magic
by HALEMEIER

Feel-good factor.
magic embellishes the interior
and makes your clothes shine on stage.
Simple. Surprising. Perfect.

magic
by HALEMEIER

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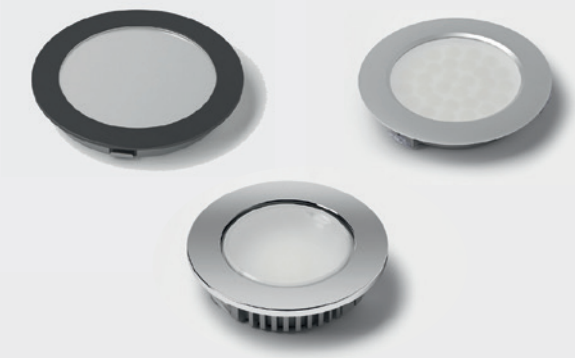
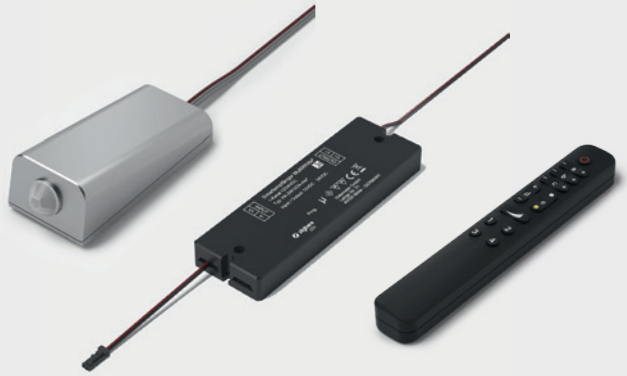


## Switch systems

Switch systems 68



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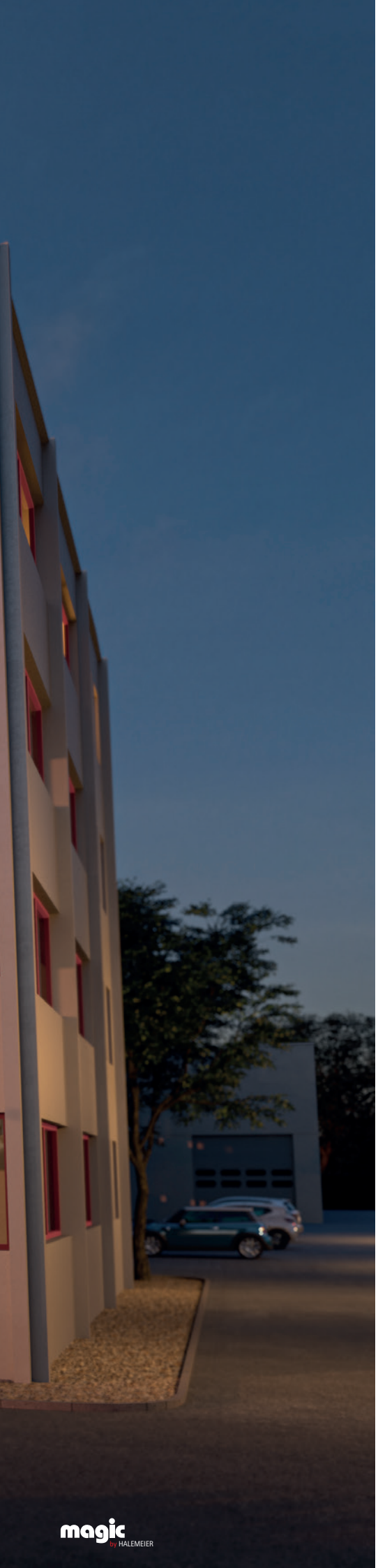
# Individual lighting solutions



## Simply. Perfect. Solutions.

The brand **magic** by HALEMEIER is the light for professional furniture construction. For more than 25 years we have been setting standards in innovation, service and design. The requirements of our customers motivate us to exceed ourselves again and again. We develop individual solutions for your diverse requirements.

Our in-house laboratory guarantees all relevant certifications for your products. It goes without saying that our LED technology is state-of-the-art. Another decisive advantage is the complete compatibility of all components of our product range.

Fast and easy handling of the components allows you to fully concentrate on your core tasks: The development and design of new furniture.

Partnership, loyalty and trust are basic values that we try to bring into practice every day.

Let us inspire you!
it's **magic**

ENGINEERED
IN GERMANY
BY HALEMEIER

# Individual lighting solutions

**Steffen Rumler**, Managing Director

**Sven Lubahn**, R&D

**Ralf Köhne**, Sales

## Simply close to the customer

Only together with our customers, employees and suppliers, can we be successful in the long term - simple as that!

Designing and implementing practical, innovative solutions that meet our customers' needs is what drives us every day.

Listen, ask, understand. We always find a solution to every challenge, to get better and better together.

## Individual solutions

Plug-and-play compatibility of all components. Unlimited combination possibilities. No electro-technical expertise required.

## To make yourself

Meter and roll goods to combine independently. Precisely cut to size. No loss of material.

## In-house development

Products are designed, developed and tested in-house. The result is the highest quality 'Engineered in Germany'.

## Sustainability

Our products comply with the strict Ecodesign Directive of the European Union. The use of the latest generation of components guarantees you continuous improvements in efficiency.

## 5 years warranty*

We are absolutely sure of the quality of our products. Use our guarantee to pass on this confidence to your customers. **on selected luminaires*

## Own test laboratory

Always on the safe side. Our in-house test laboratory guarantees all relevant certifications.

A feast for the eyes.

Individual, classic, modern or rustic **magic** is at home in any style.

Simple. Enjoyable. Beautiful.

Pure happiness.
For the special moments
everyday. magic transform your
bathroom into a wellness oasis.
Simple. Relaxed. Harmonious.

COLOGNE

# Linear lights

## Product range overview

Versa Inside 80
Page 22
12V

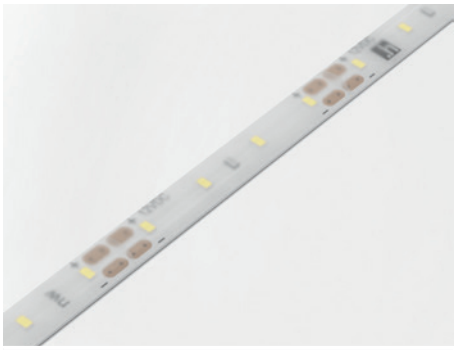
Versa Inside 120
Page 24
12V

Versa Inside 160
Page 26
12V

Versa Inside 160
Page 28
24V MP

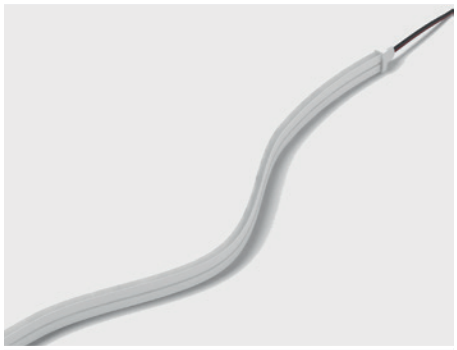
Versa Inside 233 HP
Page 30
24V MP

Versa Linear
Page 32
12V



Versa Plus 80
Page 34
12V

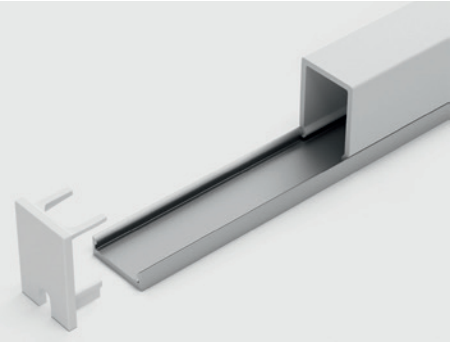
Versa Super Plus
Page 36
24V MP



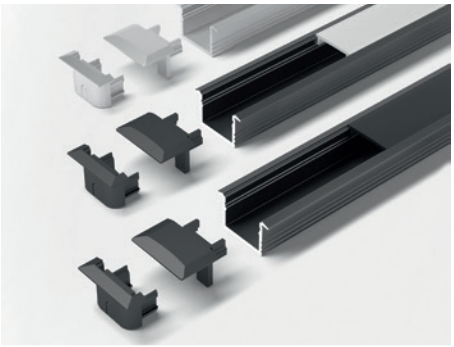
Versa Super Plus Mini
Page 38
12V

All lights can be cut to size

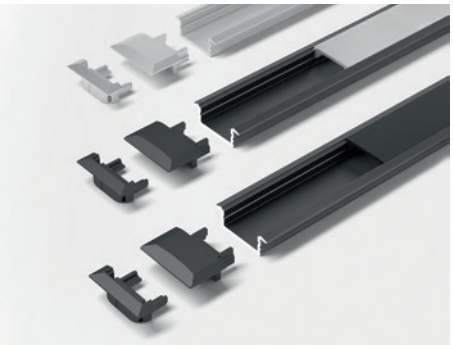
Light can be made to measure



ChannelLine A
Page 44



ChannelLine B
Page 45



ChannelLine C
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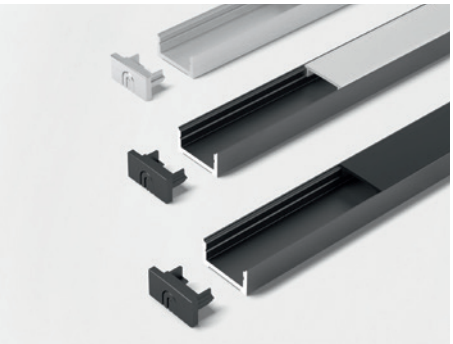

