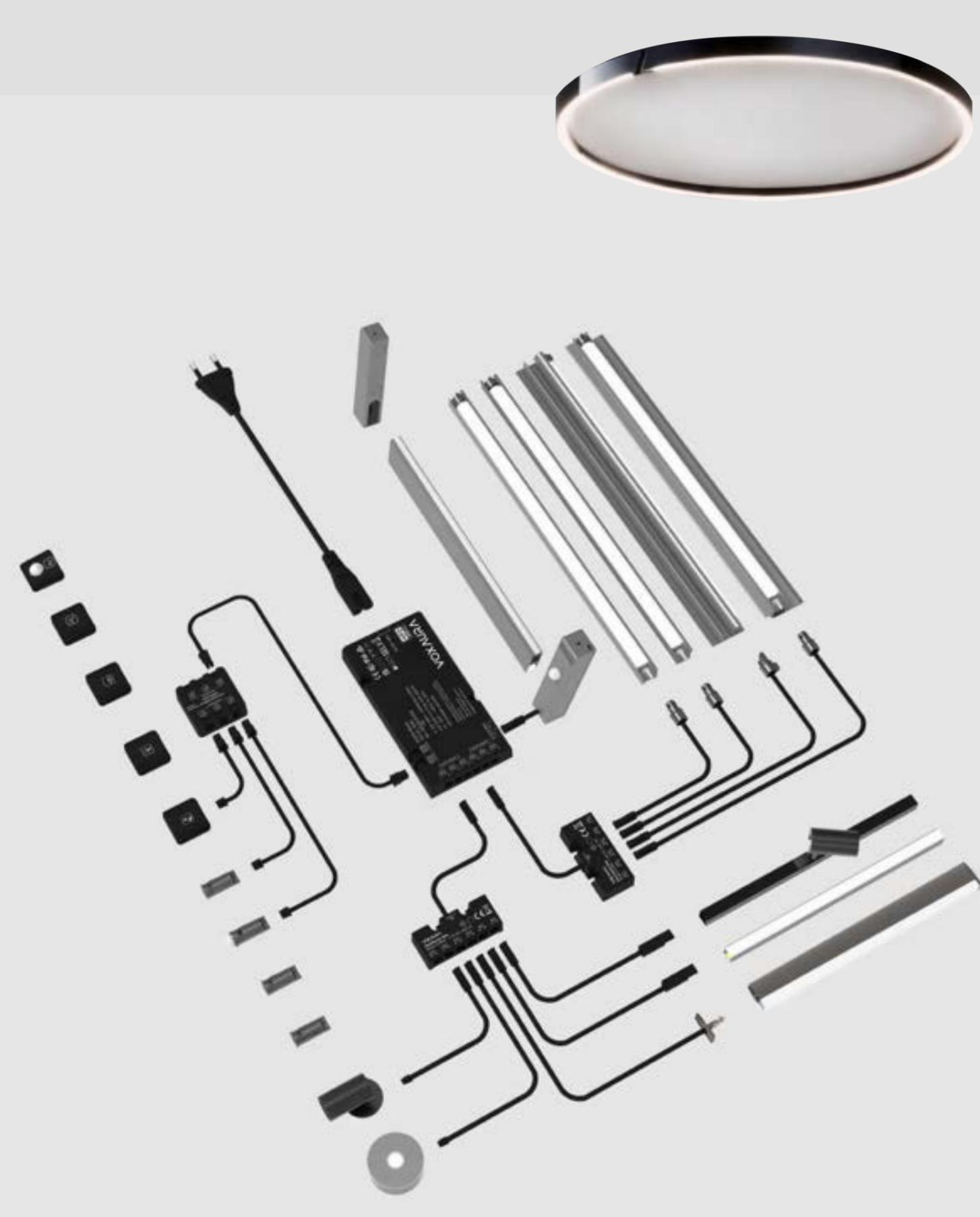
**RECOMMENDATION FOR ILLUMINANCE**

| type of room       | illuminance working area | illuminance floor |
|--------------------|--------------------------|-------------------|
| kitchen, office    | 500 lx                   | 150 lx            |
| dining room        | 300 lx                   | 100 lx            |
| living room        | 300 lx                   | 100 lx            |
| bed room           | 200 lx                   | 100 lx            |
| bath room          | 200 – 500 lx             | 100-150 lx        |
| show room, gallery | 300 – 500 lx             | 150 lx            |
| hallway, stairs    | ---                      | 100 lx            |

Please note that certain activities require higher illuminance (for example room cleaning up to 500 lx).



SYSTEM OVERVIEW WITH  
**SMART-DRIVER**



SYSTEM OVERVIEW WITH  
**DRIVER**

## LED-RIBBONS

24V  
overview

### SMD LED-RIBBONS

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| Colour system  | Familyname | lm/m   | W/m | Width mm | Degree of protection | page |
|----------------|------------|--------|-----|----------|----------------------|------|
| LED monochrome | LS4000     | > 950  | 5   | 5        | IP20                 | 023  |
|                | LS4002     | > 950  | 5   | 8        | IP20                 | 025  |
|                | LS4003     | > 950  | 5   | 8        | IP20                 | 025  |
|                | LS4001     | > 1900 | 10  | 5        | IP20                 | 023  |
|                | LS4004     | > 1900 | 10  | 8        | IP20                 | 025  |
| LED multiwhite | LS4050     | > 1850 | 10  | 10       | IP20                 | 027  |
| LED RGB        | LS4080     | ---    | 10  | 10       | IP20                 | 029  |
| LED RGB-MW     | LS4090     | > 1250 | 10  | 12       | IP20                 | 031  |

### SMD LED-RIBBONS CONSTANT CURRENT TECHNOLOGY

25

|                |        |        |     |   |      |     |
|----------------|--------|--------|-----|---|------|-----|
| LED monochrome | LS4005 | > 1400 | 8,5 | 8 | IP20 | 025 |
|----------------|--------|--------|-----|---|------|-----|

### COB LED-RIBBONS

33

|                |        |       |   |   |      |     |
|----------------|--------|-------|---|---|------|-----|
| LED monochrome | LS4030 | > 450 | 5 | 5 | IP20 | 033 |
| LED monochrome | LS4031 | > 720 | 8 | 8 | IP20 | 035 |
| LED multiwhite |        | > 680 | 8 | 8 | IP20 | 035 |

### SMD LED-RIBBONS SILICONE

37

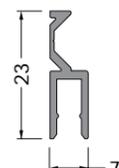
|                |        |       |   |    |      |     |
|----------------|--------|-------|---|----|------|-----|
| LED monochrome | LS4040 | > 200 | 8 | 4  | IP44 | 037 |
| LED multiwhite | LS4041 | > 560 | 8 | 10 | IP44 | 039 |

## PROFILES FOR LED-RIBBONS

24V  
overview

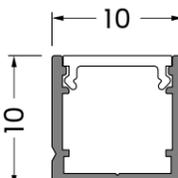
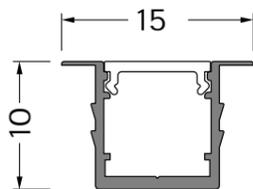
### FOR 4 mm SILICONE LED-RIBBONS

43

| Technical drawing   | Familyname | Dimensions (L x W x H) | Installation | page |
|---|------------|------------------------|--------------|------|
|  | AP1000     | 1000 x 7 x 23 mm       | surface      | 043  |

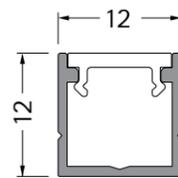
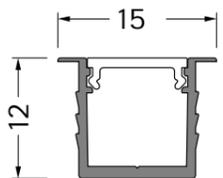
### FOR 5 mm LED-RIBBONS

44

|   |        |                   |          |     |
|---|--------|-------------------|----------|-----|
|   | AP1001 | 3000 x 10 x 10 mm | surface  | 044 |
|  | AP1003 | 3000 x 15 x 10 mm | recessed | 045 |

### FOR 8 mm LED-RIBBONS

44

|   |        |                   |          |     |
|---|--------|-------------------|----------|-----|
|  | AP1002 | 3000 x 12 x 12 mm | surface  | 044 |
|  | AP1004 | 3000 x 15 x 12 mm | recessed | 045 |

# LINEAR LIGHTS

24V  
overview

CUT-TO-SIZE MONOCHROME / MULTIWHITE 47

|  | Familyname    | lm/m  | W/m | Length mm | Technical drawing | page |
|--|---------------|-------|-----|-----------|-------------------|------|
|  | <b>PL4000</b> | > 118 | 5   | 3000      |                   | 049  |
|  | <b>PL4001</b> | 118   | 5   | 1000      |                   | 049  |
|  | <b>PL4002</b> | > 114 | 5   | 3000      |                   | 051  |
|  | <b>PL4003</b> | > 298 | 5   | 3000      |                   | 055  |
|  | <b>PL4011</b> | > 50  | 5   | 3000      |                   | 053  |
|  | <b>PL4004</b> | > 186 | 5   | 3000      |                   | 057  |

# LINEAR LIGHTS

24V  
overview

CUT-TO-SIZE MONOCHROME / MULTIWHITE 59

|  | Familyname    | lm/m  | W/m | Length mm | Technical drawing | page |
|--|---------------|-------|-----|-----------|-------------------|------|
|  | <b>PL4005</b> | 118   | 5   | 1000      |                   | 059  |
|  | <b>PL4006</b> | 96    | 5   | 3000      |                   | 061  |
|  | <b>PL4007</b> | > 350 | 5   | 3000      |                   | 063  |
|  | <b>PL4008</b> | > 350 | 5   | 3000      |                   | 065  |
|  | <b>PL4009</b> | > 350 | 5   | 3000      |                   | 067  |
|  | <b>PL4010</b> | > 350 | 5   | 3000      |                   | 069  |

## ILLUMINATED GLASS SHELVES

24V  
overview

LED LED MONOCHROME / MULTIWHITE

71

| Familyname  | lm            | W  | Dimensions | Colour              | page              |     |
|---|---------------|----|------------|---------------------|-------------------|-----|
|  | <b>PL4012</b> | 50 | 3          | 600 x 230 x 30,5 mm | aluminum<br>black | 072 |
|   |               | 75 | 4,5        | 900 x 230 x 30,5 mm |                   |     |

## DOWNLIGHTS

24V  
overview

LED LED MONOCHROME / MULTIWHITE

79

| Familyname  | lm            | W     | Dimensions | Installation   | page                |     |
|---|---------------|-------|------------|----------------|---------------------|-----|
|  | <b>SL4004</b> | > 299 | 2,5        | Ø 65 x 13,7 mm | recessed or surface | 079 |
|  | <b>SL4005</b> | > 316 | 3          | Ø 75 x 13,7 mm | recessed or surface | 080 |

## DOWNLIGHTS

24V  
overview

LED MONOCHROME

73

| Familyname  | lm            | W     | Dimensions | Installation     | page                   |     |
|---|---------------|-------|------------|------------------|------------------------|-----|
|    | <b>SL4001</b> | > 210 | 2,5        | 62 x 62 x 7,8 mm | surface                | 075 |
|    | <b>SL4002</b> | > 210 | 2,5        | Ø 62 x 7,8 mm    | surface                | 076 |
|   | <b>SL4003</b> | > 537 | 5          | 192 x 112 x 6 mm | surface                | 077 |
|  | <b>SL4006</b> | > 117 | 1          | Ø 41 x 12,7 mm   | recessed or<br>surface | 081 |
|  | <b>SL4007</b> | > 351 | 3          | Ø 75 x 12,7 mm   | recessed or<br>surface | 082 |

## MINI TRACK LIGHTS

⚡ 24V  
overview

### LED TRACKS & SPOTS 83

|   | Familyname    | lm  | W   | Dimensions        | Installation | page |
|---|---------------|-----|-----|-------------------|--------------|------|
|  | <b>TL4002</b> | --- | --- | 3000 x 15 x 10 mm | recessed     | 085  |
|  | <b>TL4003</b> | --- | --- | 3000 x 10 x 10 mm | surface      | 085  |
|  | <b>TL4001</b> | 135 | 1   | Ø 18 x 45 x 47 mm | clip-in      | 087  |
|   | <b>TL4005</b> | 390 | 2,5 |                   |              |      |

## SHOWCASE LIGHTS

⚡ 24V  
overview

### LED SPOTLIGHTS 89

|   | Familyname    | lm  | W   | Dimensions          | Installation | page |
|---|---------------|-----|-----|---------------------|--------------|------|
|  | <b>SC4000</b> | 390 | 2,5 | Ø 18 x 45 x 43,2 mm | recessed     | 091  |
|  | <b>SC4001</b> | 390 | 2,5 | Ø 18 x 45 x 350 mm  | recessed     | 093  |
|  | <b>TL4004</b> | --- | --- | 450 x 15 x 13 mm    | recessed     | 095  |

## CEILING LIGHTS

⚡ 24 / 36V  
overview

### LED CEILING LIGHTS 97

|   | Familyname      | lm          | W  | Dimensions     | Colour                       | page |
|---|-----------------|-------------|----|----------------|------------------------------|------|
|    |                 | 572 - 1.320 | 30 | Ø 600 mm       | graphite black<br>silk white | 101  |
|   | <b>ONE AURA</b> | 488 - 1.130 | 25 |                |                              |      |
|   |                 | 476 - 1.659 | 30 | Ø 600 mm       | graphite black<br>silk white | 103  |
|   | <b>ONE ARC</b>  | 402 - 1.402 | 25 |                |                              |      |
|  | <b>ONE RISE</b> | 490 - 627   | 8  | Ø 130 x 120 mm | graphite black<br>silk white | 105  |
|  | <b>ONE SPOT</b> | 903 - 1019  | 12 | Ø 85 x 52 mm   | silk white                   | 107  |



# LED RIBBONS

# SMD LED-RIBBONS

**24V**  
monochrome (2-pin), 5 mm

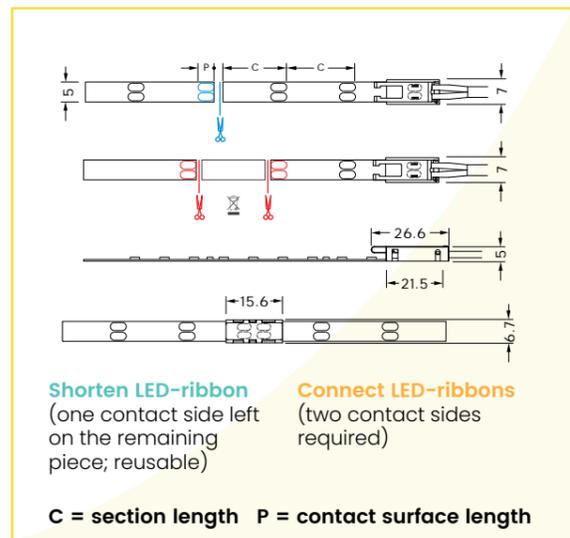


- HIGH LUMINOUS FLUX
- High CRI **93**

## LS4000 / LS4001



|                             |               |
|-----------------------------|---------------|
| <b>Material</b>             | plastic       |
| <b>Surface finish</b>       | white         |
| <b>Width</b>                | 5 mm          |
| <b>Height</b>               | 1,3 mm        |
| <b>Dimmable</b>             | yes           |
| <b>Degree of protection</b> | IP20          |
| <b>Lifetime L80/B10</b>     | >50.000 h     |
| <b>Lifetime L70/B50</b>     | >80.000 h     |
| <b>Installation</b>         | self-adhesive |
| <b>Scope of delivery</b>    | 1 role (5 m)  |



### Illuminance in lx based on 1 m strip length:

|         | 120° <b>LS4000</b> |         |         |         |
|---------|--------------------|---------|---------|---------|
|         | 2700K              | 5000K   | 3000K   | 4000K   |
| 250 mm  | 4820 lx            | 5100 lx | 4820 lx | 5100 lx |
| 500 mm  | 1205 lx            | 1275 lx | 1205 lx | 1275 lx |
| 750 mm  | 535 lx             | 565 lx  | 535 lx  | 565 lx  |
| 1000 mm | 300 lx             | 315 lx  | 300 lx  | 315 lx  |

|         | 120° <b>LS4001</b> |         |         |         |
|---------|--------------------|---------|---------|---------|
|         | 2700K              | 5000K   | 3000K   | 4000K   |
| 250 mm  | 8640 lx            | 8870 lx | 8640 lx | 8870 lx |
| 500 mm  | 2160 lx            | 2220 lx | 2160 lx | 2220 lx |
| 750 mm  | 960 lx             | 985 lx  | 960 lx  | 985 lx  |
| 1000 mm | 540 lx             | 555 lx  | 540 lx  | 555 lx  |

## LS4000 / LS4001

| Number of LEDs | Wattage | Luminous flux | Lumen efficacy | Colour Rendering Index CRI |    | Colour temperature | Energy efficiency class | Max. ribbon length (visual) | Section length | Contact surface length | Article number |
|----------------|---------|---------------|----------------|----------------------------|----|--------------------|-------------------------|-----------------------------|----------------|------------------------|----------------|
|                |         |               |                | Ra                         | R9 |                    |                         |                             |                |                        |                |

| LS4000 for furniture, plinth, ambient lighting <span style="float:right">5 m</span> |   |     |     |    |     |      |     |     |      |     |               |
|---|---|-----|-----|----|-----|------|-----|-----|------|-----|---------------|
| 128   | 5 | 950 | 190 | 93 | >50 | 2700 | A B | 8,0 | 62,5 | 4,0 | 200.10.00.001 |
|   | 5 | 950 | 190 | 93 | >50 | 3000 | A B | 8,0 | 62,5 | 4,0 | 200.10.00.002 |
|   | 5 | 975 | 195 | 93 | >50 | 4000 | A B | 8,0 | 62,5 | 4,0 | 200.10.00.003 |
|   | 5 | 975 | 195 | 93 | >50 | 5000 | A B | 8,0 | 62,5 | 4,0 | 200.10.00.004 |

| LS4001 for ceiling |    |      |     |    |     |      |     |     |      |     |               |
|--------------------|----|------|-----|----|-----|------|-----|-----|------|-----|---------------|
| 128                | 10 | 1900 | 190 | 93 | >50 | 2700 | A B | 5,0 | 62,5 | 4,0 | 200.10.00.005 |
|                    | 10 | 1900 | 190 | 93 | >50 | 3000 | A B | 5,0 | 62,5 | 4,0 | 200.10.00.006 |
|                    | 10 | 1950 | 195 | 93 | >50 | 4000 | A B | 5,0 | 62,5 | 4,0 | 200.10.00.007 |
|                    | 10 | 1950 | 195 | 93 | >50 | 5000 | A B | 5,0 | 62,5 | 4,0 | 200.10.00.008 |

**i** Calculate the wattage requirement of the LED-ribbon in the desired length and select a driver that can supply the required power. In addition to the requirements of the LED-ribbon, please also take into account the requirements of other lights/consumers that are connected to the same driver. The total wattage requirement of all connected loads must not exceed the output of the driver.

| ORDER INFO  |   |               |
|---|---|---------------|
| Additional connecting accessories need to be ordered separately |   |               |
|   | Drivers (integrated)  | see page 135  |
|   | Smart-drivers + control unit                                  | see page 125  |
|   | 1 connecting cable 2 m incl. clip connector (2-pin) 5 mm, 24V | 209.19.00.003 |
|   | Straight connectors (2-pin) 5 mm (10 pcs)                     | 209.19.00.001 |

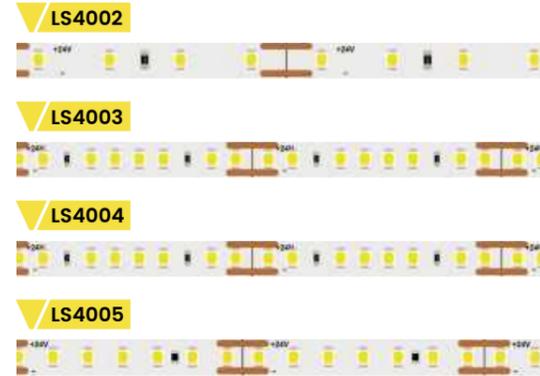
# SMD LED-RIBBONS

**24V**  
monochrome (2-pin), 8 mm



- HIGH LUMINOUS FLUX
- HIGH CRI **93**
- **CONSTANT CURRENT TECHNOLOGY (LS4005)**

## LS4002 / LS4003 / LS4004 / LS4005



|                             |                   |
|-----------------------------|-------------------|
| <b>Material</b>             | plastic           |
| <b>Surface finish</b>       | white             |
| <b>Width</b>                | 8 mm              |
| <b>Height</b>               | 1,5 mm            |
| <b>Dimmable</b>             | yes               |
| <b>Degree of protection</b> | IP20              |
| <b>Lifetime L80/B10</b>     | >50.000 h         |
| <b>Lifetime L70/B50</b>     | >80.000 h         |
| <b>Installation</b>         | self-adhesive     |
| <b>Scope of delivery</b>    | 1 role (5 / 15 m) |

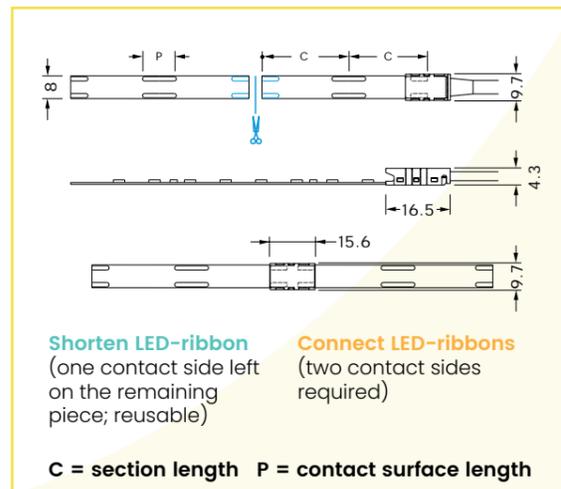
### Illuminance in lx based on 1 m strip length:

|         | 120° <b>LS4002</b> |         |         |         |
|---------|--------------------|---------|---------|---------|
|         | 2700 K             | 5000 K  | 3000 K  | 4000 K  |
| 250 mm  | 4460 lx            | 4575 lx | 4460 lx | 4575 lx |
| 500 mm  | 1115 lx            | 1145 lx | 1115 lx | 1145 lx |
| 750 mm  | 495 lx             | 510 lx  | 495 lx  | 510 lx  |
| 1000 mm | 280 lx             | 285 lx  | 280 lx  | 285 lx  |

|         | 120° <b>LS4003</b> |         |         |         |
|---------|--------------------|---------|---------|---------|
|         | 2700 K             | 5000 K  | 3000 K  | 4000 K  |
| 250 mm  | 4820 lx            | 5100 lx | 4820 lx | 5100 lx |
| 500 mm  | 1205 lx            | 1275 lx | 1205 lx | 1275 lx |
| 750 mm  | 535 lx             | 565 lx  | 535 lx  | 565 lx  |
| 1000 mm | 300 lx             | 315 lx  | 300 lx  | 315 lx  |

|         | 120° <b>LS4004</b> |         |         |         |
|---------|--------------------|---------|---------|---------|
|         | 2700 K             | 5000 K  | 3000 K  | 4000 K  |
| 250 mm  | 8640 lx            | 8870 lx | 8640 lx | 8870 lx |
| 500 mm  | 2160 lx            | 2220 lx | 2160 lx | 2220 lx |
| 750 mm  | 960 lx             | 985 lx  | 960 lx  | 985 lx  |
| 1000 mm | 540 lx             | 555 lx  | 540 lx  | 555 lx  |

|         | 120° <b>LS4005</b> |         |         |         |
|---------|--------------------|---------|---------|---------|
|         | 2700 K             | 5000 K  | 3000 K  | 4000 K  |
| 250 mm  | 7010 lx            | 7125 lx | 7010 lx | 7125 lx |
| 500 mm  | 1755 lx            | 1785 lx | 1755 lx | 1785 lx |
| 750 mm  | 780 lx             | 795 lx  | 780 lx  | 795 lx  |
| 1000 mm | 440 lx             | 445 lx  | 440 lx  | 445 lx  |



**LS4005**  
 The **LS4005** product family features **constant current technology**. This technology enables a (visual) **strip length of up to 15 m without a significant drop in luminous flux**. Also suitable for short-term voltage peaks up to 16 V thanks to the integrated IC. This is why LED strips with constant current technology are **ideal for ceiling lighting and lighting in caravans**.

Calculate the wattage requirement of the LED-ribbon in the desired length and select a driver that can supply the required power. In addition to the requirements of the LED-ribbon, please also take into account the requirements of other lights/consumers that are connected to the same driver. The total wattage requirement of all connected loads must not exceed the output of the driver.

## LS4002 / LS4003 / LS4004 / LS4005

| Number of LEDs | Wattage | Luminous flux | Lumen efficacy | Colour Rendering Index CRI | Colour temperature | Energy efficiency class | Max. ribbon length (visual) | Section length | Contact surface length | Article number |
|----------------|---------|---------------|----------------|----------------------------|--------------------|-------------------------|-----------------------------|----------------|------------------------|----------------|
| LEDs/m         | W/m     | lm/m          | lm/W           | Ra R9                      | K                  | EEL                     | m                           | mm             | mm                     |                |

**LS4002 for ceiling** **5 m**

|    |   |     |     |        |      |     |      |       |      |               |
|----|---|-----|-----|--------|------|-----|------|-------|------|---------------|
| 64 | 5 | 950 | 190 | 93 >50 | 2700 | A B | 12,0 | 125,0 | 10,0 | 200.10.00.009 |
|    | 5 | 950 | 190 | 93 >50 | 3000 | A B | 12,0 | 125,0 | 10,0 | 200.10.00.010 |
|    | 5 | 975 | 195 | 93 >50 | 4000 | A B | 12,0 | 125,0 | 10,0 | 200.10.00.011 |
|    | 5 | 975 | 195 | 93 >50 | 5000 | A B | 12,0 | 125,0 | 10,0 | 200.10.00.012 |

**LS4003 for low area application (e.g. plinth)**

|     |   |     |     |        |      |     |      |      |      |               |
|-----|---|-----|-----|--------|------|-----|------|------|------|---------------|
| 128 | 5 | 950 | 190 | 93 >50 | 2700 | A B | 12,0 | 62,5 | 10,0 | 200.10.00.013 |
|     | 5 | 950 | 190 | 93 >50 | 3000 | A B | 12,0 | 62,5 | 10,0 | 200.10.00.014 |
|     | 5 | 975 | 195 | 93 >50 | 4000 | A B | 12,0 | 62,5 | 10,0 | 200.10.00.015 |
|     | 5 | 975 | 195 | 93 >50 | 5000 | A B | 12,0 | 62,5 | 10,0 | 200.10.00.016 |

**LS4004 for ceiling, showroom, task light**

|     |    |      |     |        |      |     |     |      |      |               |
|-----|----|------|-----|--------|------|-----|-----|------|------|---------------|
| 128 | 10 | 1900 | 190 | 93 >50 | 2700 | A B | 8,0 | 62,5 | 10,0 | 200.10.00.017 |
|     | 10 | 1900 | 190 | 93 >50 | 3000 | A B | 8,0 | 62,5 | 10,0 | 200.10.00.018 |
|     | 10 | 1950 | 195 | 93 >50 | 4000 | A B | 8,0 | 62,5 | 10,0 | 200.10.00.019 |
|     | 10 | 1950 | 195 | 93 >50 | 5000 | A B | 8,0 | 62,5 | 10,0 | 200.10.00.020 |

**LS4005 for caravan, ceiling** **15 m**

|     |     |      |     |        |      |     |      |      |      |               |
|-----|-----|------|-----|--------|------|-----|------|------|------|---------------|
| 126 | 8,5 | 1400 | 165 | 93 >50 | 2700 | A C | 15,0 | 55,5 | 10,0 | 200.10.00.021 |
|     | 8,5 | 1400 | 165 | 93 >50 | 3000 | A C | 15,0 | 55,5 | 10,0 | 200.10.00.022 |
|     | 8,5 | 1450 | 170 | 93 >50 | 4000 | A C | 15,0 | 55,5 | 10,0 | 200.10.00.023 |
|     | 8,5 | 1450 | 170 | 93 >50 | 5000 | A C | 15,0 | 55,5 | 10,0 | 200.10.00.024 |

| ORDER INFO | Additional connecting accessories need to be ordered separately  |
|------------|--|
|            | Drivers (integrated) <span style="float: right;">see page 135</span>   |
|            | Smart-drivers + control unit <span style="float: right;">see page 125</span>                                   |
|            | 1 connecting cable 2 m incl. clip connector (2-pin) 8 mm, 24V <span style="float: right;">209.19.00.004</span> |
|            | Straight connectors (2-pin) 8 mm (10 pcs) <span style="float: right;">209.09.00.001</span>                     |

# SMD LED-RIBBONS

**24V**  
multiwhite (3-pin), 10 mm



• HIGH EFFICACY **190 lm/W**  
• HIGH CRI **93**

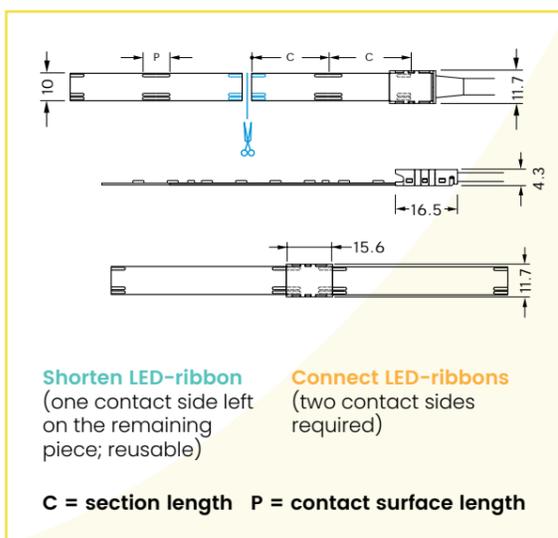
## LS4050



**Area of application**  
▪ only ceiling  
(not for furniture)



|                             |               |
|-----------------------------|---------------|
| <b>Material</b>             | plastic       |
| <b>Surface finish</b>       | white         |
| <b>Width</b>                | 10 mm         |
| <b>Height</b>               | 1,5 mm        |
| <b>Dimmable</b>             | yes           |
| <b>Degree of protection</b> | IP20          |
| <b>Lifetime L80/B10</b>     | >50.000 h     |
| <b>Lifetime L70/B50</b>     | >80.000 h     |
| <b>Installation</b>         | self-adhesive |
| <b>Scope of delivery</b>    | 1 role (5 m)  |



### Illuminance in lx based on 1 m strip length:

|         | 120° | 2700K   | 5000K   |
|---------|------|---------|---------|
| 250 mm  |      | 8595 lx | 8780 lx |
| 500 mm  |      | 2145 lx | 2195 lx |
| 750 mm  |      | 955 lx  | 975 lx  |
| 1000 mm |      | 535 lx  | 550 lx  |

## LS4050

| Number of LEDs | Wattage | Luminous flux | Lumen efficacy | Colour Rendering Index CRI |    | Colour temperature | Energy efficiency class | Max. ribbon length (visual) | Section length | Contact surface length | Article number |
|----------------|---------|---------------|----------------|----------------------------|----|--------------------|-------------------------|-----------------------------|----------------|------------------------|----------------|
|                |         |               |                | Ra                         | R9 |                    |                         |                             |                |                        |                |
| LEDs/m         | W/m     | lm/m          | lm/W           | Ra                         | R9 | K                  | EEL                     | m                           | mm             | mm                     | <b>5 m</b>     |

### LS4050 for ceiling

|     |    |             |           |    |     |             |            |      |      |      |               |
|-----|----|-------------|-----------|----|-----|-------------|------------|------|------|------|---------------|
| 256 | 10 | 1850 - 1900 | 185 - 190 | 93 | >50 | 2700 - 5000 | <b>A B</b> | 10,0 | 62,5 | 10,0 | 200.11.00.001 |
|-----|----|-------------|-----------|----|-----|-------------|------------|------|------|------|---------------|

### What do I need high-lumen LED-ribbons for?

High-lumen LED-ribbons (e.g., ~1900 lm/m) are useful when you need real working light, not just mood light. They overcome losses from diffusers or indirect mounting, reach 300–750 lx for tasks and “cleaning mode,” and still leave headroom to dim. Ideal for high ceilings, kitchens, workshops, offices, and showrooms where bright, even light is required.

Multiwhite LED-ribbons can only be operated with smart-drivers. Please refer to the order info below.

Calculate the wattage requirement of the LED-ribbon in the desired length and select a driver that can supply the required power. In addition to the requirements of the LED-ribbon, please also take into account the requirements of other lights/consumers that are connected to the same driver. The total wattage requirement of all connected loads must not exceed the output of the driver.

### ORDER INFO

Additional connecting accessories need to be ordered separately



Smart-drivers + control unit

see page 125



1 connecting cable 2 m incl. clip connector (3-pin) 10 mm, 24V

209.19.00.007



Straight connectors (3-pin) 10 mm (10 pcs)

209.19.00.005

# SMD LED-RIBBONS

24V  
RGB (4-pin), 10 mm



16.7 MIO TUNABLE COLOURS

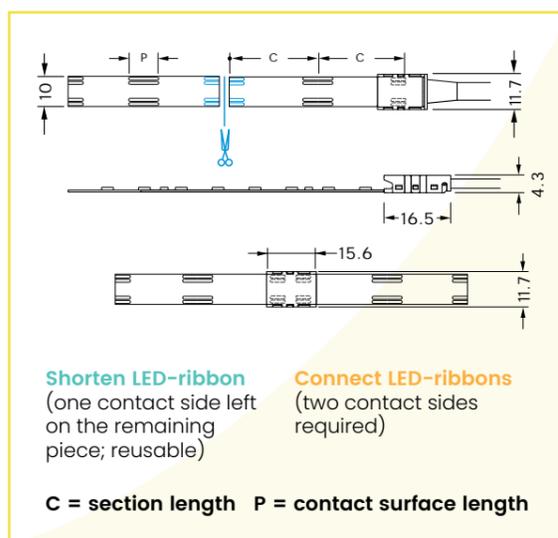
## LS4080



**Area of application**  
 • decorative light  
 • ceiling



|                      |               |
|----------------------|---------------|
| Material             | plastic       |
| Surface finish       | white         |
| Width                | 10 mm         |
| Height               | 1,5 mm        |
| Dimmable             | yes           |
| Degree of protection | IP20          |
| Lifetime L80/B10     | >50.000 h     |
| Lifetime L70/B50     | >80.000 h     |
| Installation         | self-adhesive |
| Scope of delivery    | 1 role (5 m)  |



## LS4080

| Number of LEDs | Wattage | Luminous flux | Lumen efficacy | Colour Rendering Index CRI | Colour temperature | Energy efficiency class | Max. ribbon length (visual) | Section length | Contact surface length | Article number |
|----------------|---------|---------------|----------------|----------------------------|--------------------|-------------------------|-----------------------------|----------------|------------------------|----------------|
| LEDs/m         | W/m     | lm/m          | lm/W           | Ra R9                      | K                  | EEL                     | m                           | mm             | mm                     |                |
| 120            | 10      | ---           | ---            | ---                        | RGB                | ---                     | 10,0                        | 50,0           | 3,0                    | 200.12.00.001  |

LS4080 for decorative light, ceiling

RGB LED-ribbons can only be controlled with **smart drivers** and **VoxAura remote control**. Please refer to below order info.

