



VOXAURA

VOXAURA

PRODUCT CATALOG

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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.“**

TABLE OF CONTENTS

	KNOWLEDGE	p. 003
	Academy of Light	p. 003
	24V System	p. 009
	DIALUX	p. 010
	System overview	p. 011
	LIGHTING	p. 013
	LED-ribbons	p. 021
	Profiles for LED-ribbons	p. 041
	Linear lights & glass shelves	p. 045
	Downlights	p. 071
	Mini track lights	p. 081
	Showcase lights	p. 087
	Ceiling lights	p. 095
	SWITCHES	p. 105
	Sensor switches	p. 107
	Wired switches	p. 109
	Remote control	p. 113
	Multiple switch unit	p. 114
	POWER SUPPLY	p. 115
	Smart-drivers	p. 117
	Control units	p. 123
	Drivers	p. 127
	Drivers IP44	p. 129
	ACCESSORIES	p. 131
	Cables & distributors	p. 132
	Cable management	p. 133
	Primary leads	p. 133
	Control unit	p. 134
	SUPPLEMENTARY RANGE	p. 135
	12 V products	p. 137
	INFORMATION	p. 139
	Icons & approval marks	p. 141
	Technical terms	p. 143
	FAQ	p. 147
	Imprint	p. 150

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.

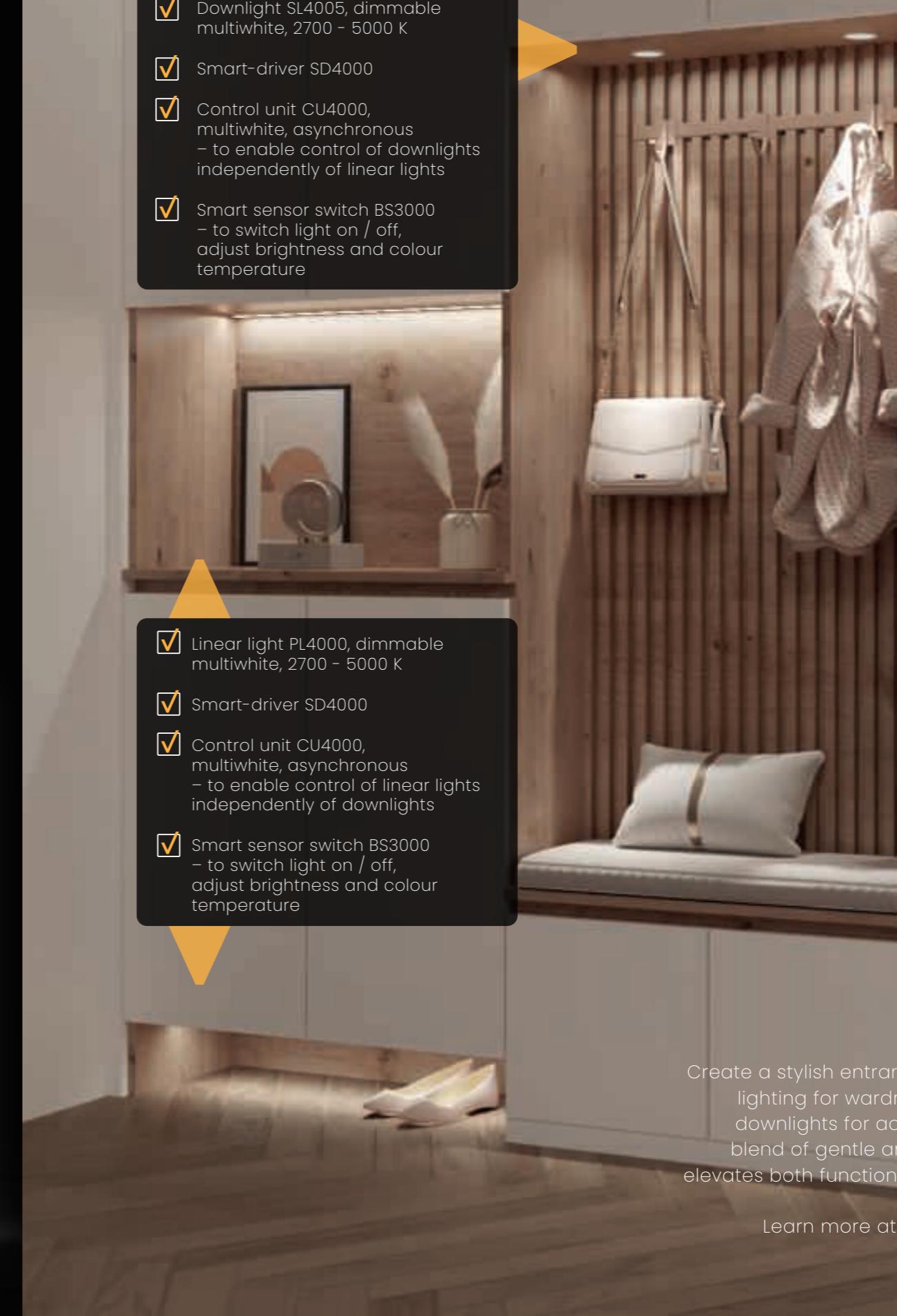
LET US
INSPIRE YOU!



www.voxaura.ai



- ✓ 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



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

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.

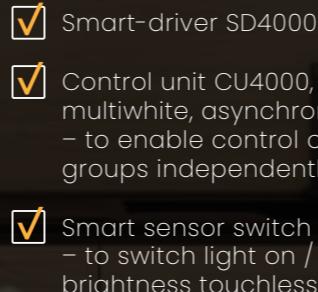
Learn more at www.voxaura.ai

- 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 AP1000 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

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.

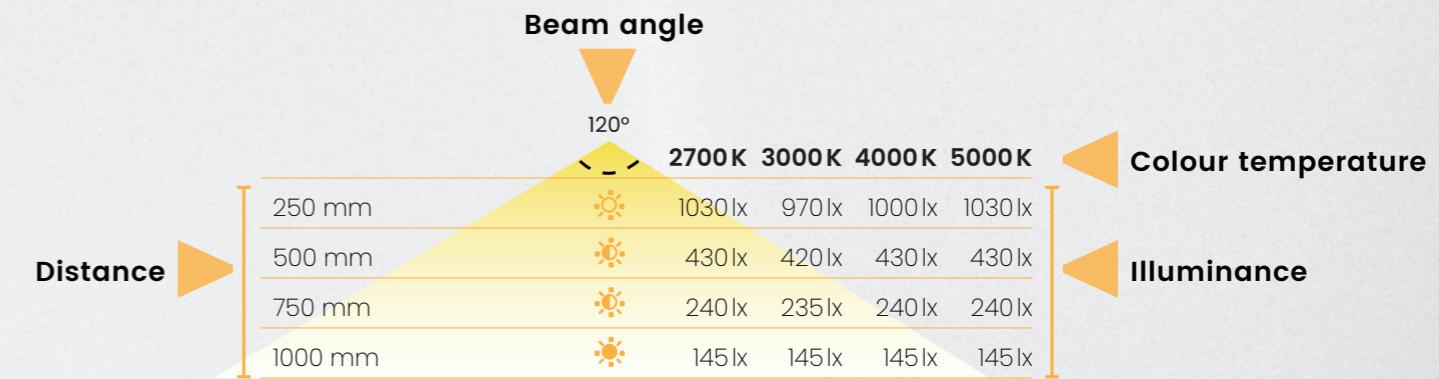
12V

We also offer a supplementary range of 12V product families. (page 135)

If you are interested, please contact us.

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:

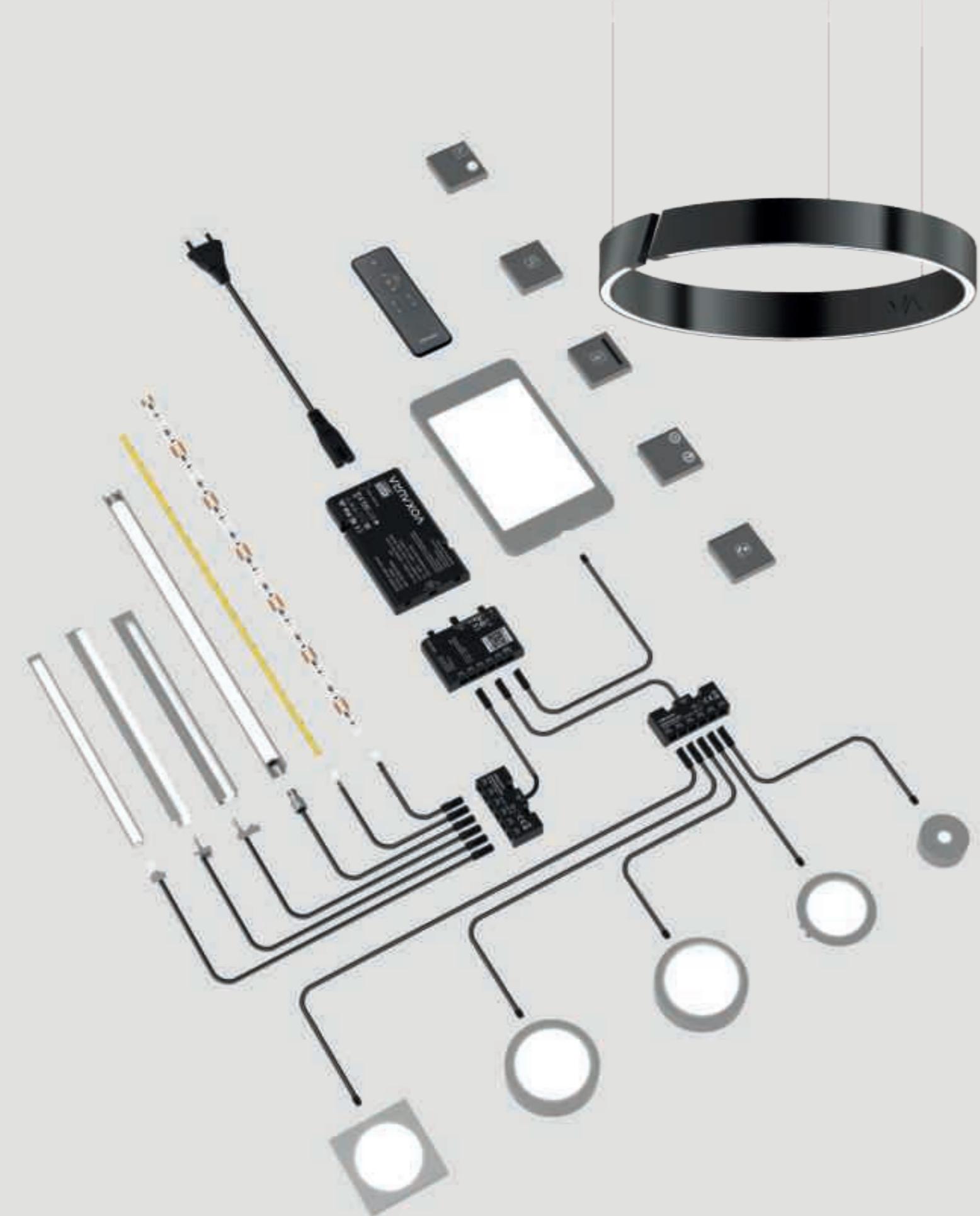
- Increasing distance leads to decreasing illuminance.
- A small beam angle produces a focused beam of light with high illuminance, while a wide beam angle produces a wider light cone with less illuminance.
- Although warm white and cool white light can technically have the same illuminance, cool white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

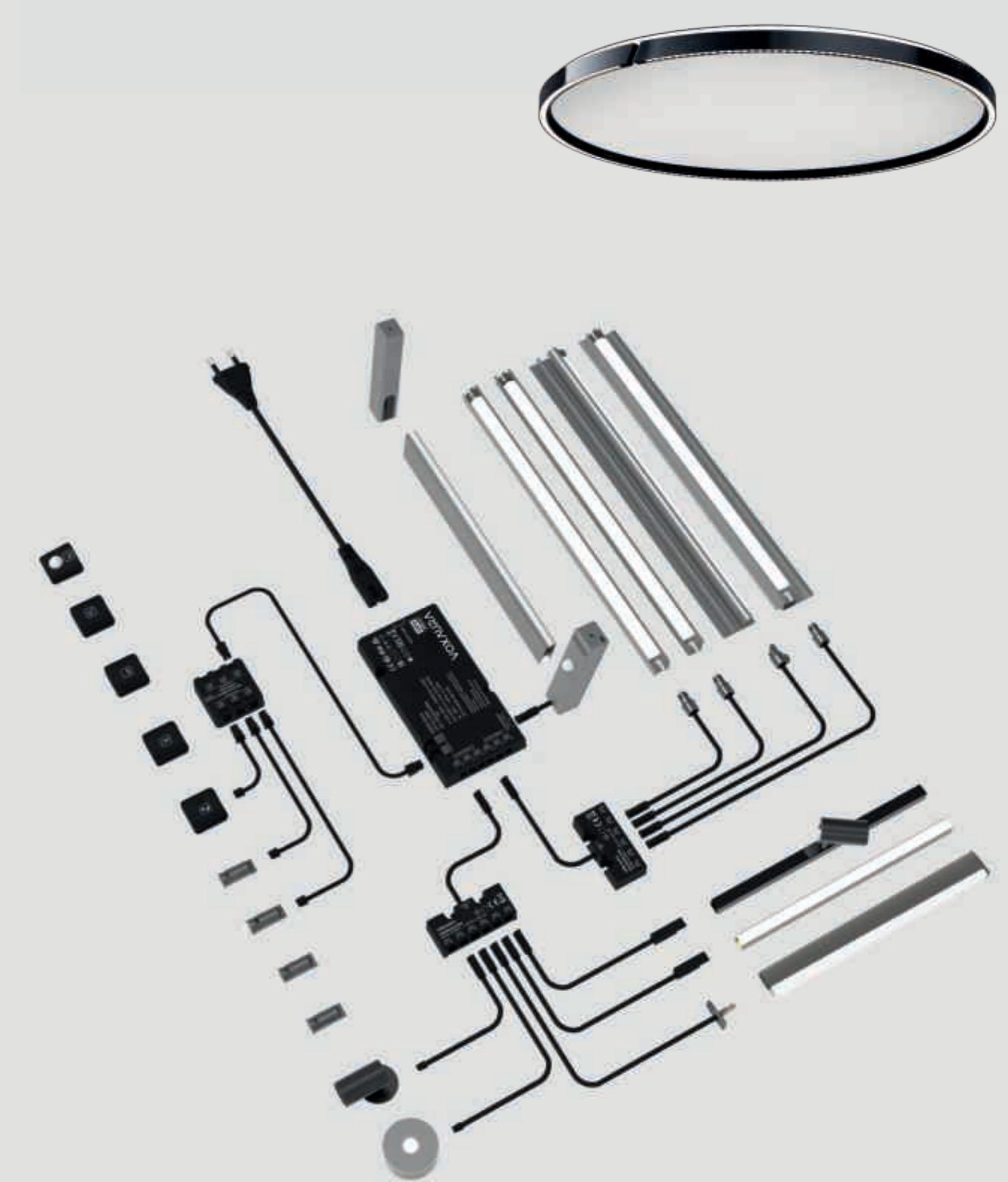
RECOMMENDATION FOR ILLUMINANCE

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

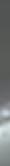
LED-RIBBONS**24V**

overview

SMD LED-RIBBONS**21**

Colour system	Familyname	lm/m	w/m	Width mm	Degree of protection	page
 monochrome	LS4000	> 950	5	5	IP20	023
	LS4002	> 950	5	8	IP20	025
	LS4003	> 950	5	8	IP20	025
	LS4001	> 1.900	10	5	IP20	023
	LS4004	> 1.900	10	8	IP20	025
 multiwhite	LS4050	> 1.850	10	10	IP20	027
 RGB	LS4080	---	10	10	IP20	029
 RGB-MW	LS4090	> 1.250	10	12	IP20	031

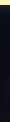
SMD LED-RIBBONS CONSTANT CURRENT TECHNOLOGY**25**

 monochrome	LS4005	> 1.400	8,5	8	IP20	025
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COB LED-RIBBONS**33**

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

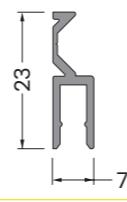
SMD LED-RIBBONS SILICONE**37**

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

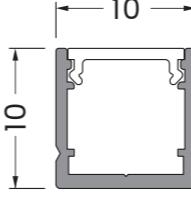
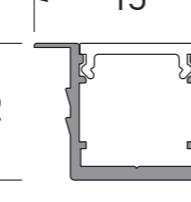
PROFILES FOR LED-RIBBONS**24V**

overview

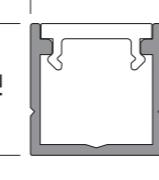
FOR 4 mm SILICONE LED-RIBBONS**41**

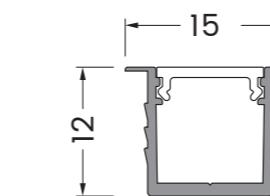
Technical drawing	Familyname	Dimensions (L x W x H)	Installation	page
	AP1000	1000 x 7 x 23 mm	surface	041

FOR 5 mm LED-RIBBONS**42**

	AP1001	3000 x 10 x 10 mm	surface	042
	AP1003	3000 x 15 x 10 mm	recessed	043

FOR 8 mm LED-RIBBONS**42**

	AP1002	3000 x 12 x 12 mm	surface	042
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**AP1004**

3000 x 15 x 12 mm

recessed

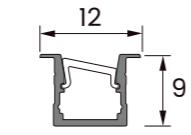
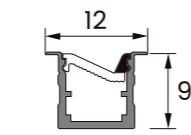
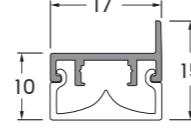
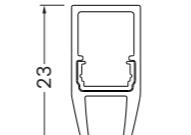
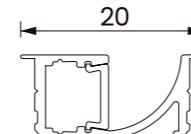
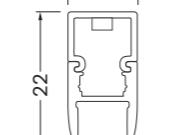
043

LINEAR LIGHTS

overview

 **CUT-TO-SIZE MONOCHROME / MULTIWHITE****45**

	Familyname	lm/m	w/m	Length mm	Technical drawing	page
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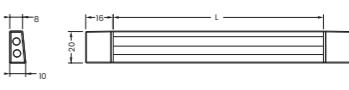
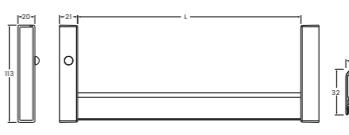
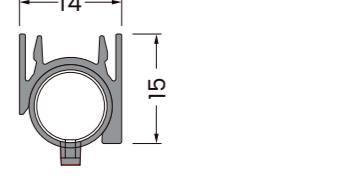
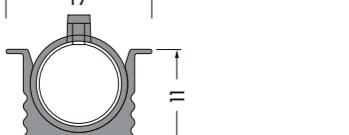
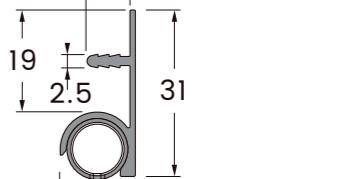
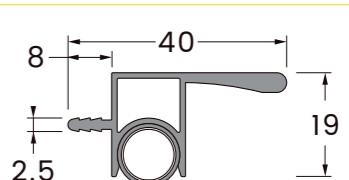
	PL4000	>118	5	3000		047
	PL4001	118	5	1000		047
	PL4002	>114	5	3000		049
	PL4003	>298	5	3000		053
	PL4011	>50	5	3000		051
	PL4004	>186	5	3000		055

LINEAR LIGHTS

overview

 **CUT-TO-SIZE MONOCHROME / MULTIWHITE****57**

	Familyname	lm/m	w/m	Length mm	Technical drawing	page
--	------------	------	-----	-----------	-------------------	------

	PL4005	118	5	1000		057
	PL4006	96	5	3000		059
	PL4007	>350	5	3000		061
	PL4008	>350	5	3000		063
	PL4009	>350	5	3000		065
	PL4010	>350	5	3000		067

ILLUMINATED GLASS SHELVES



overview

LED LED MONOCHROME / MULTIWHITE

69

	Familyname	lm	W	Dimensions	Colour	page
--	------------	----	---	------------	--------	------



▼PL4012

50 3 600 x 230 x 30,5 mm
75 4,5 900 x 230 x 30,5 mm

aluminum
black

070

DOWNLIGHTS



overview

LED LED MONOCHROME / MULTIWHITE

77

	Familyname	lm	W	Dimensions	Installation	page
--	------------	----	---	------------	--------------	------



▼SL4004

> 299 2,5 Ø 65 x 13,7 mm recessed or surface

077



▼SL4005

> 316 3 Ø 75 x 13,7 mm recessed or surface

078

DOWNLIGHTS



overview

LED MONOCHROME

71

	Familyname	lm	W	Dimensions	Installation	page
--	------------	----	---	------------	--------------	------



▼SL4001

> 210 2,5 62 x 62 x 7,8 mm

surface

073



▼SL4002

> 210 2,5 Ø 62 x 7,8 mm

surface

074



▼SL4003

> 537 5 192 x 112 x 6 mm

surface

075



▼SL4006

> 117 1 Ø 41 x 12,7 mm

recessed or
surface

079



▼SL4007

> 351 3 Ø 75 x 12,7 mm

recessed or
surface

080

MINI TRACK LIGHTS

▼ 24V

overview

LED TRACKS & SPOTS

81

Familyname	lm	W	Dimensions	Installation	page
▼ TL4002	---	---	3000 x 15 x 10 mm	recessed	083
▼ TL4003	---	---	3000 x 10 x 10 mm	surface	083
▼ TL4001	135	1	Ø 18 x 45 x 47 mm	clip-in	085
▼ TL4005	390	3			

SHOWCASE LIGHTS

▼ 24V

overview

LED SPOTLIGHTS

87

Familyname	lm	W	Dimensions	Installation	page
▼ SC4000	390	3	Ø 18 x 45 x 43,2 mm	recessed	089
▼ SC4001	390	3	Ø 18 x 45 x 350 mm	recessed	091
▼ TL4004	---	---	450 x 15 x 13 mm	recessed	093

CEILING LIGHTS

▼ 24 / 36V

overview

LED CEILING LIGHTS

95

Familyname	lm	W	Dimensions	Colour	page
▼ ONE AURA	572 - 1.320	30	Ø 600 mm	graphite black silk white rose gold	097
▼ ONE ARC	488 - 1.130	25	Ø 400 mm		
▼ ONE RISE	476 - 1.659	30	Ø 600 mm	graphite black silk white rose gold	099
▼ ONE SPOT	402 - 1.402	25	Ø 400 mm		
				graphite black silk white rose gold	101
				graphite black silk white rose gold	103

LED RIBBONS



SMD LED-RIBBONS



monochrome (2-pin), 5 mm

LS4000 / LS4001



- HIGH LUMINOUS FLUX
- High CRI 93



Illuminance in lx based on 1 m strip length:

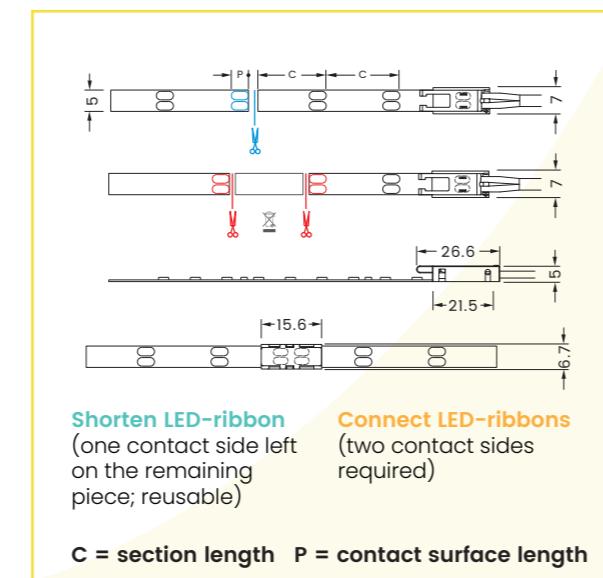
120° LS4000

	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° LS4001

	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

Material	plastic
Surface finish	white
Width	5 mm
Height	1,3 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)