ChannelLine D
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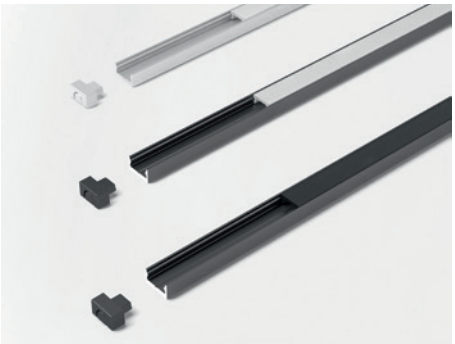


ChannelLine i
Page 48

Channel Line i2
Page 49

Channel Line L
Page 50

Channel Line M
Page 51

ChannelLine Sensor PIR
Page 52

All lights can be cut to size

# Spotlights

## Product range overview

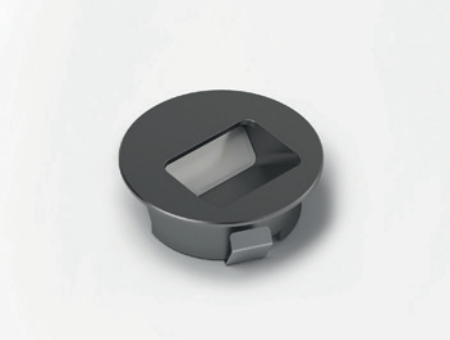
LitePanel 68 Ø 68 mm
Page 56
12V

Sign Plus Ø 68 mm
Page 58
12V

MultiLite Flood Ø 58 mm
Page 60
12V

EcoPower L Ø 68 mm
Page 62
12V

StarPoint Flood Ø 30 mm
Page 64
12V



SideSpot Ø 35 mm
Page 66
12V

4-Mitter
Page 72
24 V MP
12 V

S-Mitter Basic MultiWhite
Page 76
12 V

Wall switch Smart
Page 78

BasicControl MultiWhite
Page 80
12 V

MultiSwitch² Contact
Page 84
230 V
24 V MP
12 V

## Product range overview

MultiSwitch² PIR
Page 86
230 V | 24 V MP | 12 V

Repeater
Page 86
24 V MP | 12 V

Magic Switch Linear
Page 88
12 V

IR Door Switch
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LED Dimmer
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LED Touch
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LED rocker switch
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12 V

Electronic ballasts 12 Volt DC
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12 V

Electronic ballasts 24 Volt DC
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24 V MP

Leads 12 Volt DC
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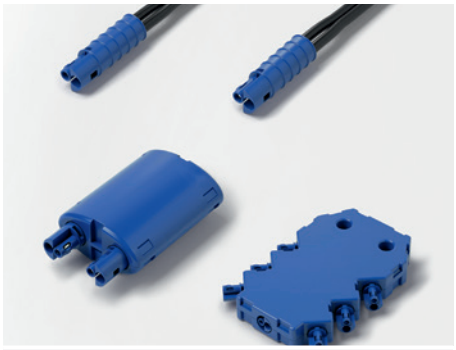
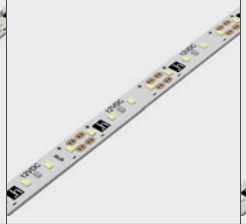
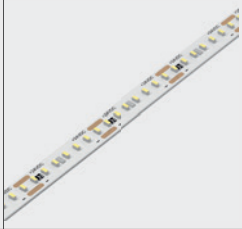
12 V



Leads 24 Volts DC
Page 101
24 V MP

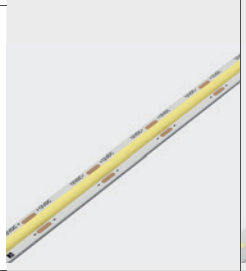
USB socket
Page 102
12 V

## Overview of Versa strips

| Model | Versa Inside 80 | Versa Inside 120 | Versa Inside 160 | Versa Inside 233 HP |
|---|---|---|---|---|
| | |  | |  |
| Voltage | 12 V | 12 V | 12 V, 24 V MP | 24 V MP |
| Illuminance at a distance of 50 cm | 360 lux | 525 lux | 700 lux | 1500 lux |
| Output per m | 4.8 W/m | 7.2 W/m | 9.6 W/m | 24 W/m |
| Luminous flux per m | 600 lm/m | 900 lm/m | 1200 lm/m | 2200 lm/m |
| Light source efficiency | 125 lm/W | 125 lm/W | 125 lm/W | 90 lm/W |
| Light colour* | XW WW NW CW MW | XW WW NW CW MW | WW NW CW MW | WW CW |
| Colour rendering/CRI | RA > 90 (R9 > 60) | | | |
| Strip length | 5000 mm, 10000 mm | | 3000 mm (12 Volt)<br>1200 mm, 5000 mm (24 Volt)<br>10000 mm (12 Volt) | 3000 mm, 10000 mm |
| Max. length at a stretch | 7000 mm | 5000 mm | 3750 mm (12 Volt DC)<br>5000 mm (24 Volt DC) | 10000 mm |
| LEDs per m | 80 | 120 | 160 | 233 |
| Can be cut every | 50 mm | 33 mm | 25 mm (12 Volt DC)<br>50 mm (24 Volt DC) | 30 mm |
| Direct connector | 36 362 11 (10 pieces) | | | no connectors permitted |
| Flexible connector 50 mm | 36 363 11 (10 pieces) | | | |
| Flexible connector 150 mm | 36 364 11 (10 pieces) | | | |
| Feeder for sections with clip connector | 36 335 01 | | 36 365 01 (12 Volt DC)<br>36 366 01 (24 Volt DC) | |
| Soldering cable with LED plug-in system | 39 297 38 (130 mm)<br>36 248 01 (1800 mm)<br>(12 Volt DC, max. 36 Watt) | | 36 247 02 (130 mm)<br>36 247 01 (1800 mm)<br>(24 Volt DC, max. 72 Watt) | |
| Width / Height | 7.5 mm / 2 mm | | | |
| IP rating | IP 20 | | | |
| Page | Page 22 | Page 24 | Page 26/28 | Page 30 |

*XW = 2700 K, WW = 3000 K, NW = 4000 K, CW = 6500 K, MW = 2700-6000 K

## Overview of Versa strips

| Model | Versa Linear (COB) | Versa Plus 80 | Versa SuperPlus | Versa SuperPlus Mini |
|---|---|---|---|---|
| |  | | | |
| Voltage | 12 V | 12 V | 24 V MP | 12 V |
| Illuminance at a distance of 50 cm | 550 lux | 300 lux | 155 lux | 80 Lux |
| Output per m | 10 W/m | 4.8 W/m | 7.5 W/m | 6 W/m |
| Luminous flux per m | 1000 lm/m | 480 lm/m | 400 lm/m | 150 lm/m |
| Light source efficiency | 100 lm/W | 100 lm/W | 53 lm/W | 115 lm/W |
| Light colour | XW WW NW MW | WW NW CW | WW NW | WW NW |
| Colour rendering/CRI | RA > 90 (R9 > 60) | RA > 80 | RA > 80 | RA > 80 |
| Strip length | 1200 mm, 3000 mm 10000 mm | 5000 mm | 2500 mm | 1200 mm, 5000 mm |
| Max. length at a stretch | 3600 mm | 5000 mm | 2500 mm | 5000 mm |
| LEDs per m | LED not visible | 80 | LED not visible | |
| Can be cut every | 25 mm | 50 mm | 38 mm | 50 mm |
| Direct connector | 36 358 01 (1 piece) | no connectors permitted | | |
| Flexible connector 50 mm | 36 359 01 (1 piece) | | | |
| Flexible connector 150 mm | 36 360 01 (1 piece) | | | |
| Feeder for sections with clip connector | 36 361 01 | | | |
| Soldering cable with LED plug-in system | 39 297 38 (130 mm) 36 248 01 (1800 mm) (12 Volt DC, max. 36 Watt) | | no connectors permitted | |
| Width / Height | 8 mm / 2 mm | 7.5 mm / 3.5 mm | 8.3 mm / 12 mm | 4 mm / 8 mm |
| IP rating | IP 20 | IP 44 | IP 65** | IP44 |
| Page | Page 32 | Page 34 | Page 36 | Page 38 |

** only in the potted area of the luminaires

# Versa Inside 80

**Advantages**
- 30 % more uniform light distribution
- 30 % more efficient
- 30 % more light

**Features**
- Lead on both sides for the 5000 mm length (one cut, two lights), see drawing

**Examples of use**
- Universal application
- Accent lighting in the living area

**Order information**
- Feeders and/or solder leads needed for the 10 m roll
- For selection see Versa- and ChannelLine overview

## Versa Inside 80

| | MultiWhite* | XtraWarm | WarmWhite | NeutralWhite | CoolWhite |
|---|---|---|---|---|---|
| 5000 mm (max. 24 W) | 56 001 33 | 56 001 43 | 56 001 13 | 56 001 03 | 56 001 23 |
| 10000 mm (max. 4.8 W/m) | 56 001 31 | 56 001 41 | 56 001 11 | 56 001 01 | 56 001 21 |

## Accessories**

| | 1 piece | 10 piece |
|---|---|---|
| Direct connector | - | 36 362 11 |
| Flexible connector 50 mm | - | 36 363 11 |
| Flexible connector 150 mm | - | 36 364 11 |
| Feeder 1800 mm for sections | 36 365 01 | - |
| Soldering lead 130 mm for sections | 39 297 38 | - |
| Soldering lead 1800 mm for sections | 36 248 01 | - |
| LED ballast 15 W with Australian plug | 31 026 01 | - |
| LED ballast 30 W with Australian plug | 30 221 01 | - |
| M1 extension lead 1800 mm | 36 768 01 | - |
| M1 3-way distributor 180 mm | 36 852 01 | - |