Calculate the wattage requirement of the LED-ribbon in the desired length and select a driver that can supply the required power. In addition to the requirements of the LED-ribbon, please also take into account the requirements of other lights/consumers that are connected to the same driver. The total wattage requirement of all connected loads must not exceed the output of the driver.

| ORDER INFO | Additional connecting accessories need to be ordered separately |               |
|------------|---|---------------|
|            | Smart-drivers + control unit                                    | see page 125  |
|            | 1 connecting cable 2 m incl. clip connector (4-pin) 10 mm, 24V  | 209.19.00.010 |
|            | Straight connectors (4-pin) 10 mm (10 pcs)                      | 209.19.00.008 |
|            | remote control  | 123.00.01.001 |

# SMD LED-RIBBONS

**24V**  
RGB-multiwhite (6-pin), 12 mm



- HIGH CRI **93**
- 16.7 MIO TUNABLE COLOURS

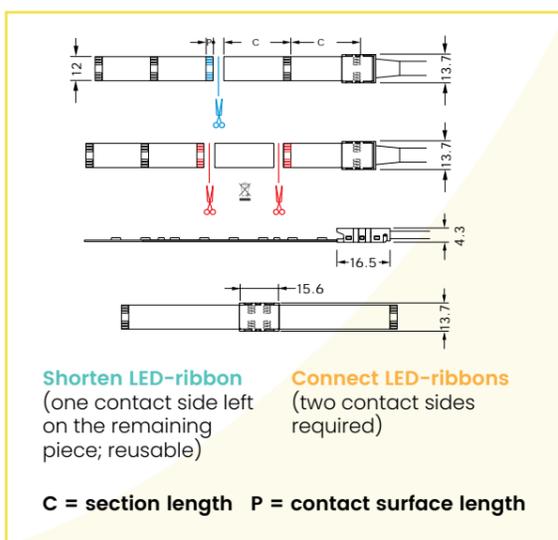
## LS4090



**Area of application**  
▪ ceiling  
(not for furniture)



|                             |               |
|-----------------------------|---------------|
| <b>Material</b>             | plastic       |
| <b>Surface finish</b>       | white         |
| <b>Width</b>                | 12 mm         |
| <b>Height</b>               | 1,5 mm        |
| <b>Dimmable</b>             | yes           |
| <b>Degree of protection</b> | IP20          |
| <b>Lifetime L80/B10</b>     | >50.000 h     |
| <b>Lifetime L70/B50</b>     | >80.000 h     |
| <b>Installation</b>         | self-adhesive |
| <b>Scope of delivery</b>    | 1 role (5 m)  |



### Illuminance in lx based on 1 m strip length:

|         | 120° | 2700K   | 5000K   |
|---------|------|---------|---------|
| 250 mm  |      | 6130 lx | 6475 lx |
| 500 mm  |      | 1535 lx | 1620 lx |
| 750 mm  |      | 680 lx  | 720 lx  |
| 1000 mm |      | 385 lx  | 405 lx  |

## LS4090

| Number of LEDs | Wattage | Luminous flux | Lumen efficacy | Colour Rendering Index CRI | Colour temperature | Energy efficiency class | Max. ribbon length (visual) | Section length | Contact surface length | Article number |
|----------------|---------|---------------|----------------|----------------------------|--------------------|-------------------------|-----------------------------|----------------|------------------------|----------------|
| LEDs/m         | W/m     | lm/m          | lm/W           | Ra R9                      | K                  | EEL                     | m                           | mm             | mm                     |                |
|                |         |               |                |                            |                    |                         |                             |                |                        | <b>5 m</b>     |

### LS4090 for ceiling

|     |    |             |           |        |                   |  |      |     |     |               |
|-----|----|-------------|-----------|--------|-------------------|--|------|-----|-----|---------------|
| 180 | 10 | 1250 - 1350 | 125 - 135 | 93 >50 | RGB MW: 2700-5000 |  | 10,0 | 100 | 3,0 | 200.13.00.001 |
|-----|----|-------------|-----------|--------|-------------------|--|------|-----|-----|---------------|

**i** RGB-multiwhite LED-ribbons can only be controlled with **smart drivers** and **VoxAura remote control**. Please refer to below order info.

**i** Calculate the wattage requirement of the LED-ribbon in the desired length and select a driver that can supply the required power. In addition to the requirements of the LED-ribbon, please also take into account the requirements of other lights/consumers that are connected to the same driver. The total wattage requirement of all connected loads must not exceed the output of the driver.

### ORDER INFO

Additional connecting accessories need to be ordered separately

|  |  |               |
|--|--|---------------|
|  | Smart-drivers + control unit                                   | see page 125  |
|  | 1 connecting cable 2 m incl. clip connector (6-pin) 12 mm, 24V | 209.19.00.012 |
|  | Straight connectors (6-pin) 12 mm (10 pcs)                     | 209.19.00.011 |
|  | remote control   | 123.00.01.001 |

# COB LED-RIBBONS

**24V**  
monochrome (2-pin), 5 mm



- HIGH CRI **93**
- HIGH LUMINOUS FLUX
- BEAM ANGLE **180°**

## LS4030



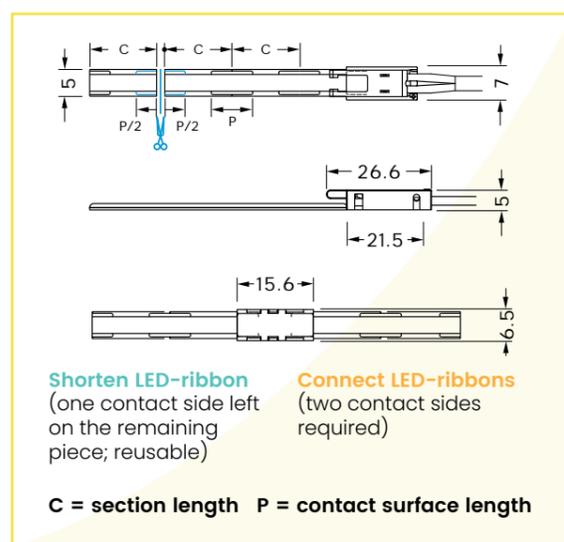
**Area of application**  
• furniture  
(not for ceiling)

|                             |               |
|-----------------------------|---------------|
| <b>Material</b>             | plastic       |
| <b>Surface finish</b>       | silver        |
| <b>Width</b>                | 5 mm          |
| <b>Height</b>               | 1,5 mm        |
| <b>Dimmable</b>             | yes           |
| <b>Degree of protection</b> | IP20          |
| <b>Lifetime L80/B10</b>     | >50.000 h     |
| <b>Lifetime L70/B50</b>     | >80.000 h     |
| <b>Installation</b>         | self-adhesive |
| <b>Scope of delivery</b>    | 1 role (5 m)  |



### Illuminance in lx based on 1 m strip length:

|         | 180° | 2700K   | 5000K   | 3000K   | 4000K   |
|---------|------|---------|---------|---------|---------|
| 250 mm  | ☀    | 1615 lx | 1805 lx | 1700 lx | 1805 lx |
| 500 mm  | ☀    | 405 lx  | 450 lx  | 425 lx  | 450 lx  |
| 750 mm  | ☀    | 180 lx  | 200 lx  | 190 lx  | 200 lx  |
| 1000 mm | ☀    | 100 lx  | 115 lx  | 105 lx  | 115 lx  |



## LS4030

| Number of LEDs | Wattage | Luminous flux | Lumen efficacy | Colour Rendering Index CRI | Colour temperature | Energy efficiency class | Max. ribbon length (visual) | Section length | Contact surface length | Article number |
|----------------|---------|---------------|----------------|----------------------------|--------------------|-------------------------|-----------------------------|----------------|------------------------|----------------|
| LEDs/m         | W/m     | lm/m          | lm/W           | Ra                         | R9                 | K                       | m                           | mm             | mm                     | <b>5 m</b>     |

### LS4030 for furniture

|     |   |     |     |    |     |      |       |     |      |      |               |
|-----|---|-----|-----|----|-----|------|-------|-----|------|------|---------------|
| 320 | 5 | 450 | 90  | 93 | >50 | 2700 | A G F | 5,0 | 12,5 | 10,0 | 200.10.00.025 |
|     | 5 | 475 | 95  | 93 | >50 | 3000 | A G F | 5,0 | 12,5 | 10,0 | 200.10.00.026 |
|     | 5 | 500 | 100 | 93 | >50 | 4000 | A G F | 5,0 | 12,5 | 10,0 | 200.10.00.027 |
|     | 5 | 500 | 100 | 93 | >50 | 5000 | A G F | 5,0 | 12,5 | 10,0 | 200.10.00.028 |

**i** COB LED-ribbons are characterized by a wide beam angle of 180° and homogeneous illumination without visible LED dots.

**i** Calculate the wattage requirement of the LED-ribbon in the desired length and select a driver that can supply the required power. In addition to the requirements of the LED-ribbon, please also take into account the requirements of other lights/consumers that are connected to the same driver. The total wattage requirement of all connected loads must not exceed the output of the driver.

### ORDER INFO

Additional connecting accessories need to be ordered separately

|  |   |               |
|--|---|---------------|
|  | Drivers (integrated)  | see page 135  |
|  | Smart-drivers + control unit                                  | see page 125  |
|  | 1 connecting cable 2 m incl. clip connector (2-pin) 5 mm, 24V | 209.19.00.003 |
|  | Straight connectors (2-pin) 5 mm (10 pcs)                     | 209.19.00.001 |
|  | 90° corner connectors (2-pin) 5 mm (10 pcs)                   | 209.19.00.002 |

# COB LED-RIBBONS

24V

monochrome (2-pin) / multiwhite (2-pin), 8 mm



- HIGH CRI 93
- HIGH LUMINOUS FLUX
- BEAM ANGLE 180°

## LS4031



**Area of application**

- showroom
- ceiling

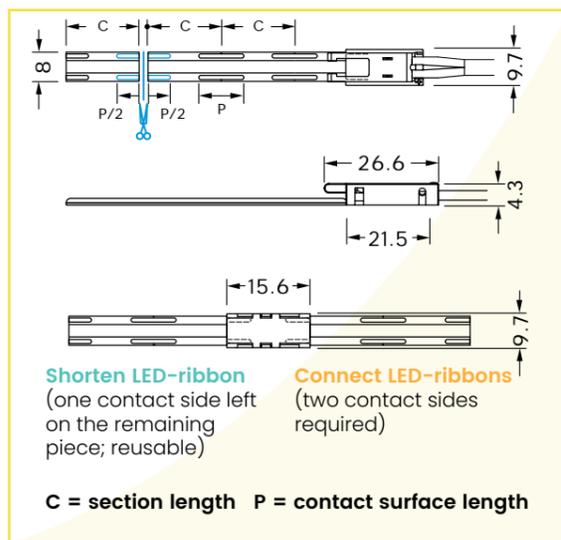


|                             |               |
|-----------------------------|---------------|
| <b>Material</b>             | plastic       |
| <b>Surface finish</b>       | silver        |
| <b>Width</b>                | 8 mm          |
| <b>Height</b>               | 1,5 mm        |
| <b>Dimmable</b>             | yes           |
| <b>Degree of protection</b> | IP20          |
| <b>Lifetime L80/B10</b>     | >50.000 h     |
| <b>Lifetime L70/B50</b>     | >80.000 h     |
| <b>Installation</b>         | self-adhesive |
| <b>Scope of delivery</b>    | 1 role (5 m)  |

### Illuminance in lx based on 1 m strip length:

| LED     | 180° | 2700K 5000K 3000K 4000K |        |         |         |
|---------|------|-------------------------|--------|---------|---------|
|         |      | 250 mm                  | ☀      | 2650 lx | 2925 lx |
| 500 mm  | ☀    | 665 lx                  | 730 lx | 700 lx  | 730 lx  |
| 750 mm  | ☀    | 295 lx                  | 325 lx | 315 lx  | 325 lx  |
| 1000 mm | ☀    | 165 lx                  | 185 lx | 175 lx  | 185 lx  |

| LED     | 180° | 2700K 5000K |        |
|---------|------|-------------|--------|
|         |      | 250 mm      | ☀      |
| 500 mm  | ☀    | 630 lx      | 665 lx |
| 750 mm  | ☀    | 280 lx      | 295 lx |
| 1000 mm | ☀    | 155 lx      | 165 lx |



## LS4031

| Number of LEDs | Wattage | Luminous flux | Lumen efficacy | Colour Rendering Index CRI | Colour temperature | Colour system | Energy efficiency class | Max. ribbon length (visual) | Section length | Contact surface length | Article number |
|----------------|---------|---------------|----------------|----------------------------|--------------------|---------------|-------------------------|-----------------------------|----------------|------------------------|----------------|
| LEDs/m         | W/m     | lm/m          | lm/W           | Ra R9                      | K                  |               | EEL                     | m                           | mm             | mm                     | 5 m            |

### LS4031 for showroom, ceiling

|     |   |           |         |    |     |           |    |   |     |      |      |               |
|-----|---|-----------|---------|----|-----|-----------|----|---|-----|------|------|---------------|
| 320 | 8 | 720       | 90      | 93 | >50 | 2700      | mc | F | 5,0 | 12,5 | 10,0 | 200.10.00.029 |
|     | 8 | 760       | 95      | 93 | >50 | 3000      | mc | F | 5,0 | 12,5 | 10,0 | 200.10.00.030 |
|     | 8 | 800       | 100     | 93 | >50 | 4000      | mc | F | 5,0 | 12,5 | 10,0 | 200.10.00.031 |
|     | 8 | 800       | 100     | 93 | >50 | 5000      | mc | F | 5,0 | 12,5 | 10,0 | 200.10.00.032 |
| 640 | 8 | 680 - 720 | 85 - 90 | 93 | >50 | 2700-5000 | mw | F | 5,0 | 12,5 | 10,0 | 200.11.00.002 |

**i** COB LED-ribbons are characterized by a wide beam angle of 180° and homogeneous illumination without visible LED dots.

**i** Multiwhite LED-ribbons can only be operated with smart-drivers. Please refer to the order info below.

**i** Calculate the wattage requirement of the LED-ribbon in the desired length and select a driver that can supply the required power. In addition to the requirements of the LED-ribbon, please also take into account the requirements of other lights/consumers that are connected to the same driver. The total wattage requirement of all connected loads must not exceed the output of the driver.

| ORDER INFO | Additional connecting accessories need to be ordered separately             |
|------------|---|
|            | Drivers (integrated) see page 135   |
|            | Smart-drivers + control unit see page 125                                   |
|            | 1 connecting cable 2 m incl. clip connector (2-pin) 8 mm, 24V 209.19.00.004 |
|            | Straight connectors (2-pin) 8 mm (10 pcs) 209.09.00.001                     |
|            | 90° corner connectors (2-pin) 8 mm (10 pcs) 209.09.00.002                   |

# SILICONE LED-RIBBONS

**24V**  
 monochrome (2-pin) / multiwhite (2-pin), 4 mm



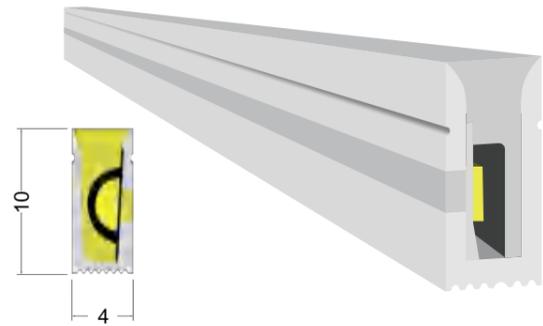
- HIGH CRI 93
- IP44
- SIDE RADIATION

## LS4040



**Area of application**

- furniture
- wet room area

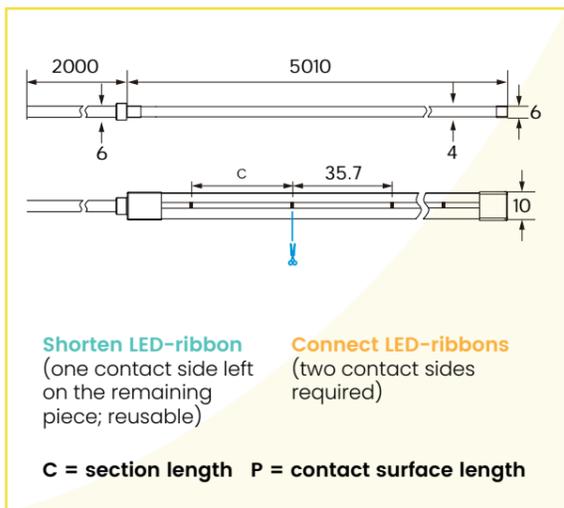


|                      |                 |
|----------------------|-----------------|
| Material             | silicone        |
| Surface finish       | white           |
| Width                | 4 mm (8 mm PCB) |
| Height               | 10 mm           |
| Dimmable             | yes             |
| Degree of protection | IP44            |
| Lifetime L80/B10     | >50.000 h       |
| Lifetime L70/B50     | >80.000 h       |
| Installation         | profile fixing  |
| Scope of delivery    | 1 role (5 m)    |

### Illuminance in lx based on 1 m strip length:

| LED     | 120° | Colour temperature |         |         |         |
|---------|------|--------------------|---------|---------|---------|
|         |      | 2700K              | 5000K   | 3000K   | 4000K   |
| 250 mm  |      | 1225 lx            | 1400 lx | 1310 lx | 1400 lx |
| 500 mm  |      | 305 lx             | 350 lx  | 330 lx  | 350 lx  |
| 750 mm  |      | 135 lx             | 155 lx  | 145 lx  | 155 lx  |
| 1000 mm |      | 75 lx              | 85 lx   | 80 lx   | 85 lx   |

| LED     | 120° | Colour temperature |         |
|---------|------|--------------------|---------|
|         |      | 2700K              | 5000K   |
| 250 mm  |      | 1095 lx            | 1225 lx |
| 500 mm  |      | 275 lx             | 305 lx  |
| 750 mm  |      | 120 lx             | 135 lx  |
| 1000 mm |      | 65 lx              | 75 lx   |



## LS4040

| Number of LEDs | Wattage | Luminous flux | Lumen efficacy | Colour Rendering Index CRI | Colour temperature | Colour system | Energy efficiency class | Max. ribbon length (visual) | Section length | Contact surface length | Article number |
|----------------|---------|---------------|----------------|----------------------------|--------------------|---------------|-------------------------|-----------------------------|----------------|------------------------|----------------|
| LEDs/m         | W/m     | lm/m          | lm/W           | Ra R9                      | K                  |               | EEL                     | m                           | mm             | mm                     |                |
| <b>5 m</b>     |         |               |                |                            |                    |               |                         |                             |                |                        |                |

### LS4040 for furniture, wet room area

|     |   |           |         |    |     |           |    |  |     |      |     |               |
|-----|---|-----------|---------|----|-----|-----------|----|--|-----|------|-----|---------------|
| 320 | 8 | 224       | 28      | 93 | >50 | 2700      | mc |  | 8,0 | 12,5 | 4,0 | 200.10.10.001 |
|     | 8 | 240       | 30      | 93 | >50 | 3000      | mc |  | 8,0 | 12,5 | 4,0 | 200.10.10.002 |
|     | 8 | 256       | 32      | 93 | >50 | 4000      | mc |  | 8,0 | 12,5 | 4,0 | 200.10.10.003 |
|     | 8 | 256       | 32      | 93 | >50 | 5000      | mc |  | 8,0 | 12,5 | 4,0 | 200.10.10.004 |
| 640 | 8 | 200 - 224 | 25 - 28 | 93 | >50 | 2700-5000 | mw |  | 8,0 | 12,5 | 4,0 | 200.11.10.009 |

**i** Thanks to their increased IP protection rating (IP44), silicone LED-ribbons are also **suitable for use in wet rooms such as bathrooms**. Please note that the driver and primary lead must be installed in a dry area.

Silicone LED-ribbons are characterized by light emission even on the small side of the ribbon, **without visible LED dots**.

Due to the material properties of silicone, silicone LED-ribbons **can also be installed in waves and circles**, whereby a radius of at least 30 mm must be observed.

Multiwhite LED-ribbon can only be operated with smart-drivers.

The specified lifetime refers to operation at ambient temperature up to +45°C. Please note that a higher ambient temperature will shorten the lifetime.

**i** Calculate the wattage requirement of the LED-ribbon in the desired length and select a driver that can supply the required power. In addition to the requirements of the LED-ribbon, please also take into account the requirements of other lights/consumers that are connected to the same driver. The total wattage requirement of all connected loads must not exceed the output of the driver.

| ORDER INFO | Accessories for installation and connection need to be ordered separately.  |
|------------|---|
|            | driver (integrated, smart) <span style="float: right;">see page 124</span>  |
|            | 1 connecting cable 2 m incl. clip connector (2-pin) 8 mm, 24V + 1 end cap and 2 shrink tubes <span style="float: right;">209.19.00.014</span> |
|            | Profile aluminum API000 <span style="float: right;">208.99.22.001</span>  |

# SILICONE LED-RIBBONS

**24V**  
 monochrome (2-pin) / multiwhite (2-pin), 10 mm



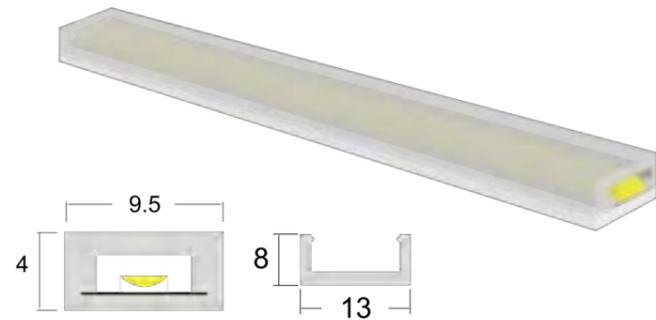
- HIGH CRI 93
- IP44
- SIDE RADIATION

## LS4041



**Area of application**

- ceiling
- wet room area

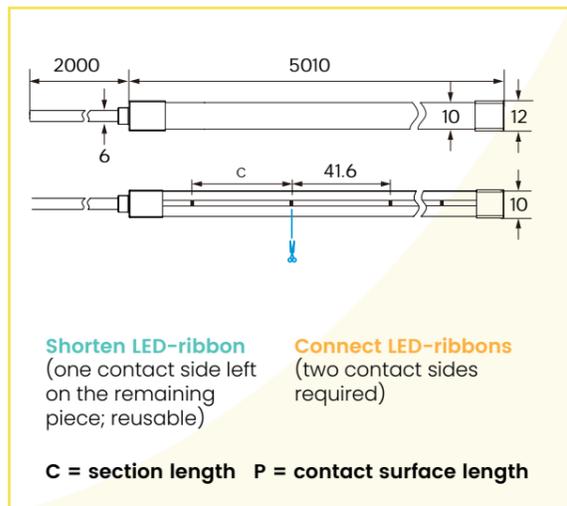


|                             |                             |
|-----------------------------|-----------------------------|
| <b>Material</b>             | silicone                    |
| <b>Surface finish</b>       | white                       |
| <b>Width</b>                | 10 mm (8 mm PCB)            |
| <b>Height</b>               | 4 mm                        |
| <b>Dimmable</b>             | yes                         |
| <b>Degree of protection</b> | IP44                        |
| <b>Lifetime L80/B10</b>     | >50.000 h                   |
| <b>Lifetime L70/B50</b>     | >80.000 h                   |
| <b>Installation</b>         | clip fixing (2 pcs/m)       |
| <b>Scope of delivery</b>    | 1 role (5 m) incl. 10 clips |

### Illuminance in lx based on 1 m strip length:

| LED     | 120°   | 2700K 5000K 3000K 4000K |         |         |         |
|---------|--------|-------------------------|---------|---------|---------|
|         |        | 250 mm                  | 2355 lx | 2650 lx | 2500 lx |
| 500 mm  | 590 lx | 665 lx                  | 630 lx  | 665 lx  |         |
| 750 mm  | 260 lx | 295 lx                  | 280 lx  | 295 lx  |         |
| 1000 mm | 145 lx | 165 lx                  | 155 lx  | 165 lx  |         |

| LED     | 120°   | 2700K 5000K |         |
|---------|--------|-------------|---------|
|         |        | 250 mm      | 2060 lx |
| 500 mm  | 515 lx | 590 lx      |         |
| 750 mm  | 230 lx | 260 lx      |         |
| 1000 mm | 125 lx | 145 lx      |         |



## LS4041

| Number of LEDs | Wattage | Luminous flux | Lumen efficacy | Colour Rendering Index CRI | Colour temperature | Colour system | Energy efficiency class | Max. ribbon length (visual) | Section length | Contact surface length | Article number |
|----------------|---------|---------------|----------------|----------------------------|--------------------|---------------|-------------------------|-----------------------------|----------------|------------------------|----------------|
| LEDs/m         | W/m     | lm/m          | lm/W           | Ra R9                      | K                  |               | EEL                     | m                           | mm             | mm                     | 5 m            |

### LS4041 for ceiling, wet room area

|     |   |           |         |    |     |           |    |   |     |      |      |               |
|-----|---|-----------|---------|----|-----|-----------|----|---|-----|------|------|---------------|
| 320 | 8 | 640       | 80      | 93 | >50 | 2700      | mc | G | 8,0 | 12,5 | 10,0 | 200.10.10.005 |
|     | 8 | 680       | 85      | 93 | >50 | 3000      | mc | G | 8,0 | 12,5 | 10,0 | 200.10.10.006 |
|     | 8 | 720       | 90      | 93 | >50 | 4000      | mc | G | 8,0 | 12,5 | 10,0 | 200.10.10.007 |
|     | 8 | 720       | 90      | 93 | >50 | 5000      | mc | G | 8,0 | 12,5 | 10,0 | 200.10.10.008 |
| 640 | 8 | 560 - 640 | 70 - 80 | 93 | >50 | 2700-5000 | mw | G | 8,0 | 12,5 | 10,0 | 200.11.10.008 |

Thanks to their increased IP protection rating (IP44), silicone LED-ribbons are also **suitable for use in wet rooms such as bathrooms**. Please note that the driver and primary lead must be installed in a dry area.

Silicone LED-ribbons are characterized by light emission even on the small side of the ribbon, **without visible LED dots**.

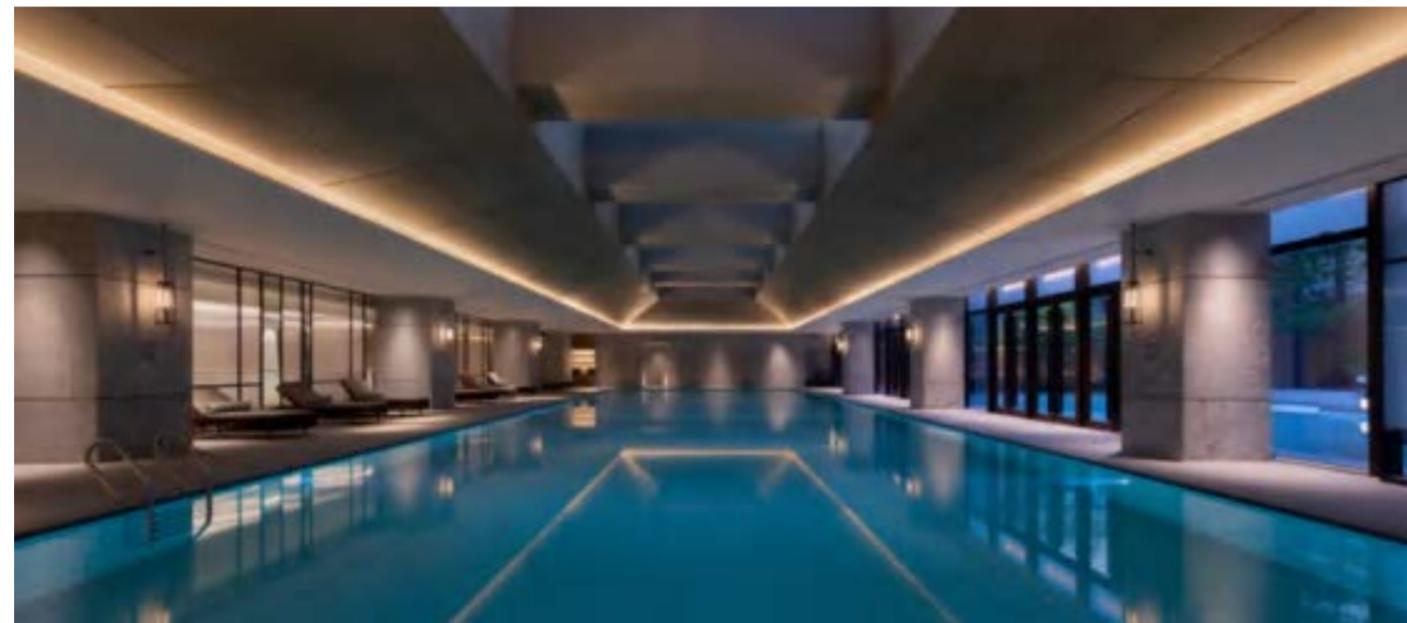
Due to the material properties of silicone, silicone LED-ribbons **can also be installed in waves and circles**, whereby a radius of at least 30 mm must be observed.

Multiwhite LED-ribbon can only be operated with smart-drivers.

The specified lifetime refers to operation at ambient temperature up to +45°C. Please note that a higher ambient temperature will shorten the lifetime.

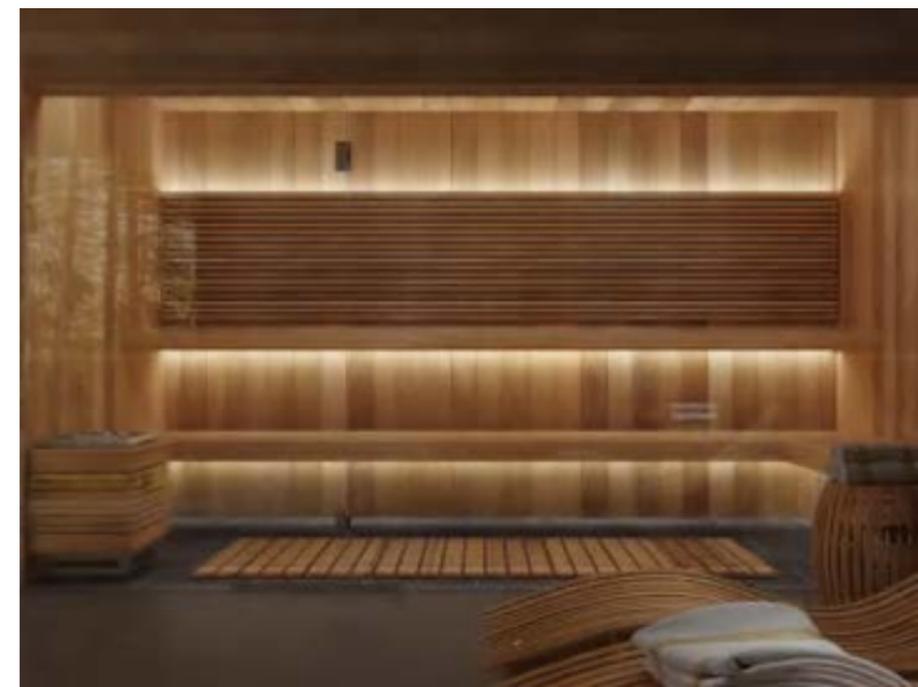
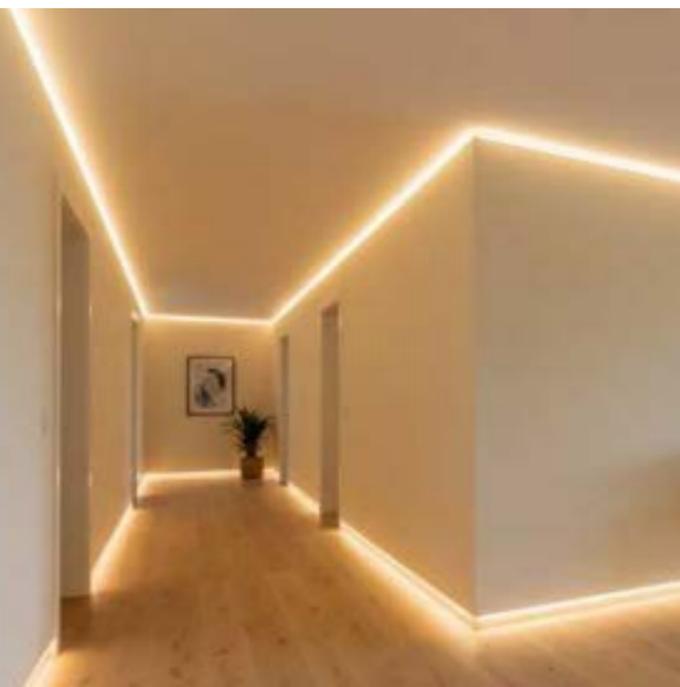
Calculate the wattage requirement of the LED-ribbon in the desired length and select a driver that can supply the required power. In addition to the requirements of the LED-ribbon, please also take into account the requirements of other lights/consumers that are connected to the same driver. The total wattage requirement of all connected loads must not exceed the output of the driver.

| ORDER INFO | Additional connecting accessories need to be ordered separately   |
|------------|---|
|            | Drivers (integrated) <span style="float: right;">see page 135</span>  |
|            | Smart-drivers + control unit <span style="float: right;">see page 125</span>  |
|            | 1 connecting cable 2 m incl. clip connector (2-pin) 8 mm, 24V + 1 end cap and 2 shrink tubes <span style="float: right;">209.19.00.014</span> |



# PROFILES

WIDE RANGE OF APPLICATIONS  
THROUGHOUT THE HOUSE



# PROFILES

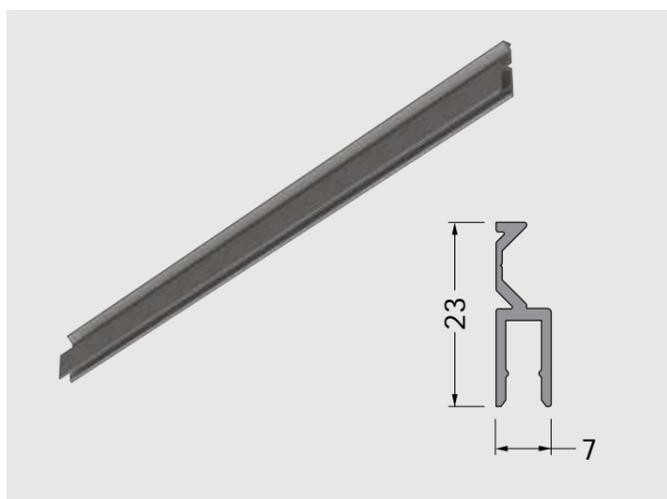
for LED-ribbons

## Why LED-ribbons belong in aluminum profiles

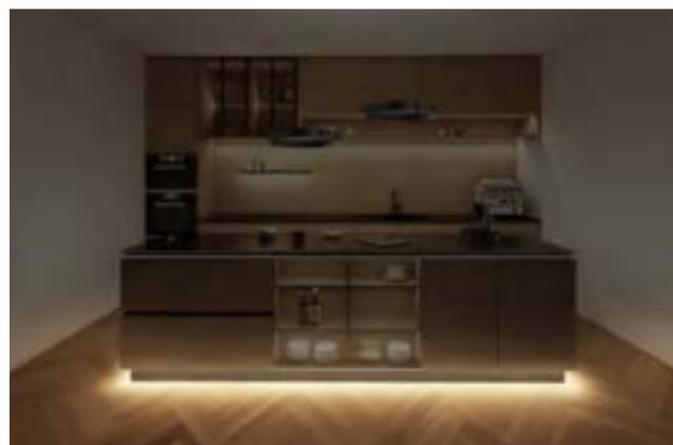
The professional solution for durable, high-quality lighting installations:

- **Optimal heat dissipation** – reduces operating temperature, extends the service life of LED-ribbons and minimizes thermal stress on furniture surfaces.
- **Consistent light quality over the entire length** – lower thermal load means less brightness drop.
- **Protection against dust and dirt** – for consistently stable light output.
- **Homogeneous light image** – a diffuser can only be used in the profile.
- **Easy to clean** – cover instead of sensitive LED surface.
- **Precise guidance & secure fixing** – precise integration into furniture.
- **Clean finish** – technically and visually high-quality solution.