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
LEDs/m	W/m	lm/m	lm/W	Ra	R9	K	EEI	mm	mm	

LS4000 for furniture, plinth, ambient lighting

128	5	950	190	93	>50	2700		8,0	62,5	4,0	200.10.00.001
	5	950	190	93	>50	3000		8,0	62,5	4,0	200.10.00.002
	5	975	195	93	>50	4000		8,0	62,5	4,0	200.10.00.003
	5	975	195	93	>50	5000		8,0	62,5	4,0	200.10.00.004

LS4001 for ceiling

128	10	1900	190	93	>50	2700		5,0	62,5	4,0	200.10.00.005
	10	1900	190	93	>50	3000		5,0	62,5	4,0	200.10.00.006
	10	1950	195	93	>50	4000		5,0	62,5	4,0	200.10.00.007
	10	1950	195	93	>50	5000		5,0	62,5	4,0	200.10.00.008



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 127



Smart-drivers + control unit

see page 117



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



monochrome (2-pin), 8 mm

LS4002 / LS4003 / LS4004 / LS4005



Illuminance in lx based on 1 m strip length:

	LS4002			
	2700K	5000K	3000K	4000K
250 mm	4460lx	4575lx	4460lx	4575lx
500 mm	1115lx	1145lx	1115lx	1145lx
750 mm	495lx	510lx	495lx	510lx
1000 mm	280lx	285lx	280lx	285lx

	LS4003			
	2700K	5000K	3000K	4000K
250 mm	4820lx	5100lx	4820lx	5100lx
500 mm	1205lx	1275lx	1205lx	1275lx
750 mm	535lx	565lx	535lx	565lx
1000 mm	300lx	315lx	300lx	315lx

	LS4004			
	2700K	5000K	3000K	4000K
250 mm	8640lx	8870lx	8640lx	8870lx
500 mm	2160lx	2220lx	2160lx	2220lx
750 mm	960lx	985lx	960lx	985lx
1000 mm	540lx	555lx	540lx	555lx

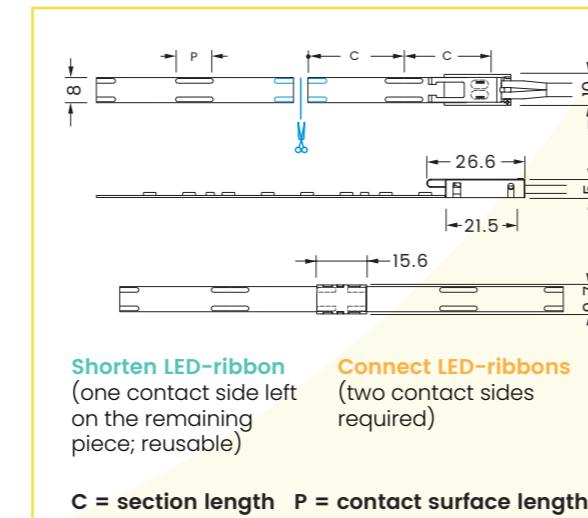
	LS4005			
	2700K	5000K	3000K	4000K
250 mm	7010lx	7125lx	7010lx	7125lx
500 mm	1755lx	1785lx	1755lx	1785lx
750 mm	780lx	795lx	780lx	795lx
1000 mm	440lx	445lx	440lx	445lx



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

LS4002 / LS4003 / LS4004 / LS4005

LS4002	plastic
Surface finish	white
Width	8 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 / 15 m)



i 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**.

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.

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	EEI	m	mm	

LS4002 for ceiling	5 m									
64	5	950	190	93	>50	2700		12,0	125,0	10,0
	5	950	190	93	>50	3000		12,0	125,0	10,0
	5	975	195	93	>50	4000		12,0	125,0	10,0
	5	975	195	93	>50	5000		12,0	125,0	10,0

LS4003 for low area application (e.g. plinth)	12,5 m									
128	5	950	190	93	>50	2700		12,0	62,5	10,0
	5	950	190	93	>50	3000		12,0	62,5	10,0
	5	975	195	93	>50	4000		12,0	62,5	10,0
	5	975	195	93	>50	5000		12,0	62,5	10,0

LS4004 for ceiling, showroom, task light	15 m									
128	10	1900	190	93	>50	2700		8,0	62,5	10,0
	10	1900	190	93	>50	3000		8,0	62,5	10,0
	10	1950	195	93	>50	4000		8,0	62,5	10,0
	10	1950	195	93	>50	5000		8,0	62,5	10,0

LS4005 for caravan, ceiling	15m									
126	8,5	1400	165	93	>50	2700		15,0	55,5	10,0
	8,5	1400	165	93	>50	3000		15,0	55,5	10,0
	8,5	1450	170	93	>50	4000		15,0	55,5	10,0
	8,5	1450	170	93	>50	5000		15,0	55,5	10,0

ORDER INFO	Additional connecting accessories need to be ordered separately
	Drivers (integrated)
	Smart-drivers + control unit
	1 connecting cable 2 m incl. clip connector (2-pin) 8 mm, 24V
	Straight connectors (2-pin) 8 mm (10 pcs)

SMD LED-RIBBONS



multiwhite (3-pin), 10 mm



- HIGH EFFICACY 190 lm/w
- HIGH CRI 93

LS4050

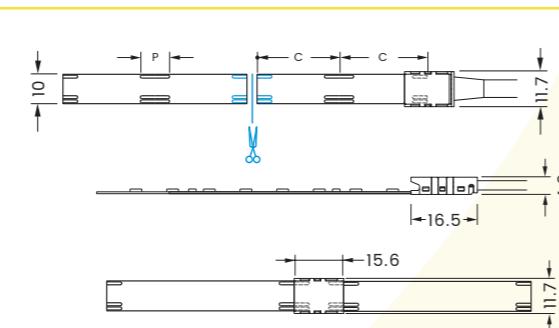


Area of application

- only ceiling (not for furniture)



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)



Illuminance in lx based on 1 m strip length:

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

Shorten LED-ribbon
(one contact side left on the remaining piece; reusable)

Connect LED-ribbons
(two contact sides required)

C = section length P = contact surface length

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
LEDs/m	W/m	lm/m	lm/w	Ra	R9	K	EEI	m	mm	

LS4050 for ceiling

256	10	1850 - 1900	185 - 190	93	>50	2700 - 5000	A 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 117



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



RGB (4-pin), 10 mm



▪ 16.7 MIO TUNABLE COLOURS

LS4080

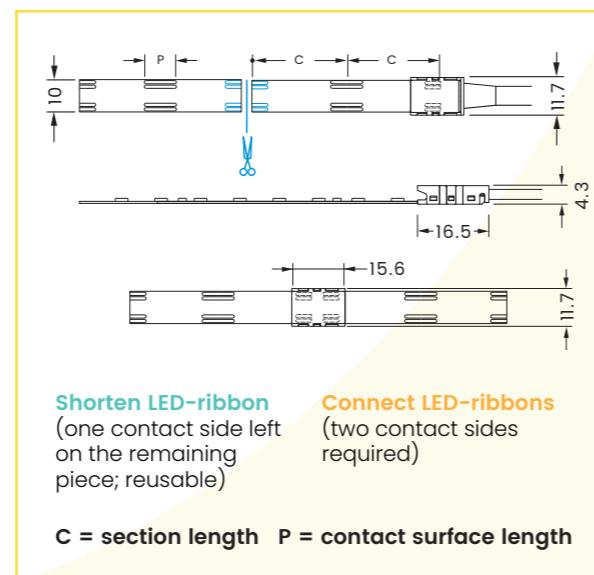


Area of application

- 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	EEI	m	mm	
120	10	---	---	---	---	RGB	---	10,0	50,0	3,0

LS4080 for decorative light, ceiling

120 10 --- --- --- --- RGB --- 10,0 50,0 3,0 200.12.00.001

i RGB 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 117
	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

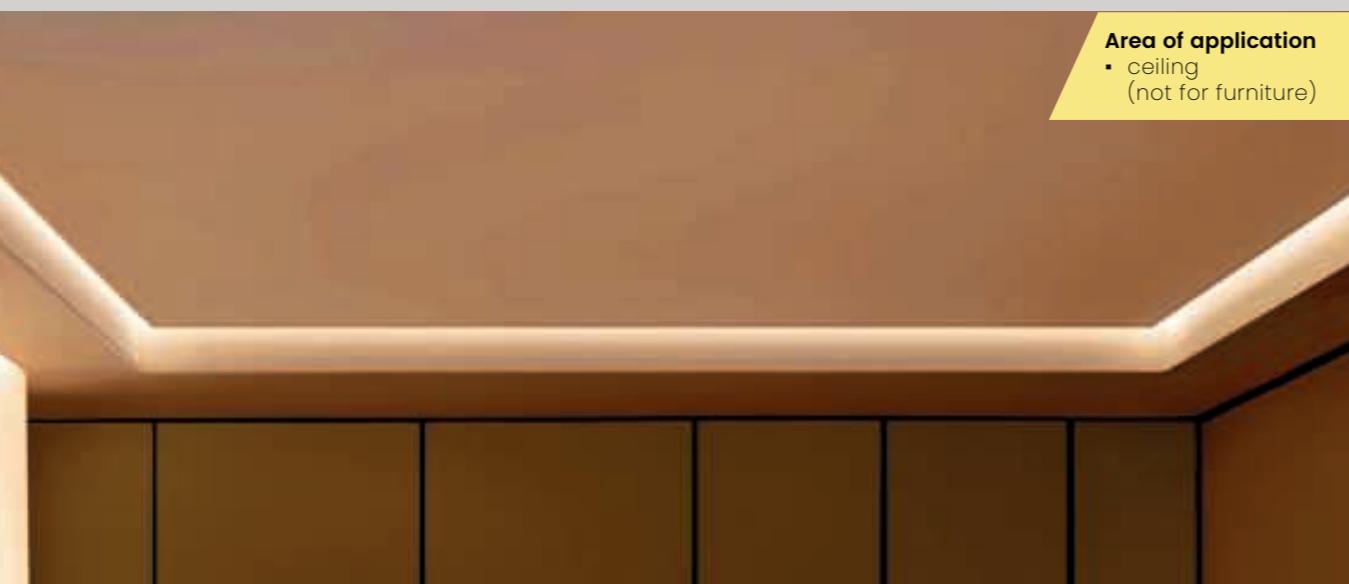


RGB-multiwhite (6-pin), 12 mm



- HIGH CRI 93
- 16.7 MIO TUNABLE COLOURS

LS4090

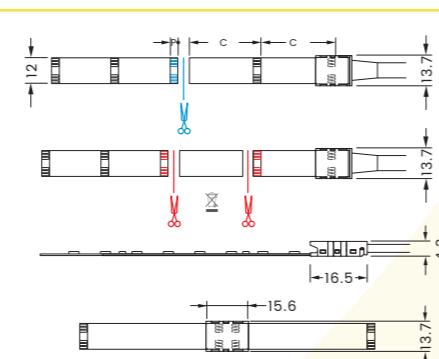


Area of application

- ceiling
(not for furniture)



Material	plastic
Surface finish	white
Width	12 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)



Illuminance in lx based on 1 m strip length:

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

Shorten LED-ribbon
(one contact side left
on the remaining
piece; reusable)

Connect LED-ribbons
(two contact sides
required)

C = section length **P = contact surface length**

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	EEI	m	mm	

LS4090 for ceiling

180	10	1250 - 1350	125 - 135	93	>50	RGB MW: 2700-5000	A	E	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 117
	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

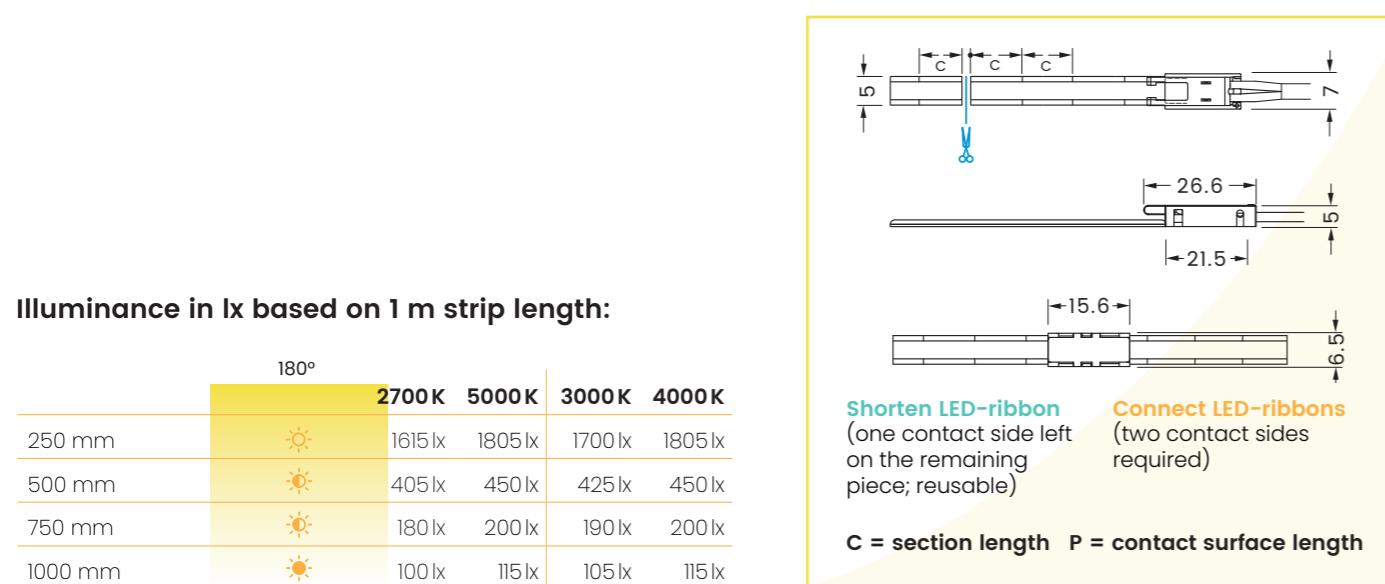


monochrome (2-pin), 5 mm

LS4030



Material	plastic
Surface finish	silver
Width	5 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)



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	



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

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	EEI	m	mm	

LS4030 for furniture

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



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



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 127
	Smart-drivers + control unit	see page 117
	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

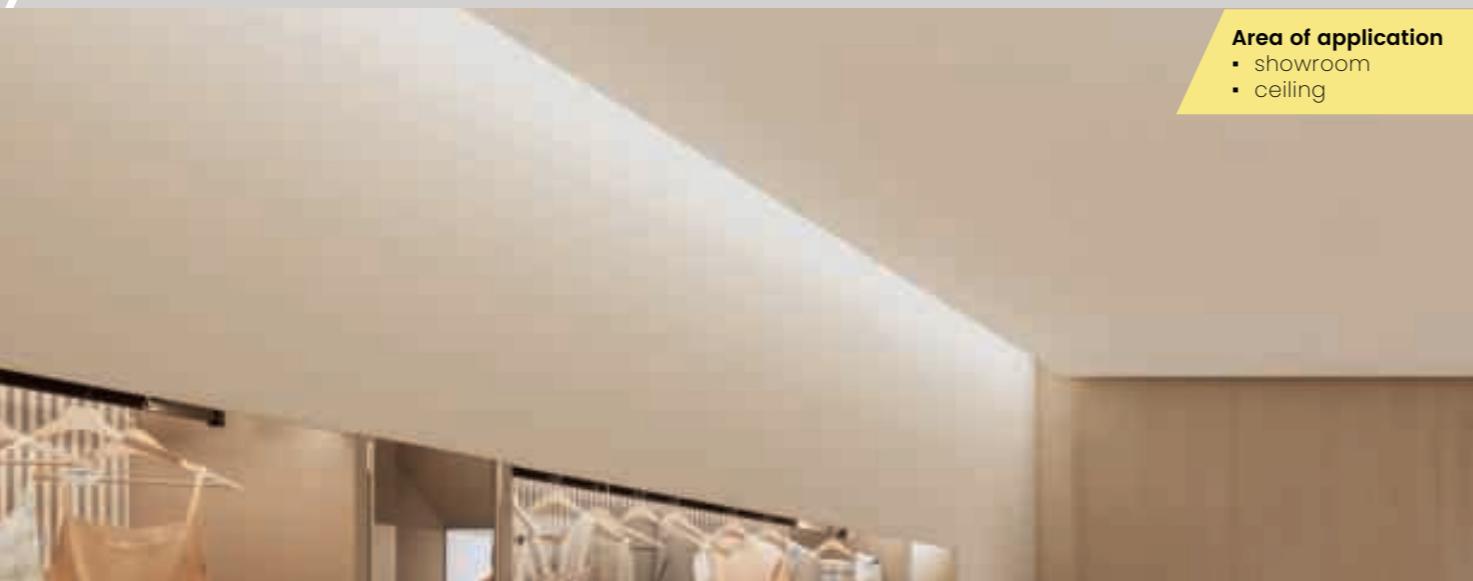


monochrome (2-pin) / multiwhite (2-pin), 8 mm



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

LS4031



Area of application

- showroom
- ceiling

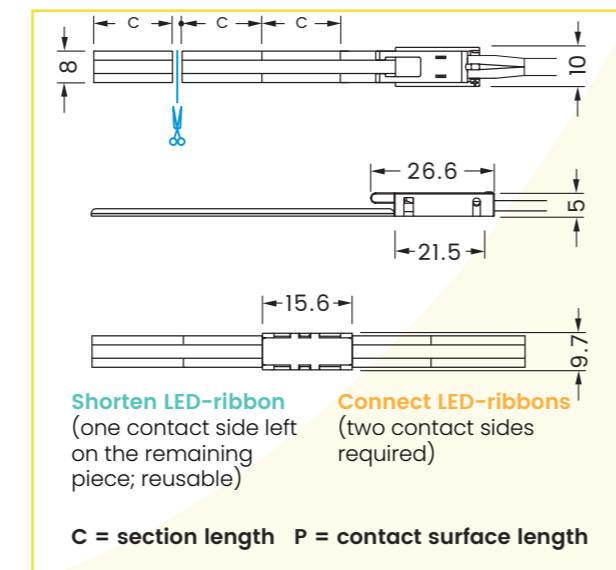


Illuminance in lx based on 1 m strip length:

	180°	2700K	5000K	3000K	4000K
250 mm	2650 lx	2925 lx	2810 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	

	180°	2700K	5000K
250 mm	2500 lx	2650 lx	
500 mm	630 lx	665 lx	
750 mm	280 lx	295 lx	
1000 mm	155 lx	165 lx	

Material	plastic
Surface finish	silver
Width	8 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)



LS4031

Number of LEDs	Wattage	Luminous flux	Lu-men 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	EEI	m	mm	mm	5 m

LS4031 for showroom, ceiling

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

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

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

	Drivers (integrated)	see page 127
	Smart-drivers + control unit	see page 117
	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

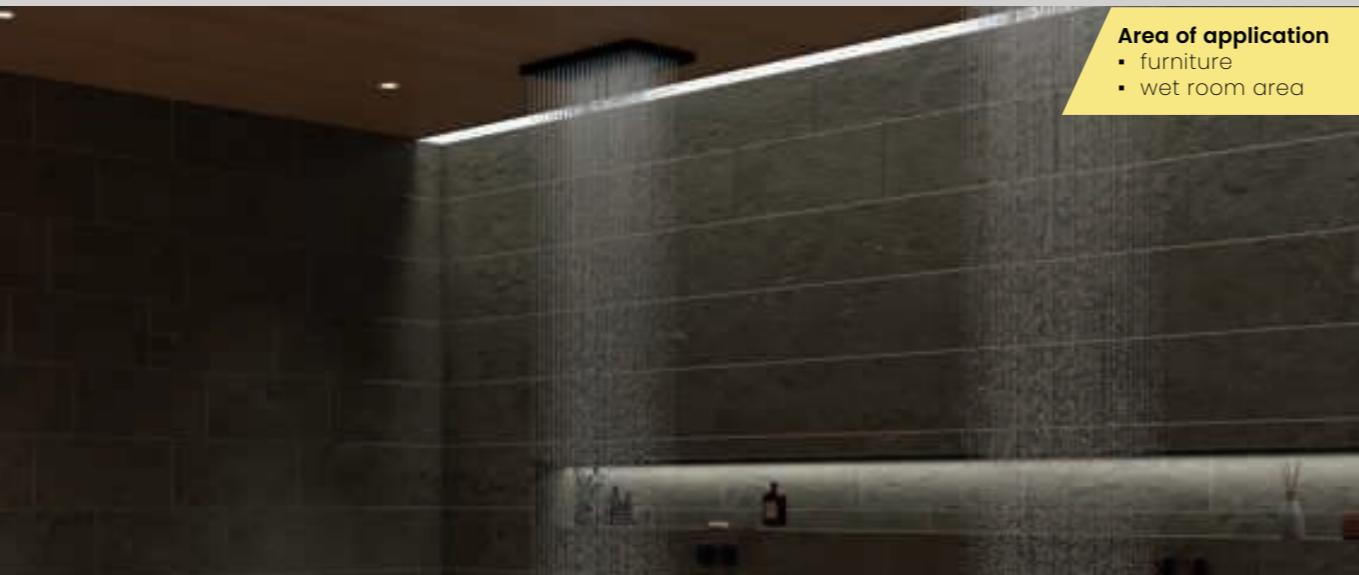


monochrome (2-pin) / multiwhite (2-pin), 4 mm

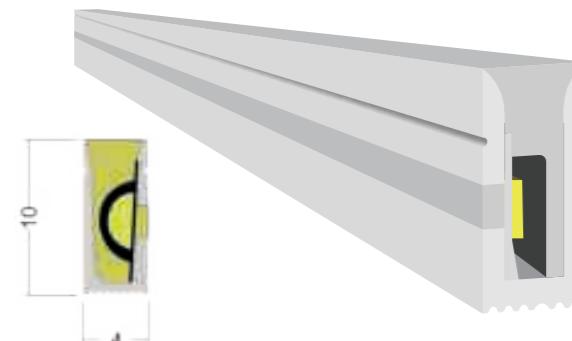


- HIGH CRI 93
- IP44
- SIDE RADIATION

LS4040



Area of application
▪ furniture
▪ wet room area

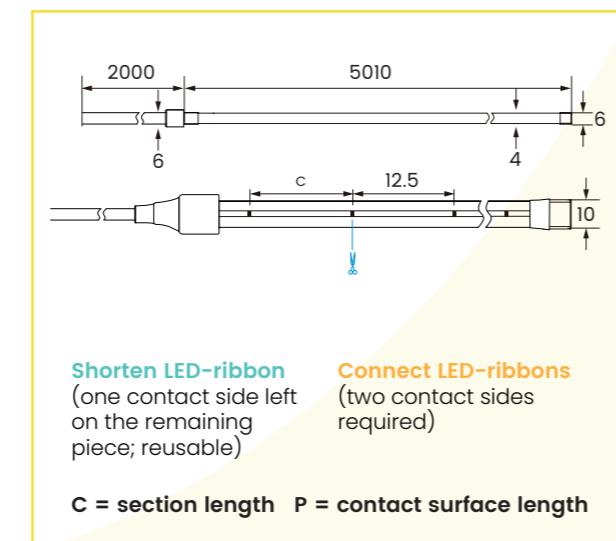


Illuminance in lx based on 1 m strip length:

	LED	120°	2700 K	5000 K	3000 K	4000 K
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°	2700 K	5000 K
250 mm			1095 lx	1225 lx
500 mm			275 lx	305 lx
750 mm			120 lx	135 lx
1000 mm			65 lx	75 lx

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)



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	EEI	m	mm	mm	5 m

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 an appropriate driver must be used for wet rooms as well.