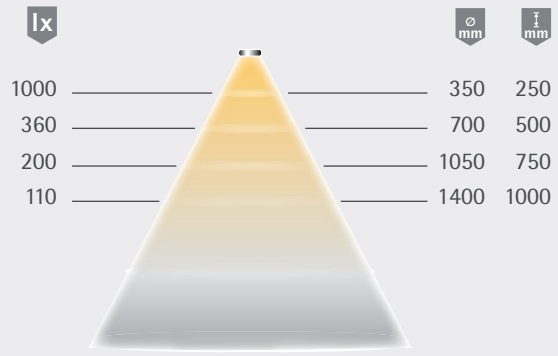
* MultiWhite accessories required
** Further accessories in section Switch systems

## Technical details

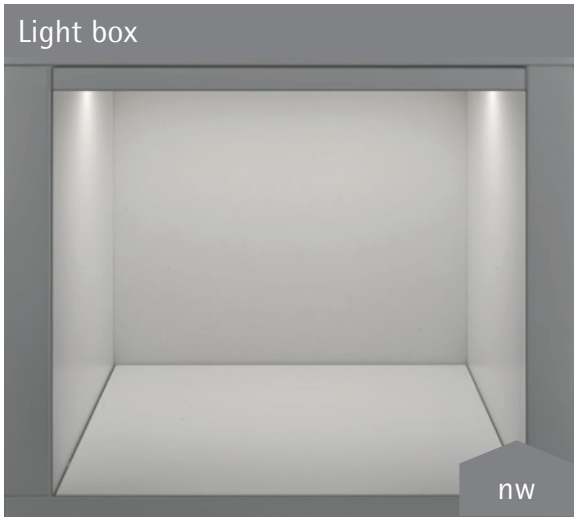
12 V

| | |
|---|---|
| Luminaire type: | Surface-mounted light |
| Type of lighting: | Accent lighting |
| Operating voltage: | 12 V DC |
| Light colours: | XtraWarmWhite/ WarmWhite/ NeutralWhite/ CoolWhite/ MultiWhite |
| Colour rendering: | RA >90; R9 >60 |
| Luminous flux: | 600 lm/m |
| Light source efficiency: | 125 lm/W |
| Life span: | 40,000 h (L70) |
| Power consumption: | 4.8 W/m |
| Max. length at a stretch: | 7 m |
| Dimmable: | Yes/PWM/Smart.home |
| Number of LEDs: | 80/m |
| Beam angle: | 120° |
| Half value angle: | 70° |
| Test marks and symbols: | CE UKCA |
| Supply lead: | 1800 mm |
| Plug connector: | LED mini connector M1 (max. 36 W) |
| Protection rating: | IP 20 |
| Connection to: | LED ballast |

## Light distribution diagram 70°



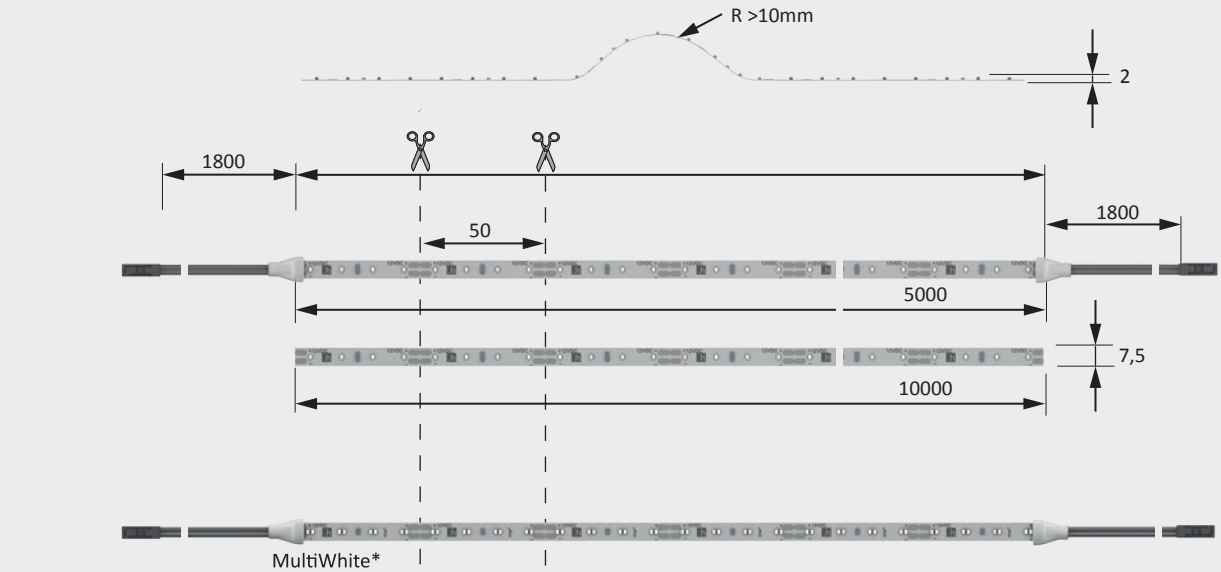

## Light box

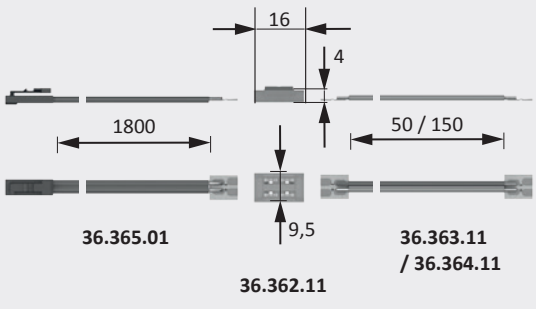


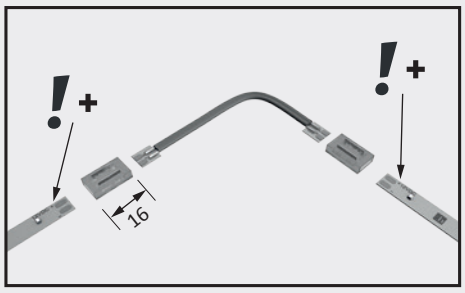


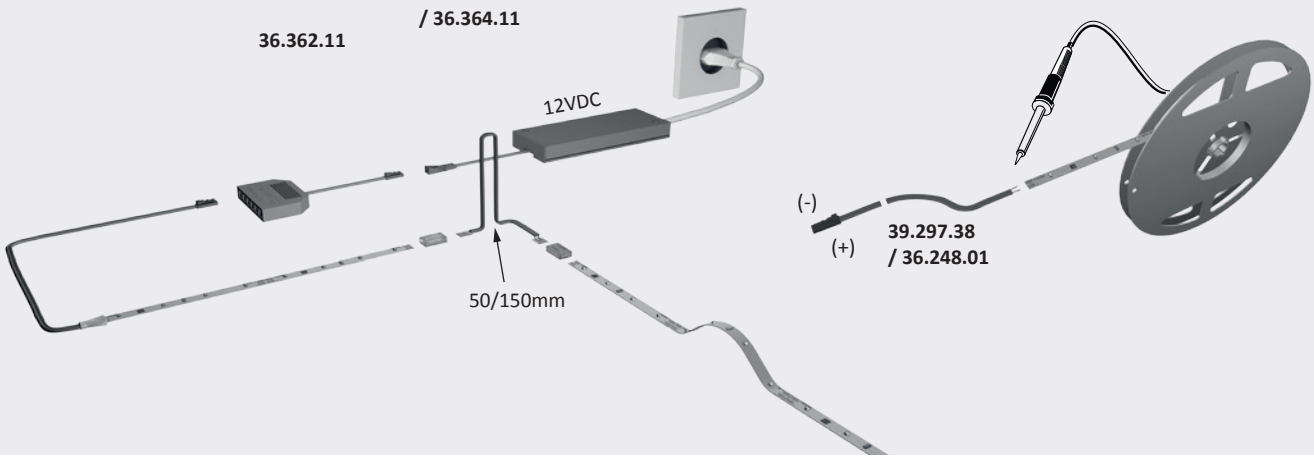

## Dimensional drawing / installation

Can be individually cut to size



# Versa Inside 120

**Advantages**
- 30 % more uniform light distribution
- 30 % more efficient
- 30 % more light

**Features**
- Lead on both sides for the 5000 mm length (one cut, two lights), see drawing

**Examples of use**
- Perfect for interior cabinet lighting
- Accent lighting in bright surroundings

**Order information**
- Feeders and/or solder leads needed for the 10 m roll
- For selection see Versa- and ChannelLine overview

## Versa Inside 120

| | MultiWhite* | XtraWarm | WarmWhite | NeutralWhite | CoolWhite |
|---|---|---|---|---|---|
| 5000 mm (max. 36 W) | 56 002 33 | 56 002 43 | 56 002 13 | 56 002 03 | 56 002 23 |
| 10000 mm (max. 7.2 W/m) | 56 002 31 | 56 002 41 | 56 002 11 | 56 002 01 | 56 002 21 |