### AP1000

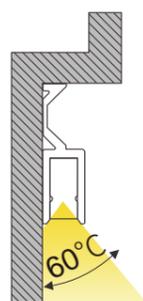


|                              |                                     |
|------------------------------|-------------------------------------|
| Material / colour (profile)  | aluminum / grey                     |
| Material / colour (diffuser) | no diffuser                         |
| Dimensions (LxWxH)           | 1000 x 7 x 23 mm                    |
| Routing (width x depth)      | ---                                 |
| Diffuser (width)             | no diffuser                         |
| Transmittance diffuser       | no diffuser                         |
| Suit for ribbons             | 4 x 10 mm silicone ribbons (LS4040) |
| Area of application          | plinth                              |
| Installation                 | surface mounting                    |
| Scope of delivery            | 1 profile incl. fixing              |
| Article number               | 208.99.22.001                       |

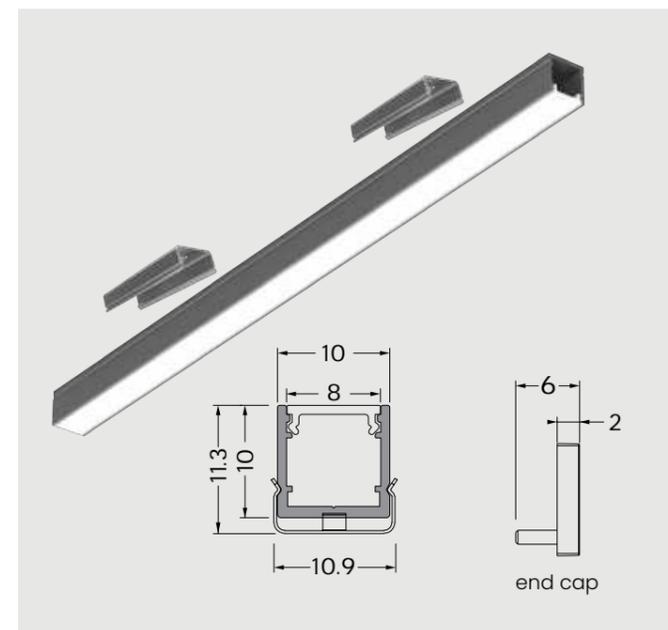


#### Beam angle:

Brightness and colour temperature are determined by the LED-ribbon.



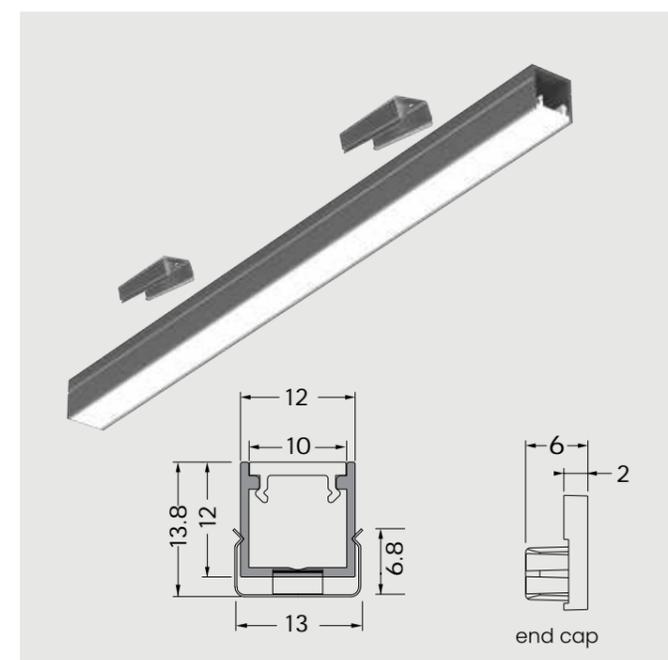
### AP1001



|                              |  |
|------------------------------|--|
| Material / colour (profile)  | aluminum / grey                                |
| Material / colour (diffuser) | plastic / milky white                          |
| Dimensions (LxWxH)           | 3000 x 10 x 10 mm                              |
| Routing (width x depth)      | ---  |
| Diffuser (width)             | 8,4 mm   |
| Transmittance diffuser       | 80%  |
| Suit for ribbons             | 5 mm ribbons                                   |
| Area of application          | cabinet, ceiling                               |
| Installation                 | surface mounting, 3 clips / m needed           |
| Scope of delivery            | 1 profile incl. fixing, 9 clips and 6 end caps |
| Article number               | 208.99.22.002                                  |

**i** Diffusers ensure uniform light. LED dots are not visible from 128 LED/m.

### AP1002



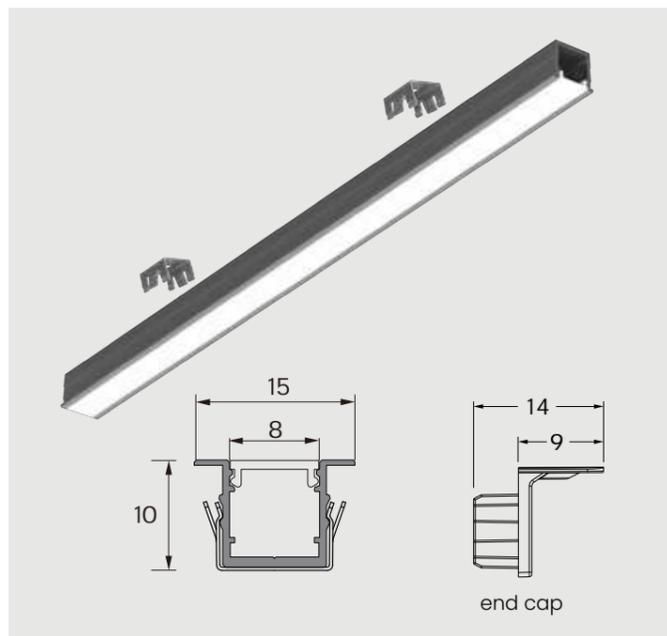
|                              |  |
|------------------------------|--|
| Material / colour (profile)  | aluminum / grey                                |
| Material / colour (diffuser) | plastic / milky white                          |
| Dimensions (LxWxH)           | 3000 x 12 x 12 mm                              |
| Routing (width x depth)      | ---  |
| Diffuser (width)             | 10,2 mm  |
| Transmittance diffuser       | 80%  |
| Suit for ribbons             | 8 mm ribbons                                   |
| Area of application          | cabinet, ceiling, upstairs                     |
| Installation                 | surface mounting, 3 clips / m needed           |
| Scope of delivery            | 1 profile incl. fixing, 9 clips and 6 end caps |
| Article number               | 208.99.22.003                                  |

**i** Diffusers ensure uniform light. LED dots are not visible from 128 LED/m.

## PROFILES

for LED-ribbons

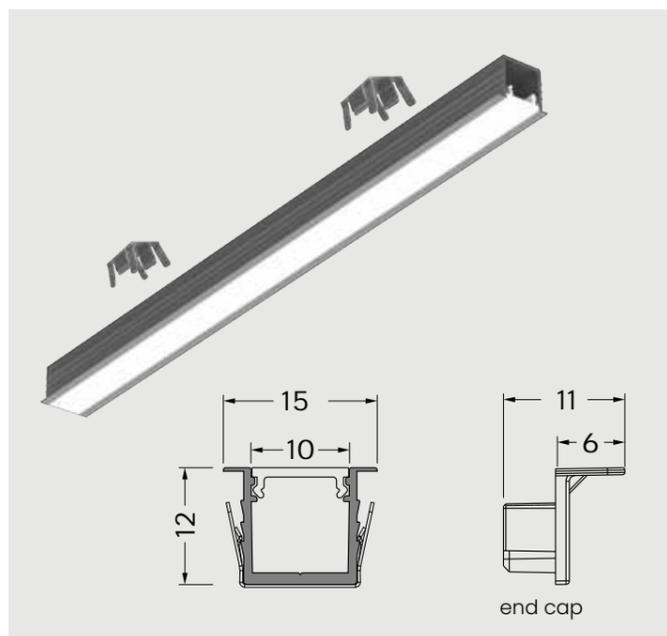
### AP1003



|                              |   |
|------------------------------|---|
| Material / colour (profile)  | aluminum / grey                                   |
| Material / colour (diffusor) | plastic / milky white                             |
| Dimensions (LxWxH)           | 3000 x 15 x 10 mm                                 |
| Routing (width x depth)      | 12 x 10 mm  |
| Diffusor (width)             | 8,4 mm  |
| Transmittance diffusor       | 80%   |
| Suit for ribbons             | 5 mm ribbons                                      |
| Area of application          | cabinet, ceiling                                  |
| Installation                 | recessed mounting,<br>3 clips / m needed          |
| Scope of delivery            | 1 profile incl. fixing, 9<br>clips and 6 end caps |
| Article number               | 208.99.22.006                                     |

**i** Diffusors ensure uniform light.  
LED dots are not visible from 128 LED/m.

### AP1004



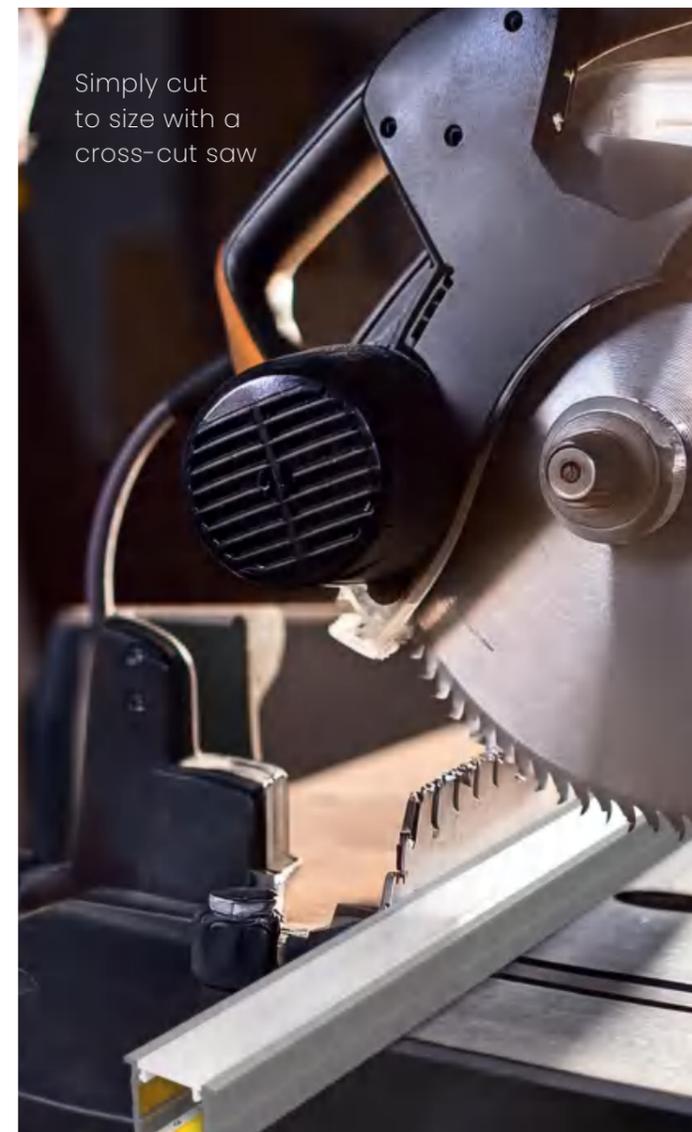
|                              |   |
|------------------------------|---|
| Material / colour (profile)  | aluminum / grey                                   |
| Material / colour (diffusor) | plastic / milky white                             |
| Dimensions (LxWxH)           | 3000 x 15 x 12 mm                                 |
| Routing (width x depth)      | 12 x 12 mm  |
| Diffusor (width)             | 10,2 mm   |
| Transmittance diffusor       | 80%   |
| Suit for ribbons             | 8 mm ribbons                                      |
| Area of application          | cabinet, ceiling                                  |
| Installation                 | recessed mounting,<br>3 clips / m needed          |
| Scope of delivery            | 1 profile incl. fixing, 9<br>clips and 6 end caps |
| Article number               | 208.99.22.007                                     |

**i** Diffusors ensure uniform light.  
LED dots are not visible from 128 LED/m.



# LINEAR LIGHTS

Simply cut to size with a cross-cut saw



## SMARTSTOCK CUT-TO-SIZE

### Profile length depends on furniture

- VoxAura LED-ribbons are pre-assembled in various aluminum profiles (3 m) incl. diffusor.
- Simply cut to required size on-site.
- **Assembly in no time:** Just clip end cap and power cable onto cutted profile - done.

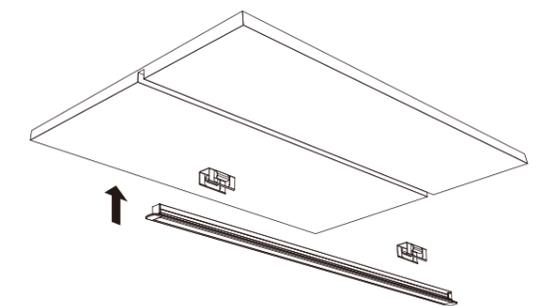


## PLUG-AND-PLAY SYSTEM

### Make your furniture last for centuries.

Our recessed profiles are **installed without glue** and any resulting damage of furniture by **clip-in system**: Screw the clips into furniture and clip-in the profile (3 clips / m).

This system allows simple and **damage-free adjustment** in future.



Linear light with clips for easy installation

# LINEAR LIGHTS

24V

monochrome (2-pin) / multiwhite (2-pin), middle recessed mounted

PL4000 / PL4001



- HIGH CRI 93
- HIGHEST LUMINOUS FLUX
- CUT-TO-SIZE
- PLUG AND PLAY SYSTEM



## PL4000 / PL4001

| Number of LEDs | Wattage | Luminous flux | Lumen efficacy | Colour Rendering Index CRI | Colour temperature | Colour system | Energy efficiency class | Customized size | Dimensions (L x W x H) | Drill hole W x H | Article number |
|----------------|---------|---------------|----------------|----------------------------|--------------------|---------------|-------------------------|-----------------|------------------------|------------------|----------------|
| LEDs/m         | W/m     | lm/m          | lm/W           | Ra R9                      | K                  |               | EEL                     |                 | mm                     | mm               |                |

### PL4000

|     |   |     |    |    |     |             |            |   |                    |               |         |               |
|-----|---|-----|----|----|-----|-------------|------------|---|--------------------|---------------|---------|---------------|
| 320 | 5 | 118 | 24 | 93 | >50 | 3000        | monochrome | G | cut-to-size freely | 3000 x 12 x 9 | 10 x 10 | 201.10.22.001 |
|     | 5 | 130 | 26 | 93 | >50 | 4000        |            |   |                    |               |         | 201.10.22.002 |
| 640 | 5 | 130 | 26 | 93 | >50 | 2700 - 5000 | multiwhite |   |                    |               |         | 201.11.22.001 |

### PL4001 IR sensor

|     |   |     |    |    |     |      |            |   |                      |               |         |               |
|-----|---|-----|----|----|-----|------|------------|---|----------------------|---------------|---------|---------------|
| 320 | 5 | 118 | 24 | 93 | >50 | 3000 | monochrome | G | cut-to-size one side | 1000 x 12 x 9 | 10 x 10 | 201.10.22.003 |
|-----|---|-----|----|----|-----|------|------------|---|----------------------|---------------|---------|---------------|

### PL4000



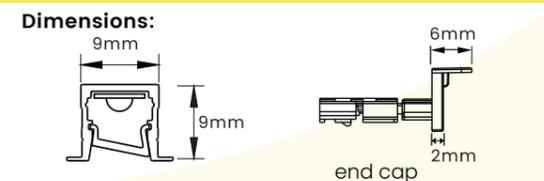
### PL4001 IR sensor



|                      |   |
|----------------------|---|
| Material             | aluminum  |
| Surface finish       | grey  |
| Kind of LED          | COB   |
| Dimmable             | yes (PL4000) / no (PL4001)  |
| Degree of protection | IP20  |
| Lifetime L80/B10     | >50.000 h   |
| Lifetime L70/B50     | >80.000 h   |
| Installation         | recessed mounting + clip, 3 clips / m needed  |
| Scope of delivery    | 1 linear light (PL4000)<br>1 linear light incl. connecting cable 2 m & 3 clips (PL4001) |

**ORDER INFO:** For PL4000 accessories for installation need to be ordered separately, please refer to the right.

PL4001 features an **integrated switch** that turns the light on when warm objects move through the sensor's filed of view. To ensure that the switch can also switch the light on when the driver is switched off, the light must be **connected to an uncontrolled output port of the driver.**



90° **PL4000**

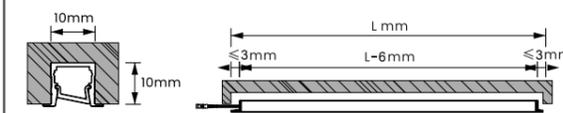
|         | 2700K | 5000K | 3000K | 4000K |
|---------|-------|-------|-------|-------|
| 250 mm  | 418lx | 561lx | 464lx | 510lx |
| 500 mm  | 104lx | 140lx | 116lx | 128lx |
| 750 mm  | 46lx  | 62lx  | 52lx  | 57lx  |
| 1000 mm | 26lx  | 35lx  | 29lx  | 32lx  |

90° **PL4001**

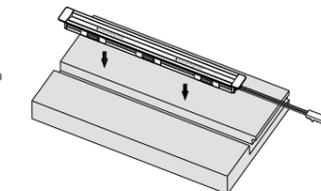
|         | 3000K |
|---------|-------|
| 250 mm  | 368lx |
| 500 mm  | 92lx  |
| 750 mm  | 41lx  |
| 1000 mm | 23lx  |

### Installation:

#### PL4000

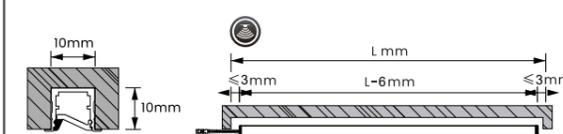


slot length = light length + 4 mm

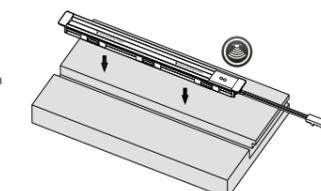


The light is recessed in the middle part of the wood-board

#### PL4001 IR sensor

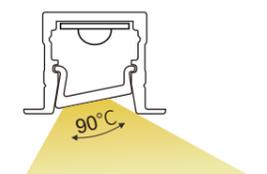
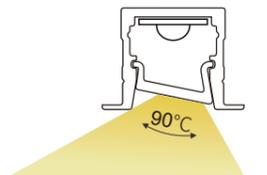


slot length = light length + 4 mm cut-to-size on side without sensor



The light is recessed in the middle part of the wood-board

The direction in which the light is emitted can be varied by turning the diffusor. Simply pull out the diffusor and reinsert it at an angle in the other direction.



**ORDER INFO:** For PL4000 accessories for installation need to be ordered separately.



Accessories set incl. connecting cable 2 m, 9 mounting clips and 1 end cap

150.10.00.001

# LINEAR LIGHTS

**24V**  
 monochrome (2-pin) / multiwhite (2-pin),  
 rear mounted



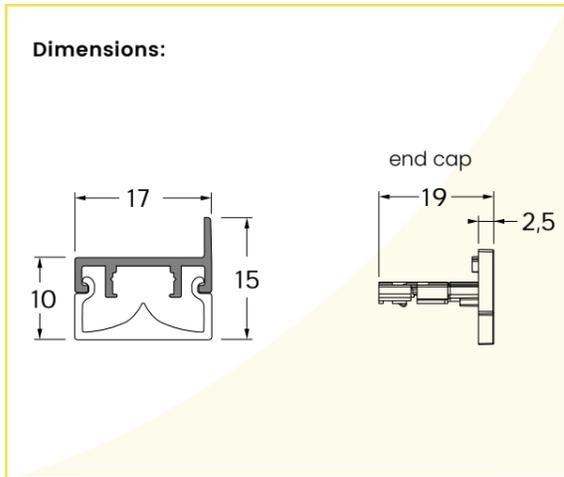
- HIGH CRI **93**
- HIGHEST LUMINOUS FLUX
- CUT-TO-SIZE
- PLUG AND PLAY SYSTEM

## PL4002



|                             |                   |
|-----------------------------|-------------------|
| <b>Material</b>             | aluminum          |
| <b>Surface finish</b>       | grey              |
| <b>Kind of LED</b>          | COB               |
| <b>Dimmable</b>             | yes               |
| <b>Degree of protection</b> | IP20              |
| <b>Lifetime L80/B10</b>     | >50.000 h         |
| <b>Lifetime L70/B50</b>     | >80.000 h         |
| <b>Installation</b>         | recessed mounting |
| <b>Scope of delivery</b>    | 1 linear light    |

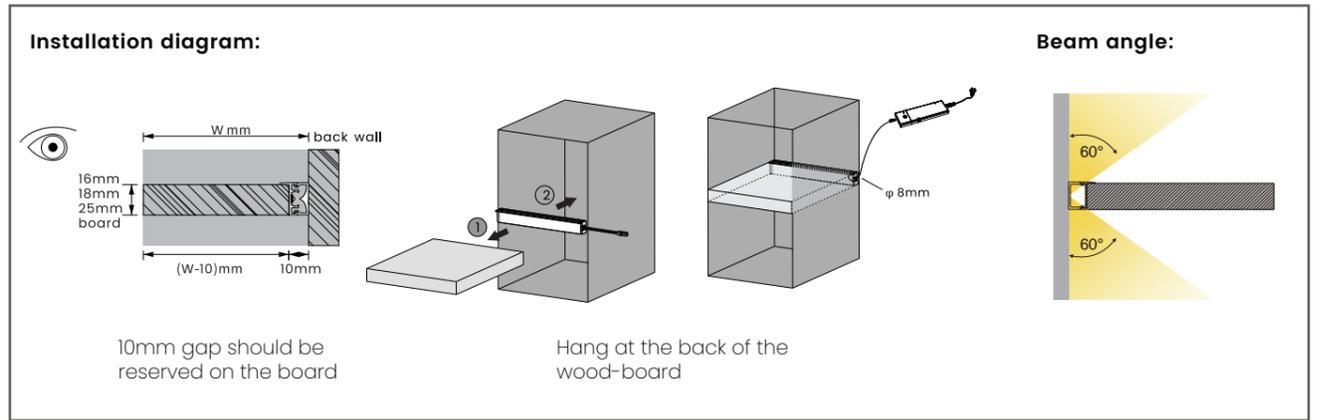
**ORDER INFO:**  
 Accessories for installation need to be ordered separately, please refer to the right.



|         | 60° | 2700K | 5000K | 3000K | 4000K |
|---------|-----|-------|-------|-------|-------|
| 250 mm  |     | 144lx | 194lx | 160lx | 176lx |
| 500 mm  |     | 36lx  | 48lx  | 40lx  | 44lx  |
| 750 mm  |     | 16lx  | 22lx  | 18lx  | 20lx  |
| 1000 mm |     | 9lx   | 12lx  | 10lx  | 11lx  |

## PL4002

| Number of LEDs | Wattage | Luminous flux | Lumen efficacy | Colour Rendering Index CRI |     | Colour temperature | Colour system | Energy efficiency class | Customized size | Dimensions (L x W x H) | Article number |
|----------------|---------|---------------|----------------|----------------------------|-----|--------------------|---------------|-------------------------|-----------------|------------------------|----------------|
| LEDs/m         | W/m     | lm/m          | lm/W           | Ra                         | R9  | K                  |               | EEL                     |                 | mm                     |                |
| 320            | 5       | 114           | 22             | 93                         | >50 | 3000               | monochrome    |                         |                 | 3000 x 17 x 15         | 20110.22.020   |
|                | 5       | 126           | 25             | 93                         | >50 | 4000               |               |                         |                 |                        | 20110.22.021   |
| 640            | 5       | 126           | 25             | 93                         | >50 | 2700 - 5000        | multiwhite    |                         |                 |                        | 20111.22.002   |



**ORDER INFO**

Accessories set incl. connecting cable 2 m and 1 end cap 150.10.00.002

# LINEAR LIGHTS

24V

monochrome (2-pin) / multiwhite (2-pin), side-stand



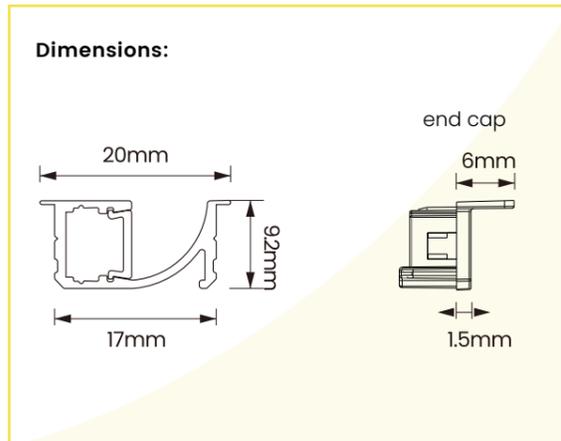
- HIGH CRI 93
- HIGHEST LUMINOUS FLUX
- CUT-TO-SIZE
- PLUG AND PLAY SYSTEM

PL4011



|                      |  |
|----------------------|--|
| Material             | aluminum                                       |
| Surface finish       | grey   |
| Kind of LED          | COB  |
| Dimmable             | yes  |
| Degree of protection | IP20   |
| Lifetime L80/B10     | >50.000 h                                      |
| Lifetime L70/B50     | >80.000 h                                      |
| Installation         | recessed mounting + clip<br>3 clips / m needed |
| Scope of delivery    | 1 linear light                                 |

**ORDER INFO:**  
Accessories for installation need to be ordered separately, please refer to the right.

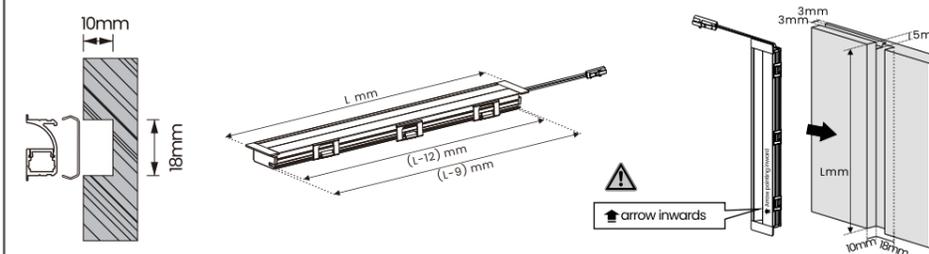


|         | 90° | 2700 K | 5000 K | 3000 K | 4000 K |
|---------|-----|--------|--------|--------|--------|
| 250 mm  |     | 259lx  | 348lx  | 288lx  | 317lx  |
| 500 mm  |     | 65lx   | 87lx   | 72lx   | 79lx   |
| 750 mm  |     | 29lx   | 39lx   | 32lx   | 35lx   |
| 1000 mm |     | 16lx   | 22lx   | 18lx   | 20lx   |

PL4011

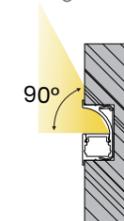
| Number of LEDs | Wattage | Luminous flux | Lumen efficacy | Colour Rendering Index CRI |     | Colour temperature | Colour system | Energy efficiency class | Customized size | Dimensions (L x W x H) | Drill hole W x H | Article number |
|----------------|---------|---------------|----------------|----------------------------|-----|--------------------|---------------|-------------------------|-----------------|------------------------|------------------|----------------|
| LEDs/m         | W/m     | lm/m          | lm/W           | Ra                         | R9  | K                  |               | EEL                     |                 | mm                     | mm               |                |
| 320            | 5       | 50            | 10             | 93                         | >50 | 3000               | monochrome    |                         |                 | 3000 x 20 x 9,2        | 18 x 10          | 201.10.22.004  |
|                | 5       | 55            | 11             | 93                         | >50 | 4000               |               |                         |                 |                        |                  | 201.10.22.005  |
| 640            | 5       | 55            | 11             | 93                         | >50 | 2700 - 5000        | multiwhite    |                         |                 |                        |                  | 201.11.22.003  |

**Installation diagram:**



**Beam angle:**

Brightness and colour temperature are determined by the linear light used.



**ORDER INFO**



Accessories set incl. 2 connecting cables 2 m & 2 end caps (each one for installation on the right and on the left) and 9 mounting clips

150.10.00.003

# LINEAR LIGHTS

**24V**  
 monochrome (2-pin), clamp-on-glass (6 mm)



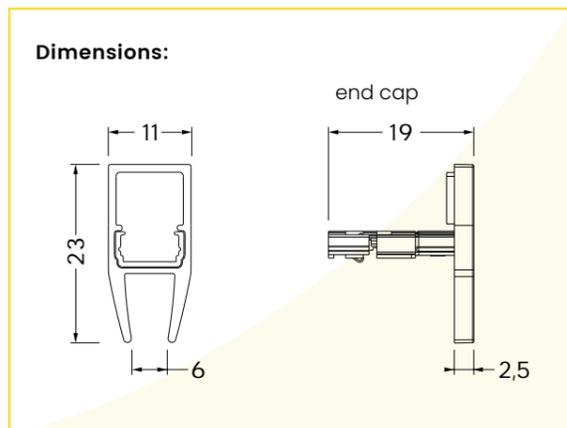
- HIGH CRI **93**
- HIGHEST LUMINOUS FLUX
- CUT-TO-SIZE
- PLUG AND PLAY SYSTEM

## PL4003



|                             |                  |
|-----------------------------|------------------|
| <b>Material</b>             | aluminum         |
| <b>Surface finish</b>       | grey             |
| <b>Kind of LED</b>          | COB              |
| <b>Dimmable</b>             | yes              |
| <b>Degree of protection</b> | IP20             |
| <b>Lifetime L80/B10</b>     | >50.000 h        |
| <b>Lifetime L70/B50</b>     | >80.000 h        |
| <b>Suitable for</b>         | glass 6 mm       |
| <b>Installation</b>         | surface mounting |
| <b>Scope of delivery</b>    | 1 linear light   |

**ORDER INFO:**  
 Accessories for installation need to be ordered separately, please refer to the right.

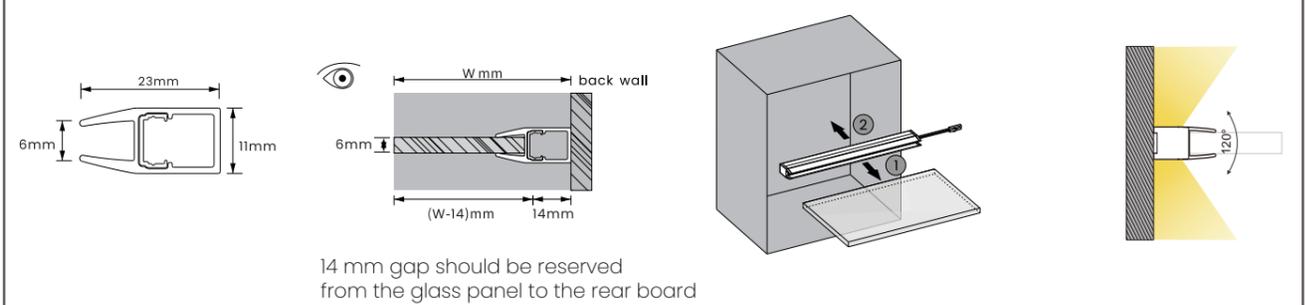


|         | 120° | 3000 K | 4000 K |
|---------|------|--------|--------|
| 250 mm  |      | 496 lx | 496 lx |
| 500 mm  |      | 124 lx | 124 lx |
| 750 mm  |      | 55 lx  | 55 lx  |
| 1000 mm |      | 31 lx  | 31 lx  |

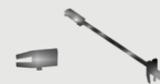
## PL4003

| Number of LEDs | Wattage | Luminous flux | Lumen efficacy | Colour Rendering Index CRI |     | Colour temperature | Colour system | Energy efficiency class | Customized size | Dimensions (L x W x H) | Article number |
|----------------|---------|---------------|----------------|----------------------------|-----|--------------------|---------------|-------------------------|-----------------|------------------------|----------------|
| LEDs/m         | W/m     | lm/m          | lm/W           | Ra                         | R9  | K                  |               | EEL                     |                 | mm                     |                |
| 320            | 5       | 298           | 60             | 93                         | >50 | 3000               | monochrome    |                         |                 | 3000 x 23 x 11         | 201.10.22.006  |
|                | 5       | 328           | 66             | 93                         | >50 | 4000               |               |                         |                 |                        | 201.10.22.007  |

### Installation diagram:



### ORDER INFO



Accessories set incl. connecting cable 2 m and 1 end cap

150.10.00.004

# LINEAR LIGHTS

**24V**  
 monochrome (2-pin) / multiwhite (2-pin),  
 clamp-on-glass (8 mm)



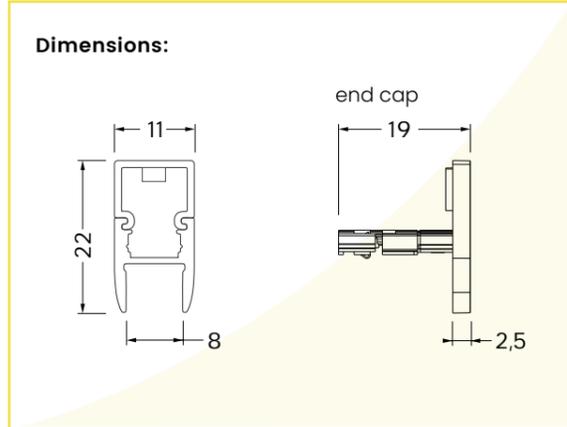
- HIGH CRI **93**
- HIGHEST LUMINOUS FLUX
- CUT-TO-SIZE
- PLUG AND PLAY SYSTEM

**PL4004**



|                             |                  |
|-----------------------------|------------------|
| <b>Material</b>             | aluminum         |
| <b>Surface finish</b>       | grey             |
| <b>Kind of LED</b>          | COB              |
| <b>Dimmable</b>             | yes              |
| <b>Degree of protection</b> | IP20             |
| <b>Lifetime L80/B10</b>     | >50.000 h        |
| <b>Lifetime L70/B50</b>     | >80.000 h        |
| <b>Suitable for</b>         | glass 8 mm       |
| <b>Installation</b>         | surface mounting |
| <b>Scope of delivery</b>    | 1 linear light   |

**ORDER INFO:**  
 Accessories for installation need to be ordered separately, please refer to the right.

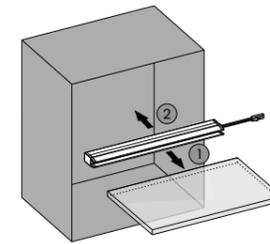
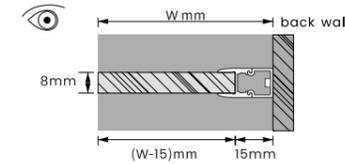
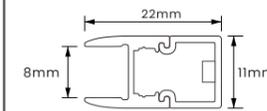


|         | 120° | 2700K | 5000K | 3000K | 4000K |
|---------|------|-------|-------|-------|-------|
| 250 mm  |      | 346lx | 465lx | 384lx | 448lx |
| 500 mm  |      | 86lx  | 116lx | 96lx  | 112lx |
| 750 mm  |      | 38lx  | 52lx  | 43lx  | 50lx  |
| 1000 mm |      | 22lx  | 29lx  | 24lx  | 28lx  |

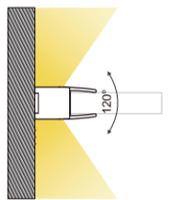
**PL4004**

| Number of LEDs | Wattage | Luminous flux | Lumen efficacy | Colour Rendering Index CRI |     | Colour temperature | Colour system | Energy efficiency class | Customized size | Dimensions (L x W x H) | Article number |
|----------------|---------|---------------|----------------|----------------------------|-----|--------------------|---------------|-------------------------|-----------------|------------------------|----------------|
| LEDs/m         | W/m     | lm/m          | lm/W           | Ra                         | R9  | K                  |               | EEL                     |                 | mm                     |                |
| 320            | 5       | 186           | 37             | 93                         | >50 | 3000               | monochrome    |                         |                 | 3000 x 22 x 11         | 201.10.22.008  |
|                | 5       | 205           | 41             | 93                         | >50 | 4000               |               |                         |                 |                        | 201.10.22.009  |
| 640            | 5       | 205           | 41             | 93                         | >50 | 2700 - 5000        | multiwhite    |                         |                 |                        | 201.11.22.004  |

**Installation diagram:**



**Beam angle:**



15 mm gap should be reserved from the glass panel to the rear board

**ORDER INFO**



Accessories set incl. connecting cable 2 m and 1 end cap

150.10.00.005

# LINEAR LIGHTS

24V

monochrome (2-pin), drawer linear light



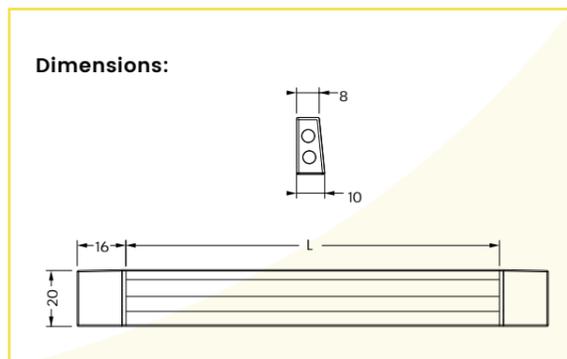
- HIGH CRI 93
- HIGHEST LUMINOUS FLUX
- CUT-TO-SIZE
- PLUG AND PLAY SYSTEM

PL4005



|                      |  |
|----------------------|--|
| Material             | aluminum                                     |
| Surface finish       | grey   |
| Kind of LED          | COB  |
| Dimmable             | no   |
| Degree of protection | IP20   |
| Lifetime L80/B10     | >50.000 h                                    |
| Lifetime L70/B50     | >80.000 h                                    |
| Installation         | surface mounting                             |
| Scope of delivery    | 1 linear light<br>incl. connecting cable 2 m |

**i** PL4005 features an **integrated switch** that turns the light on when movement is detected. To ensure that the switch can also switch the light on when the driver is switched off, the light must be **connected to an uncontrolled output port of the driver**.