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.



Accessories for installation and connection need to be ordered separately.



driver (integrated, smart, IP44)

see page 116



1 connecting cable 2 m incl.
clip connector (2-pin) 8 mm, 24V + 1 end cap and 2 shrink tubes

209.19.00.014



Profile aluminum AP1000

208.99.22.001

SILICONE LED-RIBBONS

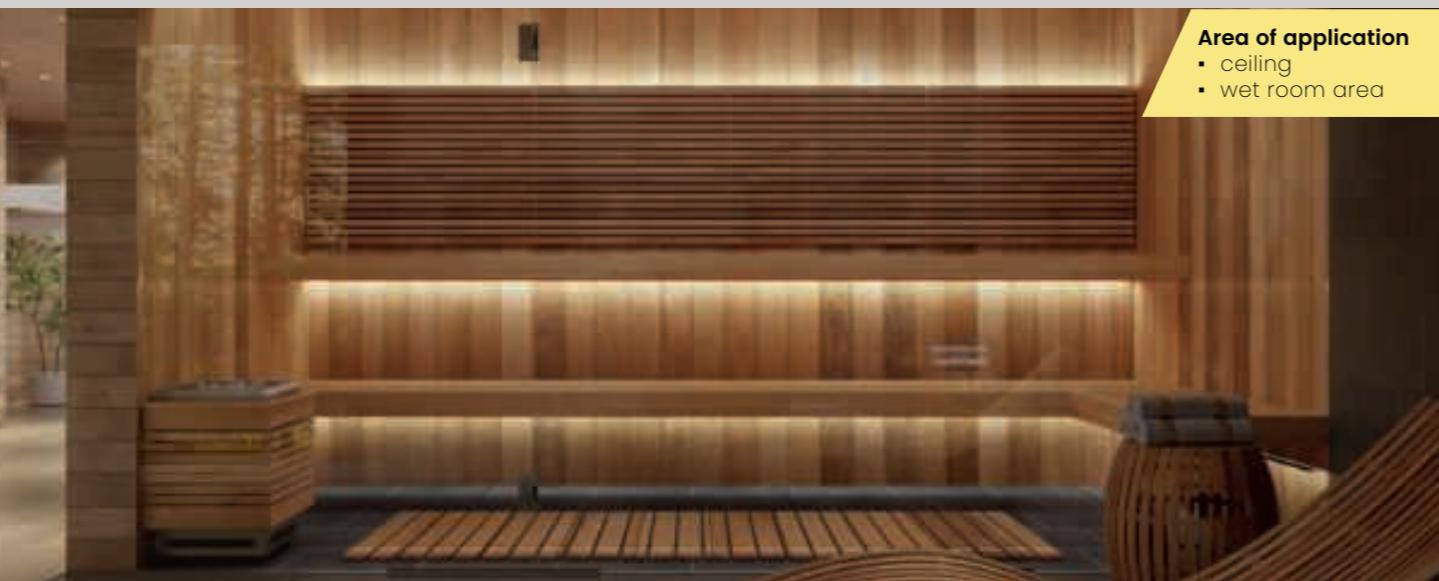


monochrome (2-pin) / multiwhite (2-pin), 10 mm

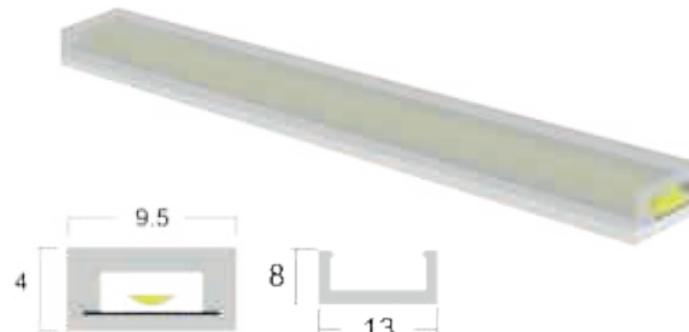


- HIGH CRI 93
- IP44
- SIDE RADIATION

LS4041



Area of application
▪ ceiling
▪ wet room area

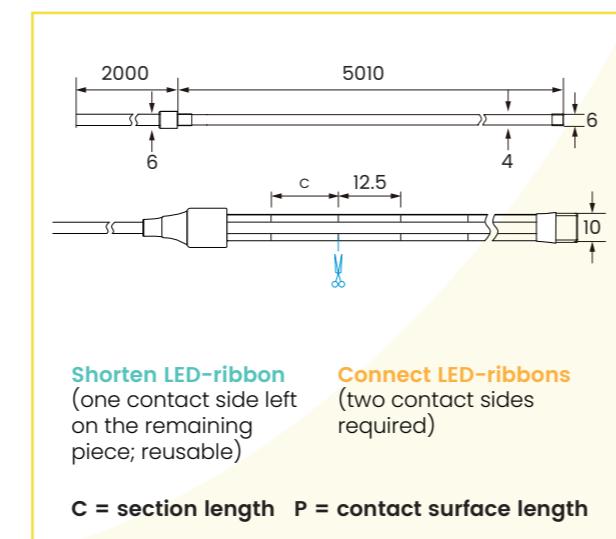


Illuminance in lx based on 1 m strip length:

	LED	120°	2700 K	5000 K	3000 K	4000 K
250 mm			2355 lx	2650 lx	2500 lx	2650 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°	2700 K	5000 K
250 mm			2060 lx	2355 lx
500 mm			515 lx	590 lx
750 mm			230 lx	260 lx
1000 mm			125 lx	145 lx

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



LS4041

Number of LEDs	Wat-tage	Lumi-nous flux	Lu-men effi-cacy	Colour Rendering Index CRI	Colour tem-pera-ture	Co-lour sys-tem	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	EEI	m	mm	mm	

LS4041 for ceiling, wet room area

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

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 an appropriate driver must be used for wet rooms as well.

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.



Additional connecting accessories need to be ordered separately



Drivers (integrated)

see page 127



Smart-drivers + control unit

see page 117



Drivers IP44

see page 129



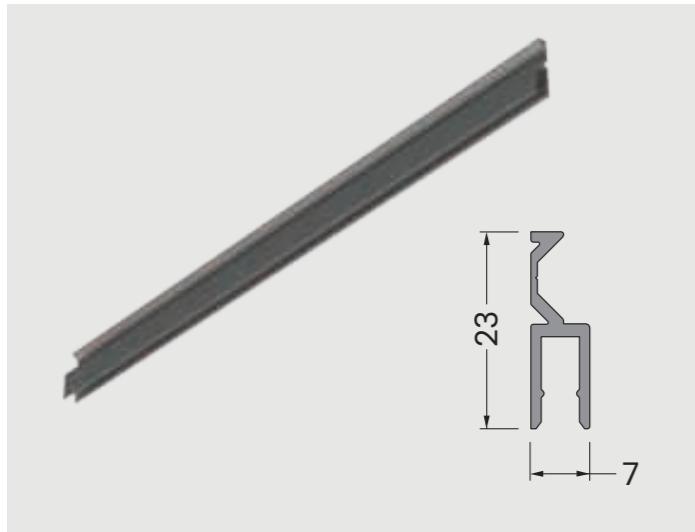
1 connecting cable 2 m incl.
clip connector (2-pin) 8 mm, 24V + 1 end cap and 2 shrink tubes

209.19.00.014

PROFILES

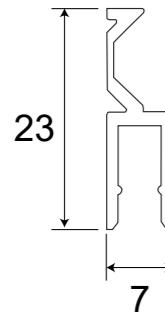
for LED-ribbons

AP1000



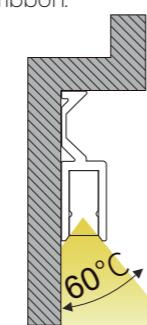
Material / colour (profile)	aluminum / grey
Material / colour (diffusor)	no diffusor
Dimensions (LxWxH)	1000 x 7 x 23 mm
Routing (width x depth)	---
Diffusor (width)	no diffusor
Transmittance diffusor	no diffusor
Suit for ribbons	4 x 10 mm silicone ribbons (LS4040)
Area of application	plinth
Installation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

Installation diagram:

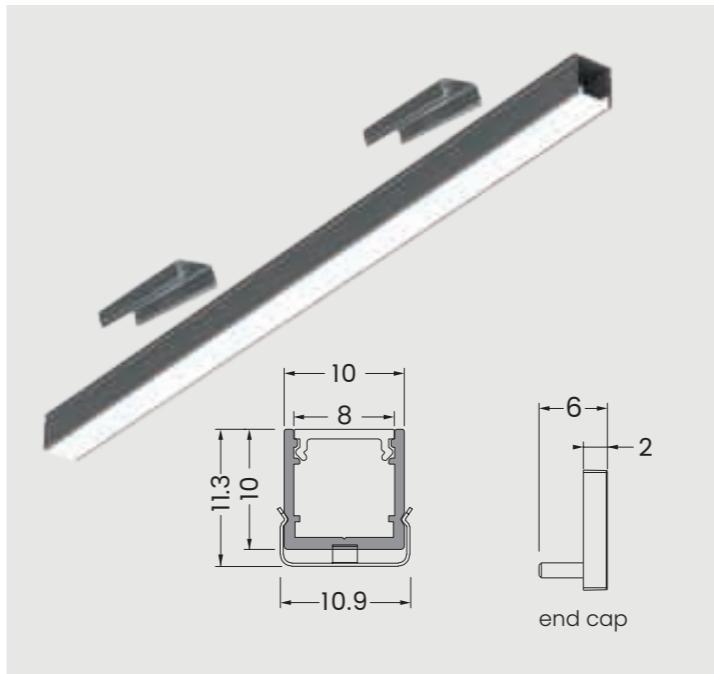


Beam angle:

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



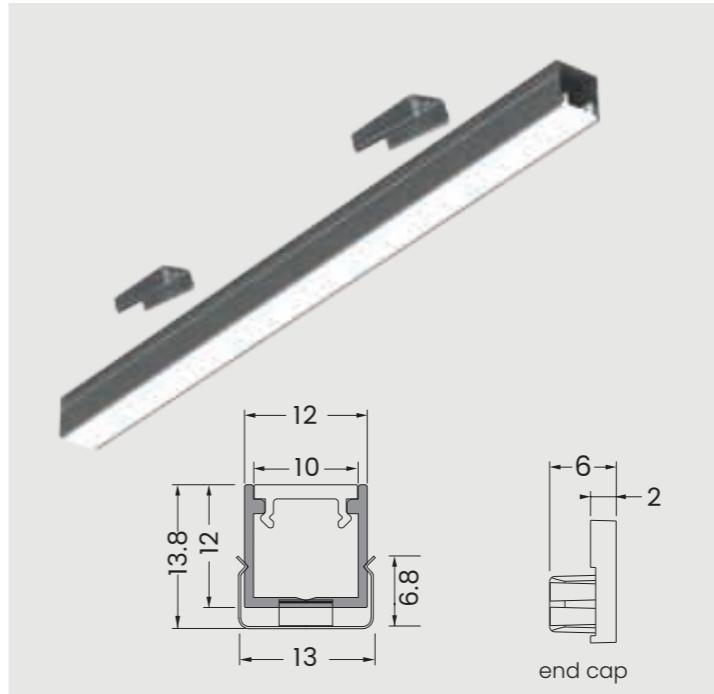
AP1001



Material / colour (profile)	aluminum / grey
Material / colour (diffusor)	plastic / milky white
Dimensions (LxWxH)	3000 x 10 x 10 mm
Routing (width x depth)	---
Diffusor (width)	8,4 mm
Transmittance diffusor	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

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

AP1002



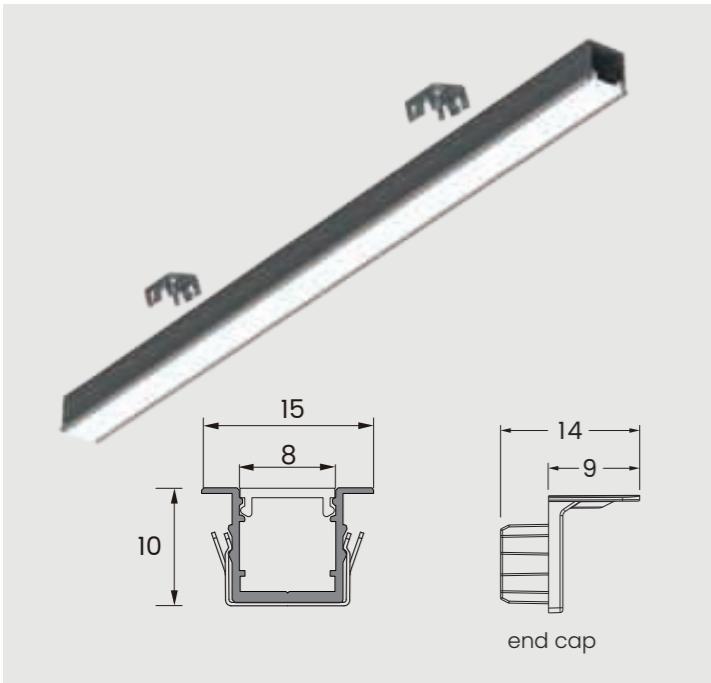
Material / colour (profile)	aluminum / grey
Material / colour (diffusor)	plastic / milky white
Dimensions (LxWxH)	3000 x 12 x 12 mm
Routing (width x depth)	---
Diffusor (width)	10,2 mm
Transmittance diffusor	80%
Suit for ribbons	8 mm ribbons
Area of application	cabinet, ceiling, upstairs
Installation	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

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

PROFILES

for LED-ribbons

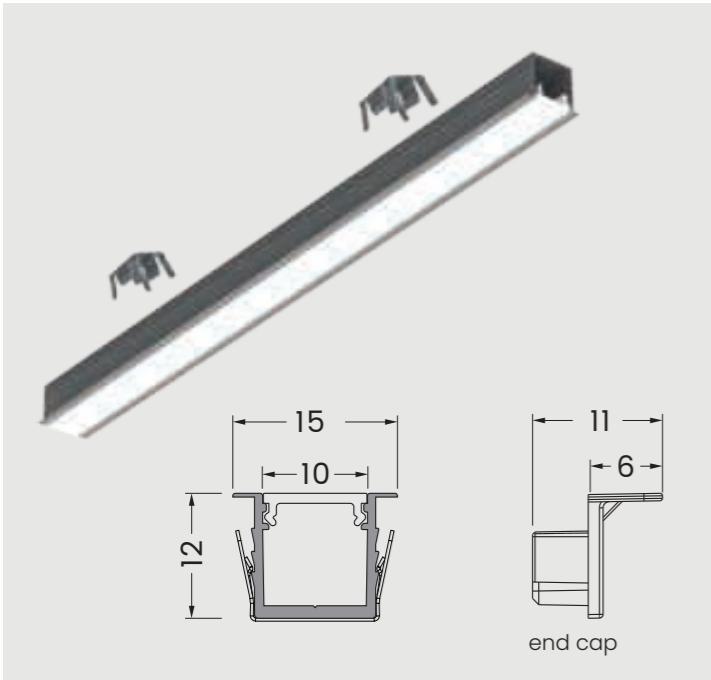
AP1003



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, 3 clips / m needed
Scope of delivery	1 profile incl. fixing 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

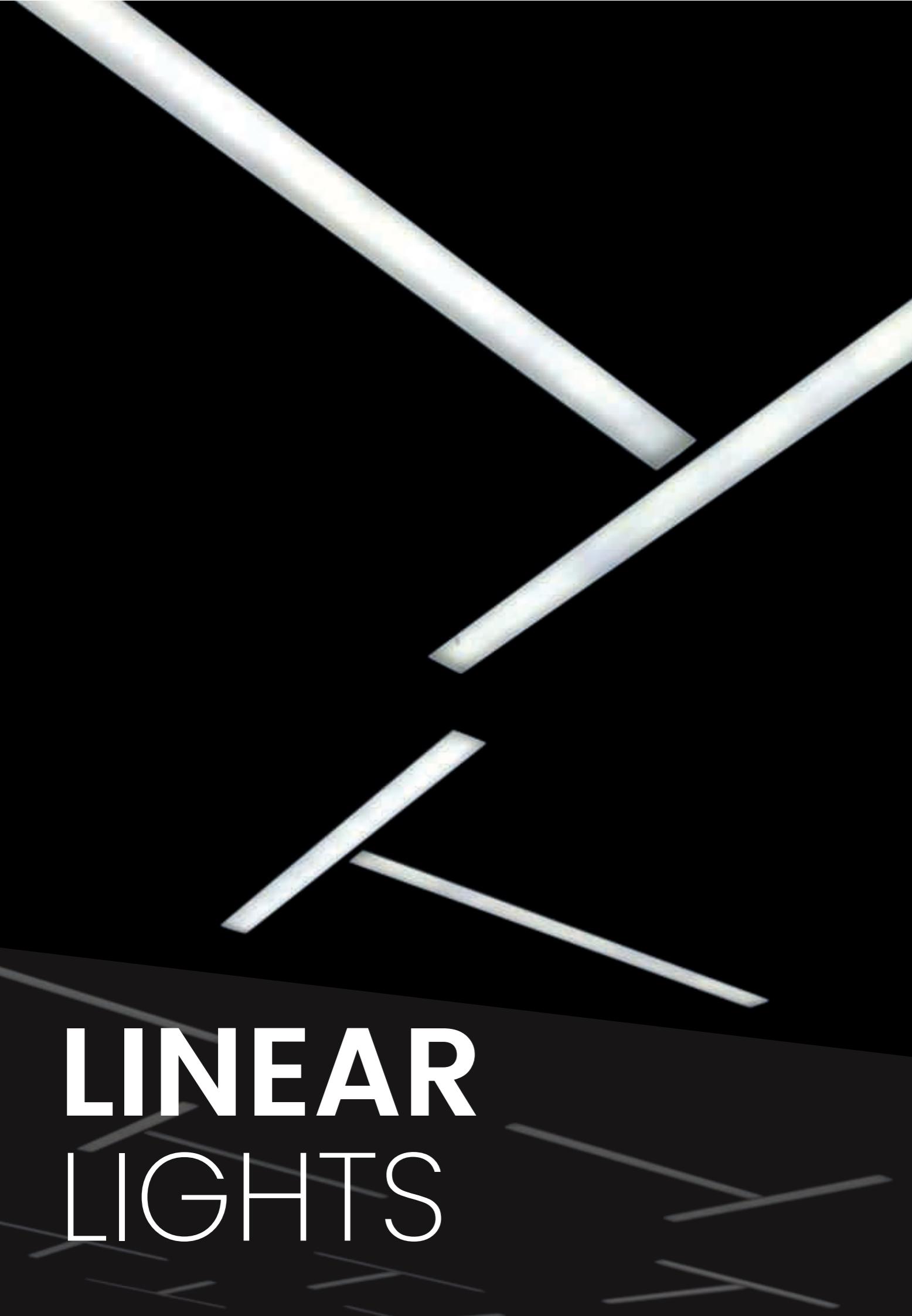


Material / colour (profile)	aluminum / grey
Material / colour (diffusor)	plastic / milky white
Dimensions (LxWxH)	3000 x 15 x 12 mm
Routing (width x depth)	12 x 12 mm
Diffusor (width)	10,2 mm
Transmittance diffusor	80%
Suit for ribbons	8 mm ribbons
Area of application	cabinet, ceiling
Installation	recessed mounting, 3 clips / m needed
Scope of delivery	1 profile incl. fixing 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



Linear light with clips for easy installation



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.

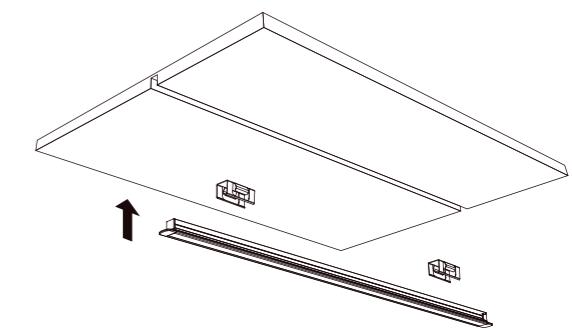


PLUG-AND-PLAY SYSTEM

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 LIGHTS

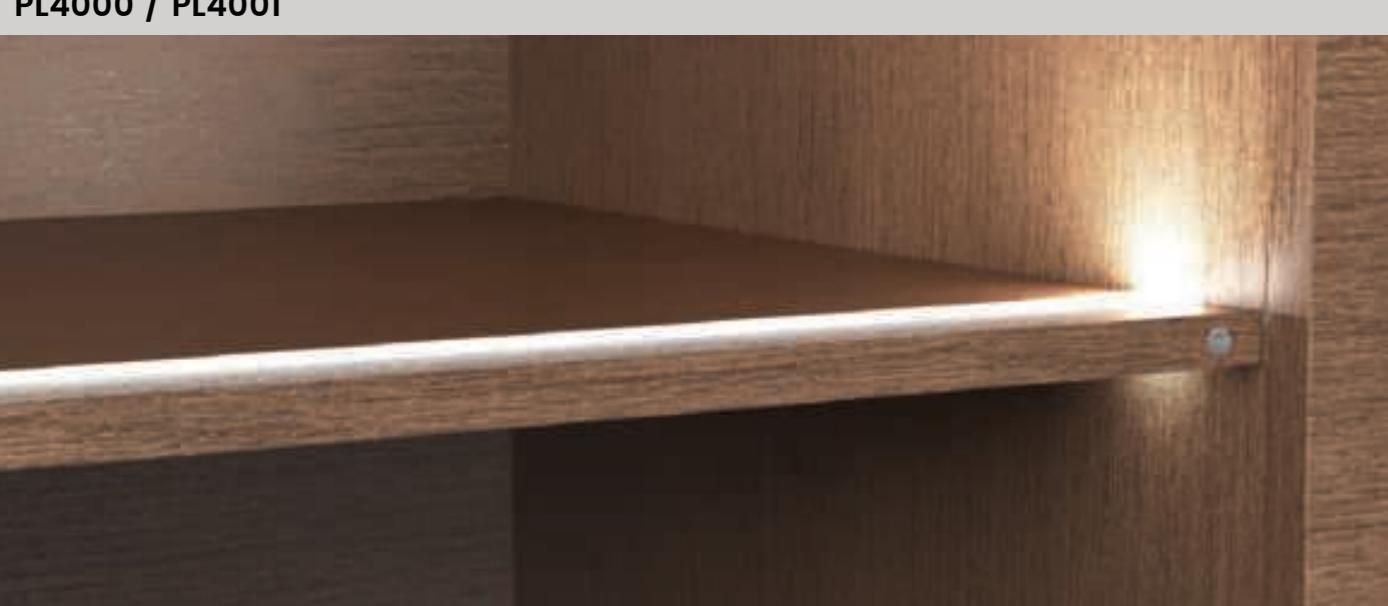


monochrome (2-pin) / multiwhite (2-pin),
middle recessed mounted

PL4000 / PL4001

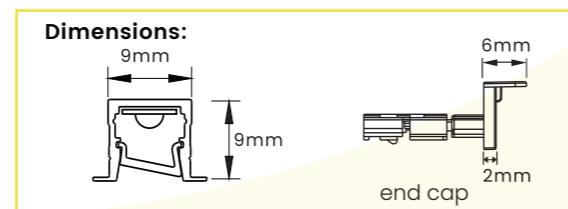


- HIGH CRI 93
- HIGHEST LUMINOUS FLUX
- CUT-TO-SIZE
- PLUG AND PLAY SYSTEM



	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		



PL4000 / PL4001

Number of LEDs	Wat-tage	Lumi-nous 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	EEI		mm	mm	