## Accessories*

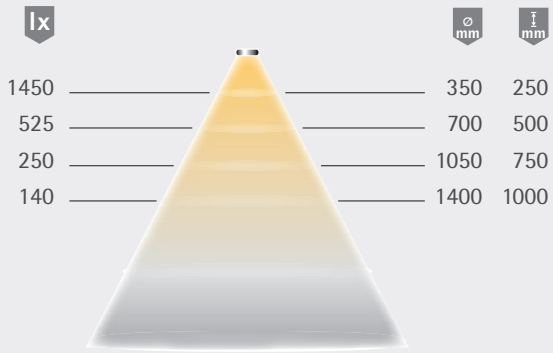
| | 1 piece | 10 piece |
|---|---|---|
| Direct connector | - | 36 362 11 |
| Flexible connector 50 mm | - | 36 363 11 |
| Flexible connector 150 mm | - | 36 364 11 |
| Feeder 1800 mm for sections | 36 365 01 | - |
| Soldering lead 130 mm for sections | 39 297 38 | - |
| Soldering lead 1800 mm for sections | 36 248 01 | - |
| LED ballast 15 W with Australia plug | 31 026 01 | - |
| LED ballast 30 W with Australia plug | 30 221 01 | - |
| M1 extension lead 1800 mm | 36 768 01 | - |
| M1 3-way distributor 180 mm | 36 852 01 | - |

* MultiWhite accessories required

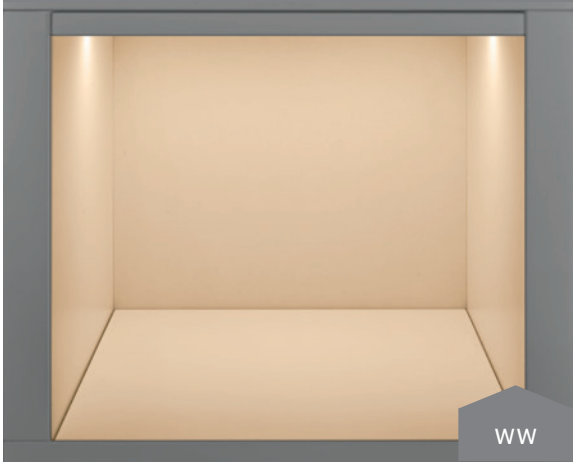
## Technical details

| | |
|---|---|
| Luminaire type: | Surface-mounted light |
| Type of lighting: | Functional lighting / accent lighting |
| Operating voltage: | 12 V DC |
| Light colours: | XtraWarmWhite/ WarmWhite/ NeutralWhite/ CoolWhite/ MultiWhite |
| Colour rendering: | RA >90; R9 >60 |
| Luminous flux: | 900 lm/m |
| Efficiency light source: | 125 lm/W |
| Lifespan: | 40,000 h (L70) |
| Power consumption: | 7.2 W/m |
| Max. length at a stretch: | 5 m |
| Dimmable: | Yes/PWM/Smart.home |
| LED count: | 120/m |
| Beam angle: | 120° |
| Half value angle: | 70° |
| Test marks and symbols: | CE UKCA |
| Protection rating: | IP 20 |
| Supply lead: | 1800 mm |
| Plug connector: | LED mini connector M1 (max. 36 W) |
| Connection to: | LED ballast |

## Light distribution diagram 70°



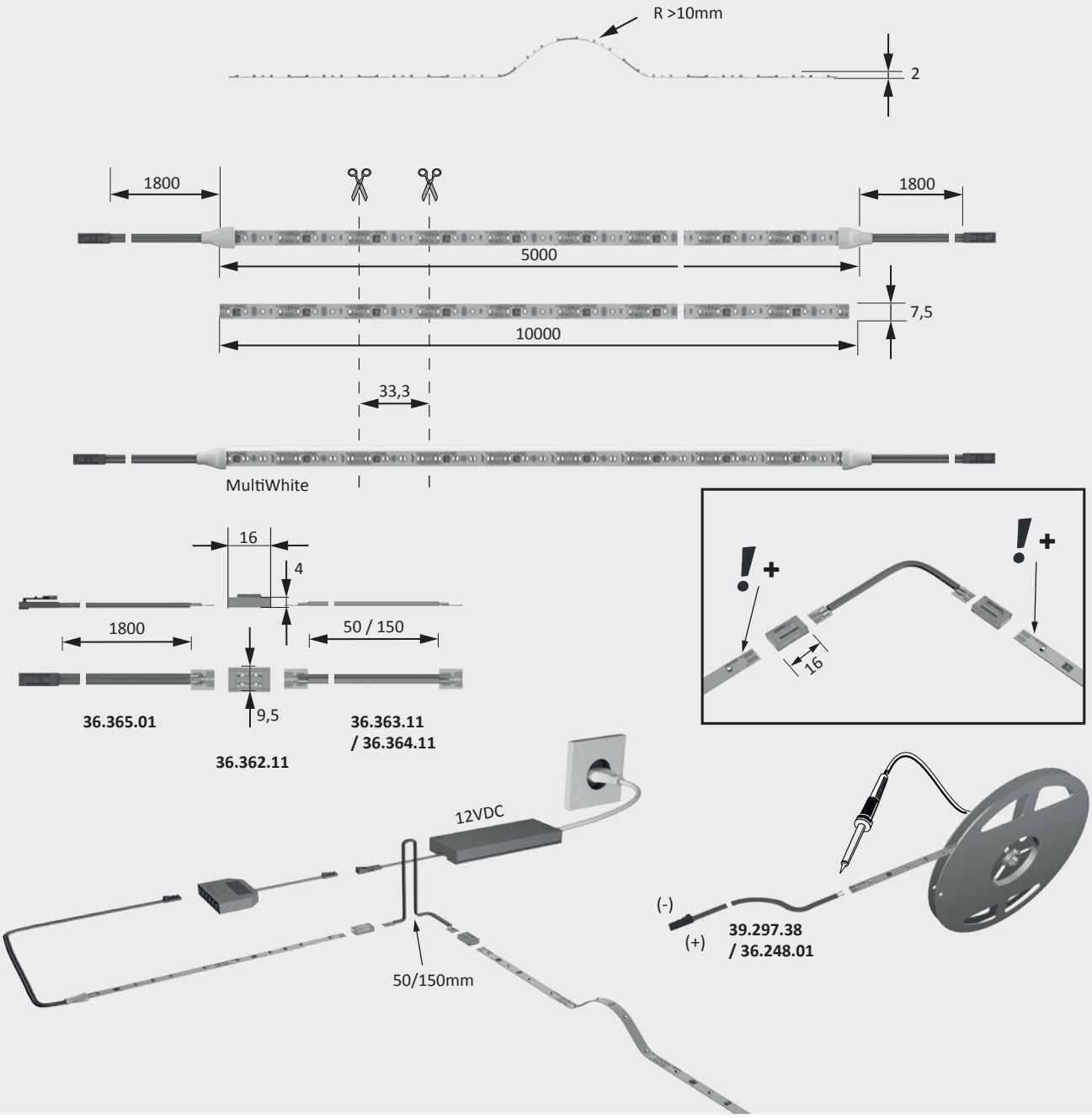

## Light box






## Dimensional drawing / installation

Can be individually cut to size



# Versa Inside 160 / 12 Volt DC

**Advantages**

- 30 % more uniform light distribution
- 30 % more efficient
- 30 % more light

**Features**

- Lead on both sides for the 3000 mm length (one cut, two lights), see drawing
- Same brightness as Versa Inside 160 (24 Volt DC)

**Examples of use**

- Ideal for task and functional lighting

**Order information**

- Feeders and/or solder leads needed for the 10 m roll
- For selection see Versa- and ChannelLine overview

## Versa Inside 160

| | MultiWhite* | WarmWhite | NeutralWhite | CoolWhite |
|---|---|---|---|---|
| 3000 mm (max. 28.8 W) | 56 003 32 | 56 003 12 | 56 003 02 | 56 003 22 |
| 10000 mm (max. 9.6 W/m) | - | 56 003 11 | 56 003 01 | 56 003 21 |

## Accessories*

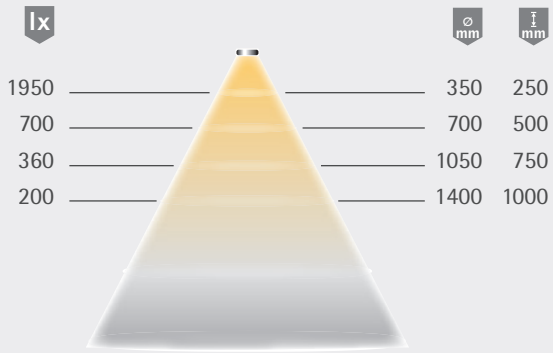
| | 1 piece | 10 piece |
|---|---|---|
| Direct connector | - | 36 362 11 |
| Flexible connector 50 mm | - | 36 363 11 |
| Flexible connector 150 mm | - | 36 364 11 |
| Feeder 1800 mm for sections | 36 365 01 | - |
| Soldering lead 130 mm for sections | 39 297 38 | - |
| Soldering lead 1800 mm for sections | 36 248 01 | - |
| LED ballast 15 W with Australia plug | 31 026 01 | - |
| LED ballast 30 W with Australia plug | 30 221 01 | - |
| M1 extension lead 1800 mm | 36 768 01 | - |
| M1 3-way distributor 180 mm | 36 852 01 | - |