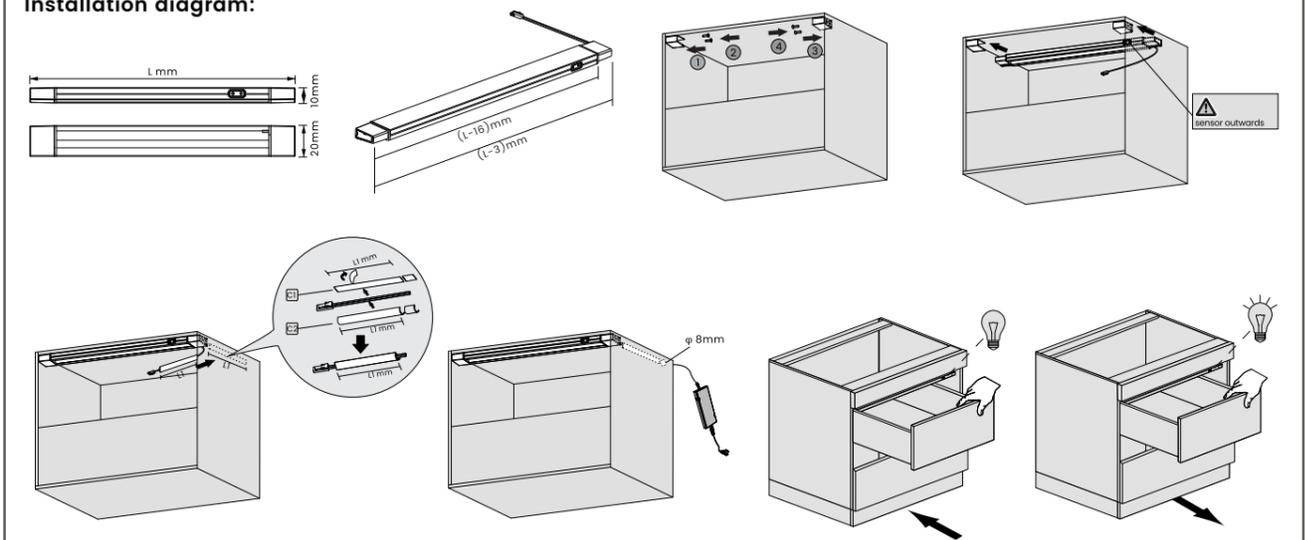


| Length  | Beam angle | Colour temperature | Lumen output |
|---------|------------|--------------------|--------------|
| 250 mm  | 120°       | 3000 K             | 304 lx       |
| 500 mm  | 120°       | 3000 K             | 76 lx        |
| 750 mm  | 120°       | 3000 K             | 34 lx        |
| 1000 mm | 120°       | 3000 K             | 19 lx        |

PL4005

| Number of LEDs | Wattage | Luminous flux | Lumen efficacy | Colour Rendering Index CRI | Colour temperature | Colour system | Energy efficiency class | Customized size      | Dimensions (L x W x H) | Article number |
|----------------|---------|---------------|----------------|----------------------------|--------------------|---------------|-------------------------|----------------------|------------------------|----------------|
| LEDs/m         | W/m     | lm/m          | lm/W           | Ra R9                      | K                  |               | EEL                     |                      | mm                     |                |
| 320            | 5       | 118           | 24             | 93 >50                     | 3000               | monochrome    | A G                     | cut-to-size one side | 1000 x 20 x 10         | 201.10.22.010  |

**Installation diagram:**



**Beam angle:**



# LINEAR LIGHTS

24V

monochrome (2-pin), wardrobe linear light



- HIGH CRI 93
- HIGHEST LUMINOUS FLUX
- CUT-TO-SIZE
- PLUG AND PLAY SYSTEM

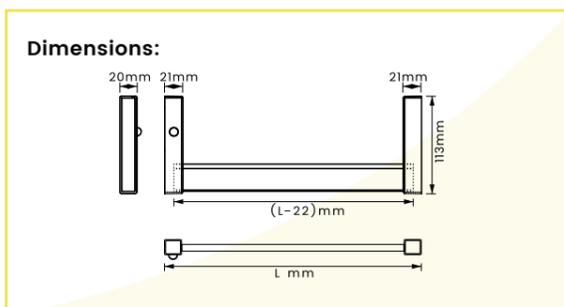
PL4006



|                      |                  |
|----------------------|------------------|
| Material             | aluminum         |
| Surface finish       | grey             |
| Kind of LED          | COB              |
| Dimmable             | no               |
| Degree of protection | IP20             |
| Lifetime L80/B10     | >50.000 h        |
| Lifetime L70/B50     | >80.000 h        |
| Installation         | surface mounting |
| Scope of delivery    | 1 linear light   |

**i** The wardrobe light is an illuminated clothes rail. Light is switched via motion sensor automatically when movement is detected. Max. load capacity of wardrobe light is 20kg.

**i** PL4006 features an **integrated switch** that turns the light on when movement is detected. To ensure that the switch can also switch the light on when the driver is switched off, the light must be **connected to an uncontrolled output port of the driver**.



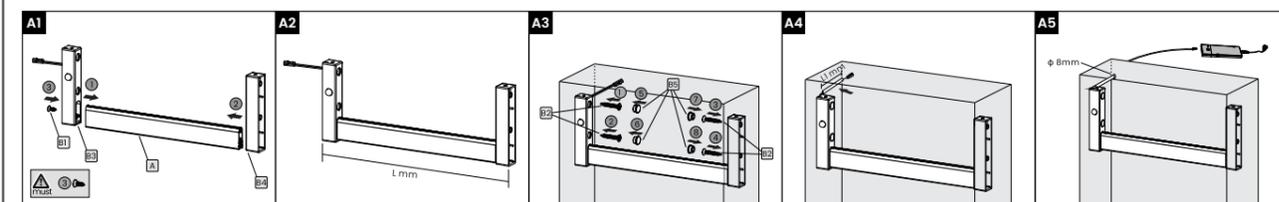
| Length  | Beam angle | 3000K Lux |
|---------|------------|-----------|
| 250 mm  | 120°       | 336lx     |
| 500 mm  | 120°       | 84lx      |
| 750 mm  | 120°       | 37lx      |
| 1000 mm | 120°       | 21lx      |

PL4006

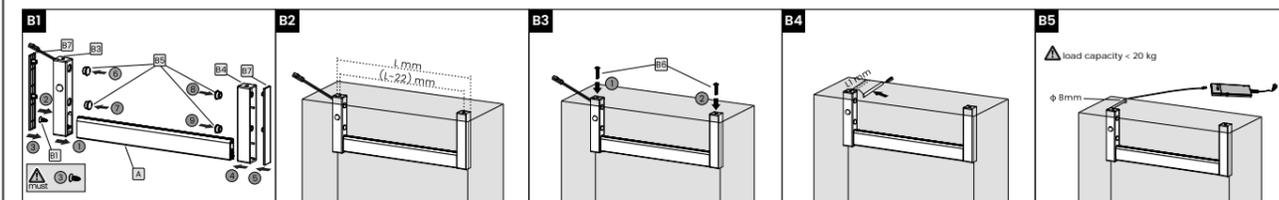
| Number of LEDs | Wattage | Luminous flux | Lumen efficacy | Colour Rendering Index CRI |     | Colour temperature | Colour system | Energy efficiency class | Customized size    | Dimensions (L x W x H) | Article number |
|----------------|---------|---------------|----------------|----------------------------|-----|--------------------|---------------|-------------------------|--------------------|------------------------|----------------|
| LEDs/m         | W/m     | lm/m          | lm/W           | Ra                         | R9  | K                  |               | EEl                     |                    | mm                     |                |
| 320            | 5       | 96            | 19             | 93                         | >50 | 3000               | monochrome    | A G                     | cut-to-size freely | 3000 x 21 x 113        | 201.10.22.011  |

**Installation diagram:**

Side installation

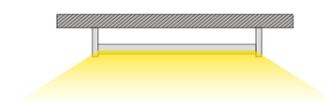


Top installation



**Beam angle:**

down and back



**ORDER INFO:** Accessories for installation need to be ordered separately.

Accessories set incl. support, connecting cable 2 m and motion sensor

150.10.00.006

# LINEAR LIGHTS

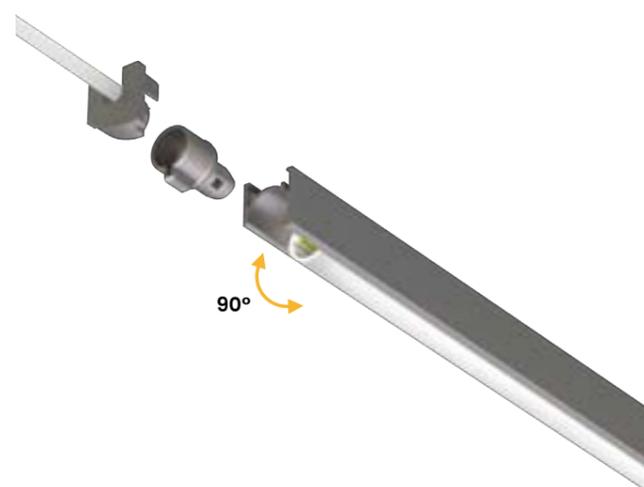
24V

monochrome (2-pin) / multiwhite (2-pin),  
under cabinet

PL4007



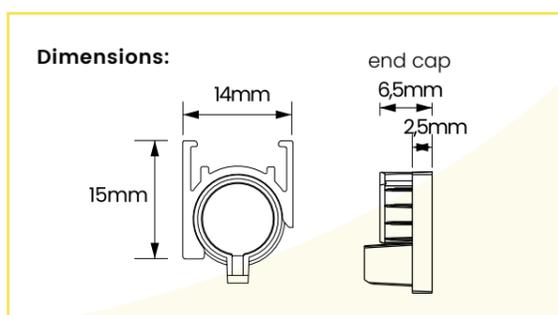
- HIGH CRI 93
- HIGH LUMINOUS FLUX
- 90° TURNABLE LIGHT BEAM



|                      |   |
|----------------------|---|
| Material             | aluminum                                      |
| Surface finish       | grey  |
| Kind of LED          | COB   |
| Dimmable             | yes   |
| Degree of protection | IP20  |
| Lifetime L80/B10     | >50.000 h                                     |
| Lifetime L70/B50     | >80.000 h                                     |
| Installation         | surface mounting + clip<br>3 clips / m needed |
| Scope of delivery    | 1 linear light                                |

**i** The light can be **turned up to 90°** within the profile. Simply turn the pin to adjust to the desired position.

**ORDER INFO:** Accessories for installation need to be ordered separately, please refer to the right.

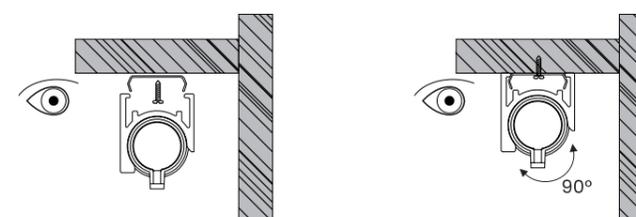


|         | 120° | 2700 K | 5000 K | 3000 K | 4000 K |
|---------|------|--------|--------|--------|--------|
| 250 mm  | ☀️   | 585lx  | 787lx  | 650lx  | 715lx  |
| 500 mm  | ☀️   | 270lx  | 363lx  | 300lx  | 330lx  |
| 750 mm  | ☀️   | 144lx  | 194lx  | 160lx  | 176lx  |
| 1000 mm | ☀️   | 72lx   | 97lx   | 80lx   | 88lx   |

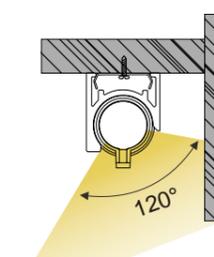
PL4007

| Number of LEDs | Wattage | Luminous flux | Lumen efficacy | Colour Rendering Index CRI | Colour temperature | Colour system | Energy efficiency class | Customized size    | Dimensions (L x W x H) | Article number |
|----------------|---------|---------------|----------------|----------------------------|--------------------|---------------|-------------------------|--------------------|------------------------|----------------|
| LEDs/m         | W/m     | lm/m          | lm/W           | Ra                         | R9                 | K             | EEL                     |                    | mm                     |                |
| 320            | 5       | 350           | 70             | 93                         | >50                | 3000          | A G                     | cut-to-size freely | 3000 x 15 x 14         | 201.10.22.012  |
|                | 5       | 375           | 75             | 93                         | >50                | 4000          |                         |                    |                        | 201.10.22.013  |
| 640            | 5       | 375           | 75             | 93                         | >50                | 2700 - 5000   | A G                     |                    |                        | 201.11.22.005  |

Installation diagram:



Beam angle:



**ORDER INFO**



Accessories set for surface mounting incl. connecting cable 2 m, 9 clips and 1 set end caps

201.99.22.001

# LINEAR LIGHTS

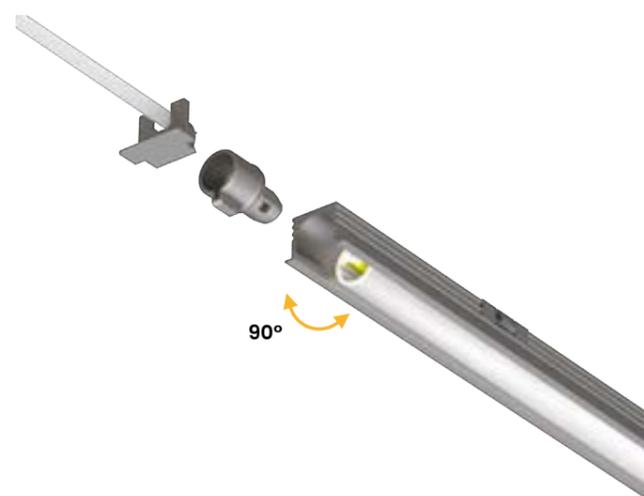
24V

monochrome (2-pin) / multiwhite (2-pin),  
under cabinet



- HIGH CRI 93
- HIGH LUMINOUS FLUX
- 90° TURNABLE LIGHT BEAM

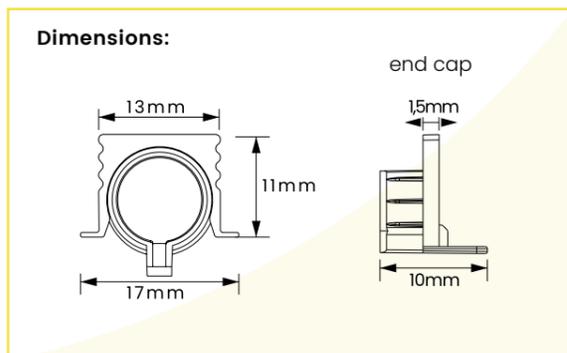
PL4008



|                      |  |
|----------------------|--|
| Material             | aluminum                                       |
| Surface finish       | grey   |
| Kind of LED          | COB  |
| Dimmable             | yes  |
| Degree of protection | IP20   |
| Lifetime L80/B10     | >50.000 h                                      |
| Lifetime L70/B50     | >80.000 h                                      |
| Installation         | recessed mounting + clip<br>3 clips / m needed |
| Scope of delivery    | 1 linear light                                 |

**i** The light can be **turned up to 90°** within the profile. Simply turn the pin to adjust to the desired position.

**▶ ORDER INFO:** Accessories for installation need to be ordered separately, please refer to the right.

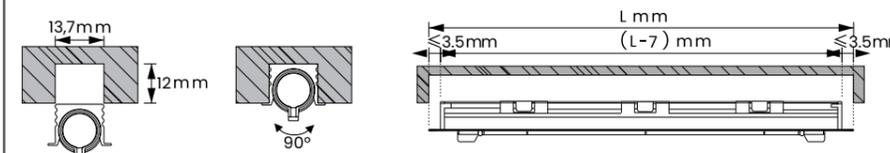


|         | 120° | 2700K | 5000K | 3000K | 4000K |
|---------|------|-------|-------|-------|-------|
| 250 mm  |      | 585lx | 787lx | 650lx | 715lx |
| 500 mm  |      | 270lx | 363lx | 300lx | 330lx |
| 750 mm  |      | 144lx | 194lx | 160lx | 176lx |
| 1000 mm |      | 72lx  | 97lx  | 80lx  | 88lx  |

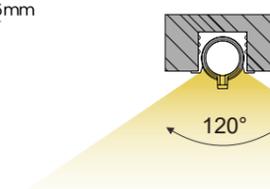
PL4008

| Number of LEDs | Wattage | Luminous flux | Lumen efficacy | Colour Rendering Index CRI | Colour temperature | Colour system | Energy efficiency class | Customized size    | Dimensions (L x W x H) | Drill hole (W x H) | Article number |
|----------------|---------|---------------|----------------|----------------------------|--------------------|---------------|-------------------------|--------------------|------------------------|--------------------|----------------|
| LEDs/m         | W/m     | lm/m          | lm/W           | Ra                         | R9                 | K             | EEl                     |                    | mm                     | mm                 |                |
| 320            | 5       | 350           | 70             | 93                         | >50                | 3000          | A G                     | cut-to-size freely | 3000 x 17 x 11         | 13,7 x 12          | 20110.22.014   |
|                | 5       | 375           | 75             | 93                         | >50                | 4000          |                         |                    |                        |                    | 20110.22.015   |
| 640            | 5       | 375           | 75             | 93                         | >50                | 2700 - 5000   | A G                     |                    |                        |                    | 20111.22.006   |

Installation diagram:



Beam angle:



**▶ ORDER INFO**



Accessories set for recessed mounting incl. connecting cable 2 m, 9 clips and 1 set end caps

20199.22.003

# LINEAR LIGHTS

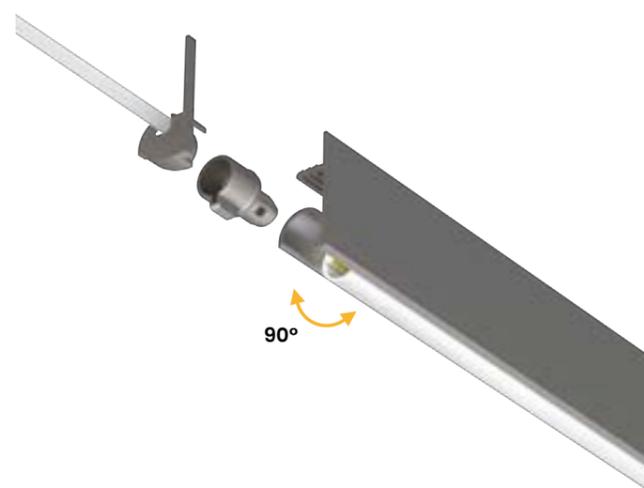
24V

monochrome (2-pin) / multiwhite (2-pin),  
under cabinet



- HIGH CRI 93
- HIGH LUMINOUS FLUX
- 90° TURNABLE LIGHT BEAM

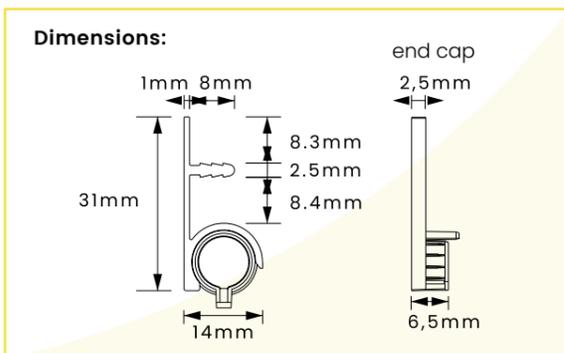
PL4009



|                      |                   |
|----------------------|-------------------|
| Material             | aluminum          |
| Surface finish       | grey              |
| Kind of LED          | COB               |
| Dimmable             | yes               |
| Degree of protection | IP20              |
| Lifetime L80/B10     | >50.000 h         |
| Lifetime L70/B50     | >80.000 h         |
| Installation         | recessed mounting |
| Scope of delivery    | 1 linear light    |

**i** The light can be **turned up to 90°** within the profile. Simply turn the pin to adjust to the desired position.

**ORDER INFO:** Accessories for installation need to be ordered separately, please refer to the right.

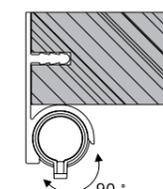
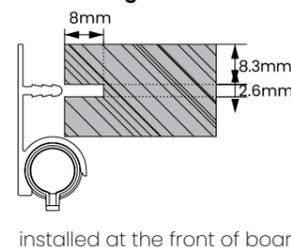


|         | 120° | 2700K | 5000K | 3000K | 4000K |
|---------|------|-------|-------|-------|-------|
| 250 mm  |      | 585lx | 787lx | 650lx | 715lx |
| 500 mm  |      | 270lx | 363lx | 300lx | 330lx |
| 750 mm  |      | 144lx | 194lx | 160lx | 176lx |
| 1000 mm |      | 72lx  | 97lx  | 80lx  | 88lx  |

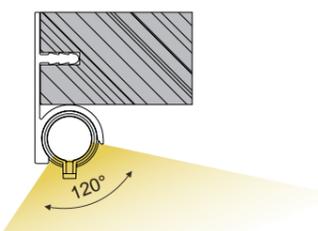
PL4009

| Number of LEDs | Wattage | Luminous flux | Lumen efficacy | Colour Rendering Index CRI | Colour temperature | Colour system | Energy efficiency class | Customized size | Dimensions (L x W x H) | Drill hole (W x H) | Article number |
|----------------|---------|---------------|----------------|----------------------------|--------------------|---------------|-------------------------|-----------------|------------------------|--------------------|----------------|
| LEDs/m         | W/m     | lm/m          | lm/W           | Ra                         | R9                 | K             | EEl                     |                 | mm                     | mm                 |                |
| 320            | 5       | 350           | 70             | 93                         | >50                | 3000          | A G                     |                 | 3000 x 14 x 31         | 2,6 x 8            | 201.10.22.016  |
|                | 5       | 375           | 75             | 93                         | >50                | 4000          |                         |                 |                        |                    | 201.10.22.017  |
| 640            | 5       | 375           | 75             | 93                         | >50                | 2700 - 5000   | A G                     |                 |                        |                    | 201.11.22.007  |

Installation diagram:



Beam angle:



**ORDER INFO**

Accessories set for recessed mounting incl. connecting cable 2 m and 1 set end caps 201.99.22.002

# LINEAR LIGHTS

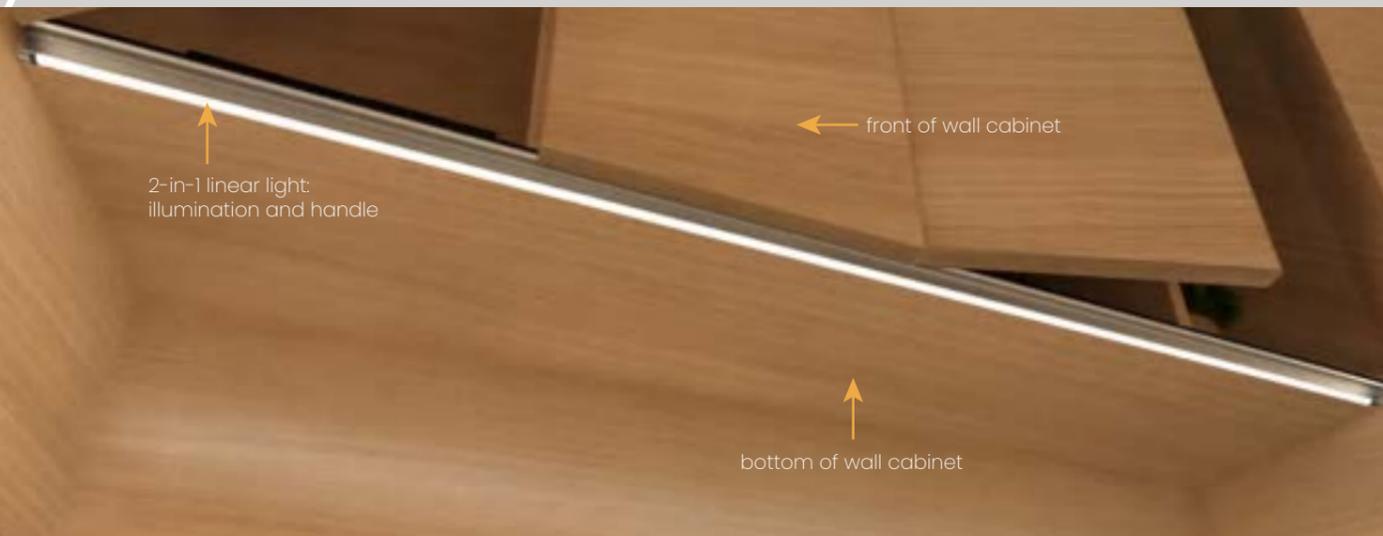
24V

monochrome (2-pin) / multiwhite (2-pin),  
under cabinet



- HIGH CRI 93
- HIGH LUMINOUS FLUX
- 90° TURNABLE LIGHT BEAM

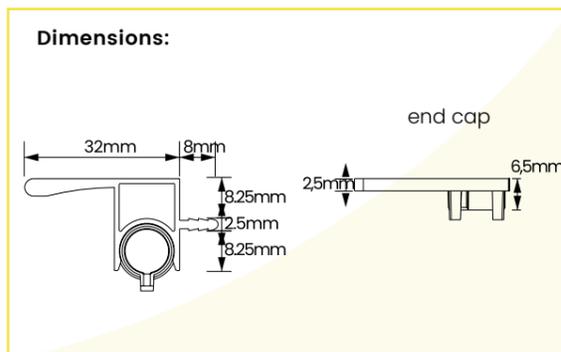
PL4010



|                      |                   |
|----------------------|-------------------|
| Material             | aluminum          |
| Surface finish       | grey              |
| Kind of LED          | COB               |
| Dimmable             | yes               |
| Degree of protection | IP20              |
| Lifetime L80/B10     | >50.000 h         |
| Lifetime L70/B50     | >80.000 h         |
| Installation         | recessed mounting |
| Scope of delivery    | 1 linear light    |

**i** The light can be **turned up to 90°** within the profile. Simply turn the pin to adjust to the desired position.

**ORDER INFO:** Accessories for installation need to be ordered separately, please refer to the right.

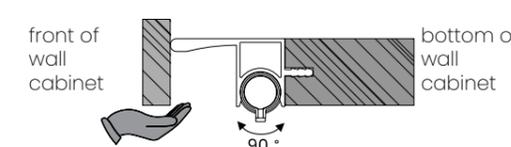
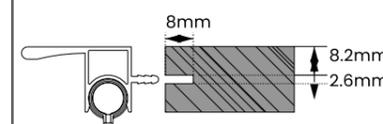


|         | 120° | 2700K | 5000K | 3000K | 4000K |
|---------|------|-------|-------|-------|-------|
| 250 mm  |      | 585lx | 787lx | 650lx | 715lx |
| 500 mm  |      | 270lx | 363lx | 300lx | 330lx |
| 750 mm  |      | 144lx | 194lx | 160lx | 176lx |
| 1000 mm |      | 72lx  | 97lx  | 80lx  | 88lx  |

PL4010

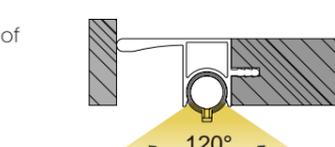
| Number of LEDs | Wattage | Luminous flux | Lumen efficacy | Colour Rendering Index CRI | Colour temperature | Colour system | Energy efficiency class | Customized size | Dimensions (L x W x H) | Drill hole (W x H) | Article number |
|----------------|---------|---------------|----------------|----------------------------|--------------------|---------------|-------------------------|-----------------|------------------------|--------------------|----------------|
| LEDs/m         | W/m     | lm/m          | lm/W           | Ra                         | R9                 | K             | EEl                     |                 | mm                     | mm                 |                |
| 320            | 5       | 350           | 70             | 93                         | >50                | 3000          | A G                     |                 | 3000 x 19 x 40         | 2,6 x 8            | 201.10.22.018  |
|                | 5       | 375           | 75             | 93                         | >50                | 4000          |                         |                 |                        |                    | 201.10.22.019  |
| 640            | 5       | 375           | 75             | 93                         | >50                | 2700 - 5000   | A G                     |                 |                        |                    | 201.11.22.008  |

Installation diagram:



2-in-1 linear light:  
Illumination and handle

Beam angle:



adjustable light cone

**ORDER INFO**



Accessories set for recessed mounting incl. connecting cable 2 m and 1 set end caps 201.99.22.004

## ILLUMINATED GLASS SHELVES

**24V**

monochrome (2-pin) / multiwhite (2-pin)  
for kitchen



**PL4012**



|                             |  |
|-----------------------------|--|
| <b>Material</b>             | aluminum   |
| <b>Surface finish</b>       | aluminum / black   |
| <b>Kind of LED</b>          | COB  |
| <b>Dimmable</b>             | yes  |
| <b>Degree of protection</b> | IP20   |
| <b>Lifetime L80/B10</b>     | >50.000 h  |
| <b>Lifetime L70/B50</b>     | >80.000 h  |
| <b>Installation</b>         | recessed mounting  |
| <b>Scope of delivery</b>    | 1 shelf incl. connecting cable 2 m and installation material |



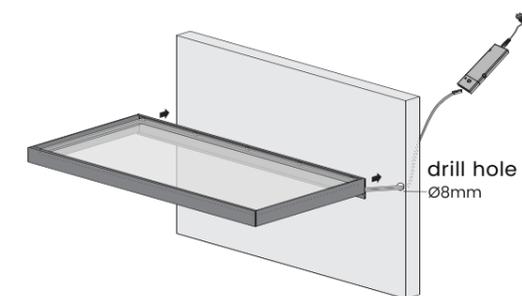
# ILLUMINATED GLASS SHELVES

| Number of LEDs          | Wattage                      | Luminous flux              | Lumen efficacy | Colour Rendering Index CRI | Colour temperature | Colour system | Energy efficiency class | Dimensions (L x W x H)               | Article number                 |
|-------------------------|------------------------------|----------------------------|----------------|----------------------------|--------------------|---------------|-------------------------|--------------------------------------|--------------------------------|
| LEDs/m                  | W                            | lm                         | lm/W           | Ra R9                      | K                  |               | EEL                     | mm                                   |                                |
| <b>BLACK MATT</b>       |                              |                            |                |                            |                    |               |                         |                                      |                                |
| 320                     | 3,0 (600 mm)<br>4,5 (900 mm) | 50 (600 mm)<br>75 (900 mm) | 16,7           | 90 >30                     | 3000               | monochrome    | A G                     | 600 x 230 x 30,5<br>900 x 230 x 30,5 | 201.10.21.001<br>201.10.21.003 |
|                         | 3,0 (600 mm)<br>4,5 (900 mm) | 50 (600 mm)<br>75 (900 mm) | 16,7           | 90 >30                     | 4000               |               |                         | 600 x 230 x 30,5<br>900 x 230 x 30,5 | 201.10.21.002<br>201.10.21.004 |
| 640                     | 3,0 (600 mm)<br>4,5 (900 mm) | 50 (600 mm)<br>75 (900 mm) | 16,7           | 90 >30                     | 2700 - 5000        | multiwhite    |                         | 600 x 230 x 30,5<br>900 x 230 x 30,5 | 201.11.21.001<br>201.11.21.002 |
| <b>ALUMINUM BRUSHED</b> |                              |                            |                |                            |                    |               |                         |                                      |                                |
| 320                     | 3,0 (600 mm)<br>4,5 (900 mm) | 50 (600 mm)<br>75 (900 mm) | 16,7           | 90 >30                     | 3000               | monochrome    | A G                     | 600 x 230 x 30,5<br>900 x 230 x 30,5 | 201.10.22.022<br>201.10.22.024 |
|                         | 3,0 (600 mm)<br>4,5 (900 mm) | 50 (600 mm)<br>75 (900 mm) | 16,7           | 90 >30                     | 4000               |               |                         | 600 x 230 x 30,5<br>900 x 230 x 30,5 | 201.10.22.023<br>201.10.22.025 |
| 640                     | 3,0 (600 mm)<br>4,5 (900 mm) | 50 (600 mm)<br>75 (900 mm) | 16,7           | 90 >30                     | 2700 - 5000        | multiwhite    |                         | 600 x 230 x 30,5<br>900 x 230 x 30,5 | 201.11.22.009<br>201.11.22.010 |

### APPLICATION

The glass shelf with integrated LED aluminum frame provides uniform illumination of the glass surface and highlights objects with clarity. **For kitchens** – decorative, functional and ready to install.