PL4000

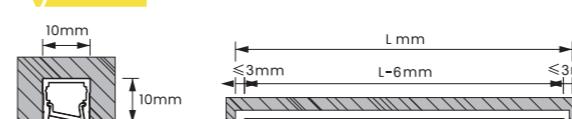
320	5	118	24	93	>50	3000	monochrome	A G	3000 x 12 x 9	10 x 10	201.10.22.001
	5	130	26	93	>50	4000					201.10.22.002
640	5	130	26	93	>50	2700 - 5000	multiwhite				201.11.22.001

PL4001 IR sensor

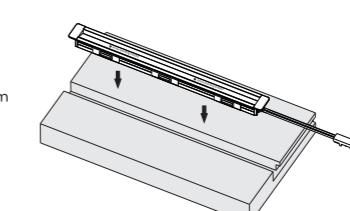
320	5	118	24	93	>50	3000	monochrome	A G	cut-to-size one side	1000 x 12 x 9	10 x 10	201.10.22.003
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Installation:

PL4000

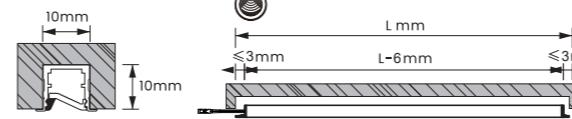


slot length = light length + 4 mm

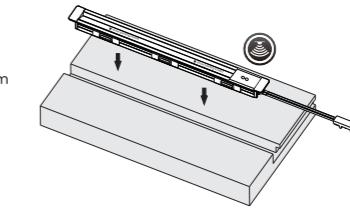


The light is recessed in the middle part of the wood-board

PL4001 IR sensor



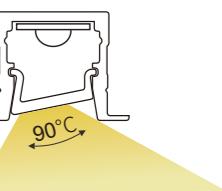
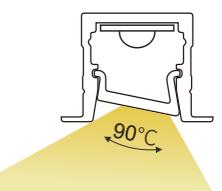
slot length = light length + 4 mm
cut-to-size on side without sensor



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 diffuser. Simply pull out the diffuser 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

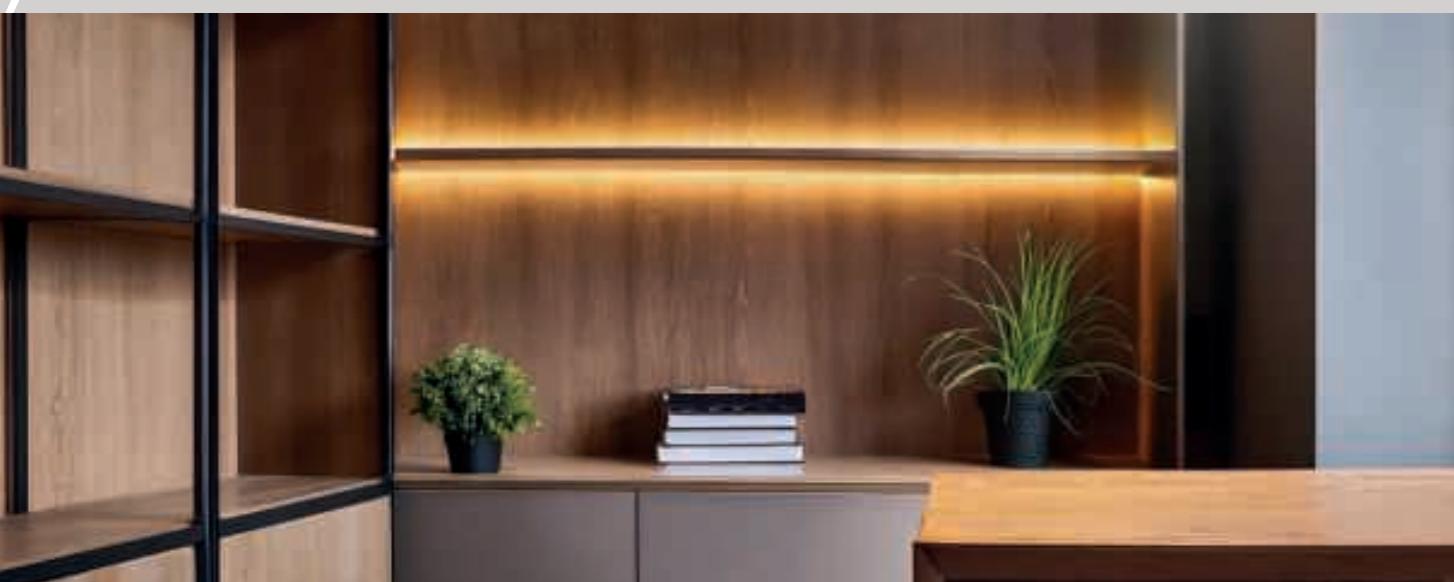
150.10.00.001

LINEAR LIGHTS



monochrome (2-pin) / multiwhite (2-pin),
rear mounted

PL4002



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



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

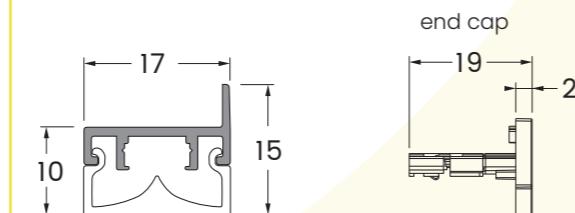


ORDER INFO:

Accessories for installation need to be ordered separately, please refer to the right.

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

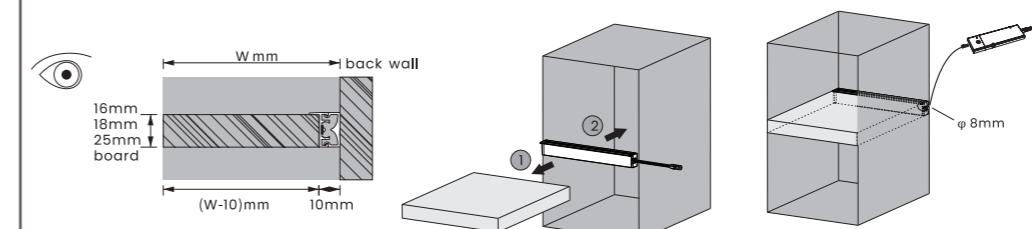
Dimensions:



PL4002

Number of LEDs	Wat-tage LEDs/m	Lumi-nous flux W/m	Lumen efficacy lm/W	Colour Rendering Index CRI		Colour temperature K	Colour system	Energy efficiency class EEI	Customized size	Dimensions (L x W x H) mm	Article number
				Ra	R9						
320	5	114	22	93	>50	3000	monochrome	A G	cut-to-size freely	3000 x 17 x 15	201.10.22.020
	5	126	25	93	>50	4000					201.10.22.021
640	5	126	25	93	>50	2700 - 5000	multiwhite				201.11.22.002

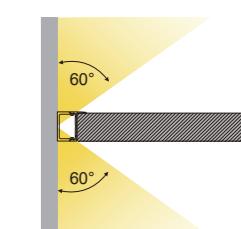
Installation diagram:



10mm gap should be reserved on the board

Hang at the back of the wood-board

Beam angle:



ORDER INFO

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

150.10.00.002

LINEAR LIGHTS



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



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

PL4011



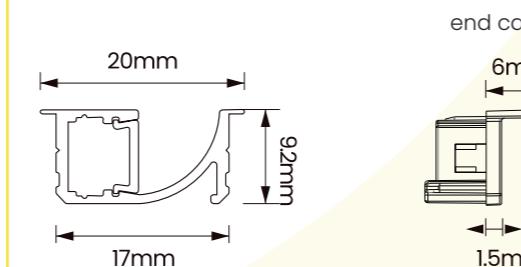
Material	aluminum
Surface finish	grey
Kind of LED	COB
Dimmable	yes
Degree of protection	IP20
Lifetime L80/B10	>50.000 h
Lifetime L70/B50	>80.000 h
Installation	recessed mounting + clip 3 clips / m needed
Scope of delivery	1 linear light



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	

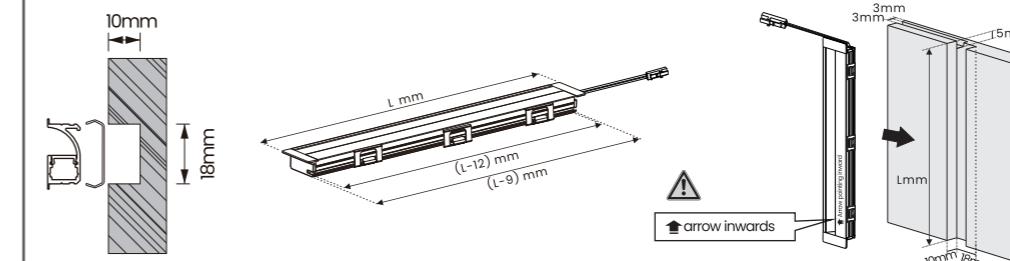
Dimensions:



PL4011

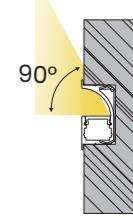
Number of LEDs	Wat-tage LEDs/m	Lumi-nous flux W/m	Lumen efficacy lm/W	Colour Rendering Index CRI		Colour temperature K	Colour system	Energy efficiency class EEI	Customized size	Dimensions (L x W x H) mm	Drill hole W x H mm	Article number
				Ra	R9							
320	5	50	10	93	>50	3000	monochrome	G	cut-to-size freely	3000 x 20 x 9,2	18 x 10	201.10.22.004
	5	55	11	93	>50	4000						201.10.22.005
	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



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



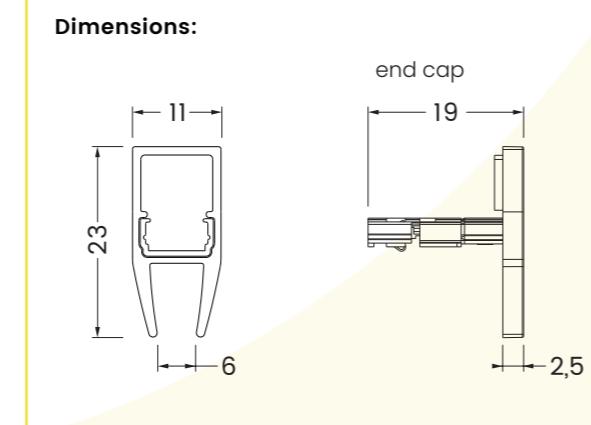
- HIGH CRI 93
- HIGHEST LUMINOUS FLUX
- CUT-TO-SIZE
- PLUG AND PLAY SYSTEM

PL4003



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
Suitable for	glass 6 mm
Installation	surface mounting
Scope of delivery	1 linear light

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

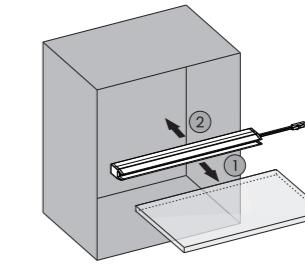
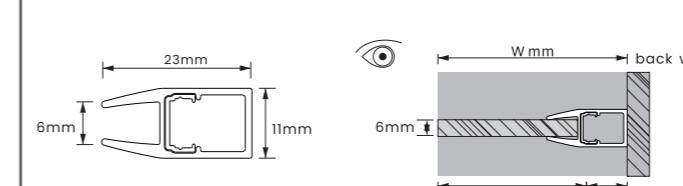


	250 mm	500 mm	750 mm	1000 mm	3000 K	4000 K
	496lx	496lx	55lx	31lx	496lx	496lx
					124lx	124lx
					55lx	55lx
					31lx	31lx

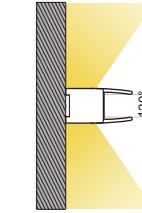
PL4003

Number of LEDs	Wat-tage	Lumi-nous 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		
320	5	298	60	93	>50	3000	monochrome	EEI			3000 x 23 x 11 mm	201.10.22.006
	5	328	66	93	>50	4000						201.10.22.007

Installation diagram:



Beam angle:



ORDER INFO



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

150.10.00.004

LINEAR LIGHTS



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



PL4004



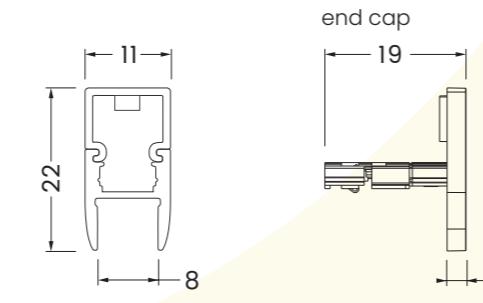
Material	aluminum
Surface finish	grey
Kind of LED	COB
Dimmable	yes
Degree of protection	IP20
Lifetime L80/B10	>50.000 h
Lifetime L70/B50	>80.000 h
Suitable for	glass 8 mm
Installation	surface mounting
Scope of delivery	1 linear light



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

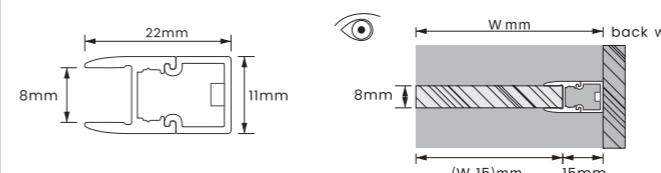
Dimensions:



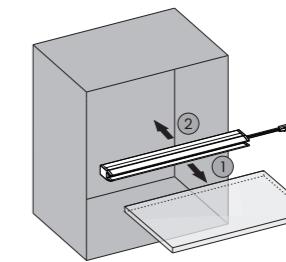
PL4004

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	
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				201.11.22.004

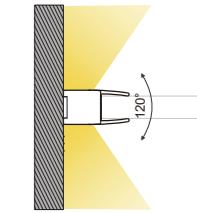
Installation diagram:



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



Beam angle:



ORDER INFO



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

150.10.00.005

LINEAR LIGHTS



monochrome (2-pin), drawer linear light



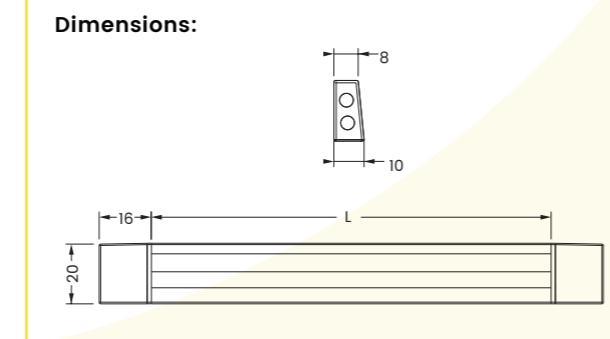
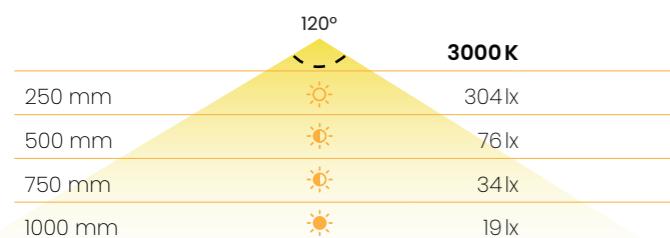
- HIGH CRI 93
- HIGHEST LUMINOUS FLUX
- CUT-TO-SIZE
- PLUG AND PLAY SYSTEM

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 incl. connecting cable 2 m

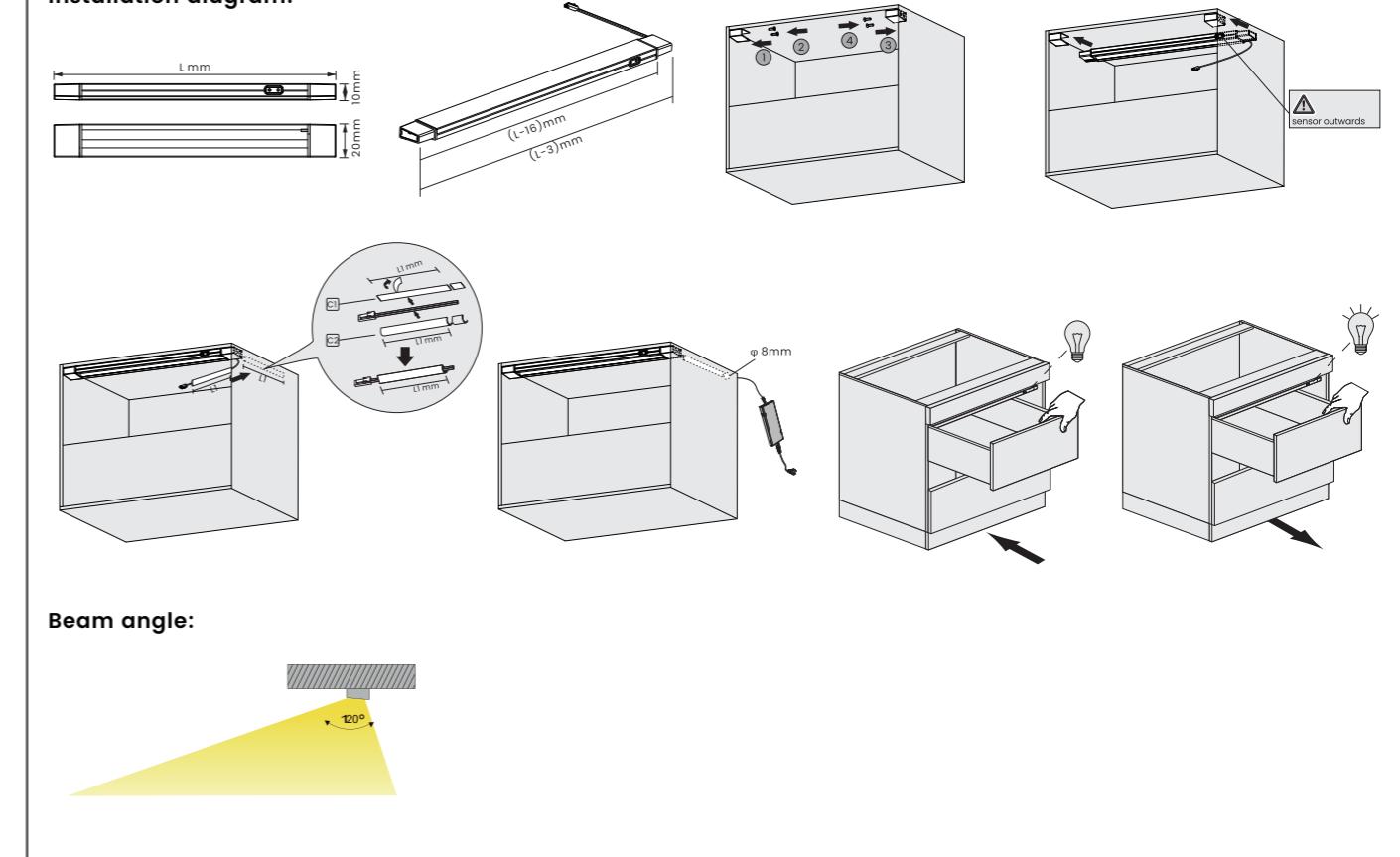
i PL4005 features an **integrated switch** that turns the light on when movement is detected. To ensure that the switch can also switch the light on when the driver is switched off, the light must be **connected to an uncontrolled output port of the driver**.



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	EEI		mm		
320	5	118	24	93	>50	3000	monochrome	G	cut-to-size one side	1000 x 20 x 10	201.10.22.010

Installation diagram:



LINEAR LIGHTS



monochrome (2-pin), wardrobe linear light



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

PL4006



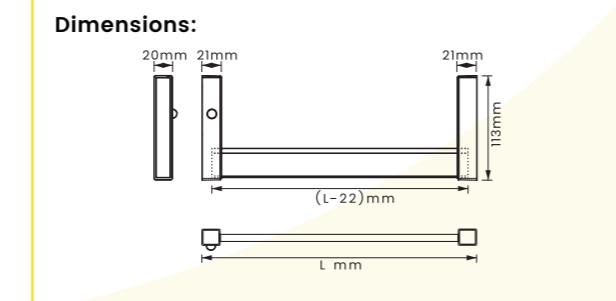
Material	aluminum
Surface finish	grey
Kind of LED	COB
Dimmable	no
Degree of protection	IP20
Lifetime L80/B10	>50.000 h
Lifetime L70/B50	>80.000 h
Installation	surface mounting
Scope of delivery	1 linear light

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**.



250 mm	336lx
500 mm	84lx
750 mm	37lx
1000 mm	21lx



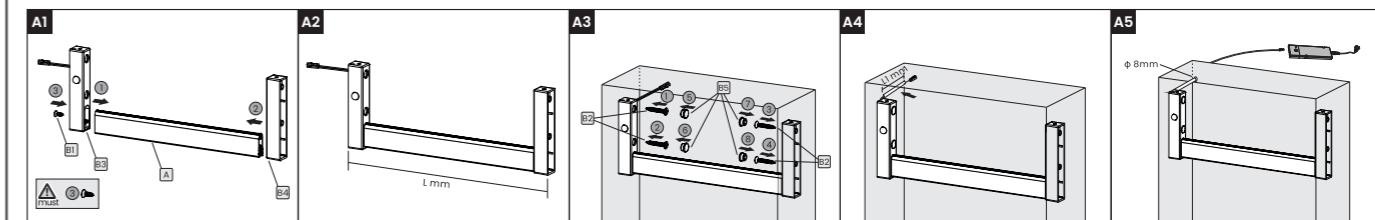
PL4006

Number of LEDs	Wat-tage	Lumi-nous flux	Lumen efficacy	Colour Rendering Index CRI	Colour temperature K	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		EEI		mm	
320	5	96	19	93	>50	3000	monochrome		3000 x 21 x 113	201.10.22.011

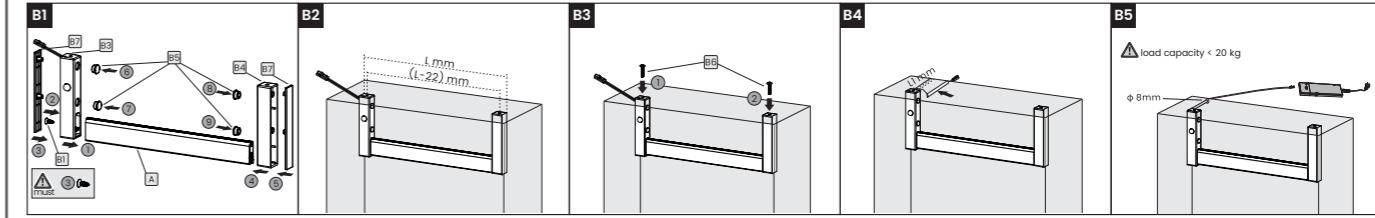


Installation diagram:

Side installation

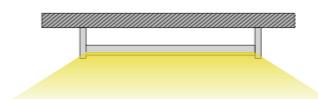


Top installation

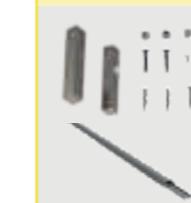


Beam angle:

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

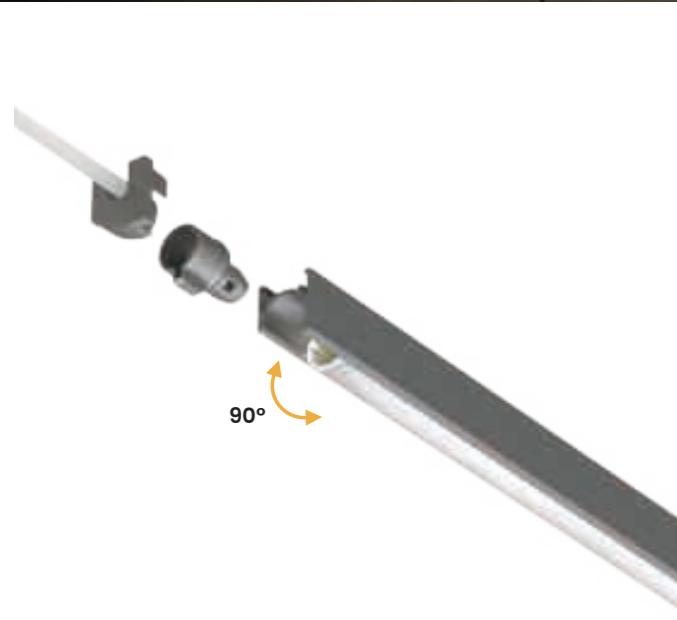


monochrome (2-pin) / multiwhite (2-pin),
under cabinet

PL4007



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

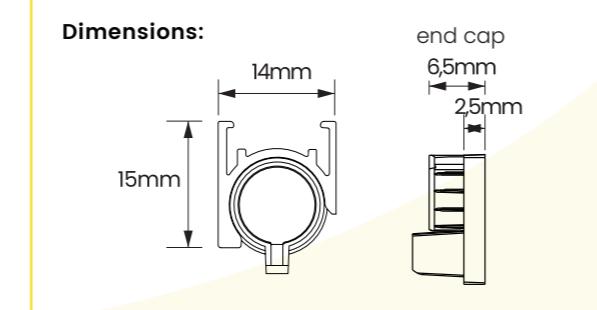


	120°	2700K	5000K	3000K	4000K
250 mm	585lx	787lx	650lx	715lx	
500 mm	270lx	363lx	300lx	330lx	
750 mm	144lx	194lx	160lx	176lx	
1000 mm	72lx	97lx	80lx	88lx	

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 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.