* MultiWhite accessories required

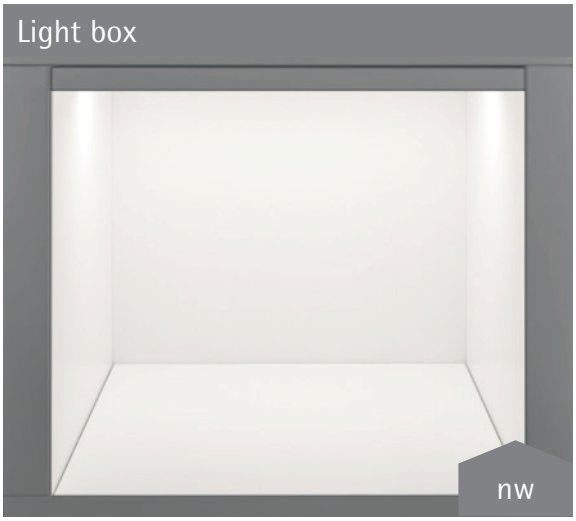
## Technical details

| | |
|---|---|
| Luminaire type: | Surface-mounted light |
| Type of lighting: | Function lighting/ accent lighting |
| Operating voltage: | 12 V DC |
| Light colours: | WarmWhite/ NeutralWhite/ CoolWhite/ MultiWhite |
| Colour rendering: | RA >90; R9 >60 |
| Luminous flux: | 1200 lm/m |
| Light source efficiency: | 125 lm/W |
| Lifespan: | 40,000 h (L70) |
| Power consumption: | 9.6 W/m |
| Max. length at a stretch: | 12V - 3.75 m |
| Dimmable: | Yes/PWM/Smart.home |
| Number of LEDs: | 160/m |
| Beam angle: | 120° |
| Half value angle: | 70° |
| Test marks and symbols: | CE UKCA |
| Protection rating: | IP 20 |
| Supply lead: | 1800 mm |
| Plug connector: | LED mini connector M1 (max. 36 W) |
| Connection to: | LED ballast |

## Light distribution diagram 70°



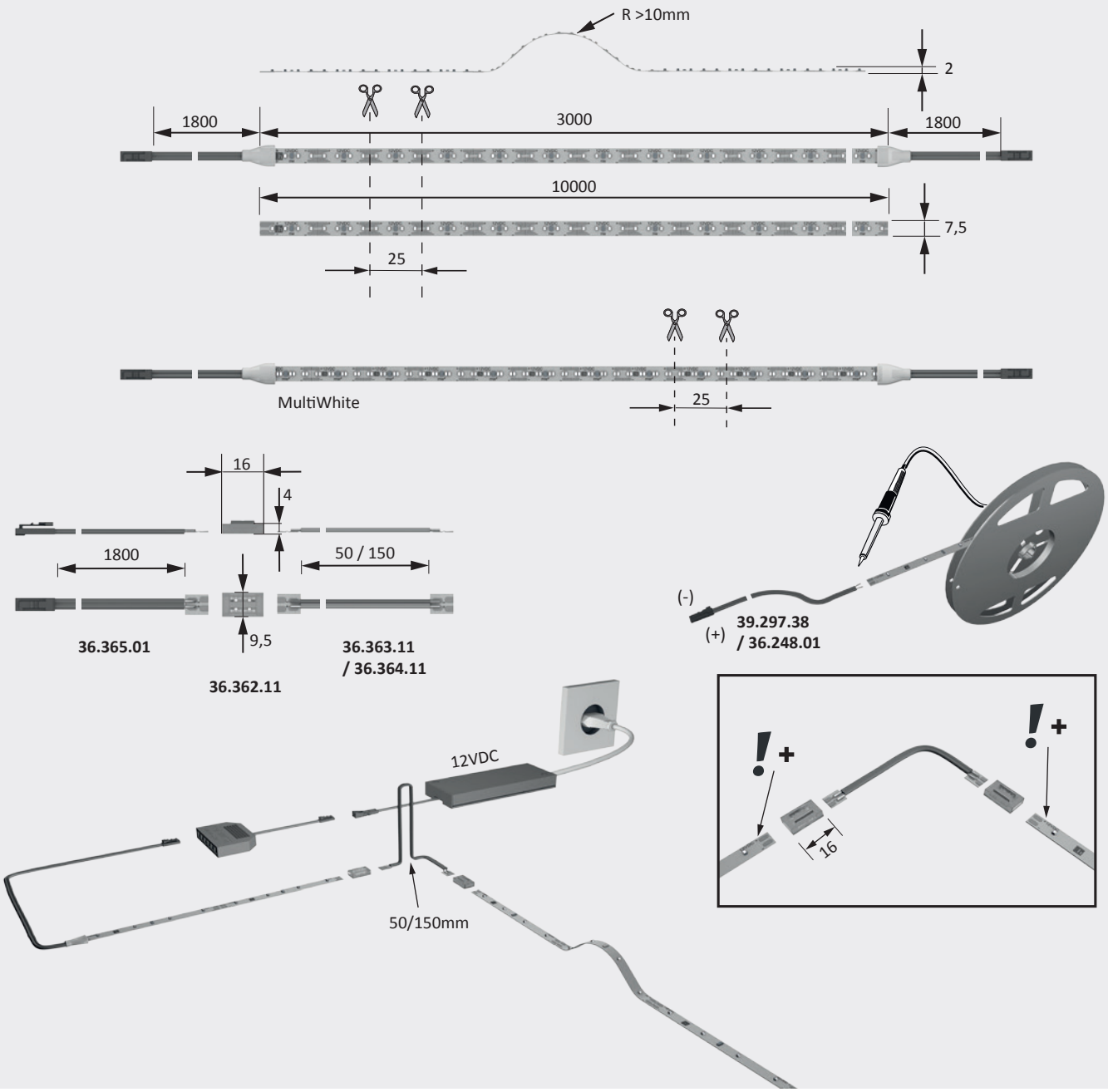

## Light box






## Dimensional drawing / installation

Can be individually cut to size



# Versa Inside 160 / 24 Volt DC

**Advantages**
- 30 % more uniform light distribution
- 30 % more efficient
- 30 % more light

**Features**
- Lead on both sides for the 5000 mm length (one cut, two lights), see drawing
- Same brightness as Versa Inside 160 (12 Volt DC)

**Examples of use**
- Perfect for indirect room lighting

**Order information**
- Feeders and/or solder leads needed for the 10 m roll
- For selection see Versa- and ChannelLine overview

## Versa Inside 160

| | WarmWhite | NeutralWhite | CoolWhite |
|---|---|---|---|
| 1200 mm (max. 11.5 W) | 56 006 12 | 56 006 02 | 56 006 22 |
| 5000 mm (max. 48 W) | 56 006 13 | 56 006 03 | 56 006 23 |

## Accessories*

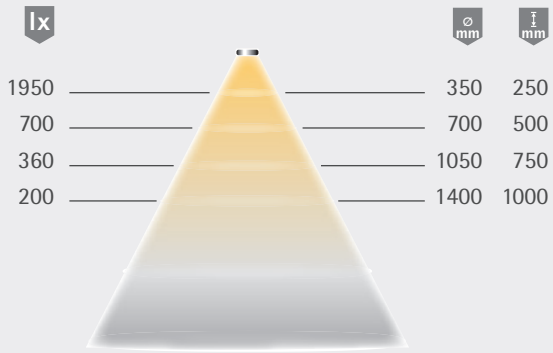
| | 1 piece | 10 piece |
|---|---|---|
| Direct connector (max. 72 W) | - | 36 362 11 |
| Flexible connector 50 mm (max. 72 W) | - | 36 363 11 |
| Flexible connector 150 mm (max. 72 W) | - | 36 364 11 |
| Feeder 1800 mm for sections (max. 72 W) | 36 366 01 | - |
| MP2 extension lead 1800 mm | 36 177 01 | |
| LED ballast with Australia plug (75 W) | 30 222 01 | - |
| MP2 2-way distributor | 39 422 51 | - |
| MP2 6-way distributor | 36 996 01 | - |

* Further accessories in section Switch systems

## Technical details

| | |
|---|---|
| Luminaire type: | Surface-mounted light |
| Type of lighting: | Functional lighting / accent lighting |
| Operating voltage: | 24 V DC |
| Light colours: | WarmWhite/ NeutralWhite/ CoolWhite |
| Colour rendering | RA >90; R9 >60 |
| Luminous flux: | 1200 lm/m |
| Light source efficiency: | 125 l/W |
| Life span: | 40,000 h (L70) |
| Power consumption: | 9.6 W/m |
| Max. length at a stretch: | 5 m |
| Dimmable: | Yes/PWM/Smart.home |
| Number of LEDs: | 160/m |
| Beam angle: | 120° |
| Half value angle: | 70° |
| Test mark and symbols: | CE UKCA |
| Protection rating: | IP 20 |
| Supply lead: | 1800 mm |
| Plug connector: | LED-MultiPlug MP2 (max. 192 W) |
| Connection to: | LED ballast |