### Installation:





**DOWN**  
LIGHTS

## DOWNLIGHTS

**24V**  
monochrome (2-pin), 62 x 62 mm



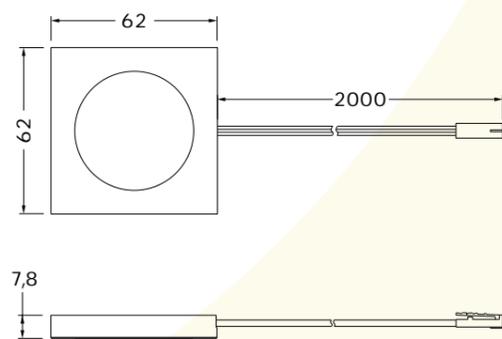
SL4001



|                        |                                    |
|------------------------|------------------------------------|
| Material               | aluminum                           |
| Surface finish         | silver                             |
| Dimensions (L x W x H) | 62 x 62 x 7,8 mm                   |
| Dimmable               | yes                                |
| Degree of protection   | IP20                               |
| Lifetime L80/B10       | > 50.000 h                         |
| Lifetime L70/B50       | > 80.000 h                         |
| Installation           | surface mounting                   |
| Scope of delivery      | 1 light incl. connecting cable 2 m |

- HIGH CRI **93**
- HIGH LUMINOUS FLUX

Dimensions:



|         | 120° | 3000 K  | 4000 K  |
|---------|------|---------|---------|
| 250 mm  |      | 1150 lx | 1163 lx |
| 500 mm  |      | 385 lx  | 430 lx  |
| 750 mm  |      | 178 lx  | 202 lx  |
| 1000 mm |      | 103 lx  | 118 lx  |

| Wattage | Luminous flux | Lumen efficacy | Colour Rendering Index CRI |     | Colour temperature | Colour system | Energy efficiency class | Article number |
|---------|---------------|----------------|----------------------------|-----|--------------------|---------------|-------------------------|----------------|
| W       | lm            | lm/W           | Ra                         | R9  | K                  |               | EEI                     |                |
| 2.5     | 210           | 84             | 93                         | >50 | 3000               | monochrome    |                         | 202.10.22.001  |
| 2.5     | 235           | 94             | 93                         | >50 | 4000               | monochrome    |                         | 202.10.22.002  |

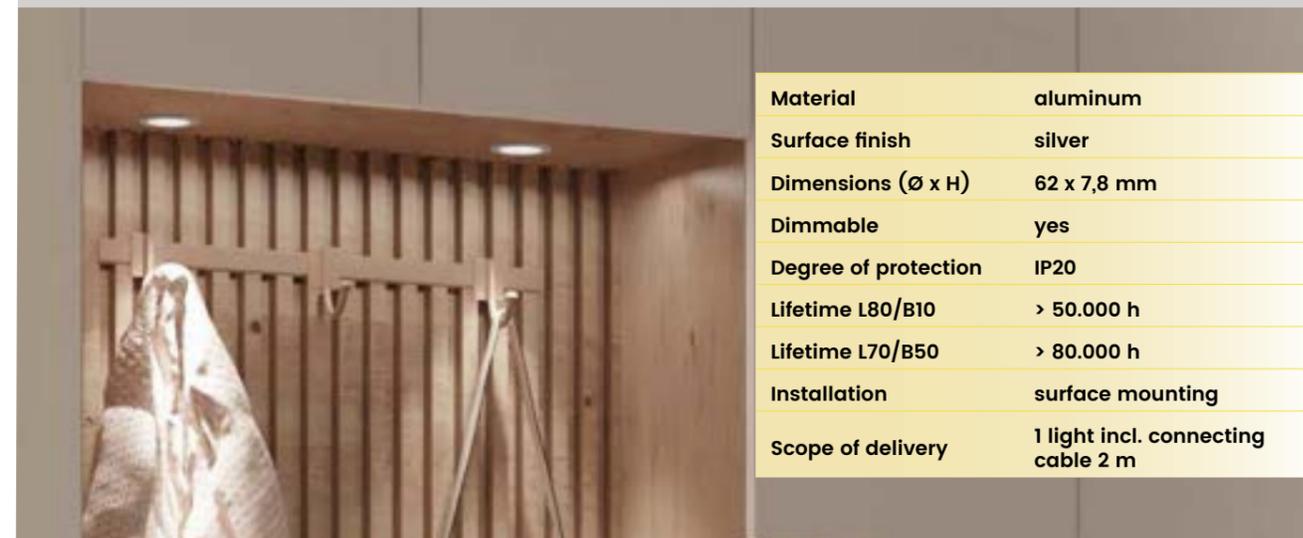


## DOWNLIGHTS

**24V**  
monochrome (2-pin), Ø 62 mm



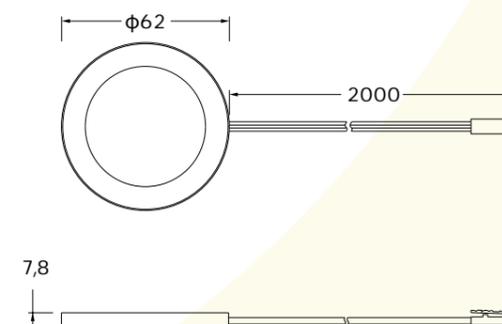
SL4002



|                      |                                    |
|----------------------|------------------------------------|
| Material             | aluminum                           |
| Surface finish       | silver                             |
| Dimensions (Ø x H)   | 62 x 7,8 mm                        |
| Dimmable             | yes                                |
| Degree of protection | IP20                               |
| Lifetime L80/B10     | > 50.000 h                         |
| Lifetime L70/B50     | > 80.000 h                         |
| Installation         | surface mounting                   |
| Scope of delivery    | 1 light incl. connecting cable 2 m |

- HIGH CRI **93**
- HIGH LUMINOUS FLUX

Dimensions:



|         | 120° | 3000 K  | 4000 K  |
|---------|------|---------|---------|
| 250 mm  |      | 1150 lx | 1163 lx |
| 500 mm  |      | 385 lx  | 430 lx  |
| 750 mm  |      | 178 lx  | 202 lx  |
| 1000 mm |      | 103 lx  | 118 lx  |

| Wattage | Luminous flux | Lumen efficacy | Colour Rendering Index CRI |     | Colour temperature | Colour system | Energy efficiency class | Article number |
|---------|---------------|----------------|----------------------------|-----|--------------------|---------------|-------------------------|----------------|
| W       | lm            | lm/W           | Ra                         | R9  | K                  |               | EEI                     |                |
| 2.5     | 210           | 84             | 93                         | >50 | 3000               | monochrome    |                         | 202.10.22.003  |
| 2.5     | 235           | 94             | 93                         | >50 | 4000               | monochrome    |                         | 202.10.22.004  |



# DOWNLIGHTS

24V

monochrome (2-pin), 192 x 112 mm



SL4003

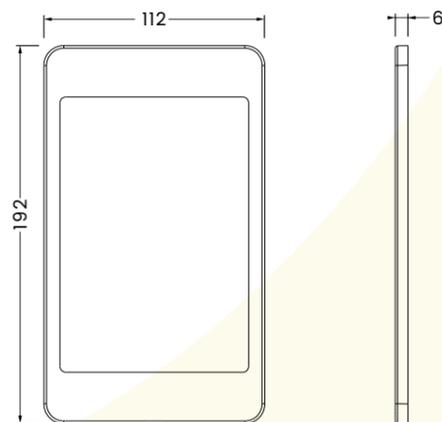


|                        |                                    |
|------------------------|------------------------------------|
| Material               | aluminum                           |
| Surface finish         | silver                             |
| Dimensions (L x W x H) | 192 x 112 x 6 mm                   |
| Dimmable               | yes                                |
| Degree of protection   | IP20                               |
| Lifetime L80/B10       | > 50.000 h                         |
| Lifetime L70/B50       | > 80.000 h                         |
| Installation           | surface mounting                   |
| Scope of delivery      | 1 light incl. connecting cable 2 m |

- HIGH CRI 93
- HIGH LUMINOUS FLUX



Dimensions:



120°

3000 K    4000 K

| Distance | 3000 K  | 4000 K  |
|----------|---------|---------|
| 250 mm   | 3830 lx | 4256 lx |
| 500 mm   | 958 lx  | 1064 lx |
| 750 mm   | 426 lx  | 473 lx  |
| 1000 mm  | 239 lx  | 266 lx  |

| Wattage | Luminous flux | Lumen efficacy | Colour Rendering Index CRI |     | Colour temperature | Colour system | Energy efficiency class | Article number |
|---------|---------------|----------------|----------------------------|-----|--------------------|---------------|-------------------------|----------------|
| W       | lm            | lm/W           | Ra                         | R9  | K                  |               | EEL                     |                |
| 5       | 537           | 107            | 93                         | >50 | 3000               | monochrome    | F                       | 202.10.22.005  |
| 5       | 596           | 119            | 93                         | >50 | 4000               | monochrome    | E                       | 202.10.22.006  |



# DOWNLIGHTS

24V

monochrome (2-pin) / multiwhite (2-pin), Ø 65 mm

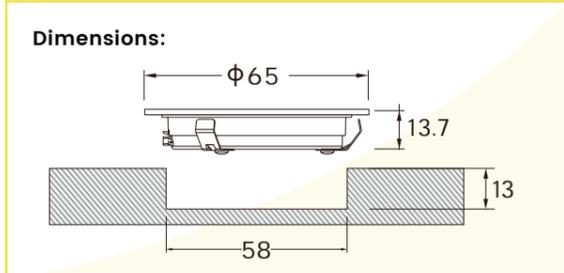


SL4004



|                      |                                    |
|----------------------|------------------------------------|
| Material             | aluminum + stainless steel         |
| Surface finish       | stainless steel                    |
| Dimensions (Ø x H)   | 65 x 13,7 mm                       |
| Drill hole (Ø x H)   | 58 x 13 mm                         |
| Dimmable             | yes                                |
| Degree of protection | IP20                               |
| Lifetime L80/B10     | > 50.000 h                         |
| Lifetime L70/B50     | > 80.000 h                         |
| Installation         | recessed or surface mounting       |
| Scope of delivery    | 1 light incl. connecting cable 2 m |

- HIGH CRI 93
- HIGH LUMINOUS FLUX



**ORDER INFO:**  
Base for surface mounting needs to be ordered separately.



Base for surface mounting incl. fixings 208.99.22.008



|         | 120° | 2700K  | 5000K  | 3000K  | 4000K  |
|---------|------|--------|--------|--------|--------|
| 250 mm  |      | 2016lx | 2693lx | 2240lx | 2448lx |
| 500 mm  |      | 504lx  | 673lx  | 560lx  | 612lx  |
| 750 mm  |      | 224lx  | 299lx  | 249lx  | 272lx  |
| 1000 mm |      | 126lx  | 168lx  | 140lx  | 153lx  |

| Wattage | Luminous flux | Lumen efficacy | Colour Rendering Index CRI |     | Colour temperature | Colour system | Energy efficiency class | Article number |
|---------|---------------|----------------|----------------------------|-----|--------------------|---------------|-------------------------|----------------|
| W       | lm            | lm/W           | Ra                         | R9  | K                  |               | EEI                     |                |
| 2,5     | 299           | 120            | 93                         | >50 | 3000               | monochrome    |                         | 203.10.22.004  |
| 2,5     | 305           | 122            | 93                         | >50 | 4000               |               |                         | 203.10.22.005  |
| 2,5     | 305           | 122            | 93                         | >50 | 2700-5000          | multiwhite    |                         | 203.11.22.003  |



# DOWNLIGHTS

24V

monochrome (2-pin) / multiwhite (2-pin), Ø 75 mm

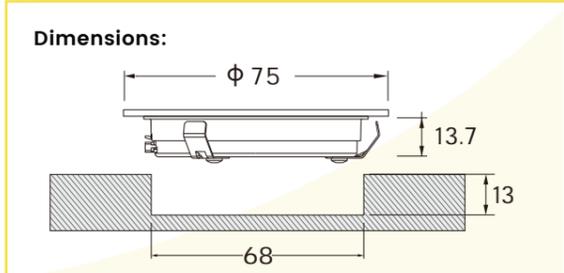


SL4005



|                      |                                    |
|----------------------|------------------------------------|
| Material             | aluminum + stainless steel         |
| Surface finish       | stainless steel                    |
| Dimensions (Ø x H)   | 75 x 13,7 mm                       |
| Drill hole (Ø x H)   | 68 x 13 mm                         |
| Dimmable             | yes                                |
| Degree of protection | IP20                               |
| Lifetime L80/B10     | > 50.000 h                         |
| Lifetime L70/B50     | > 80.000 h                         |
| Installation         | recessed or surface mounting       |
| Scope of delivery    | 1 light incl. connecting cable 2 m |

- HIGH CRI 93
- HIGH LUMINOUS FLUX



**ORDER INFO:**  
Base for surface mounting needs to be ordered separately.



Base for surface mounting incl. fixings 208.99.22.004



|         | 120° | 2700K  | 5000K  | 3000K  | 4000K  |
|---------|------|--------|--------|--------|--------|
| 250 mm  |      | 2419lx | 3186lx | 2688lx | 2896lx |
| 500 mm  |      | 605lx  | 796lx  | 672lx  | 724lx  |
| 750 mm  |      | 269lx  | 354lx  | 299lx  | 322lx  |
| 1000 mm |      | 151lx  | 199lx  | 168lx  | 181lx  |

| Wattage | Luminous flux | Lumen efficacy | Colour Rendering Index CRI |     | Colour temperature | Colour system | Energy efficiency class | Article number |
|---------|---------------|----------------|----------------------------|-----|--------------------|---------------|-------------------------|----------------|
| W       | lm            | lm/W           | Ra                         | R9  | K                  |               | EEI                     |                |
| 3       | 316           | 105            | 93                         | >50 | 3000               | monochrome    |                         | 203.10.22.006  |
| 3       | 366           | 122            | 93                         | >50 | 4000               |               |                         | 203.10.22.007  |
| 3       | 366           | 122            | 93                         | >50 | 2700-5000          | multiwhite    |                         | 203.11.22.004  |



# DOWNLIGHTS

**24V**  
monochrome (2-pin), Ø 41 mm



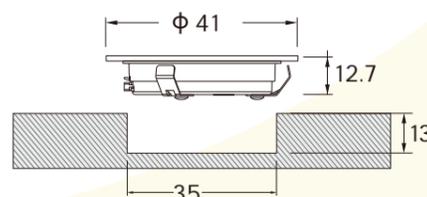
## SL4006



|                      |                                    |
|----------------------|------------------------------------|
| Material             | aluminum + stainless steel         |
| Surface finish       | silver                             |
| Dimensions (Ø x H)   | 41 x 12,7 mm                       |
| Drill hole (Ø x H)   | 35 x 13 mm                         |
| Dimmable             | yes                                |
| Degree of protection | IP20                               |
| Lifetime L80/B10     | >50.000 h                          |
| Lifetime L70/B50     | >80.000 h                          |
| Installation         | recessed or surface mounting       |
| Scope of delivery    | 1 light incl. connecting cable 2 m |

- HIGH CRI **93**
- HIGH LUMINOUS FLUX

### Dimensions:



**ORDER INFO:**  
Base for surface mounting needs to be ordered separately.



|         | 50° | 3000K  | 4000K  |
|---------|-----|--------|--------|
| 250 mm  |     | 2848lx | 3201lx |
| 500 mm  |     | 712lx  | 800lx  |
| 750 mm  |     | 316lx  | 356lx  |
| 1000 mm |     | 178lx  | 200lx  |

| Wattage | Luminous flux | Lumen efficacy | Colour Rendering Index CRI |     | Colour temperature | Colour system | Energy efficiency class | Article number |
|---------|---------------|----------------|----------------------------|-----|--------------------|---------------|-------------------------|----------------|
| W       | lm            | lm/W           | Ra                         | R9  | K                  |               | EEI                     |                |
| 1       | 117           | 117            | 93                         | >50 | 3000               | monochrome    |                         | 203.10.22.008  |
| 1       | 125           | 125            | 93                         | >50 | 4000               | monochrome    |                         | 203.10.22.009  |

# DOWNLIGHTS

**24V**  
monochrome (2-pin), Ø 75 mm



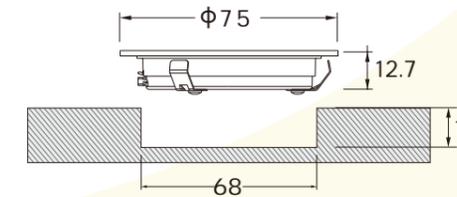
## SL4007



|                      |                                    |
|----------------------|------------------------------------|
| Material             | aluminum + stainless steel         |
| Surface finish       | silver                             |
| Dimensions (Ø x H)   | 75 x 12,7 mm                       |
| Drill hole (Ø x H)   | 68 x 13 mm                         |
| Dimmable             | yes                                |
| Degree of protection | IP20                               |
| Lifetime L80/B10     | >50.000 h                          |
| Lifetime L70/B50     | >80.000 h                          |
| Installation         | recessed or surface mounting       |
| Scope of delivery    | 1 light incl. connecting cable 2 m |

- HIGH CRI **93**
- HIGH LUMINOUS FLUX

### Dimensions:



**ORDER INFO:**  
Base for surface mounting needs to be ordered separately.



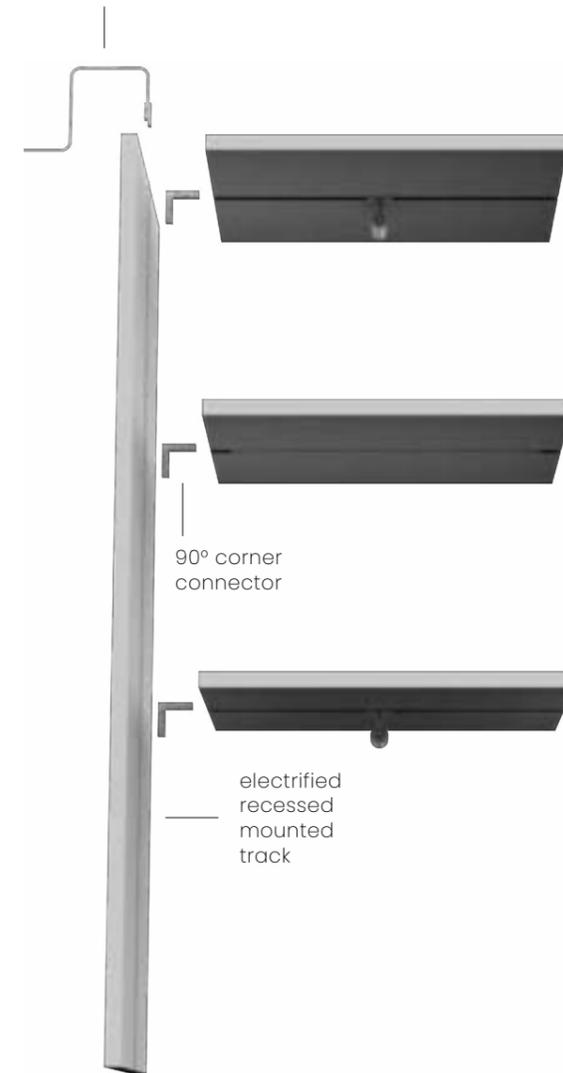
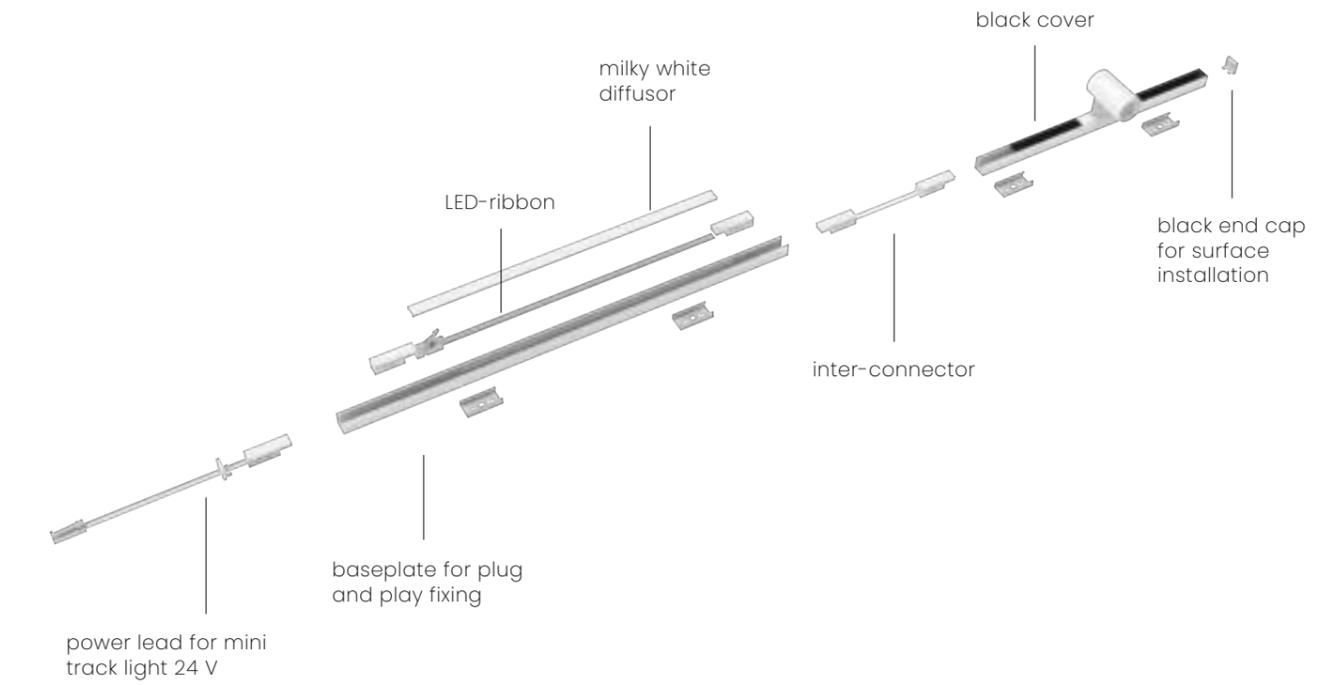
|         | 50° | 3000K  | 4000K   |
|---------|-----|--------|---------|
| 250 mm  |     | 9200lx | 10120lx |
| 500 mm  |     | 2300lx | 2530lx  |
| 750 mm  |     | 1022lx | 1124lx  |
| 1000 mm |     | 575lx  | 633lx   |

| Wattage | Luminous flux | Lumen efficacy | Colour Rendering Index CRI |     | Colour temperature | Colour system | Energy efficiency class | Article number |
|---------|---------------|----------------|----------------------------|-----|--------------------|---------------|-------------------------|----------------|
| W       | lm            | lm/W           | Ra                         | R9  | K                  |               | EEI                     |                |
| 3       | 351           | 117            | 93                         | >50 | 3000               | monochrome    |                         | 203.10.22.010  |
| 3       | 386           | 129            | 93                         | >50 | 4000               | monochrome    |                         | 203.10.22.011  |

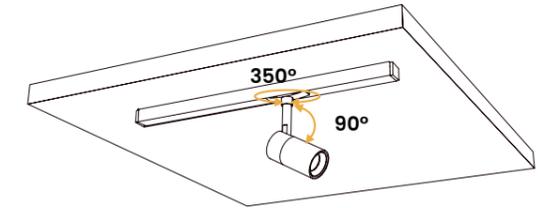
Highlight painting & pictures,  
objects in furniture and  
inside rooms



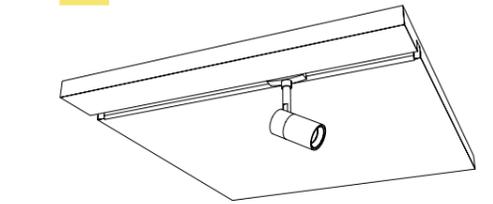
# MINI TRACK LIGHTS



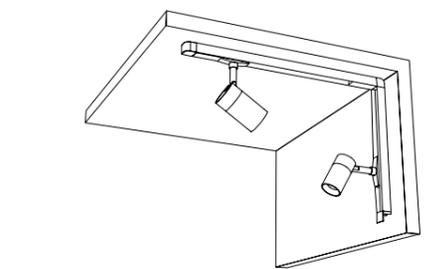
**A1** surface mounted installation



**A2** recessed mounted installation



**A3** 90° inward facing corner installation



# MINI TRACK LIGHTS

24V

track 15 x 10 mm / 10 x 10 mm

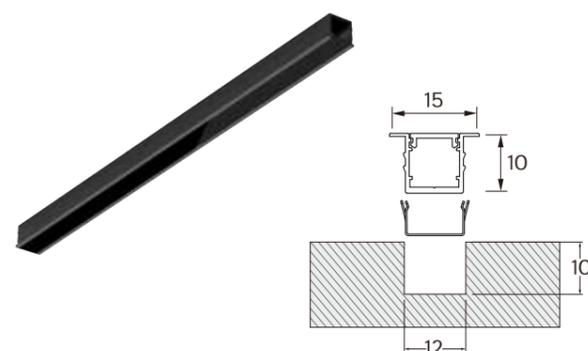


- ULTRA SLIM SYSTEM
- MODULAR SYSTEM

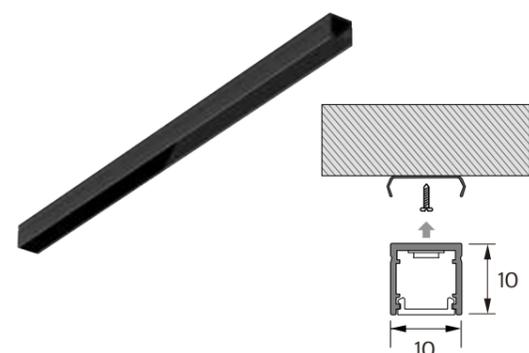
## TL4002 / TL4003



### TL4002 recessed mounted



### TL4003 surface mounted



|                               |  |
|-------------------------------|--|
| <b>Material</b>               | aluminum rail & plastic cover                          |
| <b>Surface finish</b>         | rail & cover black                                     |
| <b>Dimensions (L x W x H)</b> | TL4002: 3000 x 15 x 10 mm<br>TL4003: 3000 x 10 x 10 mm |
| <b>Drill hole (TL4002)</b>    | 12 x 10 mm   |
| <b>Dimmable</b>               | yes (if illuminated)                                   |
| <b>Degree of protection</b>   | IP20   |
| <b>Scope of delivery</b>      | 1 track 3 m<br>incl. black cover                       |
| <b>Article number</b>         | 208.19.21.001 (TL4002)<br>208.19.21.002 (TL4003)       |

**ORDER INFO:**  
Accessories for installation need to be ordered separately, please refer to the right.

**ORDER INFO:**  
Driver (integrated or smart) must be ordered separately (ref. p. 116).

**ORDER INFO:**  
For illuminated track order LED-ribbon and milky white diffuser separately, please refer to the right.

**i** For illuminated SMD LED-ribbons please check LED-ribbon cutting (section) length.

## ORDER INFO

|                   |  |                                |
|-------------------|--|--------------------------------|
|                   | 1 power lead 24V, 2000 mm  | 204.99.21.001                  |
|                   | 1 flexible inter-connector 24V, 20 mm for systems >3 m or inward facing corners  | 204.99.21.002                  |
|                   | 5 pairs ribbon & inter-connector (both sides) for monochrome LED-ribbons 24V, 5 mm (width)                             | 204.99.21.007                  |
|                   | 90° corner connector 24V (5 pcs)   | 204.99.21.006                  |
|                   | 1 pair end caps for recessed mounted track + 9 installation clips  | 204.99.21.004                  |
|                   | 1 pair end caps for surface mounted track + 9 installation clips   | 204.99.21.005                  |
| <b>LS4000</b><br> | SMD LED 24V, 5 mm, 3000K, 5 W/m, 950 lm/m (ref. p. 023)<br>SMD LED 24V, 5 mm, 4000K, 5 W/m, 975 lm/m (ref. p. 023)     | 200.10.00.002<br>200.10.00.003 |
| <b>LS4001</b><br> | SMD LED 24V, 5 mm, 3000K, 10 W/m, 1900 lm/m (ref. p. 023)<br>SMD LED 24V, 5 mm, 4000K, 10 W/m, 1950 lm/m (ref. p. 023) | 200.10.00.006<br>200.10.00.007 |
|                   | Milky white diffuser 1000 x 8 x 3 mm, transmittance 80% (5 pcs) for illuminated track                                  | 204.99.00.001                  |
| <b>TL4001</b><br> | Spot 24V, 1 W, 160 lm, MC 3000K (ref. p. 087)<br>Spot 24V, 1 W, 160 lm, MC 4000K (ref. p. 087)                         | 204.10.21.001<br>204.10.21.002 |
| <b>TL4005</b><br> | Spot 24V, 2,5 W, 450 lm, MC 3000K (ref. p. 087)<br>Spot 24V, 2,5 W, 450 lm, MC 4000K (ref. p. 087)                     | 204.10.21.003<br>204.10.21.004 |

# MINI TRACK LIGHTS

**24V**  
spot, monochrome (2-pin),  
Ø 18 x 45 x 47 mm

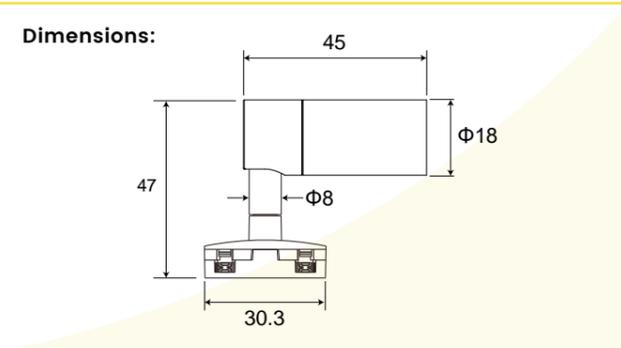


- HIGH CRI **93**
- **TURNABLE** HEAD
- BEAM ANGLE **25°**

TL4001 / TL4005



|                             |                   |
|-----------------------------|-------------------|
| <b>Material</b>             | aluminum          |
| <b>Surface finish</b>       | black             |
| <b>Dimensions</b>           | Ø 18 x 45 x 47 mm |
| <b>Dimmable</b>             | yes               |
| <b>Degree of protection</b> | IP20              |
| <b>Lifetime L80/B10</b>     | > 50.000 h        |
| <b>Lifetime L70/B50</b>     | > 80.000 h        |
| <b>Installation</b>         | clip-in           |
| <b>Scope of delivery</b>    | 1 spot            |



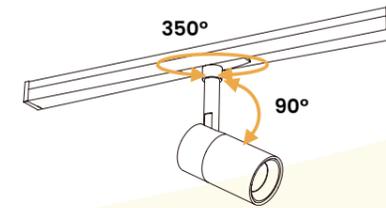
- i** Calculate the total wattage requirement of the system and select a suitable driver.
- i** Plug and play inside mini track light by clip-in installation of spots.
- i** Accentuated lighting thanks to narrow beam angle of 25°. Particularly suitable for highlighting individual objects.

TL4001 / TL4005

| Wattage       | Luminous flux | Lumen efficacy | Colour Rendering Index CRI |     | Colour temperature | Colour system | Energy efficiency class | Article number                 |
|---------------|---------------|----------------|----------------------------|-----|--------------------|---------------|-------------------------|--------------------------------|
| W             | lm            | lm/W           | Ra                         | R9  | K                  |               | EEL                     |                                |
| <b>TL4001</b> |               |                |                            |     |                    |               |                         |                                |
| 1             | 135           | 135            | 93                         | >50 | 3000<br>4000       | monochrome    |                         | 204.10.21.001<br>204.10.21.002 |
| <b>TL4005</b> |               |                |                            |     |                    |               |                         |                                |
| 2,5           | 390           | 130            | 93                         | >50 | 3000<br>4000       | monochrome    |                         | 204.10.21.003<br>204.10.21.004 |

| <b>TL4001</b> |  |  | 25°     |         | <b>TL4005</b> |  |          | 25°     |  |
|---------------|--|--|---------|---------|---------------|--|----------|---------|--|
|               |  |  | 3000 K  | 4000 K  |               |  | 3000 K   | 4000 K  |  |
| 250 mm        |  |  | 3344 lx | 3040 lx | 250 mm        |  | 13024 lx | 7200 lx |  |
| 500 mm        |  |  | 836 lx  | 760 lx  | 500 mm        |  | 3256 lx  | 1800 lx |  |
| 750 mm        |  |  | 372 lx  | 338 lx  | 750 mm        |  | 1447 lx  | 800 lx  |  |
| 1000 mm       |  |  | 203 lx  | 190 lx  | 1000 mm       |  | 814 lx   | 450 lx  |  |

Adjustable light beam:



head 350° rotatable / 90° inclinable



# SHOWCASE LIGHTS

# SHOWCASE LIGHTS

**24V**  
mini spot light, monochrome (2-pin), Ø 18 mm



- HIGH CRI **93**
- HIGH LUMINOUS FLUX
- BEAM ANGLE **25°**

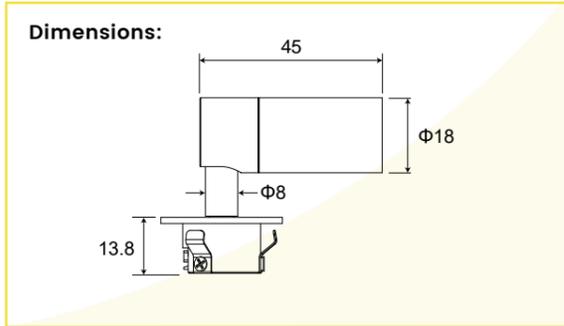
## SC4000



head 350° rotatable / 90° inclinable

|                             |                                    |
|-----------------------------|------------------------------------|
| <b>Material</b>             | aluminum                           |
| <b>Surface finish</b>       | black                              |
| <b>Dimensions</b>           | Ø 18 x 45 x 43.2 mm                |
| <b>Drill hole</b>           | Ø 25 x 13 mm                       |
| <b>Dimmable</b>             | yes                                |
| <b>Degree of protection</b> | IP20                               |
| <b>Lifetime L80/B10</b>     | > 50.000 h                         |
| <b>Lifetime L70/B50</b>     | > 80.000 h                         |
| <b>Installation</b>         | recessed mounting                  |
| <b>Scope of delivery</b>    | 1 light incl. connecting cable 2 m |

**i** Accentuated lighting thanks to narrow beam angle of 25°. Particularly suitable for highlighting individual objects.