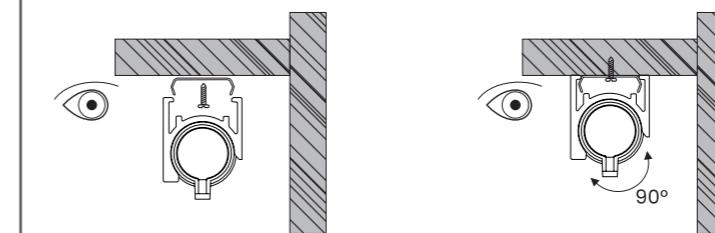
ORDER INFO:
Accessories for installation need to be ordered separately, please refer to the right.



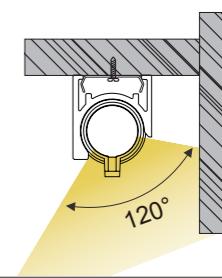
PL4007

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	
320	5	350	70	93	>50	3000	monochrome	EEI		3000 x 15 x 14	201.10.22.012
		375	75	93	>50	4000					201.10.22.013
	5	375	75	93	>50	2700 - 5000	multiwhite				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



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

PL4008



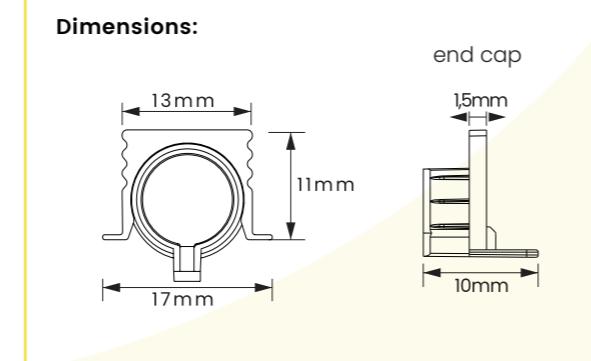
- HIGH CRI 93
- HIGH LUMINOUS FLUX
- 90° TURNABLE LIGHT BEAM



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	recessed mounting + clip 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.

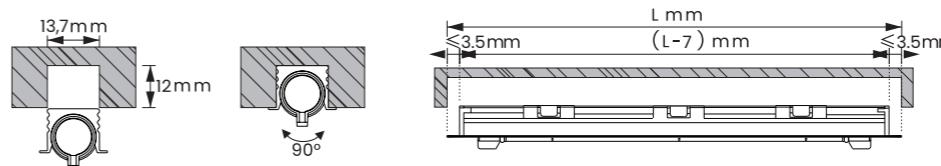


	120°	2700K	5000K	3000K	4000K
250 mm	585lx	787lx	650lx	715lx	
500 mm	270lx	363lx	300lx	330lx	
750 mm	144lx	194lx	160lx	176lx	
1000 mm	72lx	97lx	80lx	88lx	

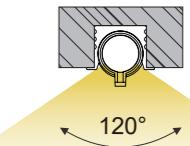
PL4008

Number of LEDs	Wat-tage	Lumi-nous 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		
320	5	350	70	93	>50	3000	monochrome	EEI		3000 x 17 x 11	13,7 x 12	201.10.22.014
	5	375	75	93	>50	4000						201.10.22.015
	640	5	375	75	93	>50	2700 - 5000	multiwhite				201.11.22.006

Installation diagram:



Beam angle:



ORDER INFO



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

201.99.22.003

LINEAR LIGHTS

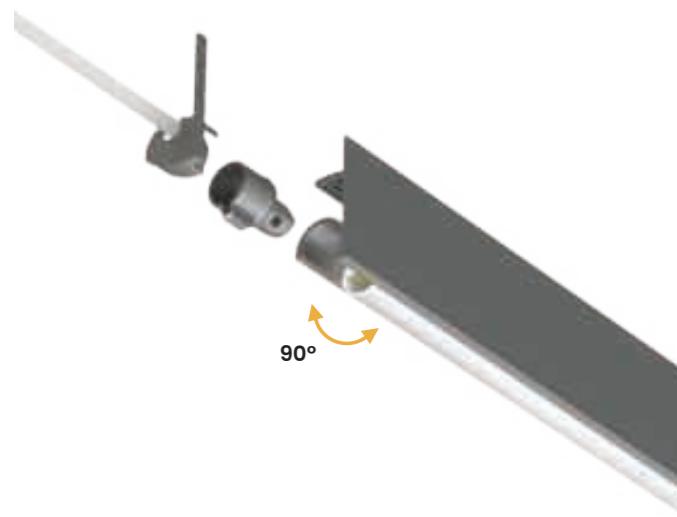
24V

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

PL4009



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

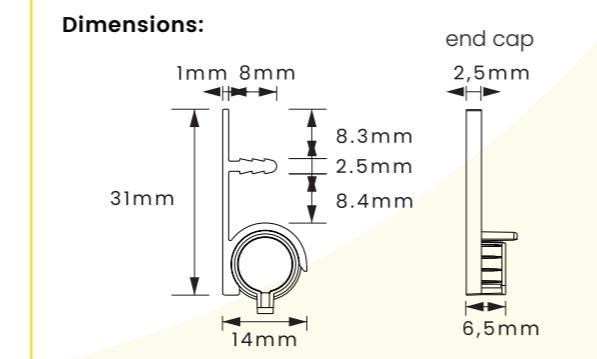


	120°	2700K	5000K	3000K	4000K
250 mm	585lx	787lx	650lx	715lx	
500 mm	270lx	363lx	300lx	330lx	
750 mm	144lx	194lx	160lx	176lx	
1000 mm	72lx	97lx	80lx	88lx	

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

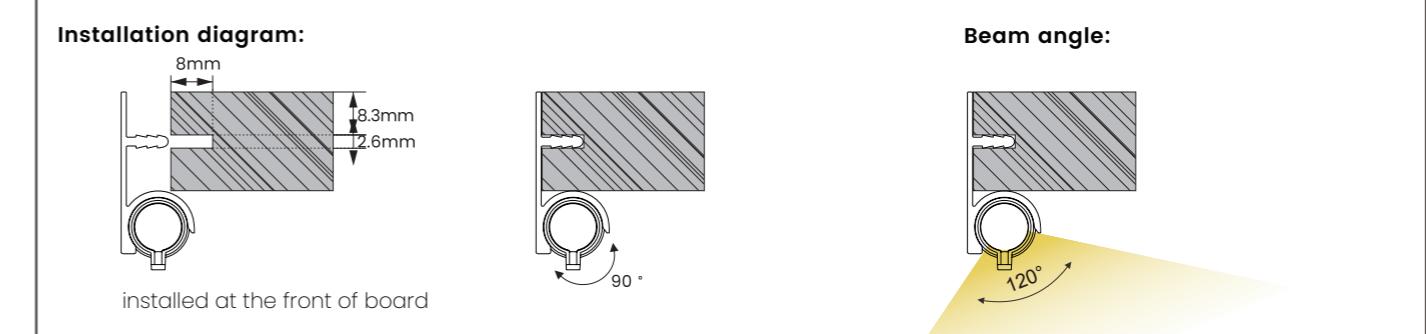
i The light can be **turned up to 90°** within the profile. Simply turn the pin to adjust to the desired position.

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



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		
320	5	350	70	320	93	>50	3000	monochrome		3000 x 14 x 31	2,6 x 8	201.10.22.016
	5	375	75									201.10.22.017
640	5	375	75	640	93	>50	2700 - 5000	multiwhite		cut-to-size freely		201.11.22.007



ORDER INFO



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

LINEAR LIGHTS

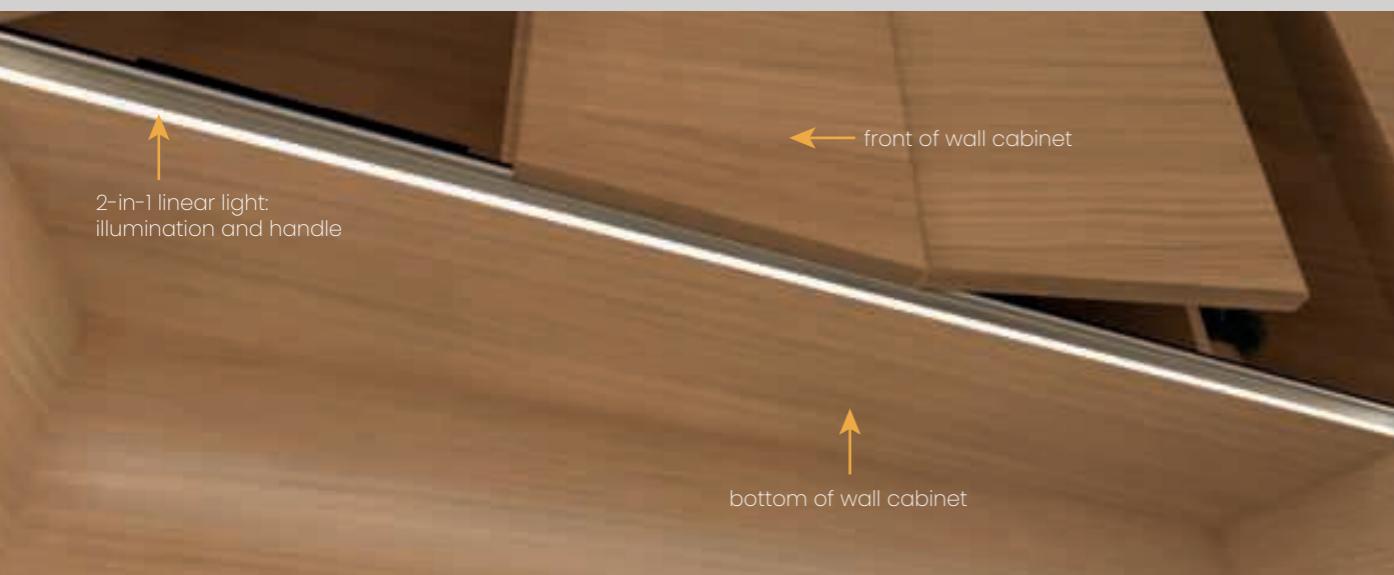


monochrome (2-pin) / multiwhite (2-pin),
under cabinet

PL4010



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

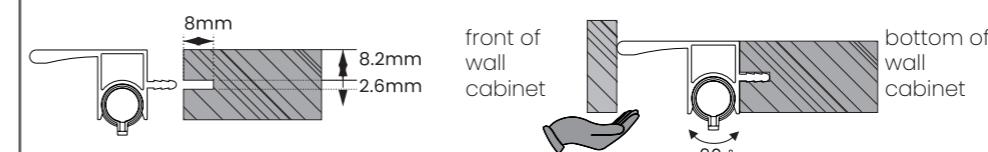


	120°	2700K	5000K	3000K	4000K
250 mm		585 lx	787 lx	650 lx	715 lx
500 mm		270 lx	363 lx	300 lx	330 lx
750 mm		144 lx	194 lx	160 lx	176 lx
1000 mm		72 lx	97 lx	80 lx	88 lx

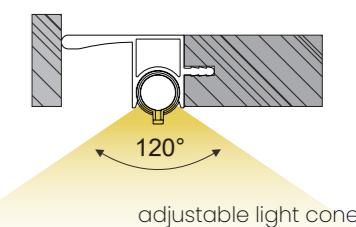
PL4010

Number of LEDs	Wat-tage	Lumi-nous 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	EEI		mm	mm	
320	5	350	70	93	>50	3000		monochrome	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	multiwhite	cut-to-size freely			201.11.22.008

Installation diagram:



Beam angle:



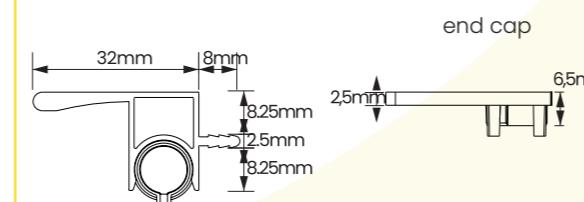
ORDER INFO



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

201.99.22.004

Dimensions:





ILLUMINATED GLASS SHELVES



ILLUMINATED GLASS SHELVES

24V

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

PL4012



Material	aluminum
Surface finish	aluminum / black
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 shelf incl. connecting cable 2 m and installation material

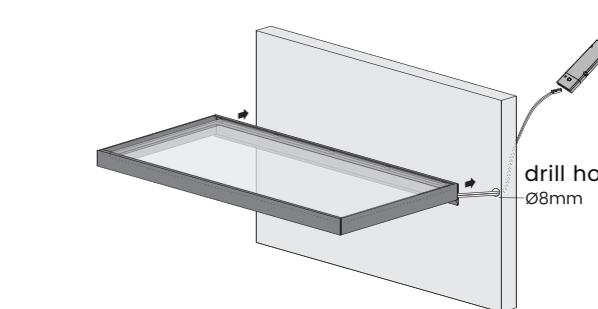
Number of LEDs	Wattage	Luminous flux	Lumen efficacy	Colour Rendering Index CRI	Colour temperature	Colour system	Energy efficiency class	Dimensions (L x W x H)	Article number
LEDs/m	W	lm	lm/W	Ra	R9	K	EEI	mm	
BLACK MATT									
320	3,0 (600 mm) 4,5 (900 mm)	50 (600 mm) 75 (900 mm)	16,7	90	>30	3000	monochrome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



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



DL DOWNLIGHTS

24V

monochrome (2-pin), 62 x 62 mm



SL4001

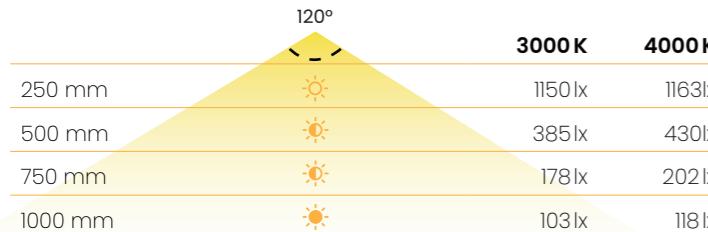
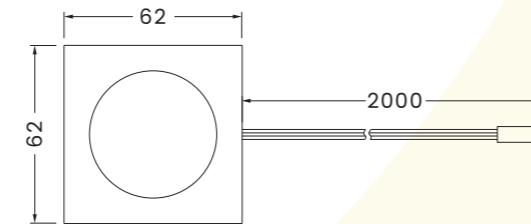


Material	aluminum
Surface finish	silver
Dimensions (L x W x H)	62 x 62 x 7,8 mm
Dimmable	yes
Degree of protection	IP20
Lifetime L80/B10	> 50.000 h
Lifetime L70/B50	> 80.000 h
Installation	surface mounting
Scope of delivery	1 light incl. connecting cable 2 m

- HIGH CRI 93
- HIGH LUMINOUS FLUX



Dimensions:



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

DL DOWNLIGHTS

24V

monochrome (2-pin), Ø 62 mm



SL4002

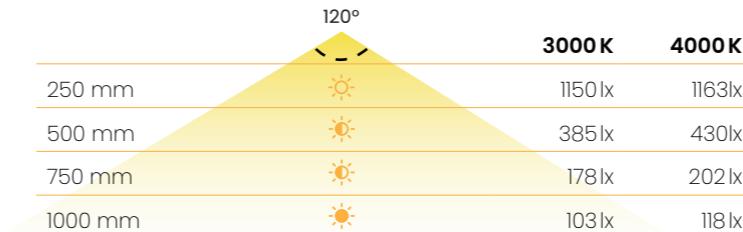
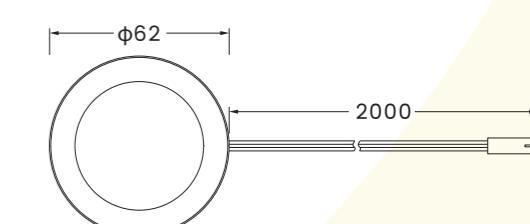


Material	aluminum
Surface finish	silver
Dimensions (Ø x H)	62 x 7,8 mm
Dimmable	yes
Degree of protection	IP20
Lifetime L80/B10	> 50.000 h
Lifetime L70/B50	> 80.000 h
Installation	surface mounting
Scope of delivery	1 light incl. connecting cable 2 m

- HIGH CRI 93
- HIGH LUMINOUS FLUX



Dimensions:



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



DNOWLIGHTS

24V

monochrome (2-pin), 192 x 112 mm



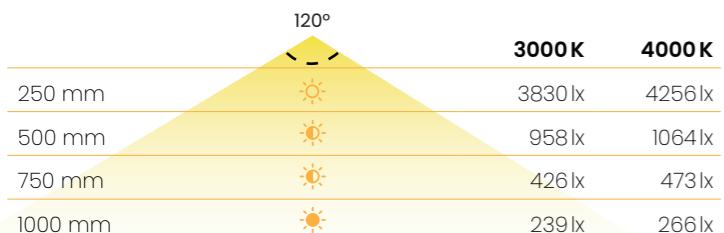
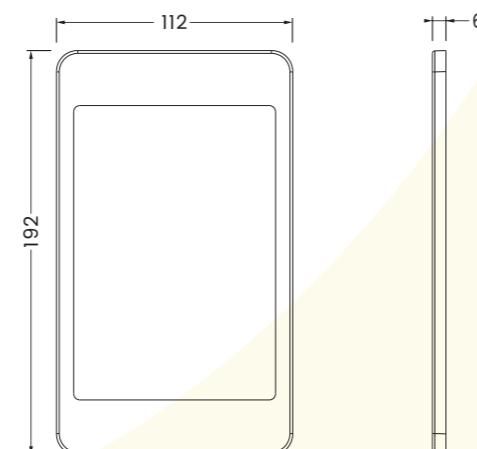
SL4003



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:



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	
5	537	107	93	>50	3000	monochrome	202.10.22.005
5	596	119	93	>50	4000	monochrome	202.10.22.006

IP20



DL DOWNLIGHTS

24V

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



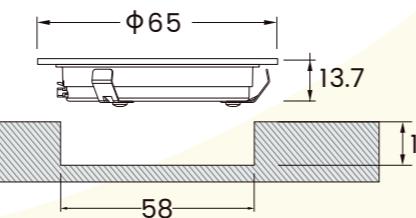
SL4004



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

Dimensions:



ORDER INFO:

Base for surface mounting needs to be ordered separately.



Base for surface mounting incl. fixings

	120°	2700 K	5000 K	3000 K	4000 K
250 mm	2016 lx	2693 lx	2240 lx	2448 lx	
500 mm	504 lx	673 lx	560 lx	612 lx	
750 mm	224 lx	299 lx	249 lx	272 lx	
1000 mm	126 lx	168 lx	140 lx	153 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	299	120	93	>50	3000		203.10.22.004
2,5	305	122	93	>50	4000		203.10.22.005
2,5	305	122	93	>50	2700-5000		203.11.22.003



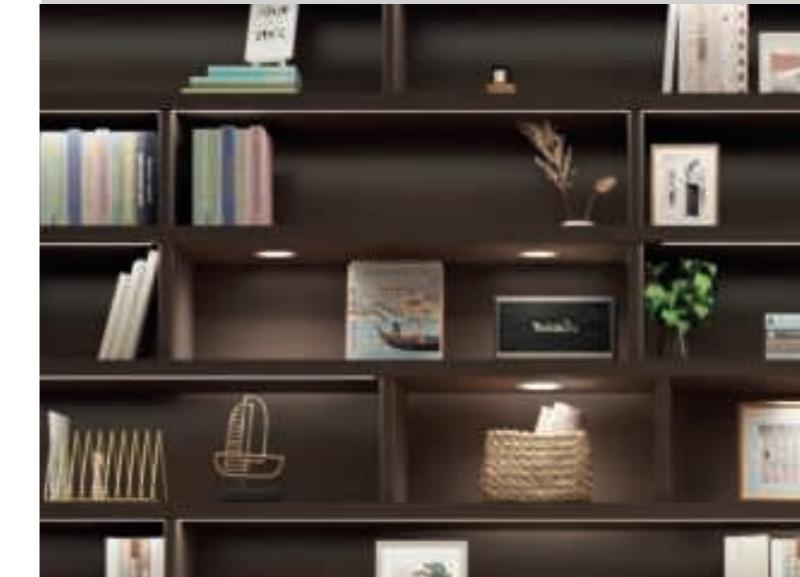
DL DOWNLIGHTS

24V

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



SL4005

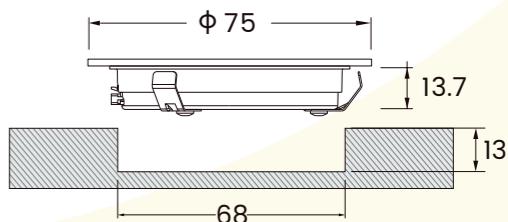


Material	aluminum + stainless steel
Surface finish	stainless steel
Dimensions (Ø x H)	75 x 13,7 mm
Drill hole (Ø x H)	68 x 13 mm
Dimmable	yes
Degree of protection	IP20
Lifetime L80/B10	> 50.000 h
Lifetime L70/B50	> 80.000 h
Installation	recessed or surface mounting
Scope of delivery	1 light incl. connecting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

- HIGH CRI 93
- HIGH LUMINOUS FLUX



Dimensions:



ORDER INFO:

Base for surface mounting needs to be ordered separately.