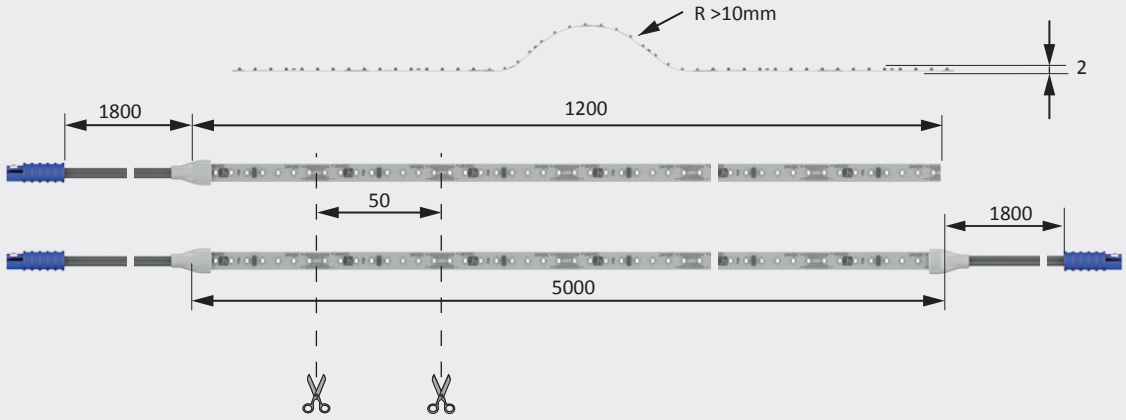
## Light distribution diagram 70°

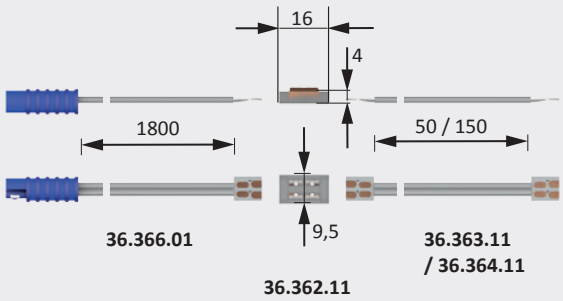


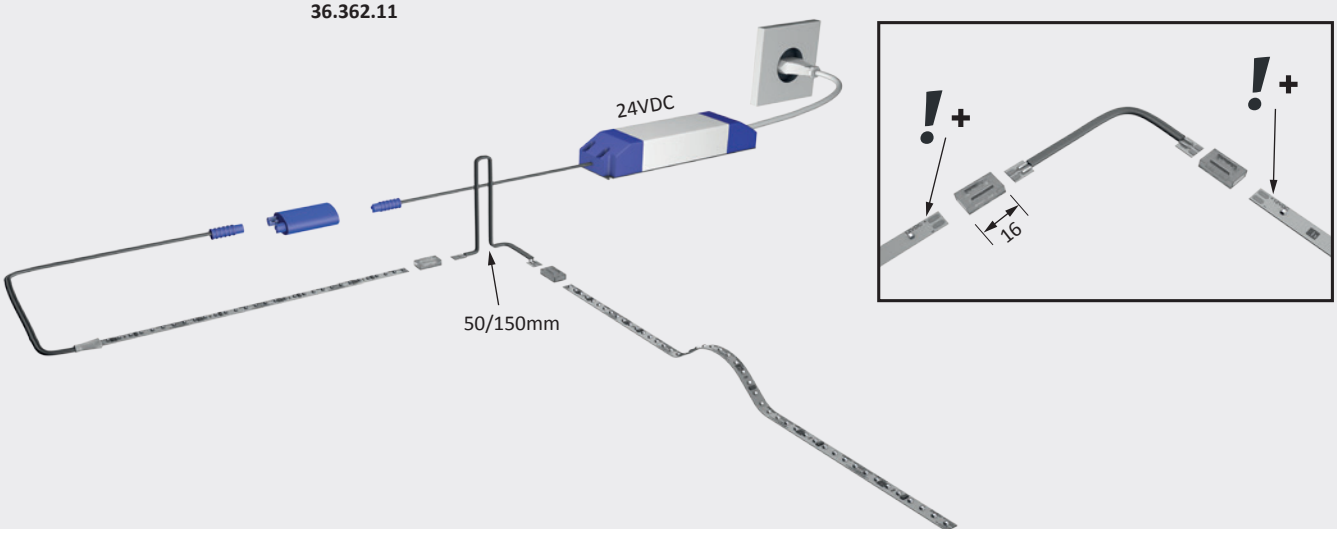

## Light box

## Dimensional drawing / installation

Can be individually cut to size



# Versa Inside 233 HP

### Advantages
- Very close LED spacing: 233 LED/m
- Can be shortened every 30 mm
- Flexible, self-adhesive

### Examples of use
- Luminaire design for high lighting requirements
- Must be used with aluminium profiles
- Clamped connections not permitted

### Features
- Homogeneous illumination of all ChannelLine profiles
- Lead on both sides for the 3000 mm length (one cut, two lights)
- Low installation height

### Order information
- Soldering leads are required for the 10 m roll
- For selection see Versa- and ChannelLine Overview

## Versa Inside 233 HP

| | WarmWhite | CoolWhite |
|---|---|---|
| 3000 mm (max. 72 W) | 55 844 14 | 55 844 24 |
| 10000 mm (max. 24 W/m) | 55 844 11 | 55 844 21 |

## Accessories*

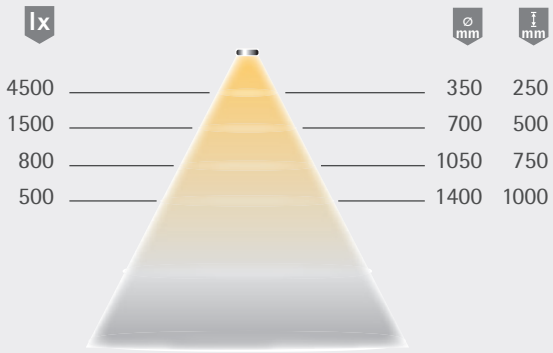
| | |
|---|---|
| Feeder for soldering 1800 mm for sections (max. 72 W) | 36 247 01 |
| Feeder for soldering 130 mm for sections (max. 72 W) | 36 247 02 |
| Feeder for soldering 1800 mm for sections (max. 150 W) | 39 416 01 |
| Feeder for soldering 130 mm for sections (max. 150 W) | 39 416 02 |
| LED ballast with Australia plug (75 W) | 30 222 01 |
| MP2 extension lead 1800 mm | 36 177 01 |
| MP2 2-way distributor | 39 422 51 |
| MP2 6-way distributor | 36 996 01 |

* Further accessories in section Switch systems

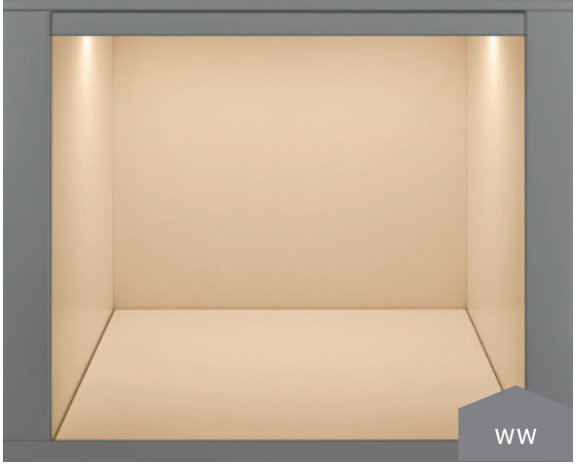
## Technical details

| | |
|---|---|
| Luminaire type: | Surface-mounted light |
| Type of lighting: | Functional lighting |
| Operating voltage: | 24 V DC |
| Light colours: | WarmWhite/ CoolWhite |
| Colour rendering: | RA >90; R9 >70 |
| Luminous flux: | 2200 lm/m |
| Light source efficiency: | 90 lm/W |
| Life span: | 40,000 h (L70) |
| Power consumption: | 24 W/m |
| Max. length at a stretch: | 3 m |
| Dimmable: | Yes/PWM/Smart.home |
| Number of LEDs: | 233/m |
| Beam angle: | 120° |
| Half value angle: | 70° |
| Test mark and symbols: | CE UKCA |
| Protection rating: | IP 20 |
| Plug connector: | LED MultiPlug MP2 (max. 192 W) |
| Connection to: | LED ballast |

## Light distribution diagram 70°



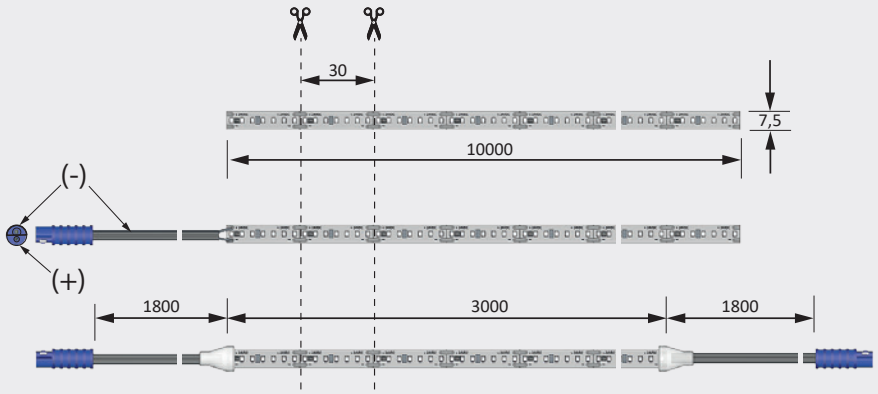

## Light box

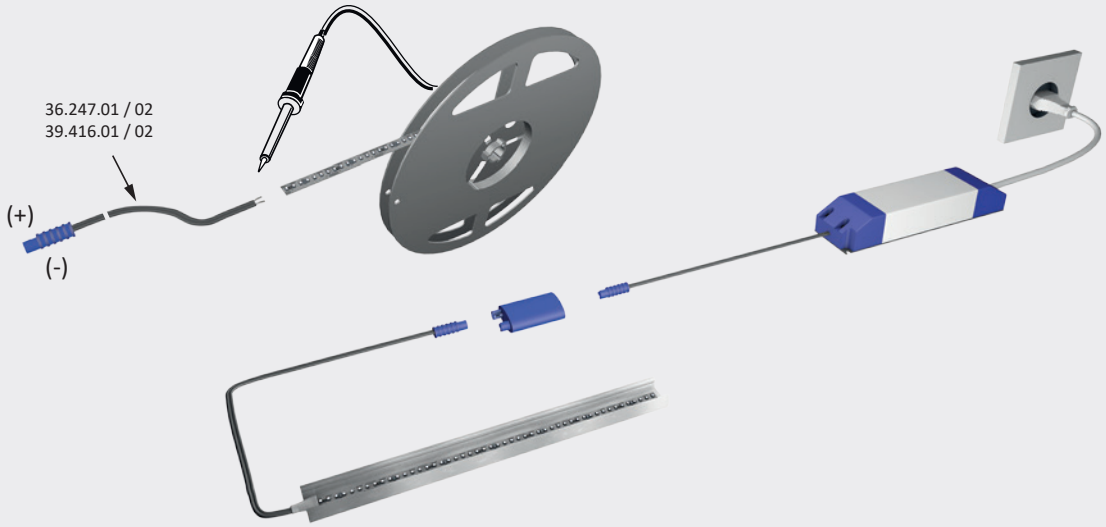





## Dimensional drawing / installation

Can be individually cut to size



# Versa Linear

**Advantages**
- Extremely uniform, homogeneous luminous surface
- Equally suited for unctional and accent lighting
- Perfect results even in flat profiles