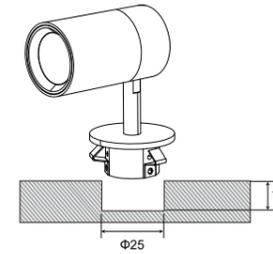


|         | 25° | 3000 K  | 4000 K  |
|---------|-----|---------|---------|
| 250 mm  |     | 8256 lx | 8464 lx |
| 500 mm  |     | 2064 lx | 2116 lx |
| 750 mm  |     | 917 lx  | 940 lx  |
| 1000 mm |     | 516 lx  | 529 lx  |

## SC4000

| Wattage | Luminous flux | Lumen efficacy | Colour Rendering Index CRI |     | Colour temperature | Colour system | Energy efficiency class | Article number |
|---------|---------------|----------------|----------------------------|-----|--------------------|---------------|-------------------------|----------------|
| W       | lm            | lm/W           | Ra                         | R9  | K                  |               | EEL                     |                |
| 2,5     | 390           | 130            | 93                         | >50 | 3000               | monochrome    |                         | 205.10.21.001  |
|         |               |                |                            |     | 4000               |               |                         | 205.10.21.002  |

### Installation diagram:



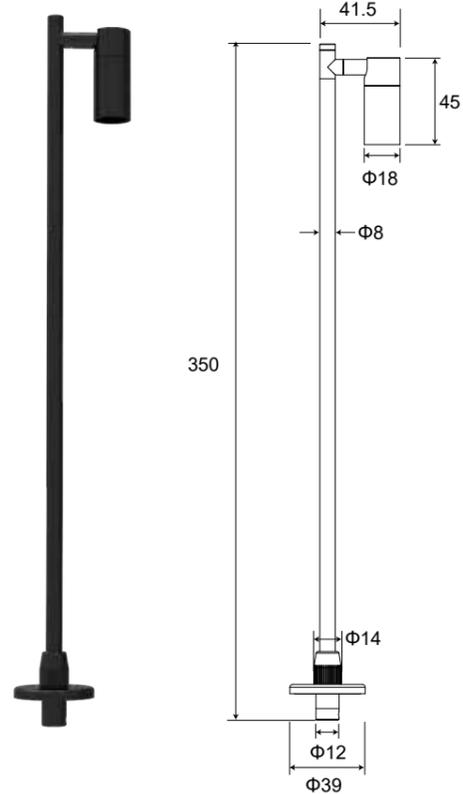
# SHOWCASE LIGHTS

**24V**  
pole light, monochrome (2-pin), Ø 18 x 45 x 350 mm



- HIGH CRI **93**
- HIGH LUMINOUS FLUX
- BEAM ANGLE **25°**

SC4001



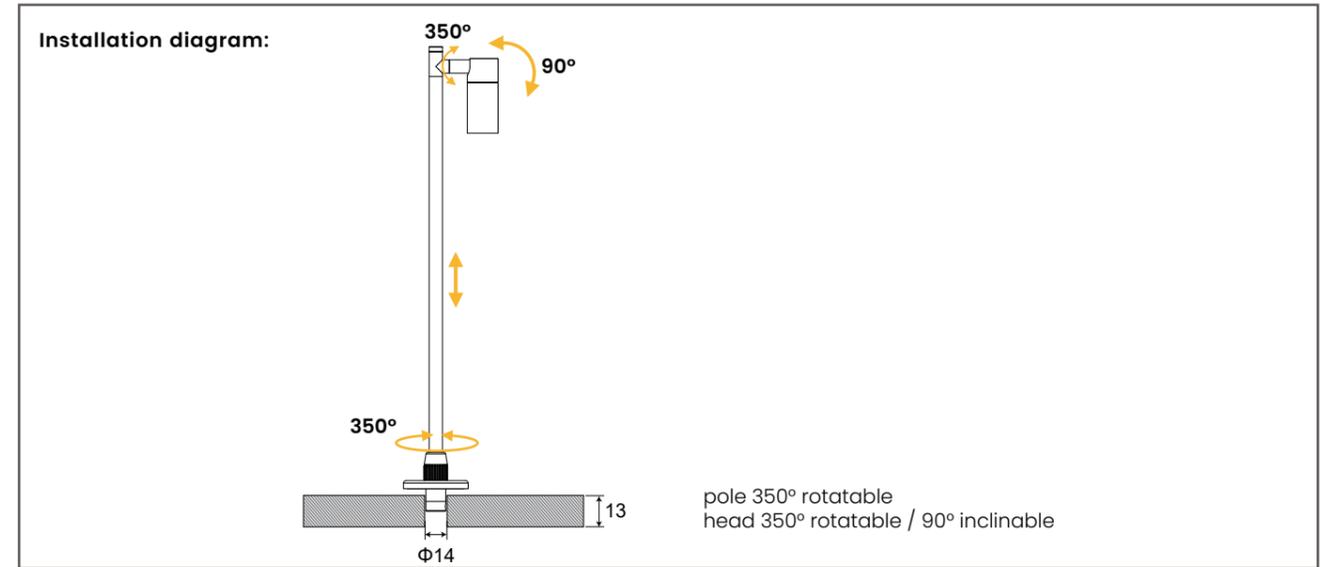
|                             |                                    |
|-----------------------------|------------------------------------|
| <b>Material</b>             | aluminum                           |
| <b>Surface finish</b>       | black                              |
| <b>Dimensions</b>           | Ø 18 x 45 x 350 mm                 |
| <b>Drill hole</b>           | Ø 14 mm                            |
| <b>Dimmable</b>             | yes                                |
| <b>Degree of protection</b> | IP20                               |
| <b>Lifetime L80/B10</b>     | > 50.000 h                         |
| <b>Lifetime L70/B50</b>     | > 80.000 h                         |
| <b>Installation</b>         | recessed mounting                  |
| <b>Scope of delivery</b>    | 1 light incl. connecting cable 2 m |

**i** Accentuated lighting thanks to narrow beam angle of 25°. Particularly suitable for highlighting individual objects.

|         | 3000 K  | 4000 K  |
|---------|---------|---------|
| 250 mm  | 9099 lx | 8272 lx |
| 500 mm  | 2275 lx | 2068 lx |
| 750 mm  | 1011 lx | 919 lx  |
| 1000 mm | 569 lx  | 517 lx  |

SC4001

| Wattage | Luminous flux | Lumen efficacy | Colour Rendering Index CRI |     | Colour temperature | Colour system | Energy efficiency class | Article number |
|---------|---------------|----------------|----------------------------|-----|--------------------|---------------|-------------------------|----------------|
| W       | lm            | lm/W           | Ra                         | R9  | K                  |               | EEL                     |                |
| 2,5     | 390           | 130            | 93                         | >50 | 3000               | monochrome    |                         | 205.10.21.003  |
|         |               |                |                            |     | 4000               |               |                         | 205.10.21.004  |



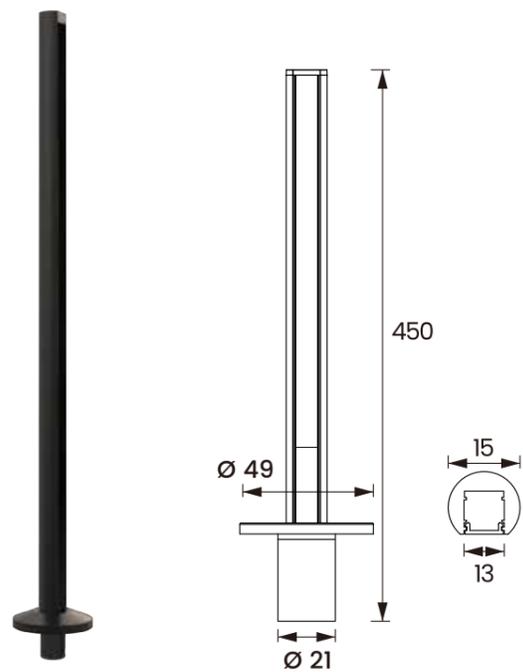
# SHOWCASE LIGHTS

24V

track, vertical mounted, 15 x 13 mm

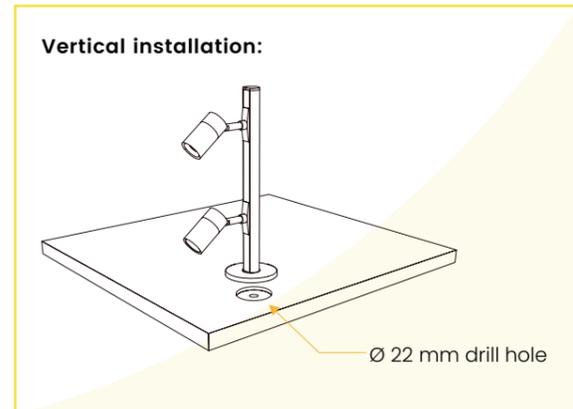
- VERTICAL INSTALLATION
- MODULAR SYSTEM

TL4004



|                               |  |
|-------------------------------|--|
| <b>Material</b>               | aluminum rail & plastic cover  |
| <b>Surface finish</b>         | black rail & cover   |
| <b>Dimensions (L x W x H)</b> | 450 x 15 x 13 mm   |
| <b>Drill hole</b>             | Ø 22 mm  |
| <b>Degree of protection</b>   | IP20   |
| <b>Installation</b>           | recessed mounted   |
| <b>Scope of delivery</b>      | 1 track incl. black cover, connecting cable, installation base and end cap |
| <b>Article number</b>         | 208.19.21.003  |

**ORDER INFO:**  
Spots need to be ordered separately, please refer to the right.



**ORDER INFO**

|               |  |  |                                |
|---------------|--|--|--------------------------------|
| <b>TL4001</b> |  | Spot 24V, 1 W, 160 lm, MC 3000K (ref. p. 087)<br>Spot 24V, 1 W, 160 lm, MC 4000K (ref. p. 087)     | 204.10.21.001<br>204.10.21.002 |
| <b>TL4005</b> |  | Spot 24V, 2,5 W, 450 lm, MC 3000K (ref. p. 087)<br>Spot 24V, 2,5 W, 450 lm, MC 4000K (ref. p. 087) | 204.10.21.003<br>204.10.21.004 |



# CEILING LIGHTS

LIVING LIGHT  
MEANS  
LIGHT FOR...



EVERY MOMENT.



EVERYDAY LIFE.



DESIGN & STYLE



GETTING TOGETHER.



INTUITIVE CONTROL



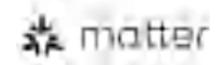
RELAXING.



# PENDANT LIGHTS

ONE AURA transforms your home with design, technology and comfort. Gives your kitchen, dining room and living room a unique, individual aura.

## ONE AURA



|                              |  |
|------------------------------|--|
| <b>Material</b>              | aluminum   |
| <b>Rated voltage</b>         | 24 V DC  |
| <b>Hanging height</b>        | max. 350 cm (can be adjusted during installation)              |
| <b>Dimmable</b>              | yes  |
| <b>Degree of protection</b>  | IP44   |
| <b>Network signal</b>        | matter / Thread 1.4  |
| <b>Lifetime L70/B50</b>      | > 48.000 h   |
| <b>Electrical connection</b> | Wago connector   |
| <b>Scope of delivery</b>     | 1 light incl. installation material and VoxAura remote control |

### LIGHT CONTROL:

VoxAura app, VoxAura remote control, voice control via matter (Apple Home, Google Home & Amazon Alexa, ...), wall plug (only on / off)

### LIGHT FUNCTIONS:

Downlight, ambient lighting, dimming, multiwhite 2700 / 3000 / 4000 / 5000 K, fading, memory function after restart.

### matter:

matter-certified and therefore compatible with all matter-enabled devices, including brands such as Google Home, Apple HomeKit and Amazon Alexa that support matter. For more information please check page 144.

### SIGNAL RANGE:

Remote control to pendant light: 6 m.  
Pendant light in Thread mesh: 10-30 m.

| Wattage               | Surface finish          | Luminous flux downlight | Luminous flux uplight | Colour Rendering Index CRI | Colour temperature | Colour system | Energy efficiency class | Dimensions | Article number |
|-----------------------|-------------------------|-------------------------|-----------------------|----------------------------|--------------------|---------------|-------------------------|------------|----------------|
| W                     |                         | lm                      | lm                    | Ra                         | K                  |               | EEL                     | Ø x h      |                |
| <b>GRAPHITE BLACK</b> |                         |                         |                       |                            |                    |               |                         |            |                |
| 30                    | graphite black polished | 1214 - 1320             | 572 - 603             | 97+                        | 2700 - 5000        | multiwhite    |                         | 60 x 5 cm  | 213.11.21.001  |
| 25                    | graphite black polished | 1032 - 1130             | 488 - 519             | 97+                        | 2700 - 5000        | multiwhite    |                         | 40 x 5 cm  | 213.11.21.002  |
| <b>SILK WHITE</b>     |                         |                         |                       |                            |                    |               |                         |            |                |
| 30                    | silk white matt         | 1214 - 1320             | 572 - 603             | 97+                        | 2700 - 5000        | multiwhite    |                         | 60 x 5 cm  | 213.11.20.001  |
| 25                    | silk white matt         | 1032 - 1130             | 488 - 519             | 97+                        | 2700 - 5000        | multiwhite    |                         | 40 x 5 cm  | 213.11.20.002  |

### CUSTOM SURFACE FINISHES

Further surface variants are under development and available for individual projects. If you are interested, please contact us.



# CEILING LIGHTS

Bathes your rooms in atmospheric light and creates a feel-good atmosphere. ONE ARC combines discrete elegance with modern function - perfect for hallways, bedrooms, children's rooms, guest rooms and offices.

## ONE ARC



TrueColour  
CRI 97+

|                              |  |
|------------------------------|--|
| <b>Material</b>              | aluminum   |
| <b>Rated voltage</b>         | 24 V DC  |
| <b>Dimmable</b>              | yes  |
| <b>Degree of protection</b>  | IP20   |
| <b>Network signal</b>        | matter / Thread 1.4  |
| <b>Lifetime L70/B50</b>      | > 48.000 h   |
| <b>Electrical connection</b> | Wago connector   |
| <b>Scope of delivery</b>     | 1 light incl. installation material and VoxAura remote control |

### LIGHT CONTROL:

VoxAura app, VoxAura remote control, voice control via matter (Apple Home, Google Home & Amazon Alexa, ...), wall plug (only on / off)

### LIGHT FUNCTIONS:

Downlight, ambient lighting, dimming, multiwhite 2700 / 3000 / 4000 / 5000 K, fading, memory function after restart.

### matter:

matter-certified and therefore compatible with all matter-enabled devices, including brands such as Google Home, Apple HomeKit and Amazon Alexa that support matter. For more information please check page 144..

### SIGNAL RANGE:

Remote control to ceiling light: 6 m.  
Ceiling light in Thread mesh: 10-30 m.

| Wattage | Surface finish | Luminous flux downlight | Luminous flux uplight | Colour Rendering Index CRI | Colour temperature | Colour system | Energy efficiency class | Dimensions | Article number |
|---------|----------------|-------------------------|-----------------------|----------------------------|--------------------|---------------|-------------------------|------------|----------------|
| W       |                | lm                      | lm                    | Ra                         | K                  |               | EEL                     | Ø x h      |                |

### GRAPHITE BLACK

|    |                         |             |           |     |             |            |  |           |               |
|----|-------------------------|-------------|-----------|-----|-------------|------------|--|-----------|---------------|
| 30 | graphite black polished | 1535 - 1659 | 572 - 603 | 97+ | 2700 - 5000 | multiwhite |  | 60 x 5 cm | 214.11.21.001 |
| 25 | graphite black polished | 1297 - 1402 | 488 - 519 | 97+ | 2700 - 5000 | multiwhite |  | 40 x 5 cm | 214.11.21.002 |

### SILK WHITE

|    |                 |             |           |     |             |            |  |           |               |
|----|-----------------|-------------|-----------|-----|-------------|------------|--|-----------|---------------|
| 30 | silk white matt | 1535 - 1659 | 572 - 603 | 97+ | 2700 - 5000 | multiwhite |  | 60 x 5 cm | 214.11.20.001 |
| 25 | silk white matt | 1297 - 1402 | 488 - 519 | 97+ | 2700 - 5000 | multiwhite |  | 40 x 5 cm | 214.11.20.002 |

### CUSTOM SURFACE FINISHES

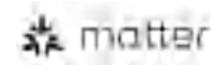
Further surface variants are under development and available for individual projects. If you are interested, please contact us.



# WALL LIGHTS

Sets stylish lighting accents and gives your walls expression. Whether in the hallway, bedroom, living room or guest room, ONE RISE complements the interior with a fine sense of atmosphere and detail.

## ONE RISE



TrueColour  
CRI 97+

|                              |                                     |
|------------------------------|-------------------------------------|
| <b>Material</b>              | aluminum                            |
| <b>Rated voltage</b>         | 24 V DC                             |
| <b>Dimmable</b>              | yes                                 |
| <b>Degree of protection</b>  | IP20                                |
| <b>Network signal</b>        | matter / Thread 1.4                 |
| <b>Lifetime L70/B50</b>      | > 48.000 h                          |
| <b>Electrical connection</b> | Wago connector                      |
| <b>Scope of delivery</b>     | 1 light incl. installation material |

### LIGHT CONTROL:

VoxAura app, VoxAura remote control, voice control via matter (Apple Home, Google Home & Amazon Alexa, ...), wall plug (only on / off)

### LIGHT FUNCTIONS:

Downlight, ambient lighting, dimming, multiwhite 2700 / 3000 / 4000 / 5000 K, fading, memory function after restart.

### matter:

matter-certified and therefore compatible with all matter-enabled devices, including brands such as Google Home, Apple HomeKit and Amazon Alexa that support matter. For more information please check page 144.

### SIGNAL RANGE:

Remote control to wall light: 6 m.  
Wall light in Thread mesh: 10-30 m.

### ORDER INFO:

Please order VoxAura remote control separately (see pages 118 & 119).

| Wattage | Surface finish | Luminous flux downlight | Luminous flux uplight | Colour Rendering Index CRI | Colour temperature | Colour system | Energy efficiency class | Dimensions | Article number |
|---------|----------------|-------------------------|-----------------------|----------------------------|--------------------|---------------|-------------------------|------------|----------------|
| W       |                | lm                      | lm                    | Ra                         | K                  |               | EEL                     | Ø x h      |                |

### GRAPHITE BLACK

|   |                         |           |           |     |             |            |  |              |               |
|---|-------------------------|-----------|-----------|-----|-------------|------------|--|--------------|---------------|
| 8 | graphite black polished | 490 - 627 | 490 - 627 | 97+ | 2700 - 5000 | multiwhite |  | 130 x 120 mm | 215.11.21.001 |
|---|-------------------------|-----------|-----------|-----|-------------|------------|--|--------------|---------------|

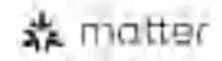
### SILK WHITE

|   |                 |           |           |     |             |            |  |              |               |
|---|-----------------|-----------|-----------|-----|-------------|------------|--|--------------|---------------|
| 8 | silk white matt | 490 - 627 | 490 - 627 | 97+ | 2700 - 5000 | multiwhite |  | 130 x 120 mm | 215.11.20.001 |
|---|-----------------|-----------|-----------|-----|-------------|------------|--|--------------|---------------|

### CUSTOM SURFACE FINISHES

Further surface variants are under development and available for individual projects. If you are interested, please contact us.

# ONE SPOT



TrueColour  
CRI 97+

|                       |                      |
|-----------------------|----------------------|
| Material              | aluminum             |
| Rated voltage         | 36 V DC              |
| Drill hole            | Ø 68 mm              |
| Dimmable              | yes                  |
| Degree of protection  | IP20                 |
| Network signal        | matter / Thread 1.4  |
| Lifetime L70/B50      | > 48.000 h           |
| Electrical connection | Wago connector       |
| Scope of delivery     | 1 light incl. driver |

### LIGHT CONTROL:

VoxAura app, VoxAura remote control, voice control via matter (Apple Home, Google Home & Amazon Alexa, ...), wall plug (only on / off)

### LIGHT FUNCTIONS:

Downlight, ambient lighting, dimming, multiwhite 2700 / 3000 / 4000 / 5000 K, fading, memory function after restart.

### matter:

matter-certified and therefore compatible with all matter-enabled devices, including brands such as Google Home, Apple HomeKit and Amazon Alexa that support matter. For more information please check page 144.

### SIGNAL RANGE:

Remote control to ceiling spot: 6 m.  
Ceiling spot in Thread mesh: 10-30 m.

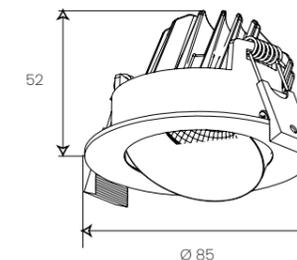
### ORDER INFO:

Driver and installation material included.

Please order VoxAura remote control separately (see pages 118 & 119).

|         | 25° | 2700 K  | 5000 K  |
|---------|-----|---------|---------|
| 1000 mm |     | 2957 lx | 3479 lx |
| 1500 mm |     | 1314 lx | 1546 lx |
| 2000 mm |     | 739 lx  | 933 lx  |
| 2500 mm |     | 473 lx  | 557 lx  |
| 3000 mm |     | 329 lx  | 387 lx  |

| Wattage           | Luminous flux | Colour Rendering Index CRI | Colour temperature | Colour system | Energy efficiency class | Dimensions   | Article number |
|-------------------|---------------|----------------------------|--------------------|---------------|-------------------------|--------------|----------------|
| W                 | lm            | Ra                         | K                  |               | EEL                     | Ø x h        |                |
| <b>SILK WHITE</b> |               |                            |                    |               |                         |              |                |
| 12                | 903 - 1019    | 97                         | 2700 - 5000        | multiwhite    |                         | Ø 85 x 52 mm | 211.11.20.001  |



# CEILING SPOT

Simple in design, clear in effect: ONE SPOT provides high-quality ambient lighting in any room - flexible in use, precisely staged.



## SWITCHES

### overview

#### SMART SENSOR • battery-powered • wireless (Bluetooth)

|                                   |          |
|-----------------------------------|----------|
| control by swiping in front       | page 111 |
| control by swiping on top         | page 111 |
| control by opening / closing door | page 111 |
| control by touching               | page 111 |
| control by touching (CCT)         | page 111 |
| control by motion detection       | page 111 |

#### WIRED SENSOR

|   |          |
|---|----------|
| control by swiping                      | page 113 |
| control by opening / closing door       | page 113 |
| control by touching                     | page 113 |
| control by motion detection (microwave) | page 113 |
| control by motion detection (PIR)       | page 113 |

#### WIRED STICK SENSOR

|                                   |          |
|-----------------------------------|----------|
| control by swiping                | page 115 |
| control by opening / closing door | page 115 |
| control by touching               | page 115 |
| control by motion detection       | page 115 |

#### MULTIPLE SWITCH UNIT

|                      |          |
|----------------------|----------|
| multiple switch unit | page 117 |
|----------------------|----------|

#### REMOTE CONTROLS: • battery-powered • wireless (Bluetooth)

|                 |          |
|-----------------|----------|
| remote controls | page 118 |
|-----------------|----------|

#### MEANING OF ICON



##### swipe to control

- soft on / off
- dimming



##### open / close (single) door to control

- soft on / off



##### open / close (dual) door to control

- soft on / off



##### touch to control

- soft on / off
- dimming



##### touch to control

- soft on / off
- dimming
- CCT (stepless tune of colour temperature)



##### motion detection to control (PIR)

- soft on / off



##### motion detection to control (microwave)

- soft on / off

#### CONNECTION OF WIRED SWITCHES



# SWITCHES

# SMART SENSOR

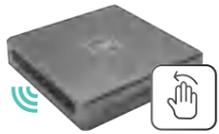
3V

wireless, battery-powered



## BS3000

### 1/control by swiping in front



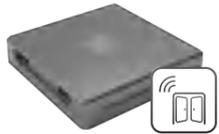
- infrared sensor
- touchless
- **example for application:** Kitchen cabinet, undermount installation, swipe in front (0-9 cm) to control soft on/off and dim brightness by distance of hand to switch.

### 2/control by swiping on top



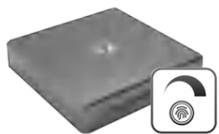
- infrared sensor
- touchless
- **example for application:** Kitchen, recessed in worktop, swipe on top (0-9 cm) to control soft on/off and dim brightness by distance of hand to switch.

### 3/control by opening / closing door



- infrared sensor
- touchless
- **switch controls two doors**
- **example for application:** Inside a cabinet, light turns on/off automatically by opening/closing the door.

### 4/control by touching



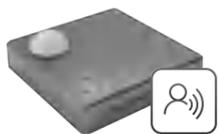
- **example for application:** Recessed or surface mounted on wall, touch to control soft on/off and dimming.

### 5/control by touching



- **example for application:** Recessed or surface mounted on wall, touch to control soft on/off, dimming and **stepless control of colour temperature.**

### 6/control by motion detection



- PIR sensor
- **detection range: 0-3 m**
- **detection angle: 120°**
- **run-on time: 30 sec**
- **example for application:** Contactless switching on and off of LED lights by detecting movement up to 3 m (on furniture, in drawers, sliding doors, cupboards).

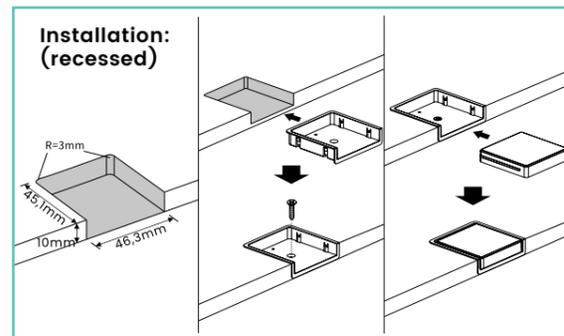
|                               |   |
|-------------------------------|---|
| <b>Material / colour</b>      | plastic / grey  |
| <b>Dimensions (L x W x H)</b> | 43 x 43 x 8,5 mm                                      |
| <b>Degree of protection</b>   | IP20  |
| <b>Network signal</b>         | Bluetooth   |
| <b>Signal range</b>           | 6 m   |
| <b>Power consumption</b>      | 0,015 W   |
| <b>Battery</b>                | 1x CR2450, 3V DC                                      |
| <b>Battery lifetime</b>       | 1-2 years   |
| <b>Installation</b>           | screw fixing, recessed or surface mounting            |
| <b>Drill hole (L x W x H)</b> | 46,3 x 45,1 x 10,0 mm                                 |
| <b>Scope of delivery</b>      | 1 switch incl. base for recessed mounting and fixings |

**i** Smart sensor switches can only be operated **in conjunction with smart drivers / control unit.** Please check on the right which control units are suitable for which switches.

**SIGNAL RANGE:** Direct range from switch to driver / control unit: 6 m. However, the signal is passed from device to device within the Bluetooth mesh and thereby increases the mesh signal range.

**ORDER INFO:** Base for surface mounting needs to be ordered separately, please see below.

 Base for surface mounting art. no. 122.00.02.007



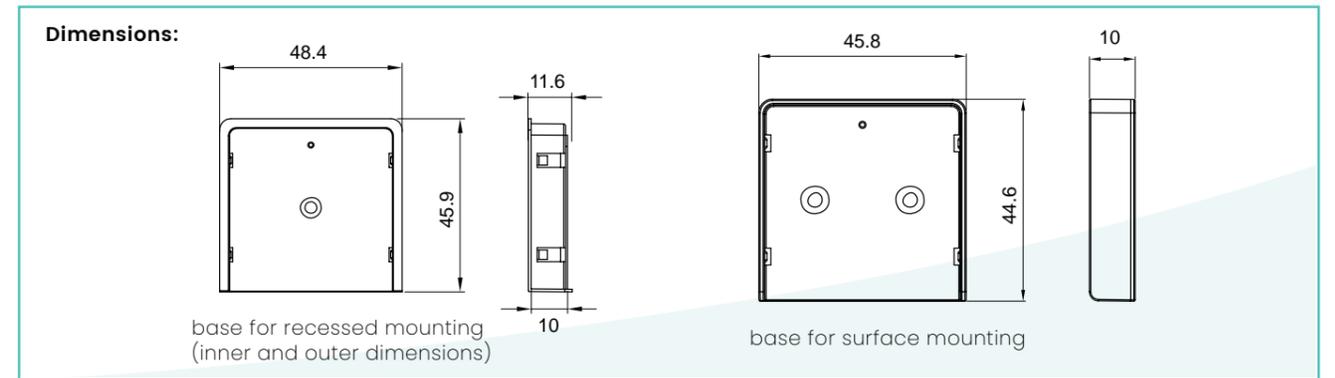
## BS3000

|   | Control method                    | Switching function  | Detection range mm | Memory function    | Article number |
|---|-----------------------------------|---|--------------------|--------------------|----------------|
| 1 | control by swiping in front       | on / off soft, dimming                                      | 0-90               | yes                | 122.00.02.001  |
| 2 | control by swiping on top         | on / off soft, dimming                                      | 0-90               | yes                | 122.00.02.003  |
| 3 | control by opening / closing door | on / off soft   | 0-70               | no                 | 122.00.02.002  |
| 4 | control by touching               | on / off soft, dimming                                      | 0                  | yes                | 122.00.02.004  |
| 5 | control by touching               | on / off soft, dimming, CCT (stepless colour temp. control) | 0                  | yes                | 122.00.02.005  |
| 6 | control by motion detection       | on / off soft   | 0-3000             | 30 sec run-on time | 122.00.02.006  |

**i** **MEMORY FUNCTION:** When the light is switched on, it has the same setting as when it was last switched of.

### ORDER INFO

|   | smart sensor switch                      | compatible control units (art. no.)                              | details (refer to page) |
|---|--|--|-------------------------|
| 1 | control by swiping in front              |  |                         |
| 2 | control by swiping on top                | 110.20.01.001  |                         |
| 3 | control by opening / closing door        | 110.10.01.001  | 131                     |
| 4 | control by touching                      | 110.11.01.001  |                         |
| 6 | control by motion detection              |  |                         |
| 5 | control by touching (incl. colour temp.) | 111.10.01.001<br>111.11.01.001<br>112.10.01.001<br>112.11.01.001 | 131                     |



# WIRED SENSOR SWITCHES

**24 V**  
wired

## WS3000

### 1/control by swiping



- infrared sensor
- touchless
- **example for application:** Kitchen cabinet, undermount installation, swipe in front (0-9 cm) to control soft on/off and dim brightness by distance of hand to switch.

### 2/control by opening / closing door



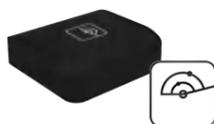
- infrared sensor
- touchless
- **switch controls two doors**
- **example for application:** Inside a cabinet, light turns on/off automatically by opening/closing the door.

### 3/control by touching



- **example for application:** Surface mounted on wall, touch to control soft on/off and dimming.

### 4/control by motion detection



- microwave sensor
- **detection range: 0-3 m**
- **run-on time: 30 sec**
- **example for application:** Install the switch concealed inside a cabinet. The light is switched on automatically when the sensor detects movement within its detection range.

### 5/control by motion detection



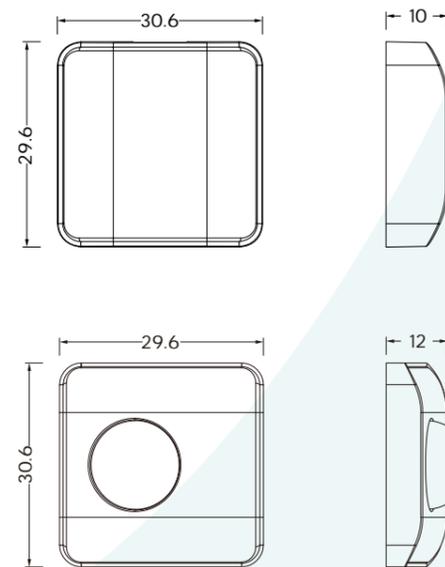
- PIR sensor
- **detection range: 0-3 m**
- **detection angle: 120°**
- **run-on time: 30 sec**
- **example for application:** Contactless switching on and off of LED lights by detecting movement up to 3 m (on furniture, in drawers, sliding doors, cupboards)

|                               |   |
|-------------------------------|---|
| <b>Material / colour</b>      | plastic / black                                       |
| <b>Dimensions (L x W x H)</b> | 30,6 x 29,6 x 10 mm                                   |
| <b>Cable length</b>           | 2 m   |
| <b>Degree of protection</b>   | IP20  |
| <b>Power consumption</b>      | 0,1 W   |
| <b>Installation</b>           | screw fixing, surface mounting                        |
| <b>Scope of delivery</b>      | 1 switch incl. connecting cable 2 m and mounting base |

**i** Wired sensor switches can **only be operated with integrated drivers.** Compatible to all integrated drivers (see page 135).

**PIR / MICROWAVE SENSOR:** Both PIR and microwave sensors are designed to detect the movement of warm objects (such as people) that move through the sensor's field of view. The difference is that microwave sensors can also detect movement through glass or other thin materials and can therefore be concealed.

**Dimensions:**



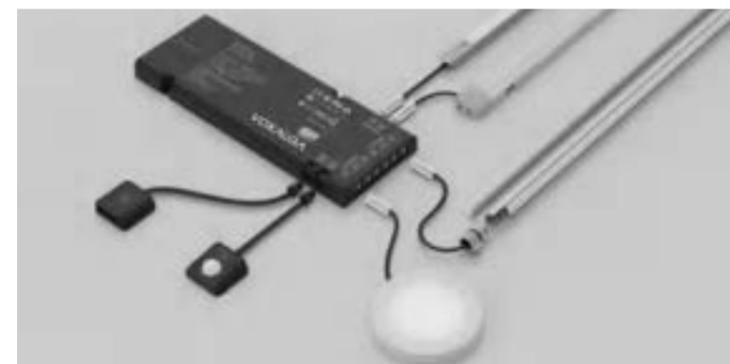
## WS3000

|   | Control method                    | Switching function     | Detection range<br>mm | Memory function    | Article number |
|---|-----------------------------------|------------------------|-----------------------|--------------------|----------------|
| 1 | control by swiping                | on / off soft, dimming | 0-90                  | yes                | 121.00.01.003  |
| 2 | control by opening / closing door | on / off soft          | 0-70                  | no                 | 121.00.01.002  |
| 3 | control by touching               | on / off soft, dimming | 0                     | yes                | 121.00.01.001  |
| 4 | control by motion detection       | on / off soft          | 0-3000                | 30 sec run-on time | 121.00.01.004  |
| 5 | control by motion detection       | on / off soft          | 0-3000                | 30 sec run-on time | 121.00.01.005  |

**i** **MEMORY FUNCTION:** When the light is switched on, it has the same setting as when it was last switched off.

**i** **MICROWAVE SENSOR:** can detect movement also through thin materials and so can be concealed.

**switch is located inside the cabinet**



**i** **CONNECTION OF WIRED SWITCHES:** Wired switches have to be connected to the switch connections of driver. The lights are connected to the connected output ports of driver. The lights are controlled via the driver using the switches.

# STICK SENSOR SWITCHES

**24V**  
wired

**WS3001**

## 1/control by swiping



- infrared sensor
- touchless
- **example for application:** Kitchen cabinet, undermount installation, swipe in front (0-9 cm) to control soft on/off and dim brightness by distance of hand to switch.

## 2/control by opening / closing door



- infrared sensor
- touchless
- **switch controls single door**
- **example for application:** Inside a cabinet, light turns on/off automatically by opening/closing the door.

## 3/control by touching



- **example for application:** Recessed or surface mounted, touch to control soft on/off and dimming.

## 4/control by motion detection



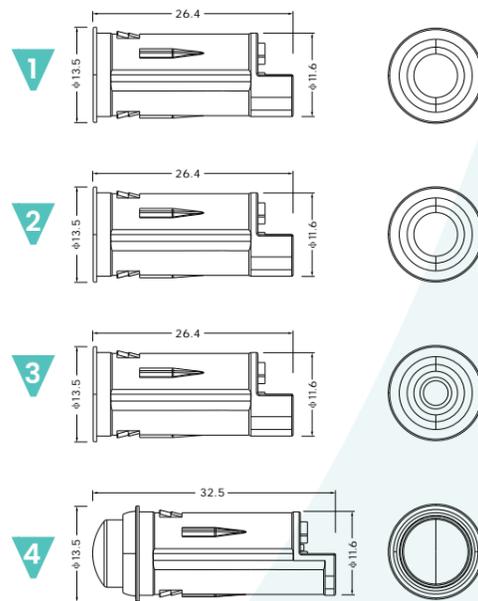
- PIR sensor
- **detection range: 0-3 m**
- **detection angle: 120°**
- **run-on time: 30 sec**
- **example for application:** Contactless switching on and off of LED lights by detecting movement up to 3 m (on furniture, in drawers, sliding doors, cupboards).

|                             |                                     |
|-----------------------------|-------------------------------------|
| <b>Material / colour</b>    | plastic / grey                      |
| <b>Cable length</b>         | 2 m                                 |
| <b>Degree of protection</b> | IP20                                |
| <b>Power consumption</b>    | 0,1 W                               |
| <b>Installation</b>         | recessed or surface mounting        |
| <b>Scope of delivery</b>    | 1 switch incl. connecting cable 2 m |

**i** Stick sensor switches can **only be operated with integrated drivers.** Compatible to all integrated drivers (see page 135).