Base for surface mounting incl. fixings

	120°	2700 K	5000 K	3000 K	4000 K
250 mm	2419 lx	3186 lx	2688 lx	2896 lx	
500 mm	605 lx	796 lx	672 lx	724 lx	
750 mm	269 lx	354 lx	299 lx	322 lx	
1000 mm	151 lx	199 lx	168 lx	181 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	
3	316	105	93	>50	3000		203.10.22.006
3	366	122	93	>50	4000		203.10.22.007
3	366	122	93	>50	2700-5000		203.11.22.004



DL DOWNLIGHTS

24V

monochrome (2-pin), Ø 41 mm



SL4006

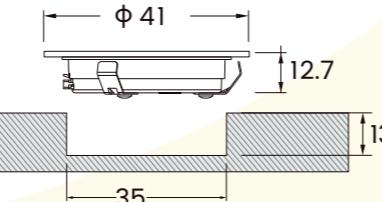


Material	aluminum + stainless steel
Surface finish	silver
Dimensions (Ø x H)	41 x 12,7 mm
Drill hole (Ø x H)	35 x 13 mm
Dimmable	yes
Degree of protection	IP20
Lifetime L80/B10	>50.000 h
Lifetime L70/B50	>80.000 h
Installation	recessed or surface mounting
Scope of delivery	1 light incl. connecting cable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

- HIGH CRI 93
- HIGH LUMINOUS FLUX



Dimensions:



ORDER INFO:

Base for surface mounting needs to be ordered separately.



Base for surface mounting incl. 208.99.22.005 fixings

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

DL DOWNLIGHTS

24V

monochrome (2-pin), Ø 75 mm



SL4007

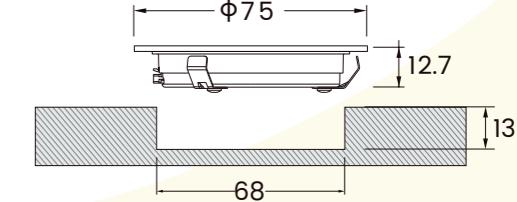


Material	aluminum + stainless steel
Surface finish	silver
Dimensions (Ø x H)	75 x 12,7 mm
Drill hole (Ø x H)	68 x 13 mm
Dimmable	yes
Degree of protection	IP20
Lifetime L80/B10	>50.000 h
Lifetime L70/B50	>80.000 h
Installation	recessed or surface mounting
Scope of delivery	1 light incl. connecting cable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

- HIGH CRI 93
- HIGH LUMINOUS FLUX



Dimensions:



ORDER INFO:

Base for surface mounting needs to be ordered separately.



Base for surface mounting incl. 208.99.22.004 fixings

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

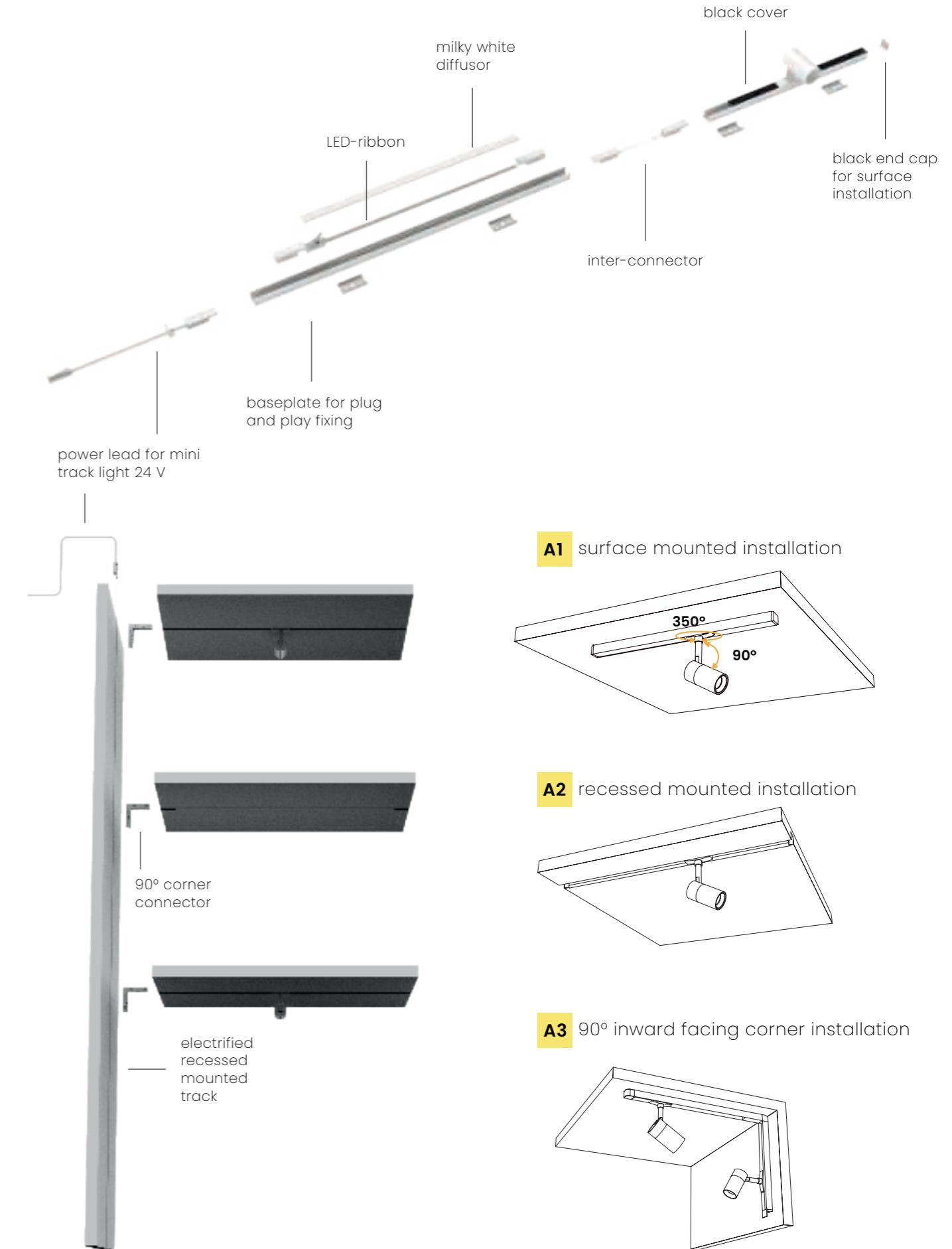
Wattage	Luminous flux	Lumen efficacy	Colour Rendering Index CRI	Colour temperature	Colour system	Energy efficiency class	Article number
W	lm	lm/W	Ra	R9	K	EEI	
1	117	117	93	>50	3000	monochrome	
1	125	125	93	>50	4000	monochrome	
							203.10.22.008
							203.10.22.009

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	
3	386	129	93	>50	4000	monochrome	
							203.10.22.010
							203.10.22.011

MINI TRACK LIGHTS



Highlight painting & pictures,
objects in furniture and
inside rooms



MINI TRACK LIGHTS

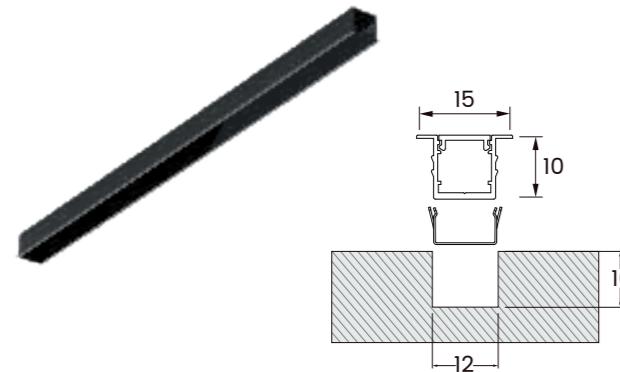


track 15 x 10 mm / 10 x 10 mm

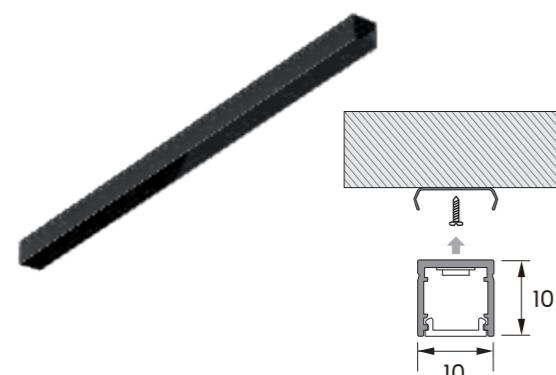
TL4002 / TL4003



TL4002 recessed mounted



TL4003 surface mounted



Material	aluminum rail & plastic cover
Surface finish	rail & cover black
Dimensions (L x W x H)	TL4002: 3000 x 15 x 10 mm TL4003: 3000 x 10 x 10 mm
Drill hole (TL4002)	12 x 10 mm
Dimmable	yes (if illuminated)
Degree of protection	IP20
Scope of delivery	1 track 3 m incl. black cover
Article number	208.19.21.001 (TL4002) 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 diffusor separately, please refer to the right.

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



- ULTRA SLIM SYSTEM
- MODULAR SYSTEM

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
	SMD LED 24V, 5 mm, 3000K, 5 W/m, 950 lm/m (ref. p. 023) SMD LED 24V, 5 mm, 4000K, 5 W/m, 975 lm/m (ref. p. 023)	200.10.00.002 200.10.00.003
	SMD LED 24V, 5 mm, 3000K, 10 W/m, 1900 lm/m (ref. p. 023) SMD LED 24V, 5 mm, 4000K, 10 W/m, 1950 lm/m (ref. p. 023)	200.10.00.006 200.10.00.007
	Milky white diffusor 1000 x 8 x 3 mm, transmittance 80% (5 pcs) for illuminated track	204.99.00.001
	Spot 24V, 1 W, 160 lm, MC 3000K (ref. p. 085) Spot 24V, 1 W, 160 lm, MC 4000K (ref. p. 085)	204.10.21.001 204.10.21.002
	Spot 24V, 3 W, 450 lm, MC 3000K (ref. p. 085) Spot 24V, 3 W, 450 lm, MC 4000K (ref. p. 085)	204.10.21.003 204.10.21.004

MINI TRACK LIGHTS



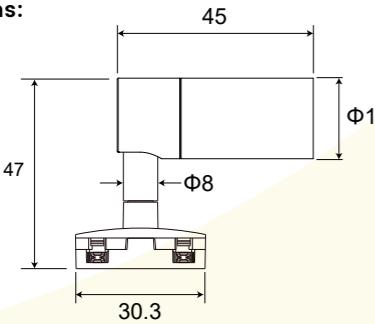
spot, monochrome (2-pin),
Ø 18 x 45 x 47 mm

TL4001 / TL4005



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

Dimensions:



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

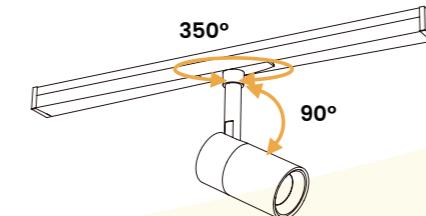


TL4001 / TL4005

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	EEI	
TL4001					3000 4000	monochrome	204.10.21.001
1	135	135	93	>50	3000 4000	monochrome	204.10.21.002
TL4005					3000 4000	monochrome	204.10.21.003
3	390	130	93	>50	3000 4000	monochrome	204.10.21.004

TL4001	25°	3000 K	4000 K	TL4005	25°	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

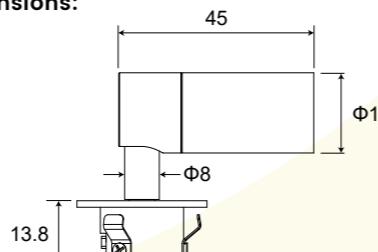
	250 mm	3000 K	4000 K
250 mm	8256 lx	8464 lx	
500 mm	2064 lx	2116 lx	
750 mm	917 lx	940 lx	
1000 mm	516 lx	529 lx	

Material	aluminum
Surface finish	black
Dimensions	Ø 18 x 45 x 43.2 mm
Drill hole	Ø 25 x 13 mm
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 light incl. connecting cable 2 m



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

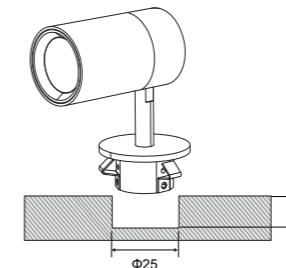
Dimensions:



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	EEI	
3	390	130	93	>50	3000 4000	monochrome	 205.10.21.001
							205.10.21.002

Installation diagram:



SHOWCASE LIGHTS

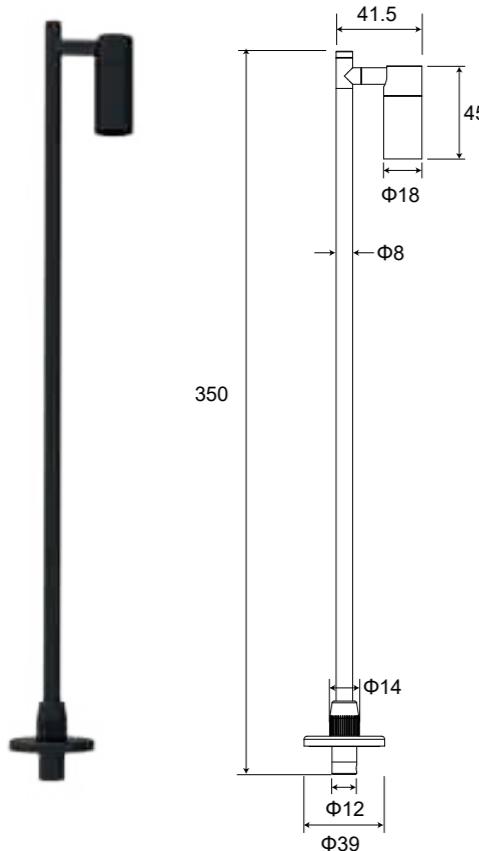
24V

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



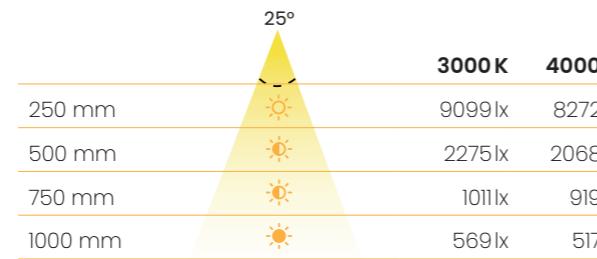
- HIGH CRI 93
- HIGH LUMINOUS FLUX
- BEAM ANGLE 25°

SC4001



Material	aluminum
Surface finish	black
Dimensions	Ø 18 x 45 x 350 mm
Drill hole	Ø 14 mm
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 light incl. connecting cable 2 m

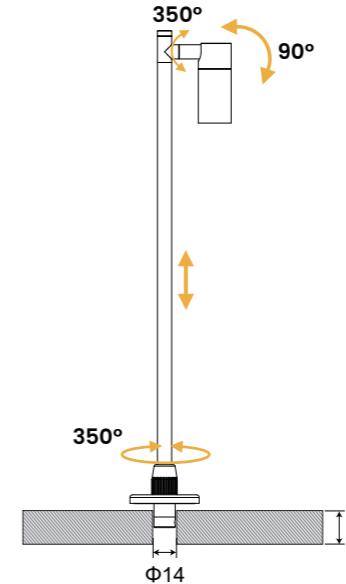
i Accentuated lighting thanks to narrow beam angle of 25°. Particularly suitable for highlighting individual objects.



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	EEI	
3	390	130	93	>50	3000 4000	monochrome	205.10.21.003
							205.10.21.004

Installation diagram:



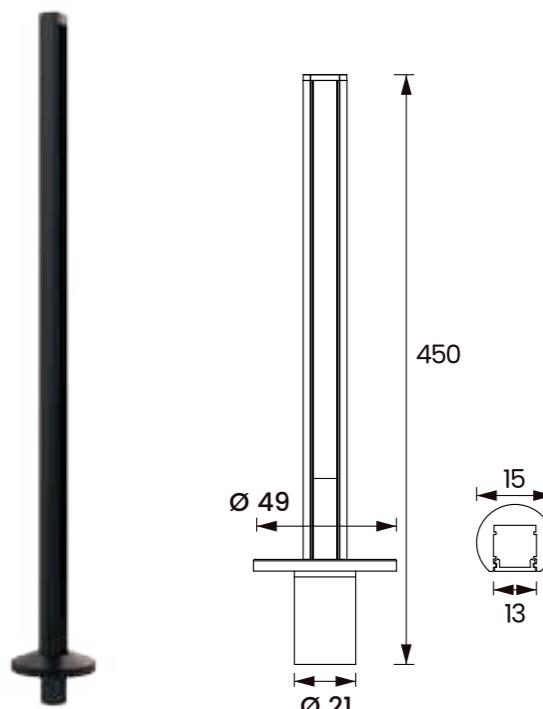
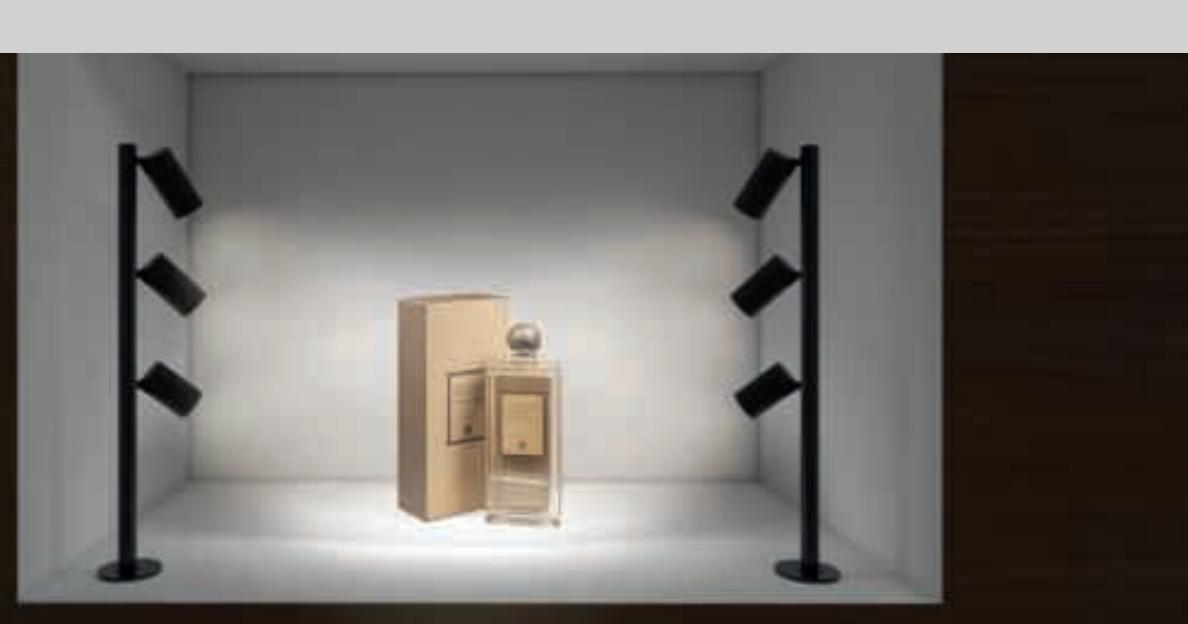
pole 350° rotatable
head 350° rotatable / 90° inclinable

SHOWCASE LIGHTS



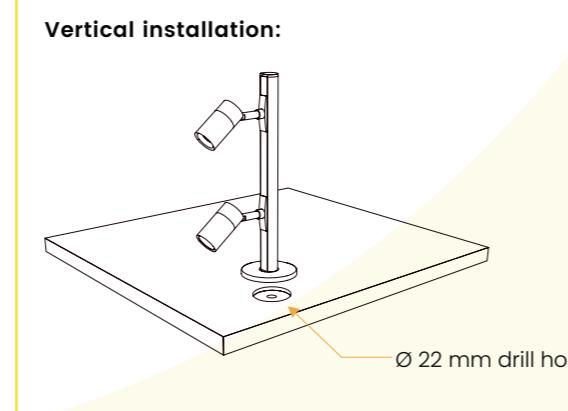
track, vertical mounted, 15 x 13 mm

TL4004



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

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



ORDER INFO

TL4001



Spot 24V, 1 W, 160 lm, MC 3000K (ref. p. 085)
Spot 24V, 1 W, 160 lm, MC 4000K (ref. p. 085)

204.10.21.001
204.10.21.002

TL4005



Spot 24V, 3 W, 450 lm, MC 3000K (ref. p. 085)
Spot 24V, 3 W, 450 lm, MC 4000K (ref. p. 085)

204.10.21.003
204.10.21.004

CEILING LIGHTS



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



TrueColour

Material	aluminum
Rated voltage	24 V DC
Hanging height	max. 350 cm (can be adjusted during installation)
Dimmable	yes
Degree of protection	IP44
Network signal	matter / Thread 1.4
Lifetime L70/B50	> 48.000 h
Electrical connection	Wago connector
Scope of delivery	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 142.

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		EEI	Ø x h	
GRAPHITE BLACK									
30	graphite black polished	1214 - 1320	572 - 603	97+	2700 - 5000	multiwhite	A F	60 x 5 cm	213.11.21.001
25	graphite black polished	1032 - 1130	488 - 519	97+	2700 - 5000	multiwhite	A F	40 x 5 cm	213.11.21.002
SILK WHITE									
30	silk white matt	1214 - 1320	572 - 603	97+	2700 - 5000	multiwhite	A F	60 x 5 cm	213.11.20.001
25	silk white matt	1032 - 1130	488 - 519	97+	2700 - 5000	multiwhite	A F	40 x 5 cm	213.11.20.002
ROSE GOLD									
30	rose gold polished	1214 - 1320	572 - 603	97+	2700 - 5000	multiwhite	A F	60 x 5 cm	213.11.26.001
25	rose gold polished	1032 - 1130	488 - 519	97+	2700 - 5000	multiwhite	A F	40 x 5 cm	213.11.26.002



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+

Material	aluminum
Rated voltage	24 V DC
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. 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 142.

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		EEI	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

ROSE GOLD

30	rose gold polished	1535 - 1659	572 - 603	97+	2700 - 5000	multiwhite		60 x 5 cm	214.11.26.001
25	rose gold polished	1297 - 1402	488 - 519	97+	2700 - 5000	multiwhite		40 x 5 cm	214.11.26.002

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+

Material	aluminum
Rated voltage	24 V DC
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. installation material

ORDER INFO:

Please order VoxAura remote control separately.
Article number: 123.00.01.001 (see page 113).

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 142.

SIGNAL RANGE:
Remote control to wall light: 6 m.
Wall 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		EEI	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
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SILK WHITE

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

8	rose gold polished	490 - 627	490 - 627	97+	2700 - 5000	multiwhite		130 x 120 mm	215.11.26.001
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CEILING SPOT

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



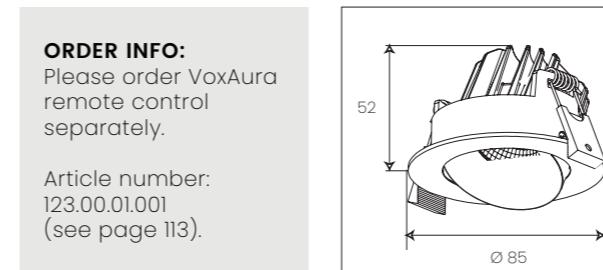
ONE SPOT



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

ORDER INFO:
Please order VoxAura remote control separately.
Article number: 123.00.01.001 (see page 113).



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 142.