**Features**
- Homogeneous illumination in ChannelLine profiles
- For 3000 mm length power supply from two sides (one cut, two lights), see drawing
- COB (Chip-On-Board) with continuous phosphor coating

**Examples of use**
- Especially for flat ChannelLine profiles
- Ideal for ChannlLine I, I2 and M
- Suitable for applications where the light source is visible e.g. frame lighting on mirror cabinet

**Order information**
- Soldering leads are required for the 10 m roll
- Colour uniformity (chromaticity) may vary
- For selection see Versa- and ChannelLine Overview

## Versa Linear (COB technology)

| | XtraWarm | WarmWhite | NeutralWhite |
|---|---|---|---|
| 1200 mm (max. 12 W) | 56 009 42 | 56 009 12 | 56 009 02 |
| 3000 mm (max. 30 W) | 56 009 43 | 56 009 13 | 56 009 03 |
| 10000 mm (max. 10 W/m) | 56 009 41 | 56 009 11 | 56 009 01 |

## Accessories*

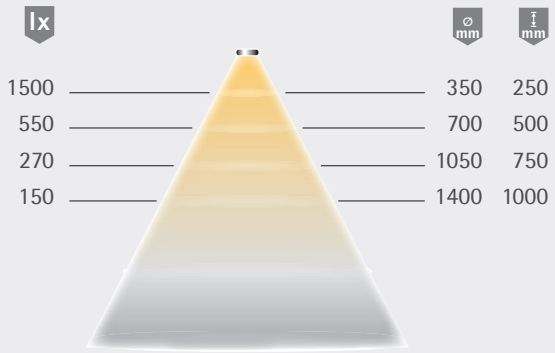
| | 1 piece |
|---|---|
| Direct connector COB | 36 358 01 |
| Flexible connector 50 mm COB | 36 359 01 |
| Flexible connector 150 mm COB | 36 360 01 |
| Feeder 1800 mm for sections COB | 36 361 01 |
| Soldering lead 130 mm for sections (max. 72 W) | 39 297 38 |
| Soldering lead 1800 mm for sections (max. 72 W) | 36 248 01 |
| LED ballast 15 W with Australia plug | 31 026 01 |
| LED ballast 30 W with Australia plug | 30 222 01 |
| M1 extension lead 1800 mm | 36 768 01 |
| M1 3-way distributor 180 mm | 36 852 01 |

* Further accessories in section Switch systems

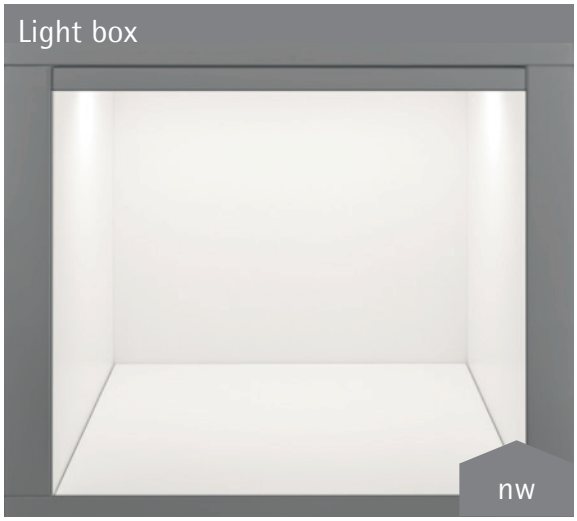
## Technical details

| | |
|---|---|
| Luminaire type: | Surface-mounted light |
| Type of lighting: | Function lighting/ Accent lighting |
| Operating voltage: | 12 V DC |
| Light colours: | XtraWarmWhite/ WarmWhite/ NeutralWhite |
| Colour rendering: | RA >90; R9 >60 |
| Luminous flux: | 1000 lm/m |
| Light source efficiency: | 100 lm/W |
| Life span: | 40,000 h (L70) |
| Power consumption: | 10 W/m |
| Max. length at a stretch: | 3.6 m |
| Dimmable: | Yes/PWM/Smart.home |
| Number of LEDs: | 480/m |
| Beam angle: | 120° |
| Half value angle: | 70° |
| Test mark and symbols: | CE UKCA |
| Protection rating: | IP 20 |
| Supply lead: | 1800 mm |
| Plug connector: | LED mini connector M1 (max. 36 W) |
| Connection to: | LED ballast |

## Light distribution diagram 70°

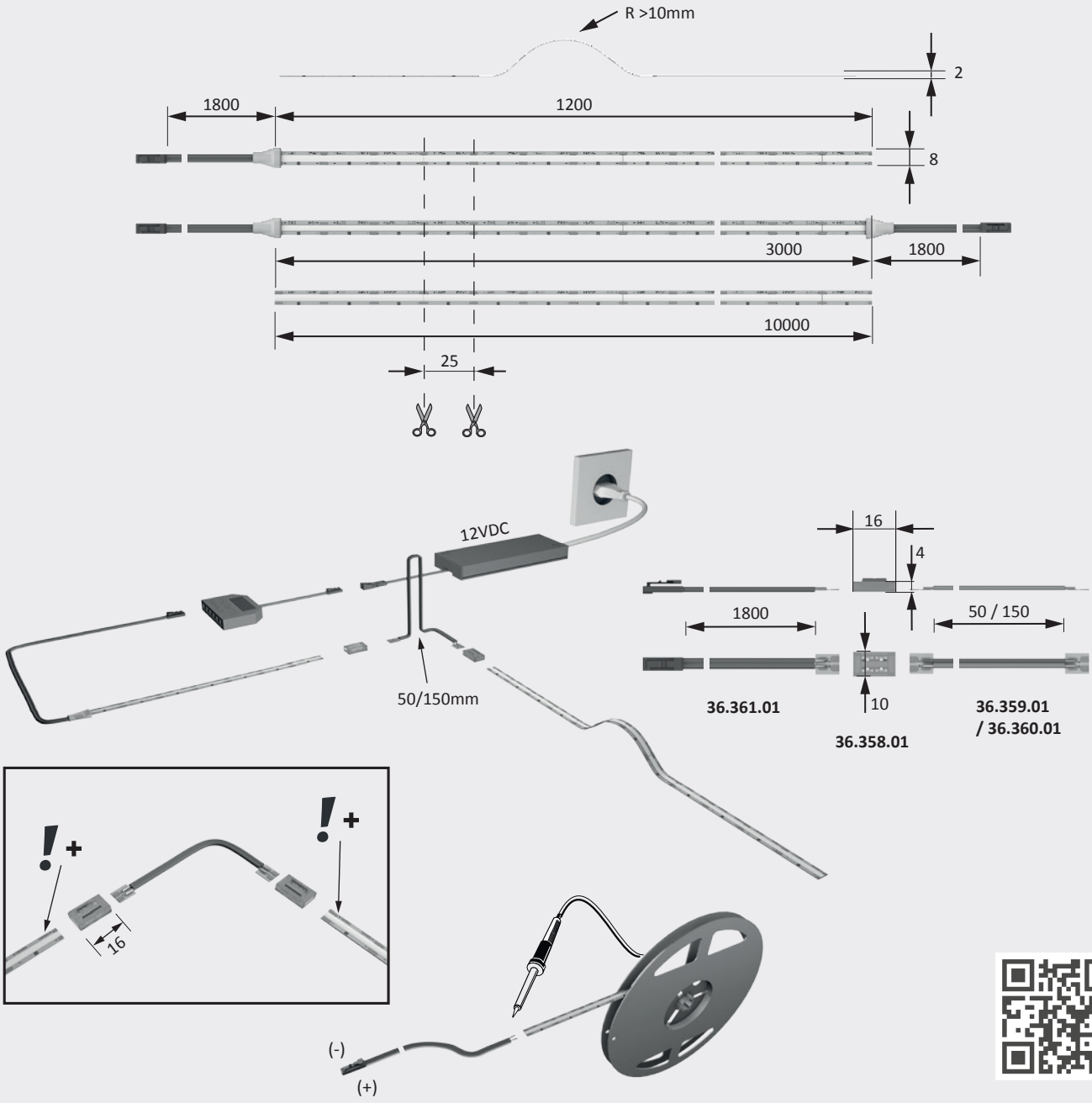



## Light box






## Dimensional drawing / installation Can be individually cut to size



# Versa Plus 80

**Advantages**
- 30 % more uniform light distribution
- 30 % more efficient
- 30 % more light

**Features**
- Protection against splash water (suitable for damp locations)
- Lead on both sides for the 5000 mm length (one cut, two lights), see drawing