**▶ ORDER INFO:** Base for surface mounting needs to be ordered separately, please refer to the right.

### Dimensions:



### Base for surface mounting



**WS3001**

|   | Control method                    | Switching function     | Detection range | Dimensions (Ø x depth) mm | Drill hole (Ø x depth) mm | Memory function    | Article number |
|---|-----------------------------------|------------------------|-----------------|---------------------------|---------------------------|--------------------|----------------|
| 1 | control by swiping                | on / off soft, dimming | 0-90            | 13,5 x 26,4               | 12 x 35                   | yes                | 121.00.02.002  |
| 2 | control by opening / closing door | on / off soft          | 0-70            | 13,5 x 26,4               | 12 x 35                   | no                 | 121.00.02.003  |
| 3 | control by touching               | on / off soft, dimming | 0               | 13,5 x 26,4               | 12 x 35                   | yes                | 121.00.02.001  |
| 4 | control by motion detection       | on / off soft          | 0-3000          | 13,5 x 32,5               | 12 x 35                   | 30 sec run-on time | 121.00.02.004  |

**i MEMORY FUNCTION:** When the light is switched on, it has the same setting as when it was last switched off.

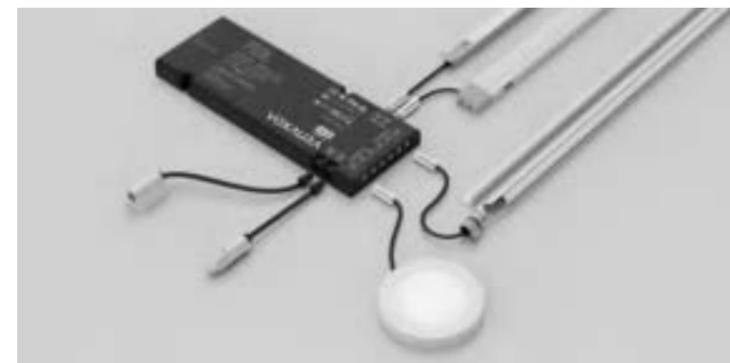
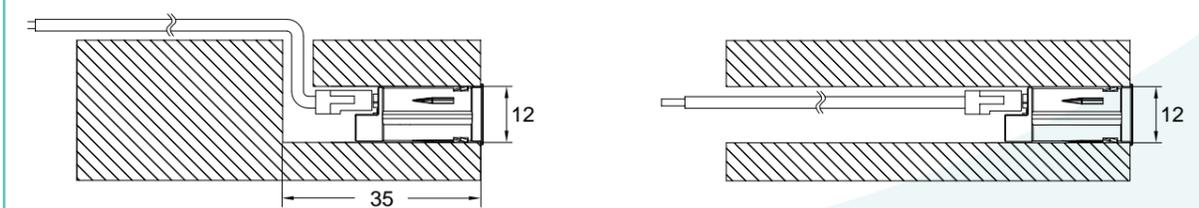
**▶ ORDER INFO:**



Base for surface mounting

129.00.02.001

### Installation diagram:

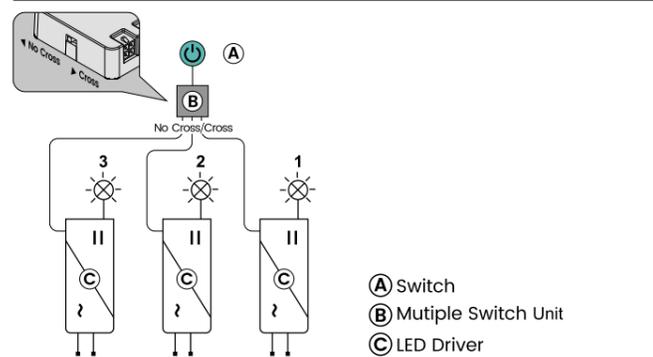
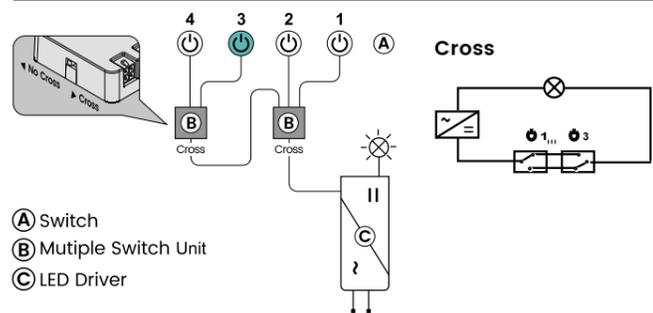
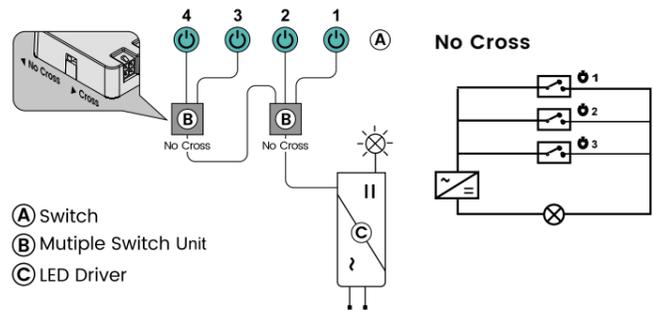


**CONNECTION OF WIRED SWITCHES:** Wired switches have to be connected to the switch connections of driver. The lights are connected to the connected output ports of driver. The lights are controlled via the driver using the switches.

## MULTIPLE SWITCH UNIT

⚡ 24V  
wired

WS3002



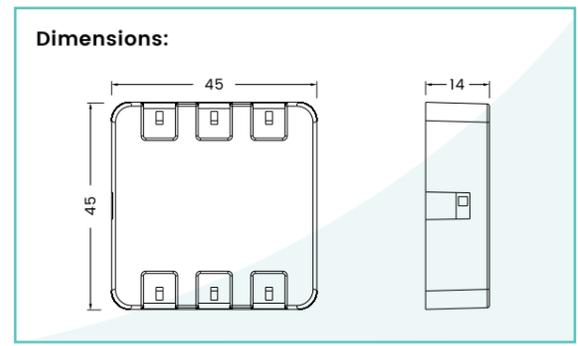
|                      |  |
|----------------------|--|
| Material / colour    | plastic / black  |
| Features             | 3 sockets for integrated drivers,<br>3 sockets for wired sensor switches |
| Degree of protection | IP20   |
| Power consumption    | 0,1 W  |
| Cable length         | 1 m  |
| Installation         | surface mounting,<br>self-adhesive                                       |
| Scope of delivery    | 1 multiple switch unit<br>incl. tape and<br>3 connecting cables          |

**i** Multiple switch unit can **only be operated in conjunction with integrated drivers** (see page 135) and wired sensor switches (see page 113 and 115).

The multiple switch unit is used **to connect up to three integrated drivers and max. three wired sensor switches** to enable mixed control of multiple LED lights. Connected integrated drivers are controlled at the same time by wired sensor switches that can be installed at different places.

**Two operating modes** using the integrated switch:

- **Cross:** Switching on / off at alternating switches
- **No cross:** Switching on by switch 1, 2 or 3. Switching off by pressing all switched-on switches again.



| Control method       | Switching function | Dimensions (L x W x H) | Article number |
|----------------------|--------------------|------------------------|----------------|
| Multiple switch unit | depend on switches | 45 x 45 x 14 mm        | 125.00.01.001  |

## REMOTE CONTROL

⚡ 3V  
wireless, battery-powered



BS3001



**4 channels to control different lights:**

- soft on/off
- dimming brightness
- stepless tune of colour temperature (CCT)
- adjust RGB colours

|                        |                  |
|------------------------|------------------|
| Material / colour      | plastic / black  |
| Dimensions (L x W x H) | 130 x 40 x 13mm  |
| Degree of protection   | IP20             |
| Network signal         | Bluetooth        |
| Signal range           | 6 m              |
| Power consumption      | 0.015 W          |
| Battery                | 1x CR2450, 3V DC |
| Battery lifetime       | 2 years          |
| Scope of delivery      | 1 remote control |

**i** Remote control can only be operated **in conjunction with smart drivers / control unit.** Compatible with all control units (see page 131).

**SIGNAL RANGE:**  
Direct range from remote control to driver / control unit: 6 m. However, the signal is passed from device to device within the Bluetooth mesh and thereby increases the mesh signal range.

| Control method | Switching function   | Controlled colour systems           | Article number |
|----------------|--|-------------------------------------|----------------|
| remote control | soft on/off<br>dimming brightness<br>stepless tune of colour temperature (CCT)<br>adjust RGB colours | multiwhite<br>RGB<br>RGB-multiwhite | 123.00.01.001  |

# REMOTE CONTROL



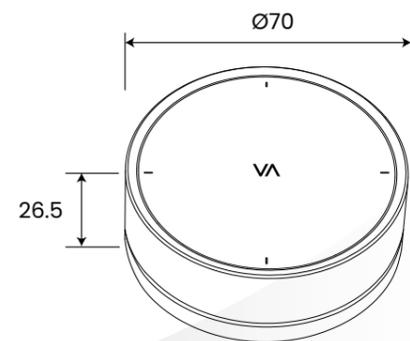
wireless, battery-powered



BS3002



**Dimensions:**



|                             |                      |
|-----------------------------|----------------------|
| <b>Material</b>             | aluminum             |
| <b>Dimensions (Ø x h)</b>   | Ø70 x 26.5 mm        |
| <b>Degree of protection</b> | IP20                 |
| <b>Network signal</b>       | Bluetooth            |
| <b>Signal range</b>         | 6000 mm              |
| <b>Battery</b>              | 2x AAA 1.5V (size 7) |
| <b>Lifetime battery</b>     | 1-2 years            |
| <b>Scope of delivery</b>    | 1 remote control     |

BS3002

| Surface finish        | Switching function   | Controlled colour systems                         | Article number |
|-----------------------|--|---|----------------|
| <b>GRAPHITE BLACK</b> |  |   |                |
|                       | soft on / off<br>dimming<br>CCT & RGB colours<br>lighting scenes | monochrome<br>multiwhite<br>RGB<br>RGB-multiwhite | 123.00.01.002  |
| <b>SILK WHITE</b>     |  |   |                |
|                       | soft on / off<br>dimming<br>CCT & RGB colours<br>lighting scenes | monochrome<br>multiwhite<br>RGB<br>RGB-multiwhite | 123.00.00.001  |

**CUSTOM SURFACE FINISHES**

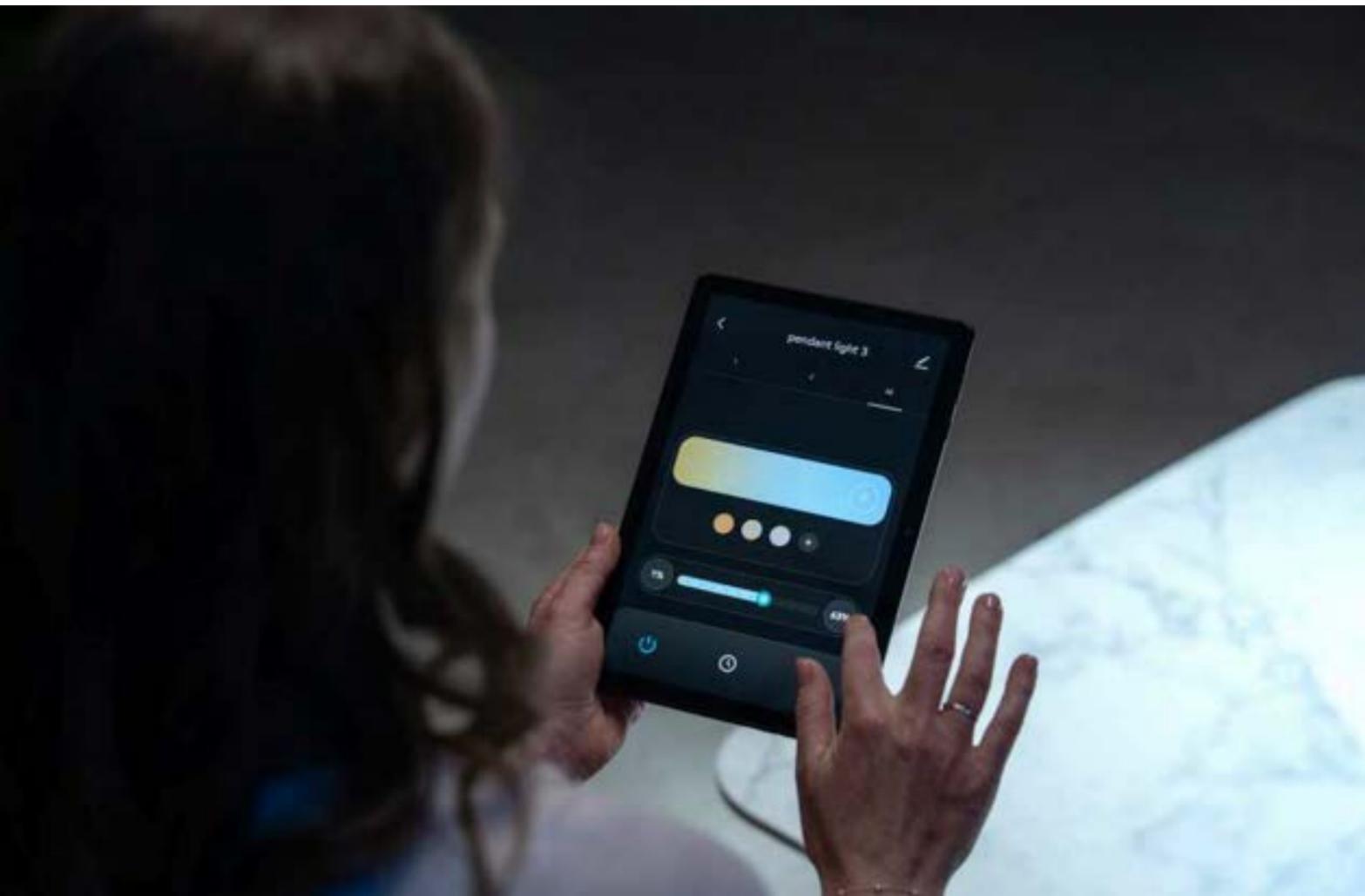
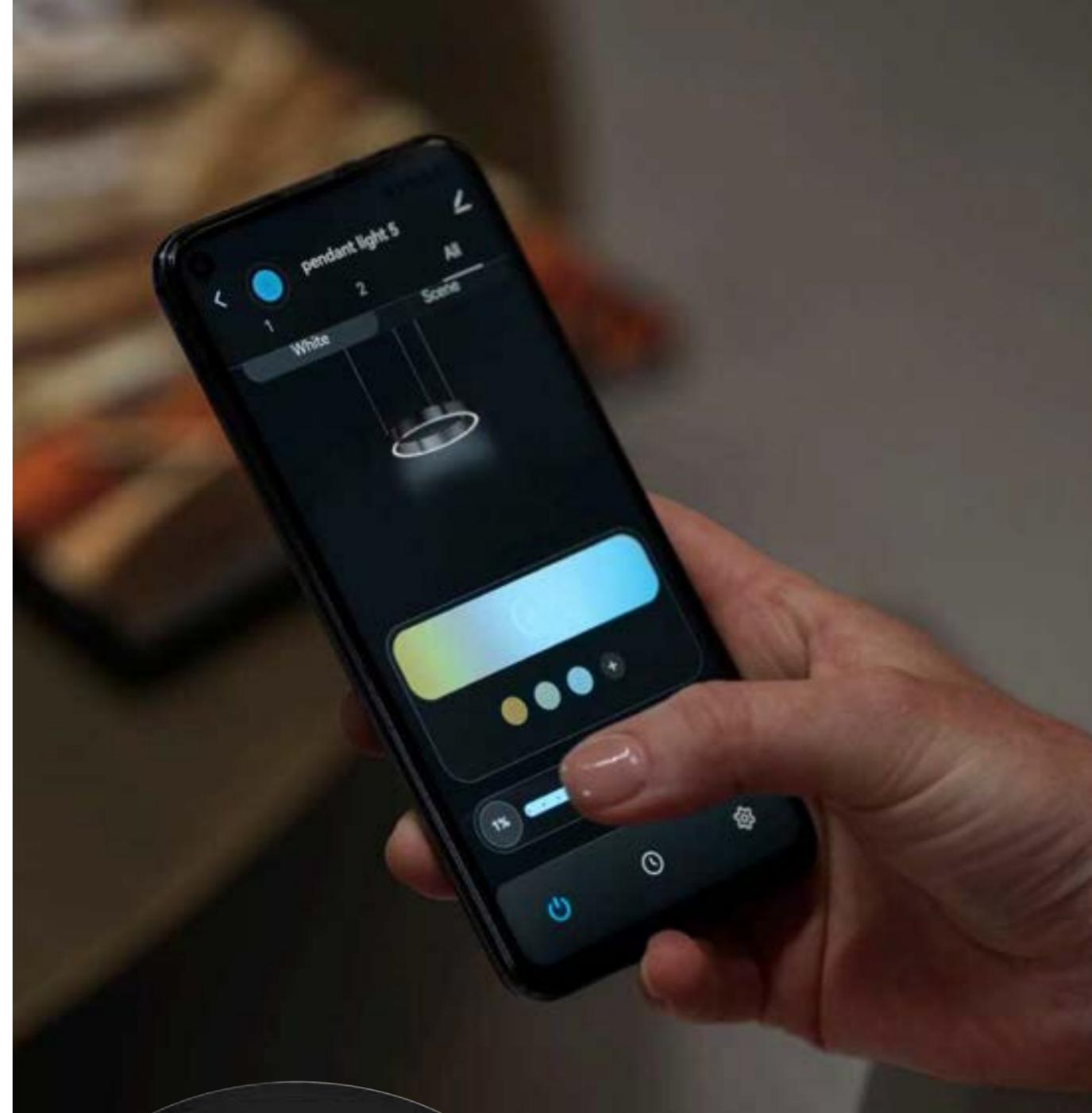
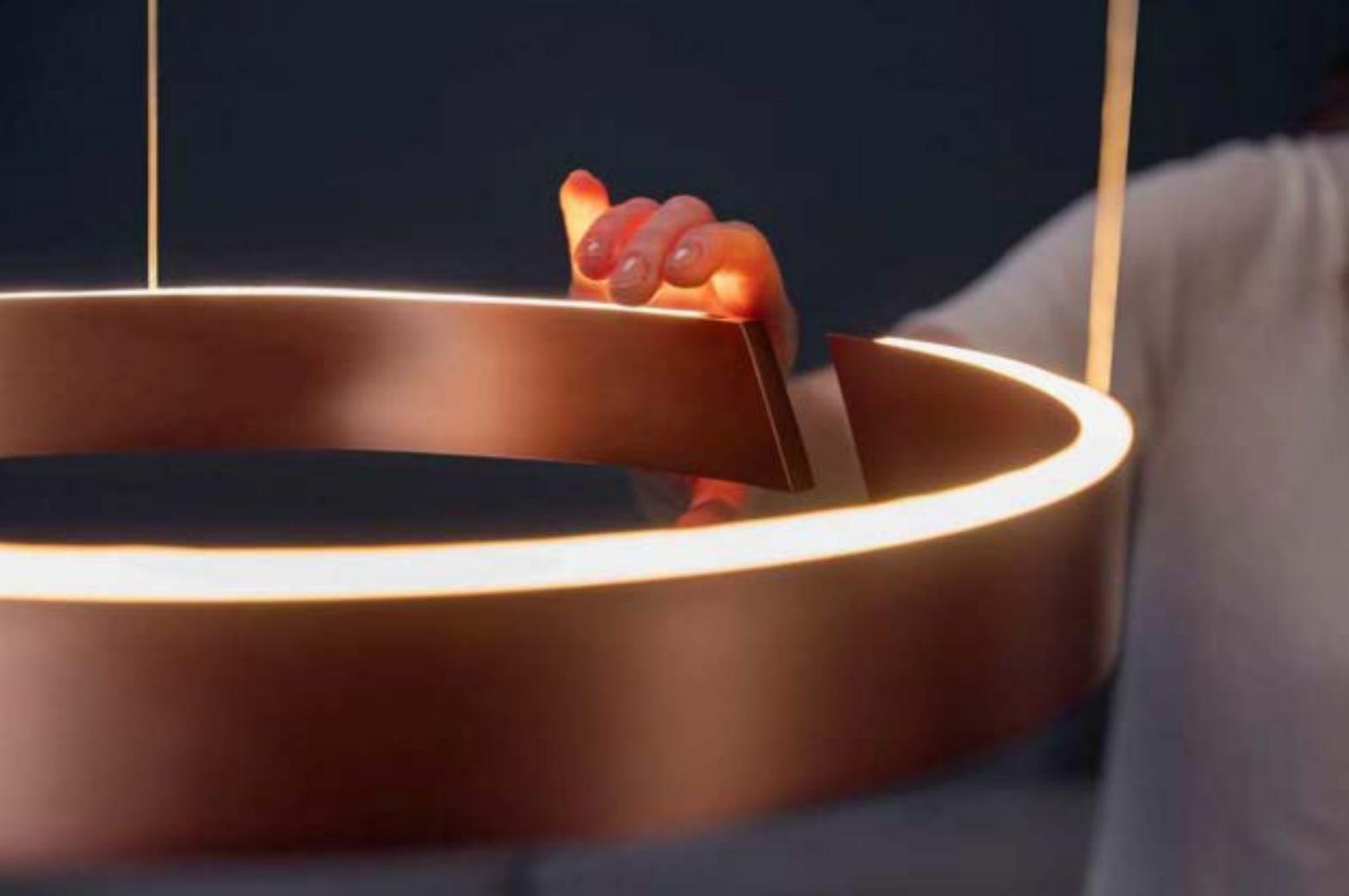
Further surface variants are under development and available for individual projects. If you are interested, please contact us.

Remote control can only be operated **in conjunction with smart drivers / control unit.** Compatible with all control units (see page 131).

**SIGNAL RANGE:**  
Direct range from remote control to driver /control unit: 6 m. However, the signal is passed from device to device within the Bluetooth mesh and thereby increases the mesh signal range.

Please check next page for more information how to control lights via the remote control BS3002.





More information how to control lights via the remote control BS3002 you will find in our online catalogue at

[www.voxaura.ai](http://www.voxaura.ai)

## POWER SUPPLY

 24 V  
overview

### SMART-DRIVERS

| SD4000 | 220-240 V AC | 20 W  | 15 mm | page 125 |
|--------|--------------|-------|-------|----------|
|        | 220-240 V AC | 40 W  | 15 mm | page 125 |
|        | 220-240 V AC | 60 W  | 15 mm | page 125 |
|        | 220-240 V AC | 100 W | 15 mm | page 125 |
|        | 220-240 V AC | 150 W | 15 mm | page 125 |

### CONTROL UNITS

| CU4000 | LED monochrome | synchronous  | 15 mm | page 131 |
|--------|----------------|--------------|-------|----------|
|        |                | asynchronous | 15 mm | page 131 |
|        | LED multiwhite | synchronous  | 15 mm | page 131 |
|        |                | asynchronous | 15 mm | page 131 |
|        | LED RGB        | synchronous  | 15 mm | page 131 |
|        | LED RGB-MW     | synchronous  | 15 mm | page 131 |

### DRIVERS

| ID4001 | 220-240 V AC | 20 W  | 15 mm | page 135 |
|--------|--------------|-------|-------|----------|
|        | 220-240 V AC | 40 W  | 15 mm | page 135 |
|        | 220-240 V AC | 60 W  | 15 mm | page 135 |
|        | 220-240 V AC | 100 W | 15 mm | page 135 |
|        | 220-240 V AC | 150 W | 15 mm | page 135 |

# POWER SUPPLY

# SMART-DRIVERS

24V  
15 mm

HFD 160KHz HFD 200KHz

EXTRA FLAT 15MM  
HFD TECHNOLOGY

## SD4000, 220-240V AC, 50-60Hz



|                      |                               |
|----------------------|-------------------------------|
| Material / Colour    | plastic / black               |
| Driver configuration | smart (+control unit)         |
| Degree of protection | IP20                          |
| Output voltage       | 24V DC                        |
| Output ports         | 1 port, 24 V for control unit |
| Lifetime             | 30.000 h                      |
| Installation         | screw fixing                  |
| Scope of delivery    | 1 smart-driver incl. fixings  |

**i** Smart-drivers can **only be operated in conjunction with a control unit** which defines the application (incl. colour system) and switching functions.

Smart-drivers can only be operated with **wireless switches** (see page 111) or **remote control** (see page 118 / 119).

The **voltage drops if the cable length is too long** and the LEDs no longer shine brightly. Therefore, please **observe the maximum cable length** from the driver to the light of 6 m.

**Ambient temperature - 20°C to + 45°C.** Ensure sufficient air supply and circulation at the installation location.

**Smart-driver system: connect smart-driver & control unit**

**All-in-System:** One universal smart-driver and one control unit that defines application functions

- no further add-on modules needed

**Multi-zone** smart-driver system

**2-in-1: BLE & matter-ready**

**Full power** on every port

## SD4000

|              | Output power | Standby power consumption | Power factor | Total efficiency | Connected output ports      | Dimensions (L x W x H) | Article number |
|--------------|--------------|---------------------------|--------------|------------------|-----------------------------|------------------------|----------------|
|              | W            | W                         |              | %                |                             | mm                     |                |
| 1 HFD 160KHz | 20           | 0,20                      | ≥ 0,87       | 88,5             | 1x socket <b>2-pin</b> 24 V | 112 x 75 x 15          | 101.10.01.001  |
| 2 HFD 160KHz | 40           | 0,20                      | ≥ 0,93       | 90,0             | 1x socket <b>2-pin</b> 24 V | 112 x 75 x 15          | 101.10.01.002  |
| 3 HFD 200KHz | 60           | 0,25                      | ≥ 0,93       | 93,0             | 1x socket <b>2-pin</b> 24 V | 112 x 75 x 15          | 101.10.01.003  |
| 4 HFD 200KHz | 100          | 0,25                      | ≥ 0,95       | 93,5             | 1x socket <b>2-pin</b> 24 V | 167 x 75 x 15          | 101.10.01.004  |
| 5 HFD 200KHz | 150          | 0,25                      | ≥ 0,95       | 93,5             | 1x socket <b>2-pin</b> 24 V | 195 x 75 x 15          | 101.10.01.005  |

**Primary lead, customized to country, C7-plug (small device plug), 2 m cable length**

| Type of plug      |                      |  |                    |                           |
|-------------------|----------------------|--|--------------------|---------------------------|
| Description       | C7 plug to Euro plug | C7 plug to open cable ends for direct connection | C7 plug to UK plug | C7 plug to Australia plug |
| Scope of delivery | 1 piece              | 1 piece  | 1 piece            | 1 piece                   |
| Article number    | 140.00.01.001        | 140.10.01.001                                    | 141.00.01.001      | 143.03.01.001             |

**ORDER INFO**  
Order primary lead (see above) and control unit (see below) separately.

|  |  |   |              |
|--|--|---|--------------|
|  |  | control unit (synchronous / asynchronous) | see page 131 |
|  |  | control unit (synchronous / asynchronous) | see page 131 |
|  |  | control unit (synchronous)                | see page 131 |
|  |  | control unit (synchronous)                | see page 131 |

**HFD 200KHz High frequency driver:** Enables smallest design. Significantly reduces operating temperature. Low operating temperature leads to increased lifetime.

**Smart-driver system:** Wireless control via Bluetooth & optional via matter Smart Home. No extra modules needed.

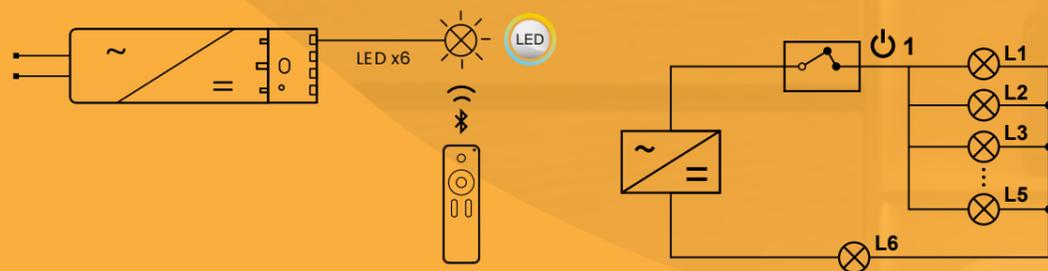
**One modular system**  
One smart-driver + 8 control units. Easy stockkeeping, maximum flexibility.

**Signal range:**  
Switches to control unit: 6 m.  
Control unit in Thread mesh: 10-30 m.



## SYNCHRONOUS LIGHT

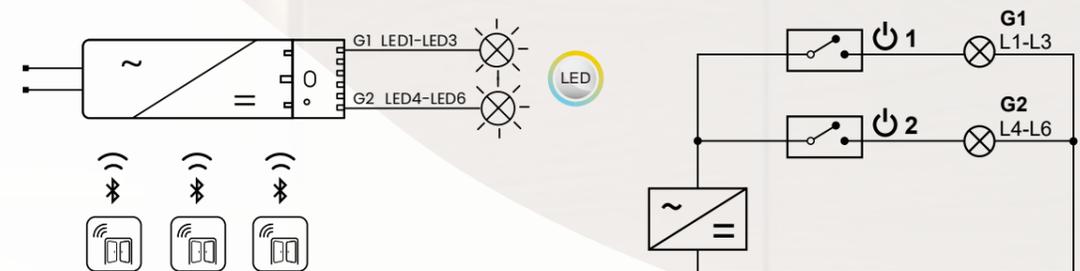
With synchronous control, **all lights are controlled together with one switch.**



In the example, the lights on the glass shelves and the wooden shelves are controlled with one remote control. They cannot be controlled separately.

## ASYNCHRONOUS LIGHT

With asynchronous control, **each light can be controlled separately** (with different switches or one remote control).



In the example the lights inside the cabinets turn on when the respective door sensors are triggered while other lights remain switched off.

# CONNECTED LIGHTING

## DISCOVER OUR SMART HOME LIGHTING SOLUTIONS

Elevate your living space with our state-of-the-art Smart Home lighting control system, designed to seamlessly integrate furniture and room lighting.

## Why choose VoxAura smart solutions?

We offer a complete solution for smart lighting. One system, one app to control all lights. Effortlessly tune your lighting to match your mood and needs. Plug and Play set up features easy installation and handling right out of the box.

### UNMATCHED COMPATIBILITY:

- 100% matter-compliant system
- Compatible with Google Home, SmartLife and all matter-supported apps
- Seamless integration for ambiance and furniture lighting
- Easy installation, everything matches together smoothly

### SMART LIGHTING, SIMPLIFIED:

- Customers expect advanced technology, sleek design, superior colour rendering (CRI 90 - 97+) and high energy efficiency
- Our products impress on all levels
- Ensures room and furniture lighting meet the highest standards

### EFFORTLESS CUSTOMIZATION:

- Easy to set up
- Customize lighting exactly to your needs
- Comprehensive all-in-one solution for connected lighting
- Personalize your home environment
- Experience comfort and control

### ADVANCED CONNECTIVITY:

- Uses Thread 1.4 and Bluetooth technologies
- Signal range smart battery switches: 6 m, expandable by mesh network. Signal range Thread 1.4 for all light control: 10-30 m.
- Strong, reliable connectivity throughout your home
- Energy-efficient operation

### SECURITY YOU CAN TRUST:

- Privacy is our priority
- Servers located in Frankfurt, Germany
- Fully compliant with DSGVO and BDSG regulations
- Secure remote access via your home's internet and Wi-Fi network
- Possibility to control your Smart Home devices locally without needing to send any data to the cloud.

### LICENSED MATTER MEMBER:

- matter uses advanced end-to-end encryption to ensure that all data transmitted between your devices and controllers are protected from unauthorized access.
- All matter-compatible devices receive regular security updates to ensure your Smart Home infrastructure is protected from new threats.



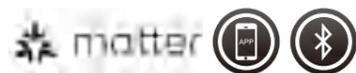
Make every return  
„feels like coming home.“



matter-certified and therefore compatible with all matter-enabled devices, including brands such as **Google Home**, **Apple HomeKit** and **Amazon Alexa** that support matter. For more information please check page 144.

# CONTROL UNITS

**24V**  
wireless

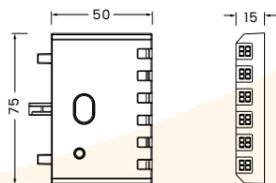


- MATTER READY
- BLUETOOTH READY

## CU4000



### Dimensions:



|                                  |   |
|----------------------------------|---|
| <b>Material / Colour</b>         | plastic / black   |
| <b>Voltage</b>                   | 24 V DC   |
| <b>Rated power</b>               | max. 150W   |
| <b>Standby-power-consumption</b> | 0,25 W  |
| <b>Dimensions</b>                | 75 x 50 x 15 mm   |
| <b>Network signal</b>            | BLE & matter / Thread 1.4   |
| <b>Signal range</b>              | 6 / 10-30 m   |
| <b>Intended application</b>      | On / Off<br>Dimming (0-100%)<br>Colour temperature selection (not for monochrome)<br>Colour selection (only RGB and RGB-MW) |
| <b>Installation</b>              | Plugged directly to driver  |
| <b>Scope of delivery</b>         | 1 control unit  |

110.10.01.001 & 110.11.01.001



**i** These items feature 5 ports that can be controlled synchronous / asynchronous and **1 port uncontrolled**. The uncontrolled port **supplies continuous current**, even when the control unit is switched off. **Important for the linear lights with integrated switching function** (PL4001, PL4005, PL4006).

**i** Control unit **defines the application** (incl. colour system) **and functions of smart-drivers**.  
The **specified power rating** is the **maximum capacity**.  
The **actual power rating** depends on the connected driver.

**i** **SIGNAL RANGE:**  
Switches to control unit: 6 m.  
Control unit in Thread mesh: 10-30 m.

## CU4000

| Colour system  | Control type | Connected output ports | Uncontrolled output ports | Number of lighting groups | Article number |
|----------------|--------------|------------------------|---------------------------|---------------------------|----------------|
| LED monochrome | synchronous  | 5x sockets 2-pin 24V   | 1x socket 2-pin 24V       | 1 + 1                     | 110.10.01.001  |
|                | asynchronous |                        |                           | 5 + 1                     | 110.11.01.001  |
| LED multiwhite | synchronous  | 6x sockets 2-pin 24V   | -                         | 1                         | 111.10.01.001  |
|                | asynchronous |                        |                           | 3                         | 111.11.01.001  |
| LED multiwhite | synchronous  | 6x sockets 3-pin 24V   | -                         | 1                         | 112.10.01.001  |
|                | asynchronous |                        |                           | 3                         | 112.11.01.001  |
| LED RGB        | synchronous  | 6x sockets 4-pin 24V   | -                         | 1                         | 113.10.01.001  |
| LED RGB-MW     | synchronous  | 4x sockets 6-pin 24V   | -                         | 1                         | 114.10.01.001  |

**i** **THE CORE OF SMART LIGHTING**  
The control units form the basis for integrating your lighting into smart systems. To help you make the right choice, we explain the most important basics on the following pages and provide an overview of the various models and their applications.