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

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

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



SWITCHES



SWITCHES

overview

SMART SENSOR

• battery-powered
• wireless (Bluetooth)

control by swiping in front	page 107
control by swiping on top	page 107
control by opening / closing door	page 107
control by touching	page 107
control by touching (CCT)	page 107
control by motion detection	page 107

WIRED SENSOR

control by swiping	page 109
control by opening / closing door	page 109
control by touching	page 109
control by motion detection (microwave)	page 109
control by motion detection (PIR)	page 109

WIRED STICK SENSOR

control by swiping	page 111
control by opening / closing door	page 111
control by touching	page 111
control by motion detection	page 111

REMOTE CONTROL

• battery-powered
• wireless (Bluetooth)

remote control	page 113
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MULTIPLE SWITCH UNIT

multiple switch unit	page 114
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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



SMART SENSOR



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).



BS3000

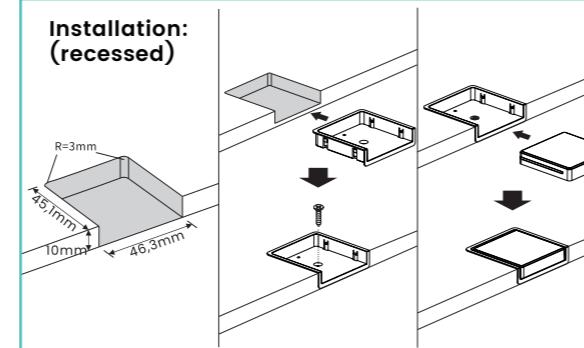
Material / colour	plastic / grey
Dimensions (L x W x H)	43 x 43 x 8,5 mm
Degree of protection	IP20
Network signal	Bluetooth
Signal range	6 m
Power consumption	0,015 W
Battery	1x CR2450, 3V DC
Battery lifetime	1-2 years
Installation	screw fixing, recessed or surface mounting
Drill hole (L x W x H)	46,3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



	Control method	Switching function	Detection range	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

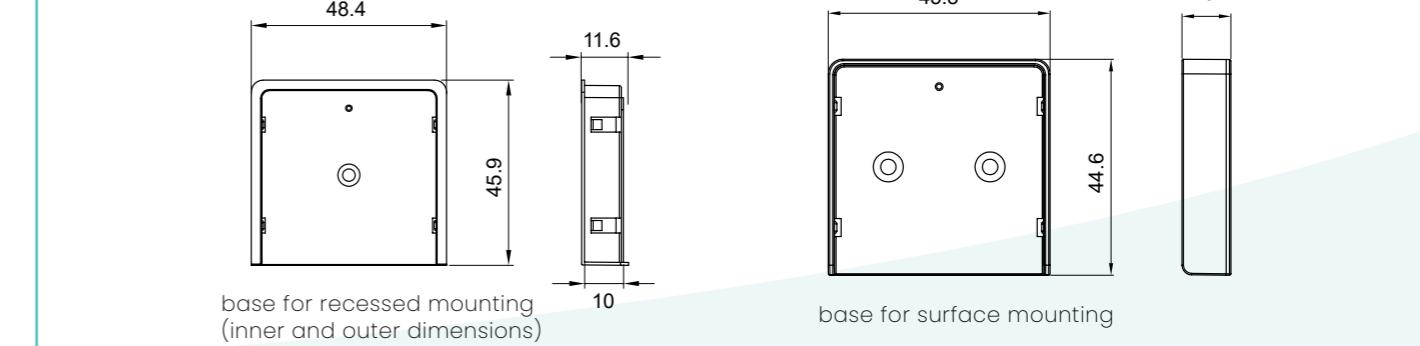
i MEMORY FUNCTION:

When the light is switched on, it has the same setting as when it was last switched off.

ORDER INFO

smart sensor switch	compatible control units (art. no.)	details (refer to page)
1 control by swiping in front	110.20.01.001	
2 control by swiping on top	110.10.01.001	123
3 control by opening / closing door	110.11.01.001	
4 control by touching	111.10.01.001	
5 control by motion detection	111.11.01.001 112.10.01.001 112.11.01.001	123
6 control by touching (incl. colour temp.)	111.10.01.001 111.11.01.001 112.10.01.001 112.11.01.001	

Dimensions:



WIRED SENSOR SWITCHES

12/24 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



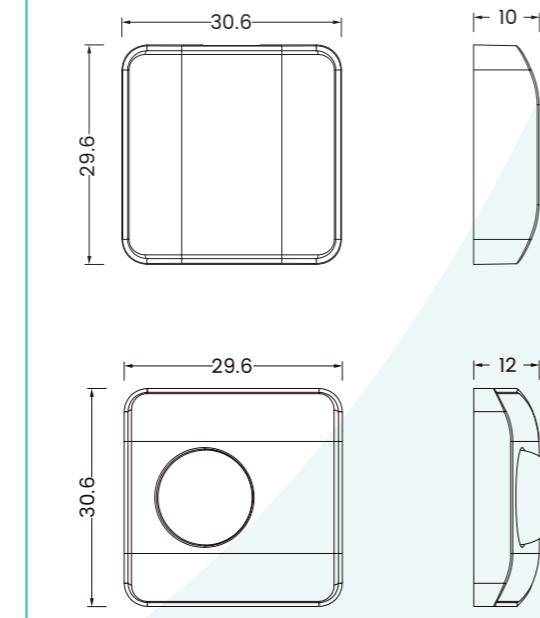
- PIR sensor
- detection range: 0-3 m
- detection angle: 120°
- run-on time: 30 sec
- **example for application:** Contactless switching on and off of LED lights by detecting movement up to 3 m (on furniture, in drawers, sliding doors, cupboards)

Material / colour	plastic / black
Dimensions (L x W x H)	30,6 x 29,6 x 10 mm
Cable length	2 m
Degree of protection	IP20
Power consumption	0,1 W
Installation	screw fixing, surface mounting
Scope of delivery	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 127).

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

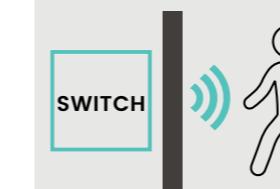
	Control method	Switching function	Detection range	Memory function	Article number
1	control by swiping	on / off soft, dimming	0-90	yes	121.00.01.003
2	control by opening / closing door	on / off soft	0-70	no	121.00.01.002
3	control by touching	on / off soft, dimming	0	yes	121.00.01.001
4	control by motion 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.



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

12/24V

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



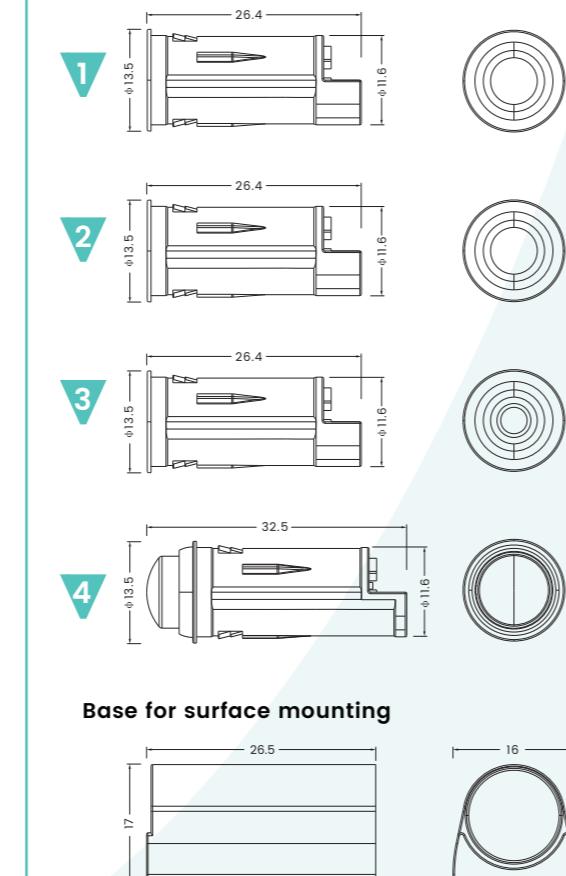
- PIR sensor
- detection range: 0-3 m
- detection angle: 120°
- run-on time: 30 sec
- **example for application:**
Contactless switching on and off of LED lights by detecting movement up to 3 m (on furniture, in drawers, sliding doors, cupboards).

Material / colour	plastic / grey
Cable length	2 m
Degree of protection	IP20
Power consumption	0,1 W
Installation	recessed or surface mounting
Scope of delivery	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 127).

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

Dimensions:



WS3001

	Control method	Switching function	Detection range	Dimensions	Drill hole	Memory function	Article number
			mm	(Ø x depth) mm	(Ø x depth) mm		
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

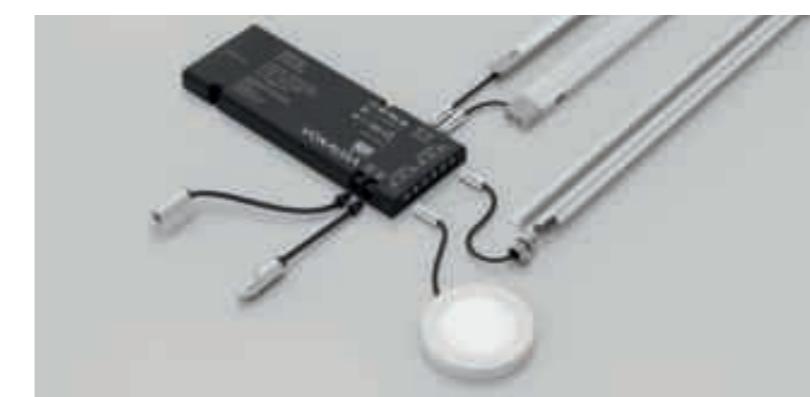
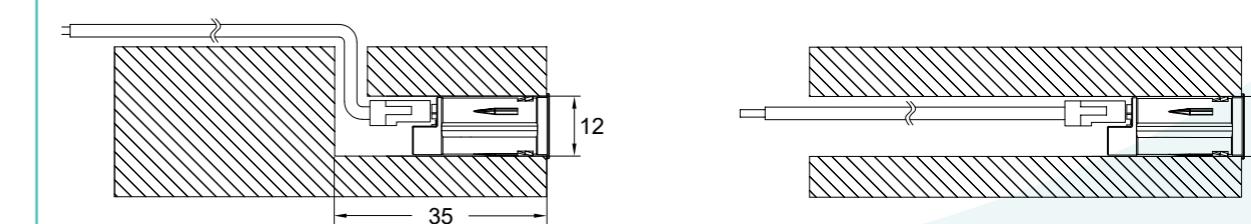
i **MEMORY FUNCTION:**
When the light is switched on, it has the same setting as when it was last switched off.

ORDER INFO:



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.

REMOTE CONTROL



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 123).

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.

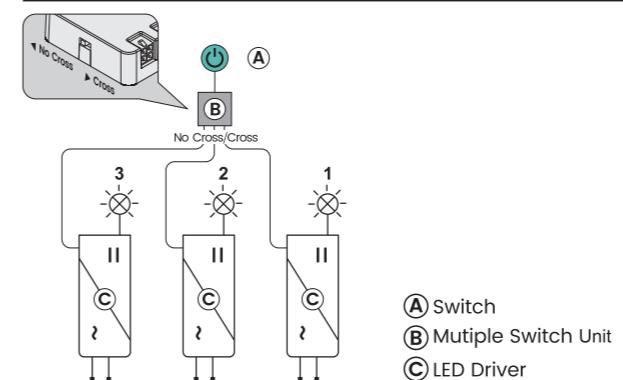
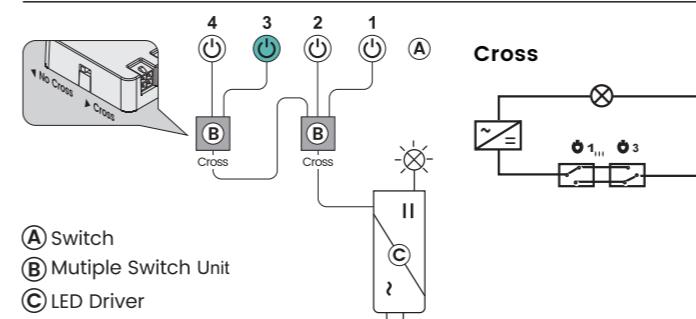
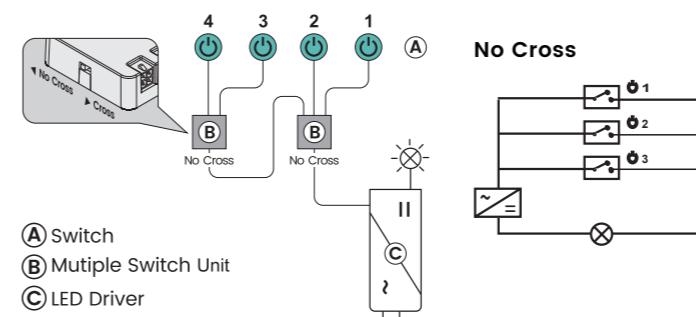
Control method	Switching function	Controlled colour systems	Article number
remote control	soft on/off dimming brightness stepless tune of colour temperature (CCT) adjust RGB colours	multiwhite RGB RGB-multiwhite	123.00.01.001

MULTIPLE SWITCH UNIT



wired

WS3002



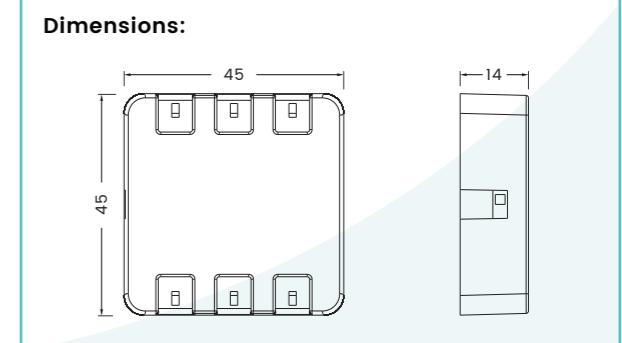
Material / colour	plastic / black
Features	3 sockets for integrated drivers, 3 sockets for wired sensor switches
Degree of protection	IP20
Power consumption	0.1 W
Cable length	1 m
Installation	surface mounting, self-adhesive
Scope of delivery	1 multiple switch unit incl. tape and 3 connecting cables

i Multiple switch unit can only be operated in conjunction with integrated drivers (see page 127) and wired sensor switches (see page 109 and 111).

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
12V/24V Multiple switch unit	depend on switches	45 x 45 x 14 mm	125.00.01.001



POWER SUPPLY

 V24

overvie

SMART-DRIVER

SD4000	220-240 V AC	20 W	15 mm	page 117
	220-240 V AC	40 W	15 mm	page 117
	220-240 V AC	60 W	15 mm	page 117
	220-240 V AC	100 W	15 mm	page 117
	220-240 V AC	150 W	15 mm	page 117

CONTROL UNIT

CU4000				
	monochrome	synchronous	 15 mm	page 123
		asynchronous	 15 mm	page 123
	multiwhite	synchronous	 15 mm	page 123
		asynchronous	 15 mm	page 123
	RGB	synchronous	 15 mm	page 123
	RGB-MW	synchronous	 15 mm	page 123

DRIVER

ID4001	220-240 V AC	20 W	15 mm	page 127
	220-240 V AC	40 W	15 mm	page 127
	220-240 V AC	60 W	15 mm	page 127
	220-240 V AC	100 W	15 mm	page 127
	220-240 V AC	150 W	15 mm	page 127

DRIVERS IP4

ID4002	220-240 V AC	30 W	17 mm	page 129
	220-240 V AC	40 W	17 mm	page 129
	220-240 V AC	48 W	17 mm	page 129
	220-240 V AC	60 W	17 mm	page 129

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 107) or **remote control** (see page 113).

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 W	Standby power consumption W	Power factor	Total efficiency %	Connected output ports	Dimensions (L x W x H) mm	Article number
1 HFD 160KHz	20	0,20	≥ 0,87	88,5	1x socket 2-pin 24 V	112 x 75 x 15	101.10.01.001
2 HFD 160KHz	40	0,20	≥ 0,93	90,0	1x socket 2-pin 24 V	112 x 75 x 15	101.10.01.002
3 HFD 200KHz	60	0,25	≥ 0,93	93,0	1x socket 2-pin 24 V	112 x 75 x 15	101.10.01.003
4 HFD 200KHz	100	0,25	≥ 0,95	93,5	1x socket 2-pin 24 V	167 x 75 x 15	101.10.01.004
5 HFD 200KHz	150	0,25	≥ 0,95	93,5	1x socket 2-pin 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 primary lead (see above) and control unit (see below) separately.

	LED	control unit (synchronous / asynchronous)	see page 123
	LED	control unit (synchronous / asynchronous)	see page 123
	LED	control unit (synchronous)	see page 123
	LED	control unit (synchronous)	see page 123



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.

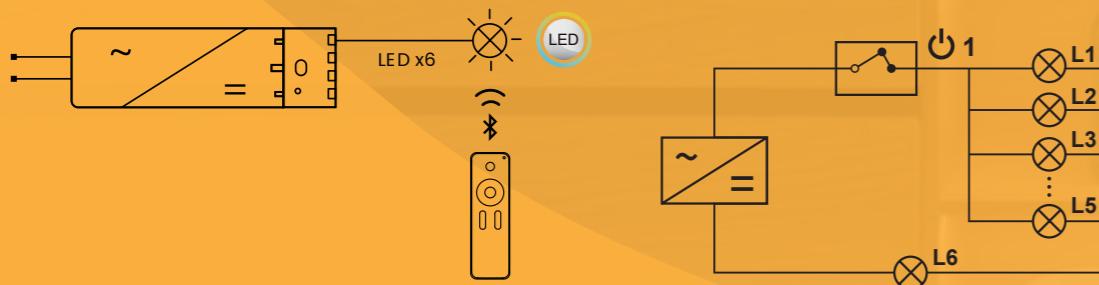
Signal range:

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



SYNCHRONOUS LIGHT

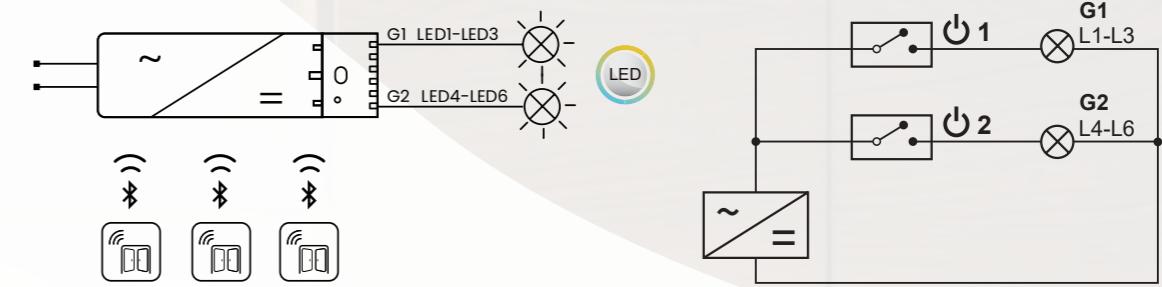
With synchronous control, **all lights are controlled together with one switch**.



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:

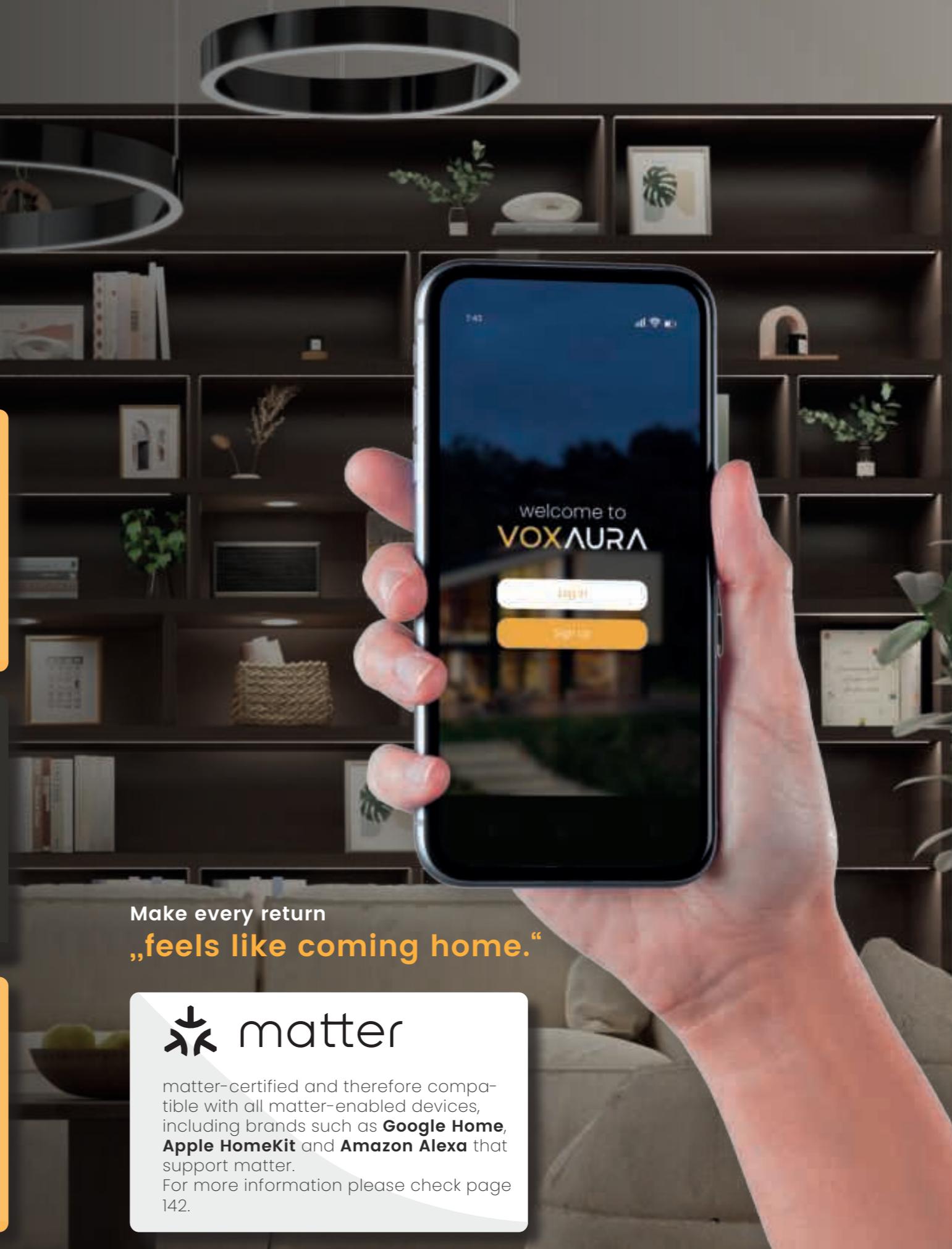
- Uses Thread 1.4 and Bluetooth technologies
- Signal range smart battery switches: 6 m, expandable by mesh network. Signal range Thread 1.4 for all light control: 10-30 m.
- Strong, reliable connectivity throughout your home
- Energy-efficient operation

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

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 142.

CONTROL UNITS

24V
wireless

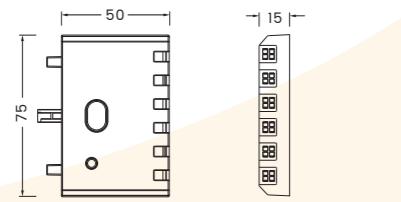


- MATTER READY
- BLUETOOTH READY

CU4000



Dimensions:



110.10.01.001 & 110.11.01.001



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).

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

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			6 + 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



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.



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 142.



ORDER INFO: Please order smart-driver separately (see page 117).