**i** **matter**  
matter-certified and therefore compatible with all matter-enabled devices, including brands such as Google Home, Apple HomeKit and Amazon Alexa that support matter. For more information please check page 144.

**ORDER INFO:** Please order smart-driver separately (see page 125).



Each colour setting requires a specific model of control unit (see above) and a specific smart sensor switch (p. 111) or remote control (p. 118 / 119).

**Control unit:**  
Enables individual, wireless light control for up to 6 output ports.

**Modular system:**  
One universal smart-driver and 8 control units that define application functions. Easy stockkeeping and maximum flexibility.

**Wireless light control:**  
Control units support synchronous or asynchronous control of monochrome, multiwhite, RGB or RGB-MW light.

**Bluetooth control:**  
No wiring needed.

# CONTROL UNITS

## THE BASICS

### Important terms

To help you choose the right control unit for your lighting system, it is useful to know the most important terms relating to control units. These are explained here.

### Lighting scene

A lighting scene determines which lights are switched on or off and how (brightness / colour temperature) they shine. Lighting scenes can be used to set different moods or functional areas. Once set, they can be easily recalled thanks to the memory function.

### Lighting groups

A lighting group combines luminaires that can be controlled independently of each other. Each group is controlled via the corresponding outputs of the control unit.

### Connected output ports

Outputs on the control unit for connecting LED lights that can be controlled via a switch / app (on/off, dimming, colour temperature).

### Uncontrolled output ports

Supply continuous current even when the control unit is switched off. Important for connecting luminaires with integrated switches (e.g. PL4001, PL4005, PL4006) so that the light can be switched on automatically when movement is detected. The uncontrolled outputs cannot be controlled via switches or app. Only the control units for monochrome lights have an uncontrolled output port, as lights with integrated switches are exclusively monochrome.

### Synchronous control

All connected output ports of the control unit are controlled simultaneously by a switch. This means that all connected lights are switched on or off simultaneously (synchronously) with one switch.

### Asynchronous control

Depending on the control unit model, there are different numbers of outputs (groups) that can be controlled separately. Lights connected to these outputs / groups can be switched on or off independently of each other. Lights connected to a group of outputs can only be switched on or off together.

## COMPARISON OF CONTROL UNITS

### – OVERVIEW OF ALL OPTIONS

| Colour system        | Control type | Number of lighting groups | Number of outputs / lighting group          | Total number of outputs | Number of lighting scenes | Special feature            | Ideal for applications with                                | Ideal for applications in |
|----------------------|--------------|---------------------------|---|-------------------------|---------------------------|----------------------------|--|---------------------------|
| LED monochrome       | synchronous  | 1+1                       | LG1: 5<br>LG2: 1                            | 6                       | 1+1                       | 1 output port uncontrolled | 1 shared lighting scene<br>+ 1 separate sensor light       |                           |
|                      | asynchronous | 6+1                       | LG1-LG5: each 1<br>LG6: LG1 – LG5<br>LG7: 1 | 6                       | 6+1                       | 1 output port uncontrolled | 6 independent lighting scenes<br>+ 1 separate sensor light | kitchen                   |
| LED multiwhite 2-pin | synchronous  | 1                         | LG1: 6                                      | 6                       | 1                         | -                          | 1 shared lighting scene                                    | furniture                 |
|                      | asynchronous | 3                         | LG1: 3<br>LG2: 3<br>LG3: LG1 + LG2          | 6                       | 3                         | -                          | 3 independent lighting scenes                              | furniture                 |
| LED multiwhite 3-pin | synchronous  | 1                         | LG1: 6                                      | 6                       | 1                         | -                          | 1 shared lighting scene                                    | ceiling                   |
|                      | asynchronous | 3                         | LG1: 3<br>LG2: 3<br>LG3: LG1 + LG2          | 6                       | 3                         | -                          | 3 independent lighting scenes                              | ceiling                   |
| LED RGB              | synchronous  | 1                         | LG1: 6                                      | 6                       | 1                         | -                          | 1 shared lighting scene                                    | ceiling                   |
| LED RGB-multiwhite   | synchronous  | 1                         | LG1: 4                                      | 4                       | 1                         | -                          | 1 shared lighting scene                                    | ceiling                   |

## FINDING THE RIGHT CONTROL UNIT

### – ALL OPTIONS AT A GLANCE

#### LED monochrome

##### synchronous



- 5x connected output ports (1-5) synchronous
- 1x uncontrolled output port (6)

- Lighting group 1: 1-5
- Lighting group 2: 6

Art.: 110.10.01.001

##### asynchronous



- 5x connected output ports (1-5) asynchronous
- 1x uncontrolled output port (6)

- Lighting group 1: 1
- Lighting group 2: 2
- Lighting group 3: 3
- Lighting group 4: 4
- Lighting group 5: 5
- Lighting group 6: 6
- Lighting group 7: 1-5

Art.: 110.11.01.001

#### LED multiwhite 2-pin = furniture lighting multiwhite 3-pin = ceiling lighting

##### synchronous

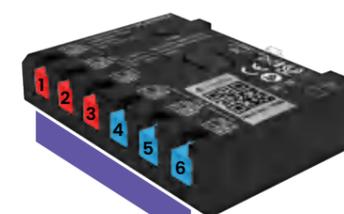


- 6x connected output ports (1-6) synchronous
- 0x uncontrolled output port

- Lighting group 1: 1-6

Art.: 111.10.01.001 (2-pin)  
112.10.01.001 (3-pin)

##### asynchronous



- 3x connected output ports (1-3) asynchronous
- 3x connected output ports (4-6) asynchronous
- 0x uncontrolled output port

- Lighting group 1: 1-3
- Lighting group 2: 4-6
- Lighting group 3: 1-6

Art.: 111.11.01.001 (2-pin)  
112.11.01.001 (3-pin)

#### LED RGB synchronous



- 6x connected output ports (1-6) synchronous
- 0x uncontrolled output port

- Lighting group 1: 1-6

Art.: 113.10.01.001

#### LED RGB - multiwhite synchronous



- 4x connected output ports (1-4) synchronous
- 0x uncontrolled output port

- Lighting group 1: 1-4

Art.: 114.10.01.001

# DRIVERS

⚡ 24V  
 ↑↓ 15 mm



- EXTRA FLAT 15MM
- HFD TECHNOLOGY

## ID4001, 220-240V AC, 50-60Hz



|                             |                        |
|-----------------------------|------------------------|
| <b>Material / Colour</b>    | plastic / black        |
| <b>Driver configuration</b> | integrated             |
| <b>Degree of protection</b> | IP20                   |
| <b>Output voltage</b>       | 24V DC                 |
| <b>Lifetime</b>             | 30.000 h               |
| <b>Installation</b>         | screw fixing           |
| <b>Scope of delivery</b>    | 1 driver incl. fixings |

**i** Ambient temperature - 20°C to + 45°C. Ensure sufficient air supply and circulation at the installation location.

Integrated drivers **only can control monochrome light**.

The **voltage drops if the cable length is too long** and the LEDs no longer shine brightly. Therefore, please **note maximum cable length** from driver to light of 6 m.

**i** Drivers 100.10.01.004, 100.10.01.005, 100.10.01.006, 100.10.01.007 and 100.10.01.008 feature 4 / 6 controlled ports and **2 ports uncontrolled**. The uncontrolled ports **supply continuous current**, even when the driver is switched off. **Important for the linear lights with integrated switching function (PL4001, PL4005, PL4006).**

**ORDER INFO:**  
 Order primary lead separately. For details please refer to the right.

**i** **CONTROL TYPE**  
**20W:** Only synchronous control of the 4 connected outputs possible.

**40W, 60W, 100W & 150W:**

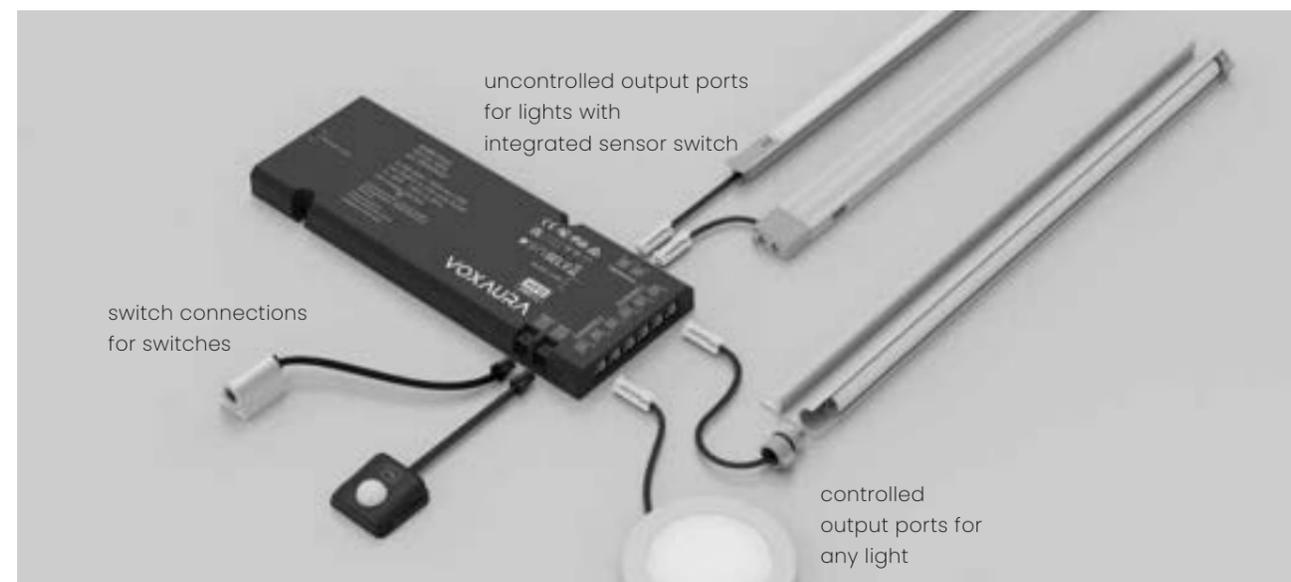
- Synchronous control of the 6 connected outputs when one switch is connected.
- When connecting 2 switches, asynchronous control of two lighting groups:  
 Lighting group 1: connected outputs 1-3 are controlled synchronously with switch 1.  
 Lighting group 2: connected outputs 4-6 are controlled synchronously with switch 2.

## ID4001

|                        | Output power | Standby power consumption | Power factor | Total efficiency | Output ports connected + uncontrolled | Switch connections     | Dimensions (L x W x H) | Article number |
|------------------------|--------------|---------------------------|--------------|------------------|---------------------------------------|------------------------|------------------------|----------------|
|                        | W            | W                         |              | %                |                                       |                        | mm                     |                |
| <b>1</b><br>HFD 160KHz | 20           | 0,20                      | ≥ 0,87       | 88,0             | 4+2 socket <b>2-pin</b> , 24 V        | 1x socket <b>4-pin</b> | 147 x 75 x 15          | 100.10.01.004  |
| <b>2</b><br>HFD 160KHz | 40           | 0,20                      | ≥ 0,93       | 89,0             | 6+2 socket <b>2-pin</b> , 24 V        | 2x socket <b>4-pin</b> | 147 x 75 x 15          | 100.10.01.005  |
| <b>3</b><br>HFD 200KHz | 60           | 0,25                      | ≥ 0,93       | 92,0             | 6+2 socket <b>2-pin</b> , 24 V        | 2x socket <b>4-pin</b> | 147 x 75 x 15          | 100.10.01.006  |
| <b>4</b><br>HFD 200KHz | 100          | 0,25                      | ≥ 0,95       | 93,0             | 6+2 socket <b>2-pin</b> , 24 V        | 2x socket <b>4-pin</b> | 202 x 75 x 15          | 100.10.01.007  |
| <b>5</b><br>HFD 200KHz | 150          | 0,25                      | ≥ 0,95       | 93,0             | 6+2 socket <b>2-pin</b> , 24 V        | 2x socket <b>4-pin</b> | 230 x 75 x 15          | 100.10.01.008  |

### Primary lead, customized to country, C7-plug (small device plug), 2 m cable length

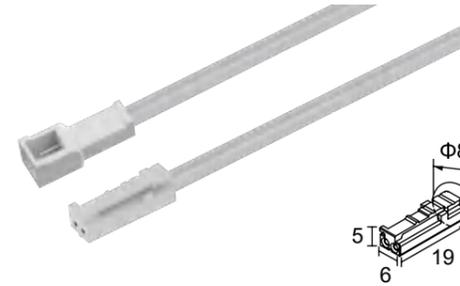
| Type of plug      |                      |  |                    |                           |
|-------------------|----------------------|--|--------------------|---------------------------|
| Description       | C7 plug to Euro plug | C7 plug to open cable ends for direct connection | C7 plug to UK plug | C7 plug to Australia plug |
| Scope of delivery | 1 piece              | 1 piece  | 1 piece            | 1 piece                   |
| Article number    | 140.00.01.001        | 140.10.01.001                                    | 141.00.01.001      | 143.03.01.001             |



## EXTENSION CABLES ⚡ 24V

### EC3000 EXTENSION CABLE 2-PIN

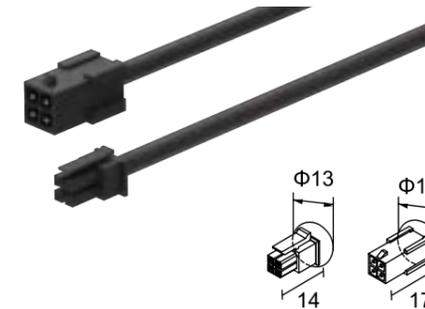
LED



|                   |   |
|-------------------|---|
| Material / Colour | plastic / black                                       |
| Suitable for      | monochrome lights                                     |
| Length            | 2 m   |
| Drill hole        | Ø 8 mm (plug)   |
| Scope of delivery | 1 extension cable incl. 2-pin connector male & female |
| Article number    | 150.99.01.001   |

### EC3000 EXTENSION CABLE 4-PIN

LED LED

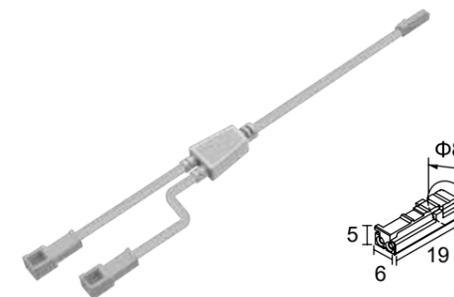


|                   |   |
|-------------------|---|
| Material / Colour | plastic / black                                       |
| Suitable for      | multiwhite & RGB lights and wired switches            |
| Length            | 2 m   |
| Drill hole        | Ø 13 mm (plug)  |
| Scope of delivery | 1 extension cable incl. 4-pin connector male & female |
| Article number    | 150.99.01.002   |

## DISTRIBUTORS ⚡ 24V

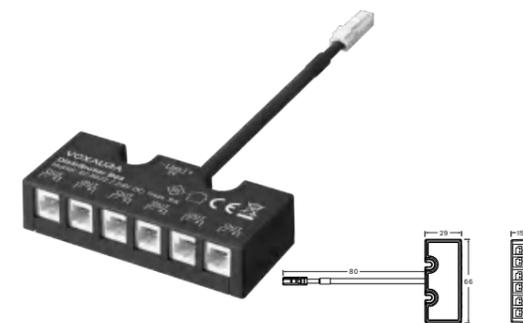
### EC3001 2-WAY EXTENSION CABLE

|                   |  |
|-------------------|--|
| Material / Colour | plastic / black                                |
| Suitable for      | 2-pin lights (monochrome and 2-pin multiwhite) |
| Length            | 2 m  |
| Drill hole        | Ø 8 mm (plug)                                  |
| Scope of delivery | 1 cable incl. 1 male and 2 female connectors   |
| Article number    | 150.99.01.003                                  |



### EC3002 6-WAY DISTRIBUTOR BOX

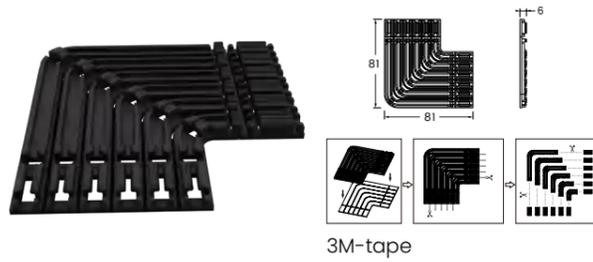
|                   |   |
|-------------------|---|
| Material / Colour | plastic / black   |
| Application       | 1 input port + 6 output ports to multiply LED light connections               |
| Suitable for      | all drivers and control units, 2-pin lights (monochrome and 2-pin multiwhite) |
| Dimensions        | 66 x 29 x 15 mm   |
| Scope of delivery | 1 distributor box incl. connecting cable 80 mm                                |
| Article number    | 130.99.01.001   |



ACCESSORIES

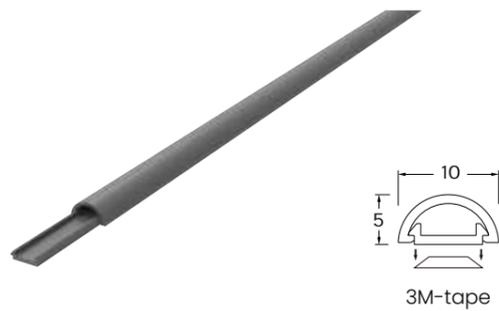
## CABLE MANAGEMENT ⚡ 24V

### CM1000 6-WAY CABLE MANAGEMENT 90° - single rails breakable for flexibility



|                   |                                    |
|-------------------|------------------------------------|
| Material / Colour | plastic / black                    |
| Application       | organize up to 6 cables in corners |
| Dimensions        | 81 x 81 x 6 mm                     |
| Installation      | surface mounting                   |
| Scope of delivery | 5 pieces incl. 3M-tape             |
| Article number    | 160.99.01.001                      |

### CM1000 6-WAY CABLE MANAGEMENT PROFILE



|                   |                         |
|-------------------|-------------------------|
| Material / Colour | plastic / black         |
| Application       | organize up to 6 cables |
| Dimensions        | 450 x 10 x 5 mm         |
| Installation      | surface mounting        |
| Scope of delivery | 5 pieces incl. 3M-tape  |
| Article number    | 160.99.01.002           |

## POWER TAKING SYSTEM

### PP1000 PRIMARY LEAD



|                   |  |
|-------------------|--|
| Material / Colour | plastic / black                          |
| Application       | C7 plug to UK plug                       |
| Cable Length      | 2 m                                      |
| Scope of delivery | 1 primary lead incl. C7 plug and UK plug |
| Article number    | 141.00.01.001                            |

### PP1000 PRIMARY LEAD



|                   |  |
|-------------------|--|
| Material / Colour | plastic / black                            |
| Application       | C7 plug to Euro plug                       |
| Cable Length      | 2 m  |
| Scope of delivery | 1 primary lead incl. C7 plug and Euro plug |
| Article number    | 140.00.01.001                              |

### PP1000 PRIMARY LEAD



|                   |  |
|-------------------|--|
| Material / Colour | plastic / black  |
| Application       | C7 plug to open cable ends for direct connection                       |
| Cable Length      | 2 m  |
| Scope of delivery | 1 primary lead incl. C7 plug and open cable ends for direct connection |
| Article number    | 140.10.01.001  |

### PP1000 PRIMARY LEAD



|                   |   |
|-------------------|---|
| Material / Colour | plastic / black                                 |
| Application       | C7 plug to Australia plug                       |
| Cable Length      | 2 m   |
| Scope of delivery | 1 primary lead incl. C7 plug and Australia plug |
| Article number    | 143.03.01.001                                   |

## CONTROL UNIT ⚡ 24V

### CB3000 CONTROL UNIT



|                      |                               |
|----------------------|-------------------------------|
| Material / colour    | plastic / black               |
| Output voltage       | 12/24 V DC                    |
| Network signal       | Bluetooth                     |
| Signal range         | 6 m                           |
| Intended application | on / off, dimming (0-100%)    |
| Installation         | connected to driver and light |
| Scope of delivery    | 1 control unit                |

| Colour system  | Power rating                | Current carrying capacity | Standby power consumption | Dimensions (L x W x H) | Connected output ports | Control type | Article number |
|----------------|-----------------------------|---------------------------|---------------------------|------------------------|------------------------|--------------|----------------|
|                | W                           | A (per port)              | W                         | mm                     |                        |              |                |
| LED monochrome | max. 30W (12V)<br>60W (24V) | 2,5                       | 0,2                       | 68x25x14               | 1 socket, 2-pin, 2,5A  | synchronous  | 110.20.01.001  |

INFORMATION

# ICONS AND APPROVAL MARKS

## Product specification / order information

|   |   |  |   |
|---|---|--|---|
|    | monochrome  |   | smart-control   |
|    | multiwhite  |   | motion sensor / IR sensor   |
|    | RGB   |   | cuttable  |
|    | RGB-monochrome  |   | info-box  |
|    | RGB-multiwhite  |   | order info  |
|    | High-Frequency Driver   |   | light control   |
|    | Colour rendering close to that of sunlight (see p. 140 + 143) |   | Bluetooth®<br>Industry standard for short-range wireless data transmission. The Bluetooth® word mark and logo are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by VoxAura is under license. |
|   | dimmable  |  | matter certified  |
|  | wireless  |  |   |

## Technical icons & safety

|   |  |
|---|--|
|  | Safety Extra Low Voltage   |
|  | Independent control gear for use outside luminaires without additional cover |
|  | Short-circuit proof with safety insulation                                   |

**Degree of protection / IP (International Protection) code: Degree of protection of an enclosure against the ingress of foreign bodies and water. First digit corresponds to the protection against foreign bodies / contact, second digit corresponds to the protection against water. The higher the respective value, the higher the protection. For example:**

|             |  |
|-------------|--|
| <b>IP20</b> | Protection against solid foreign objects > 12.5 mm / access with finger.<br>No protection against water.                       |
| <b>IP44</b> | Protection against solid foreign objects > 1 mm / access with wire.<br>Protection against splashing water from all directions. |
| <b>IP65</b> | Dust-tight (no ingress of dust) / complete contact protection.<br>Protection against water jets (nozzle) from any angle.       |

## Technical icons & safety

### Protection classes: Measures taken to protect the user from electric shock.

|   |   |
|---|---|
|  | Protection class II:<br>Protection through double or reinforced insulation  |
|  | Protection class III:<br>Protection by extra-low voltage (SELV)   |
|  | Indoor use only! Only use in dry rooms!   |
|  | For installation on materials whose flammability properties are not known.  |
|  | Temperature-protected power supply unit that does not exceed the temperature specified in the triangle in the event of a fault. |
|  | Do not cover with thermal insulation materials!   |

## Disposal information

|   |   |
|---|---|
|  | Do not dispose of old electrical appliances as normal household waste, but at a collection point for the recycling of electrical and electronic appliances. |
|---|---|

## Approval marks

|   |  |
|---|--|
|  | Conformité Européenne = EU conformity<br>The product meets the applicable requirements of EU harmonization regulations.<br><br>All VoxAura products that are in scope of harmonized EU directives meet the corresponding requirements, which is why we do not list this on the catalog pages. The labeling of the products themselves is mandatory.  |
|  | UK (United Kingdom) Conformity Assessed<br>Compliance with corresponding regulations of the United Kingdom.  |
|  | Voluntary test mark of independent test institutes of the European Committee for Electro-technical Standardization (CENELEC). The ENEC mark guarantees that the product complies with the relevant EN safety standards and performance testing requirements.   |
|  | matter and Thread compatible devices<br><b>iOS devices:</b><br>- iPhone 8 and newer (iOS 16+) - iPhone SE (2nd gen) and newer<br><b>Android devices:</b><br>- Google Pixel 4 and newer (Android 12+) - Samsung Galaxy S20 and newer<br><br>Supported border routers for matter Thread<br><br><b>Apple:</b><br>- HomePod mini - Apple TV 4K (2nd gen and newer)<br><br><b>Google:</b><br>- Nest Hub (2nd gen) - Nest Hub Max - Nest Wifi Pro<br><br><b>Amazon Alexa:</b><br>- Echo (4th gen) - Echo Show 10 (3rd gen) |

## TECHNICAL TERMS

### A

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**Ampere:** See current

### B

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**Beam angle:** Describes the angular range within which the light intensity of a light source falls to more than 50% of the maximum light intensity. This is typically in the center of the light cone.

**Binning:** Derived from the English word “bin” (container/box). In the context of LED production, “binning” refers to the process of sorting and grouping LEDs into different categories or “bins” based on certain characteristics or properties (brightness, colour, forward voltage). This is necessary to ensure a uniform appearance, as in production the smallest variations lead to different performance characteristics.

### C

---

**COB (Chip On Board):** A type of LED technology in which multiple LED chips are mounted directly onto a substrate or circuit board and connected together to form a single, compact and powerful light module.

**Colour / colour system:** LEDs can be divided into the following colours or colour systems:

- **monochrome (white):**  
A specific colour (colour temperature) of white light can be generated; this cannot be varied.
- **monochrome (white) changeable:**  
It is possible to switch between two or more specific colours (colour temperatures) of white light.
- **multiwhite:**  
LEDs that combine several white LEDs with different colour temperatures of white light to enable a variable light colour and temperature of the white light.
- **RGB (Red, Green, Blue):**  
A wide range of colours (incl. white light) can be created through a variable combination of red, green and blue light using additive colour mixing.
- **RGB-monochrome:**  
LED light sources that combine both RGB colour-changing LEDs and white LEDs with a specific colour temperature to enable a comprehensive range of colours. White light is not produced by mixing red, green and blue colours, but by separately controlled white LEDs. The result is a “more perfect” white than is possible by mixing red, green and blue.
- **RGB-multiwhite:**  
LED light sources that combine both RGB colour-changing LEDs and several white LEDs with different colour temperatures to provide a comprehensive range of colours. White light is not produced by mixing red, green and blue colours, but by separately controlled white LEDs. The result is “more perfect” white tones than are possible by mixing red, green and blue.

**Colour temperature / Kelvin (K):** Describes the colour of white light, measured in Kelvin, and indicates whether the white light appears warm (reddish/yellowish) or cold (bluish). The colour temperature influences human mood, productivity, sleep quality and perception:

- **warm white light** (2700 – 3300 K): relaxing, cozy, sleep-inducing
- **neutral white light** (3400 – 5000 K): activating, energizing
- **cool white / daylight white light** (more than 5000 K): enhances concentration, stimulates, increases alertness and performance

**CRI (Colour Rendering Index):** A measure of how naturally and accurately a light source reproduces the colour of objects compared to a reference light source (daylight). The scale ranges from 0 – 100, with 100 representing the best colour rendering. Good colour rendering is given from a CRI > 90. A distinction is usually made between the CRI Ra (general colour rendering index) and the CRI R9 (colour rendering of red tones).

**Current / Ampere (A):** Measure of the amount of electrical charge that flows through a conductor cross-section per unit of time.

### D

---

**Degree of efficiency:** Indicates how well a power supply unit converts the electrical energy it receives into usable energy for electronic devices. It is expressed as a percentage and lies between 0% and 100%.

### E

---

**Energy efficiency classes:** Rating system that characterizes the energy efficiency of certain household appliances and other products. They are shown on a scale from A to G, with A representing the best energy efficiency.

### F

---

**Frequency / Hertz (Hz):** Indicates how often the direction of the alternating current changes within one second. 1 Hz corresponds to one complete reversal (oscillation) per second.

### H

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**HCL (Human Centric Lighting):** Intelligent lighting system that can imitate natural daylight patterns and aims to improve people’s well-being, health and performance by adapting the lighting conditions to the natural, biological circadian rhythm. Cool, bright light in the morning has an activating effect and helps people to wake up. Warm, soft light is relaxing and promotes restful sleep. (See also colour temperature)

**Hertz:** See frequency

## TECHNICAL TERMS

### I

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**Illuminance / Lux (lx):** Measure of the amount of light (brightness) falling on a certain surface. It is measured in lux. One lux corresponds to one lumen per m<sup>2</sup>. Illuminance decreases with increasing distance from the light source.

### K

---

**Kelvin:** See colour temperature

### L

---

**Layered light:** Perfect illumination of the room and an atmospheric ambience thanks to a harmonious mix of basic, accent and ambient lighting:

- **Basic lighting:**  
uniform, rather diffuse light that illuminates the entire room.
- **Accent lighting / zone lighting:**  
brings light to where it is needed; sets accents; creates zones within a room.
- **Ambient lighting:**  
discreet, warm light; creates atmosphere; sets the scene in the room.

**LED (Light Emitting Diode):** Semiconductor light source. LED technology is based on the use of light-emitting diodes that generate light when an electric current flows through them. There are different types of LED (e.g. COB and SMD, see COB / SMD).

**Lifetime (Lx/By) of LED:** Specified in hours. L indicates the percentage of the original luminous flux that is still achieved after the specified lifetime; B indicates the percentage of LEDs produced that still reach the L limit after the specified lifetime.

Example: L70/B50 > 50,000: With an average lifetime of 50,000 hours, at least 50% of the LEDs still provide at least 70% of their original luminous intensity.

**Light efficacy (lm/W):** A measure of the efficiency of a light source. It indicates how much visible light (in lumens) is produced per electrical power consumed (in watts). The luminous efficacy is measured in lumens per watt (lm/W) and provides information on how effectively a light source converts electrical energy into light.

**Light transmission / transmittance:** The proportion of incident light that passes through a material, expressed as a percentage (%). A material with a light transmission of 80% allows 80% of the incident light to pass through and blocks 20%.

**Lumen:** see luminous flux

**Luminous flux / Lumen (lm):** A photometric quantity, measured in lumens, which describes the total amount of visible light emitted by a light source in all directions. Luminous flux is a measure of how much light a source produces and how well it can illuminate a room or area.

**Luminous flux drop:** With LED strips, there is a drop in luminous flux with increasing strip length, caused by the electrical resistance of the conductor tracks in the LED strip, which can lead to different brightness and colour shades. The specified visual value corresponds to the maximum length of the LED strip before a significant, i.e. perceptible to the human eye, drop in luminous flux occurs.

**Lux:** See illuminance

### P

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**Power Factor (PF):** Indicates how efficiently a power supply unit converts the electrical energy from the socket into usable energy. It lies between 0 and 1.

**Power / Watt (W):** Indicates how much electrical work the current performs every second or how much electrical energy is converted into other forms of energy. It determines how much energy an appliance consumes and how much work it can do. Devices with higher power can work more or faster, but also consume more energy.

### S

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**SMD (Surface-Mounted Device):** Type of LED, are soldered directly onto the surface of a printed circuit board and are characterized by a compact and flat design. They are versatile, compact, efficient, easy to integrate, have high brightness and luminous efficacy, good heat dissipation and long lifetime.

**Standby power consumption:** Refers to the power consumption of electrical appliances when they are connected but not in active use, i.e. in standby mode.

### T

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**Transmittance:** See light transmission

### U

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**UGR (Unified Glare Rating):** Standardized measure for assessing the glare caused by artificial light sources indoors. UGR is specified on a scale from around 10 to > 30. UGR ≤ 16 glare not perceptible / not disturbing; UGR ≤ 22 glare tolerable / moderate; UGR > 22 strong to unbearable glare. By planning and designing the lighting correctly, the UGR value can be optimized and glare minimized to create a comfortable and efficient lighting environment.

### V

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**Voltage / Volt (V):** Describes the potential difference between two points in an electric field. It is the force that drives the electric current through a circuit and determines how much energy an electrical device receives.

### W

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**Watt:** See power

## General questions:

### For which projects are VoxAura lighting systems suitable?

VoxAura systems are ideal for a variety of applications, including residential areas, offices, retail stores and special projects. They support customized solutions that harmoniously combine functionality and design.

### Why should I opt for a 24V system? What are the advantages of a 24V system?

Please check page 9.

## General questions to light:

### Which factors have a significant influence on illuminance?

Please check page 10.

### What does TrueColour CRI97+ mean for VoxAura luminaires?

Colour Rendering Index (CRI) is a measure of how naturally and accurately a light source reproduces the colours of objects compared to daylight. The CRI evaluates the ability of a light source to display the colours of objects authentically and naturally. The scale ranges from 0 to 100, with 100 representing the best colour reproduction, comparable to natural sunlight. CRI 97+ is near to the colour rendering of daylight and so provides you with true colours.

## General questions to installation:

### What must be observed with regard to installation and commissioning?

The applicable national regulations must be observed. Installation and commissioning may only be carried out by a qualified electrician in some cases. The products may only be used for their intended purpose. The instructions in the installation and operating instructions must be observed. Modifications for which the products are not intended are not permitted. Non-compliance may result in damage to property and personal injury. Furthermore, the manufacturer accepts no liability in the event of non-compliance and the warranty becomes void.

### What tools are required for the installation?

The installation of our systems requires standard tools that are typically available in professional workshops. You will find all the necessary installation instructions in our detailed installation manuals.

### How are the system components connected?

Our products use a user-friendly plug-in system that enables a quick and secure connection without extensive technical knowledge. This makes installation and maintenance easy.

## LED-ribbons:

### What shall I do if the required length of an LED strip is greater than the max. visual ribbon length?

An additional driver unit must be connected in between to ensure a constant voltage supply and thus prevent the brightness from dropping.

### Are there LED-ribbons that are particularly suitable for use in caravans or ceiling lighting?

The LS4005 product family features constant current technology. This technology enables a (visual) strip length of up to 15 m without a significant drop in luminous flux. Also suitable for short-term voltage peaks up to 16 V thanks to the integrated IC. This is why LED strips with constant current technology are ideal for ceiling lighting and lighting in caravans.

### What do I need to consider if I want to install LED-ribbons in wet rooms?

Depending on the distance to possible water sources, the LED-ribbons must be suitable for use in wet rooms. Information on this can be found in the IP protection class. Please observe the national legal regulations regarding distance to water sources and the required (minimum) IP protection class. Vox-Aura silicone ribbons have an IP44 protection class, which is sufficient for many applications in wet rooms. Please note that the driver and the primary lead must be installed in a dry place.

### What do I need to consider when choosing connectors for LED-ribbons?

VoxAura systems are also harmonized for connectors. As a rule, only the width of the PCB of the LED strip and the number of pins need to be taken into account.

### What needs to be considered with regard to the service life of LED lights / LED-ribbons?

The operating temperature has a decisive influence on the service life. The warmer, the shorter the service life.

## Power supply:

### Can drivers from other manufacturers be used with VoxAura systems?

No. The components of VoxAura systems are optimally matched to each other. To ensure safety and functionality, only VoxAura components may be connected to each other.

### What do I need to consider when choosing the driver?

First you need to decide whether an integrated or smart-driver is required to control the light you want. In addition the power of the driver must be matched to connected loads.

### What do I need to consider when selecting control units?

It is important to consider which lighting system is to be controlled, which switches are to be connected and whether the light is to be controlled synchronously or asynchronously.

### What does HFD mean for VoxAura drivers?

HFD means High-Frequency Driver. This is a completely new technology in the field of LED drivers and enables smallest design as well as significant reduces of operating temperature what leads to increased lifetime.

## Switches:

### What needs to be considered when choosing the switches?

First and foremost, how you want to control the light and if the functions of the switch match with your system. You also need to consider whether you prefer wireless or wired switches.

Please check more FAQ at [www.voxaura.ai](http://www.voxaura.ai)

## IMPRINT

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