Each colour setting requires a specific model of control unit (see above) and a specific smart sensor switch (p. 107) or remote control (p. 113).

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
 monochrome	synchronous	1+1	LG1: 5 LG2: 1	6	1+1	1 output port uncontrolled	1 shared lighting scene +1 separate sensor light	
	asynchronous	6+1	LG1-LG5: each 1 LG6: LG1 – LG5 LG7: 1	6	6+1	1 output port uncontrolled	6 independent lighting scenes +1 separate sensor light	kitchen
 multiwhite 2-pin	synchronous	1	LG1: 6	6	1	-	1 shared lighting scene	furniture
	asynchronous	3	LG1: 3 LG2: 3 LG3: LG1 + LG2	6	3	-	3 independent lighting scenes	furniture
 multiwhite 3-pin	synchronous	1	LG1: 6	6	1	-	1 shared lighting scene	ceiling
	asynchronous	3	LG1: 3 LG2: 3 LG3: LG1 + LG2	6	3	-	3 independent lighting scenes	ceiling
 RGB	synchronous	1	LG1: 6	6	1	-	1 shared lighting scene	ceiling
 RGB-multiwhite	synchronous	1	LG1: 4	4	1	-	1 shared lighting scene	ceiling

FINDING THE RIGHT CONTROL UNIT

– ALL OPTIONS AT A GLANCE

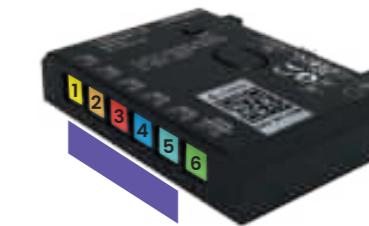
monochrome

synchronous



- 5x connected output ports (1-5) synchronous
- 1x uncontrolled output port (6)
- Lighting group 1: 1-5
- Ligthing group 2: 6

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: 1-6

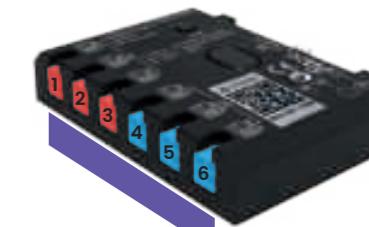
multiwhite 2-pin = furniture lighting multiwhite 3-pin = ceiling lighting

synchronous



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

asynchronous



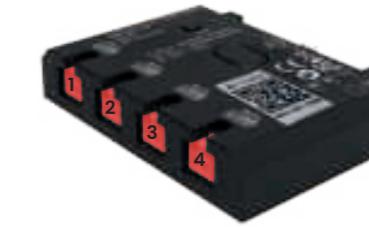
- 3x connected output ports (1-3)
- 3x connected output ports (4-6) asynchronous
- 0x uncontrolled output port
- Lighting group 1: 1-3
- Lighting group 2: 4-6
- Lighting group 3: 1-6

RGB synchronous



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

RGB – multiwhite synchronous



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

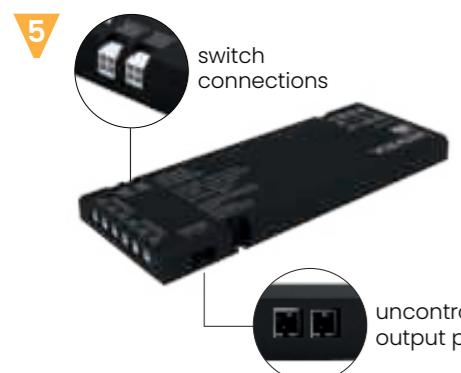
DRIVERS

24V
15 mm

HFD
160KHz HFD
200KHz

- EXTRA FLAT 15MM
- HFD TECHNOLOGY

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



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.

IP20

ID4001

	Output power W	Standby power consumption W	Power factor	Total efficiency %	Output ports connected + uncontrolled	Switch connections	Dimensions (L x W x H) mm	Article number
1 HFD 160KHz	20	0,20	≥ 0,87	88,0	4+2 socket 2-pin, 24 V	1x socket 4-pin	147 x 75 x 15	100.10.01.004
2 HFD 160KHz	40	0,20	≥ 0,93	89,0	6+2 socket 2-pin, 24 V	2x socket 4-pin	147 x 75 x 15	100.10.01.005
3 HFD 200KHz	60	0,25	≥ 0,93	92,0	6+2 socket 2-pin, 24 V	2x socket 4-pin	147 x 75 x 15	100.10.01.006
4 HFD 200KHz	100	0,25	≥ 0,95	93,0	6+2 socket 2-pin, 24 V	2x socket 4-pin	202 x 75 x 15	100.10.01.007
5 HFD 200KHz	150	0,25	≥ 0,95	93,0	6+2 socket 2-pin, 24 V	2x socket 4-pin	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
Scope of delivery	1 piece	1 piece	1 piece
Article number	140.00.01.001	140.10.01.001	141.00.01.001



DRIVERS IP44

24V

17 mm

ID4002, 220-240V AC, 50-60Hz



Material / Colour	plastic / grey
Driver configuration	integrated
Degree of protection	IP44
Output voltage	24V DC
Lifetime	20.000 h
Installation	self-adhesive or screw fixing
Scope of delivery	1 driver incl. tape

i Thanks to their increased IP protection rating (IP44), IP44 drivers **are suitable for use in wet rooms such as bathrooms.**

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

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

IP44 drivers can **only control lights in conjunction with bathroom control modules.**

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.

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



Connected output port: 1 terminal 2-pin

ID4002

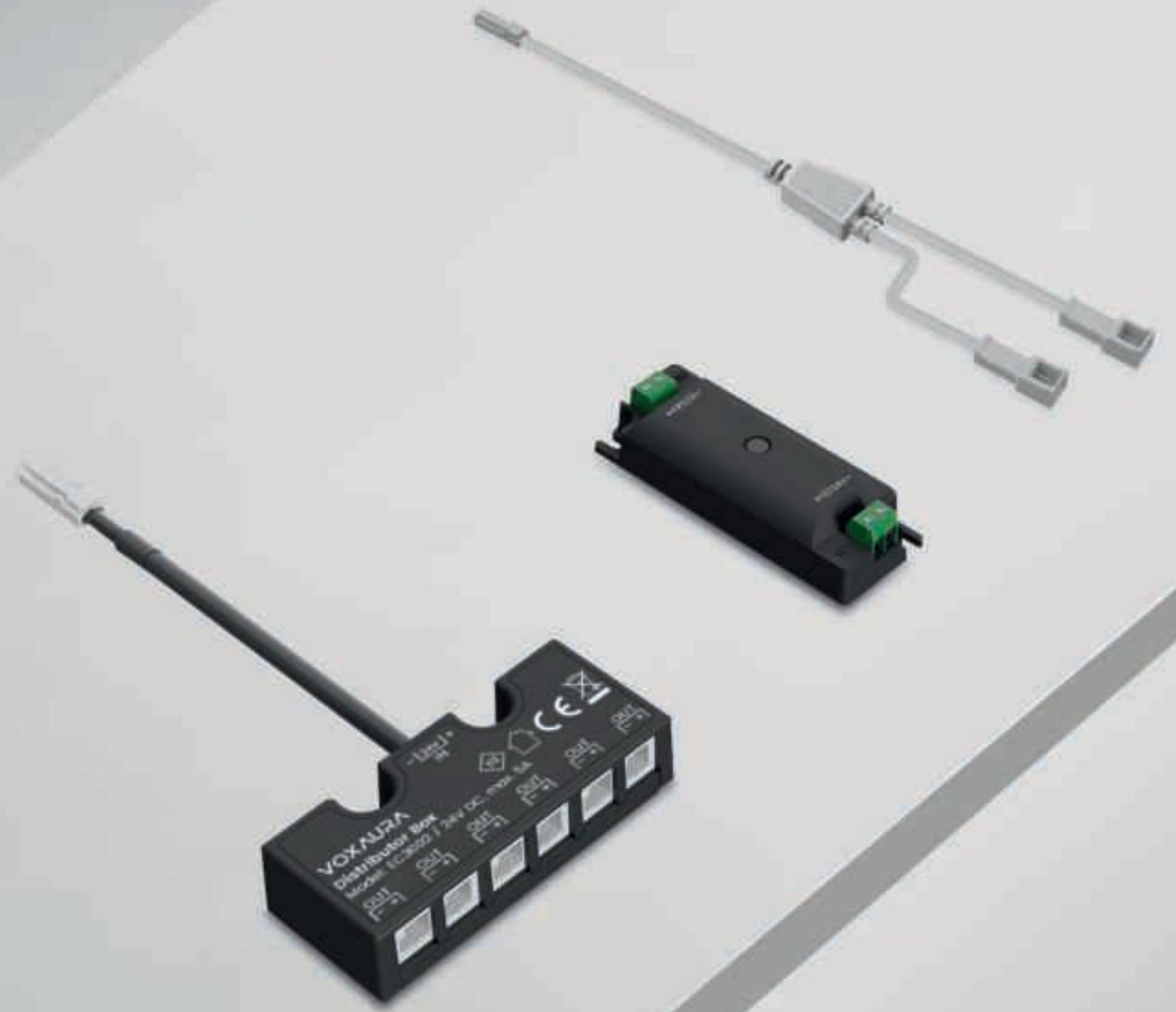
	Output power W	Standby power consumption W	Power factor	Total efficiency %	Connected output ports	Dimensions (L x W x H) mm	Article number
1	30	0,35	≥ 0,9	87	1 terminal 2-pin, 24 V	148 x 52 x 17	103.10.02.001
2	40	0,35	≥ 0,9	88	1 terminal 2-pin, 24 V	180 x 57 x 17	103.10.02.002
3	48	0,35	≥ 0,9	89	1 terminal 2-pin, 24 V	247 x 57 x 17	103.10.02.003
4	60	0,35	≥ 0,9	89	1 terminal 2-pin, 24 V	247 x 57 x 17	103.10.02.004

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



ACCESSORIES



EXTENSION CABLES

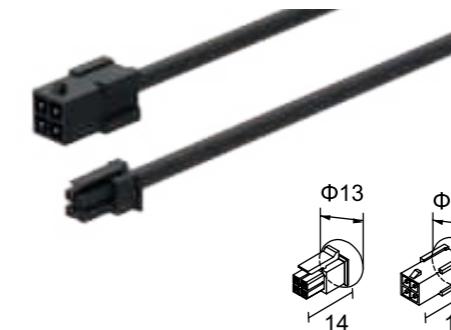
EC3000 EXTENSION CABLE 2-PIN



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

LED

EC3000 EXTENSION CABLE 4-PIN



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

LED

LED

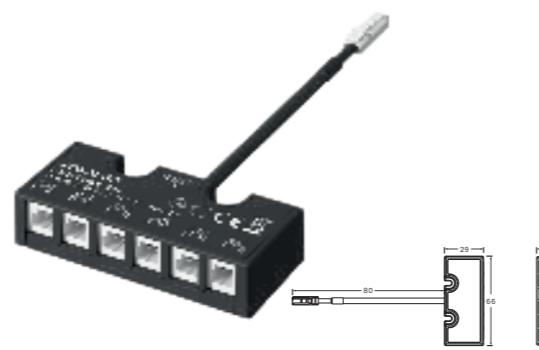
DISTRIBUTORS

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

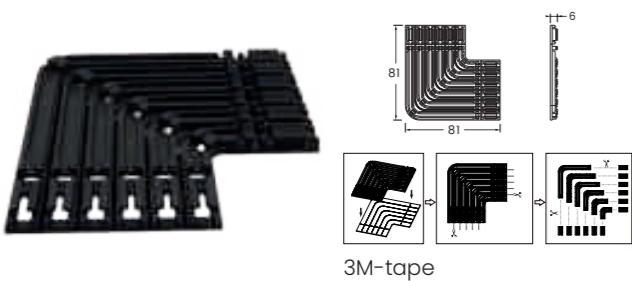
EC3002 6-WAY DISTRIBUTOR BOX



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

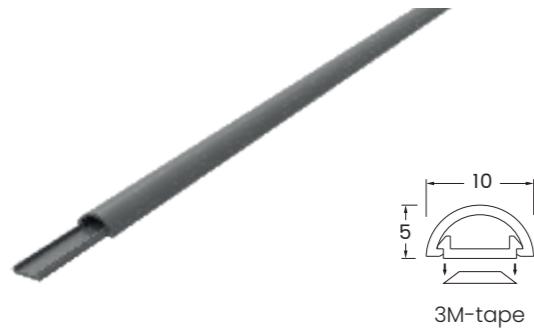
CABLE MANAGEMENT 12V / 24V

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 12V / 24V

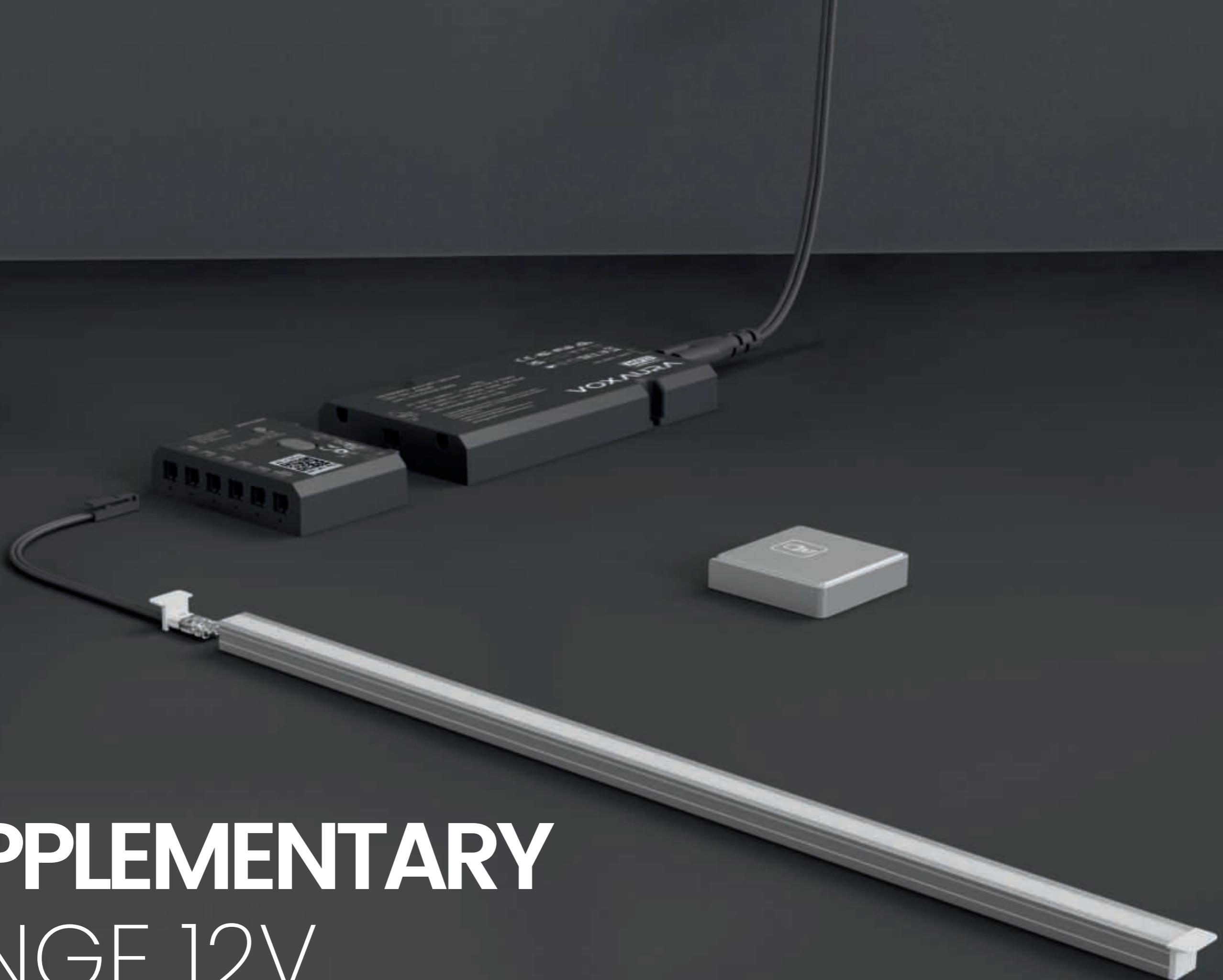
CB3000 CONTROL UNIT



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			
 monochrome	max. 30W (12V) 60W (24V)	2,5	0,2	68x25x14	1 socket, 2-pin, 2,5A	synchronous	110.20.01.001

SUPPLEMENTARY RANGE 12V



LED-RIBBONS



Family	Wattage	Lux 500 mm	Luminous flux	Lumen efficacy	CRI	Colour temp.	Colour system	EEI	Dimens. (W x L)	Article number	Reference
	w/m	lx	lm/m	lm/w	Ra	K			mm		page

SMD LED-RIBBON

LS2000	5	1115	950	190	93	2700	monochr.		8 x 5000	200.00.00.001	023
	5	1115	950	190	93	3000	monochr.		8 x 5000	200.00.00.002	023
	5	1145	975	195	93	4000	monochr.		8 x 5000	200.00.00.003	023
	5	1145	975	195	93	5000	monochr.		8 x 5000	200.00.00.004	023
LS2001	10	2160	1900	190	93	2700	monochr.		8 x 5000	200.00.00.006	023
	10	2160	1900	190	93	3000	monochr.		8 x 5000	200.00.00.007	023
	10	2220	1950	195	93	4000	monochr.		8 x 5000	200.00.00.008	023
	10	2220	1950	195	93	5000	monochr.		8 x 5000	200.00.00.009	023

SILICONE LED-RIBBON

LS2042	8	305	224	28	93	2700	monochr.		4 x 5000	200.00.10.001	037
	8	330	240	30	93	3000	monochr.		4 x 5000	200.00.10.002	037
	8	350	256	32	93	4000	monochr.		4 x 5000	200.00.10.003	037
	8	350	256	32	93	5000	monochr.		4 x 5000	200.00.10.004	037

LINEAR LIGHTS



Family	Wattage	Luminous flux	Lumen efficacy	Colour Rendering Index	CRI	Colour temperature	Colour System	Energy efficiency class	Dimensions (L x W x H)	Article number	Reference
	w/m	lm/m	lm/w	Ra	K			EEI	mm		page
MIDDLE RECESSED											
PL2000	5	280	56	93		3000	monochrome		3000 x 12 x 9	201.00.22.001	047
	5	300	60	93		4000	monochrome		3000 x 12 x 9	201.00.22.002	047
REAR MOUNTED											
PL2001	5	280	56	93		3000	monochrome		3000 x 17 x 15	201.00.22.002	049
	5	300	60	93		4000	monochrome		3000 x 17 x 15	201.00.22.004	049
SIDE-STAND											
PL2002	5	200	40	93		3000	monochrome		3000 x 20 x 9	201.00.22.003	051
	5	200	40	93		4000	monochrome		3000 x 20 x 9	201.00.22.004	051
CLAMP-ON-GLASS (8mm)											
PL2003	5	250	50	93		3000	monochrome		3000 x 21,5 x 11,3	201.00.22.005	055
	5	300	60	93		4000	monochrome		3000 x 21,5 x 11,3	201.00.22.006	055

DOWNLIGHTS



Family	Wattage	Lux 500 mm	Luminous flux	Lumen efficacy	CRI	Colour temp.	Colour system	EEI	Dimensions	Article number	Reference
	W	lx	lm	lm/w	Ra	K			mm		page
SL2004	2,5	150	300	120	93	3000	monochr.		Ø 65 x 13	203.00.22.003	077
	2,5	156	325	130	93	4000	monochr.		Ø 65 x 13	203.00.22.004	077
SL2005	3,0	188	360	120	93	3000	monochr.		Ø 75 x 13	203.00.22.005	078
	3,0	195	390	130	93	4000	monochr.		Ø 75 x 13	203.00.22.006	078

POWER SUPPLY



Family	Output power	Standby power consumption	Power factor	Total efficiency	Connected output ports	Dimensions (L x W x H)	Article number	Reference
	W	W		%		mm		page
SMART-DRIVER								
SD2000	20	0,2	≥ 0,87	87		112 x 75 x 15	101.00.01.001	117
	40	0,2	≥ 0,93	89		112 x 75 x 15	101.00.01.002	117
	60	0,25	≥ 0,93	92	ix socket 2-pin 12 V			112 x 75 x 15
	100	0,25	≥ 0,95	92	167 x 75 x 15			101.00.01.004
DRIVER								
ID2001	20	0,2	≥ 0,87	86,5	4+2x socket 2-pin 12 V	147 x 75 x 15	100.00.01.004	127
	40	0,2	≥ 0,93	88	6+2x socket 2-pin 12 V	147 x 75 x 15	100.00.01.005	127
	60	0,25	≥ 0,93	91	6+2x socket 2-pin 12 V	147 x 75 x 15	100.00.01.006	127
	100	0,25	≥ 0,95	91,5	6+2x socket 2-pin 12 V	202 x 75 x 15	100.00.01.007	127
DRIVER IP44								
ID2002	30	0,35	≥ 0,9	87	terminal 2-pin 12V	148 x 52 x 17	103.00.02.001	129
	40	0,35	≥ 0,9	88	terminal 2-pin 12V	180 x 57 x 17	103.00.02.002	129
	48	0,35	≥ 0,9	88	terminal 2-pin 12V	247 x 57 x 17	103.00.02.003	129
	60	0,35	≥ 0,9	88	terminal 2-pin 12V	247 x 57 x 17	103.00.0	



INFORMATION

ICONS AND APPROVAL MARKS

Product specification / order information

	monochrome
	multiwhite
	RGB
	RGB-monochrome
	RGB-multiwhite
	High-Frequency Driver
	Colour rendering close to that of sunlight (see p. 140 + 143)
	dimmable
	wireless

	smart-control
	motion sensor / IR sensor
	cuttable
	info-box
	order info
	light control
	Bluetooth® 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.
	matter certified

Technical icons & safety

	SELV 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:

IP20 Protection against solid foreign objects > 12.5 mm / access with finger.
No protection against water.

IP44 Protection against solid foreign objects > 1 mm / access with wire.
Protection against splashing water from all directions.

IP65 Dust-tight (no ingress of dust) / complete contact protection.
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: Protection through double or reinforced insulation
	Protection class III: 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
The product meets the applicable requirements of EU harmonization regulations.

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
Compliance with corresponding regulations of the United Kingdom.

Voluntary test mark of independent test institutes of the European Committee for Electrotechnical 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

iOS devices: - iPhone 8 and newer (iOS 16+) - iPhone SE (2nd gen) and newer

Android devices: - Google Pixel 4 and newer (Android 12+) - Samsung Galaxy S20 and newer

Supported border routers for matter Thread

Apple: - HomePod mini - Apple TV 4K (2nd gen and newer)

Google: - Nest Hub (2nd gen) - Nest Hub Max - Nest Wifi Pro

Amazon Alexa: - Echo (4th gen) - Echo Show 10 (3rd gen)

TECHNICAL TERMS

A

Ampere: See current

B

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

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

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 m². 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/Bx) 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

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

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

Transmittance: See light transmission

U

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

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

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.

Can I also opt for 12V systems with VoxAura?

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?

The LED-ribbon and the driver must be suitable for use in wet rooms; information on this is provided by the IP protection rating. Depending on the distance to possible water sources, an IP rating of at least IP44 is required for wet rooms. VoxAura silicone ribbons have an IP44 protection rating.

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.
- The straight and 90° connectors are generally suitable for 12 and 24 V systems.
- For the connecting cables with connectors, it must be noted additionally whether they are 12 or 24 V.

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

IMPRINT

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