**Examples of use**
- Ideal under wall cabinets and in front of plinths
- Accent lighting e.g. on bed headboards
- Indirect lighting in unprotected areas

**Order information**
- For selection see Versa- and ChannelLine Overview

## Versa Plus 80

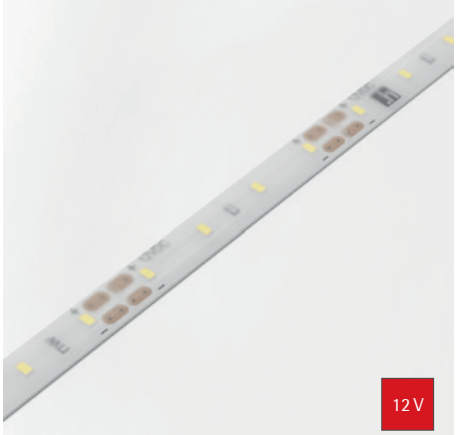
| | WarmWhite | NeutralWhite | CoolWhite |
|---|---|---|---|
| 5000 mm (max. 24 W) | 56 004 13 | 56 004 03 | 56 004 23 |

## Accessories***

| | |
|---|---|
| LED ballast 15 W with Australia plug | 31 026 01 |
| LED ballast 30 W with Australia plug | 30 221 01 |
| M1 extension lead 1800 mm | 36 768 01 |
| M1 3-way distributor 180 mm | 36 852 01 |

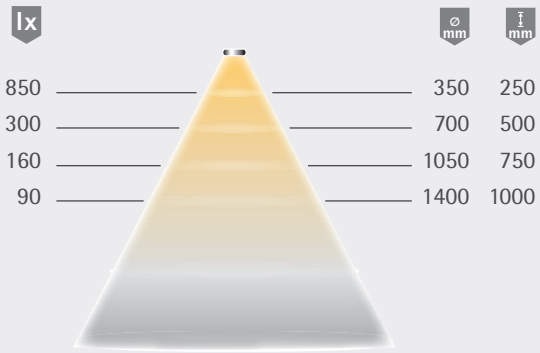
*** Further accessories in section Switch systems

## Technical details

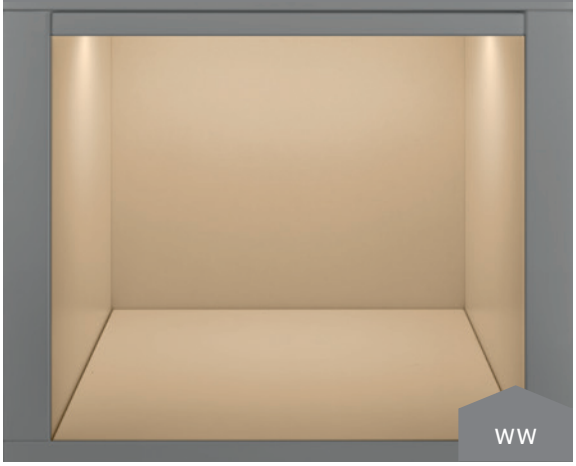



| | |
|---|---|
| Luminaire type: | Surface-mounted light |
| Type of lighting: | Accent lighting |
| Operating voltage: | 12 V DC |
| Light colours: | WarmWhite/ NeutralWhite/ CoolWhite/ |
| Colour rendering: | RA >90 |
| Luminous flux: | 480 lm/m |
| Light source efficiency: | 100 lm/W |
| Life span: | 40,000 h (L70) |
| Power consumption: | 4.8 W/m |
| Max. length at a stretch: | 5 m |
| Dimmable: | Yes/PWM/Smart.home |
| Number of LEDs: | 80/m |
| Beam angle: | 120° |
| Half value angle: | 70° |
| Test mark and symbols: | CE UKCA |
| Protection rating: | IP 44 (Only in the gated area) |
| Supply lead: | 1800 mm |
| Plug connector: | LED mini connector M1 (max. 36 W) |
| Connection to: | LED ballast |

## Light distribution diagram 70°

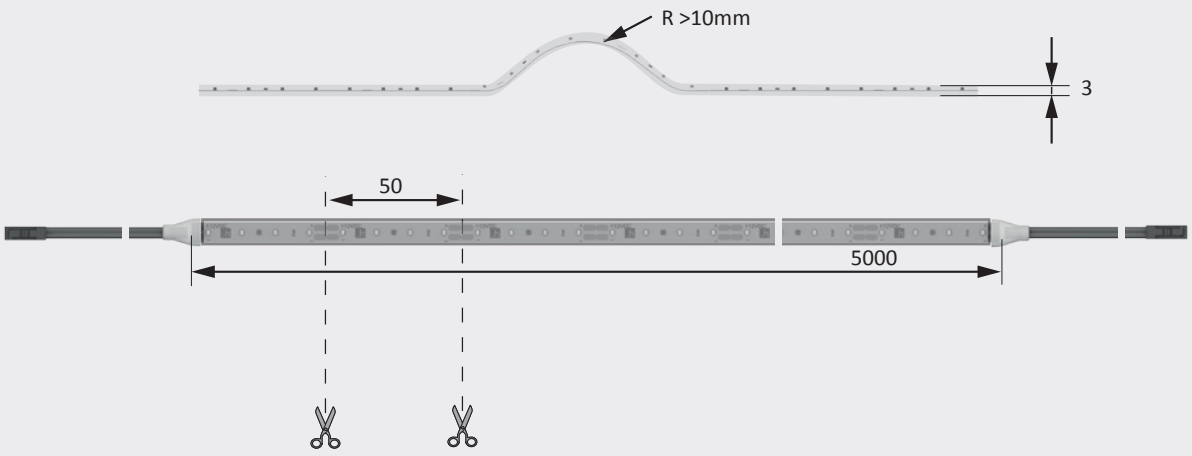


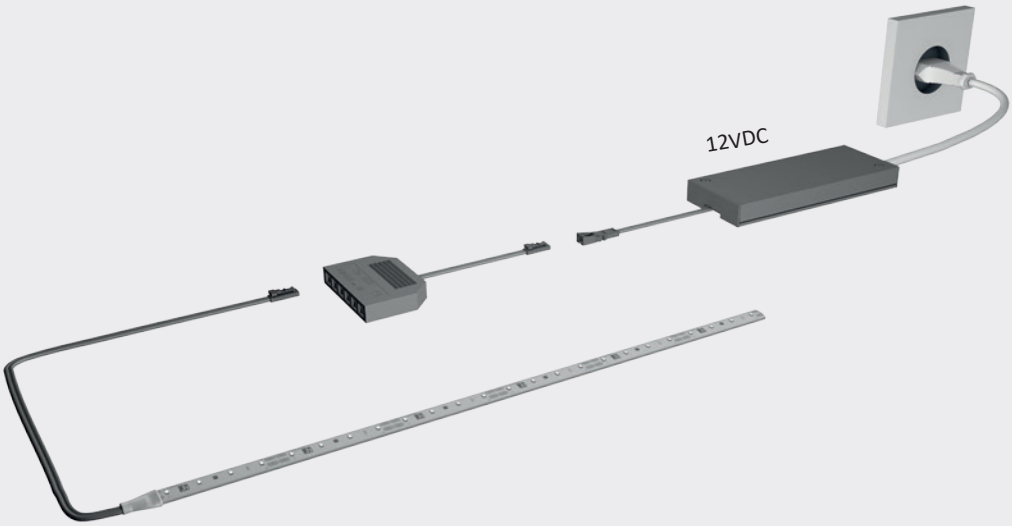

## Light box




## Dimensional drawing / installation

Can be individually cut to size



# Versa SuperPlus

**Advantages**
- Evenly illuminated area
- Lateral bending direction (see drawing)
- Flush mounting possible
- Can be individually cut to size

**Features**
- Protection against water jets from all directions (IP 65)
- Suitable for damp locations
- Supply lead on both sides (one cut, two lights), see drawing

**Examples of use**
- Round counters
- Decorative surfaces with visible curves
- Particularly narrow cabinet interior lighting

**Order information**
- Packaging unit consists of 1 piece Versa, 2 end caps and a silicone tube for sealing in wet room applications

## Versa Super Plus

| | WarmWhite |
|---|---|
| 2500 mm (max. 18.8 W) | 55 815 11 |

## Accessories*

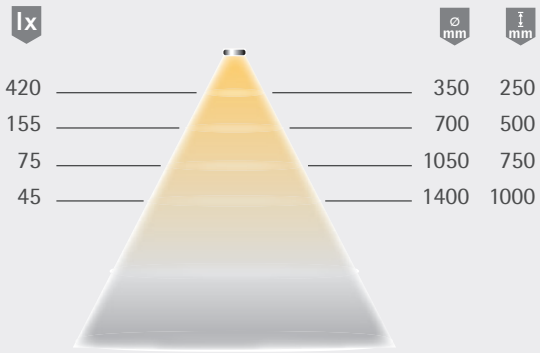
| | |
|---|---|
| LED ballast 15 W with Australia plug | 31 026 01 |
| LED ballast 30 W with Australia plug | 30 221 01 |
| MP2 2-way distributor | 39 422 51 |
| MP2 6-way distributor | 36 996 01 |

* Further accessories in section Switch systems

## Technical details

| | |
|---|---|
| Luminaire type: | Surface-mounted light |
| Type of lighting: | Accent lighting |
| Operating voltage: | 24 V DC |
| Light colours: | WarmWhite |
| Colour rendering: | RA >80 |
| Luminous flux: | 400 lm/m |
| Light source efficiency: | 53 lm/W |
| Life span: | 40,000 h (L70) |
| Power consumption: | 7.5 W/m |
| Max. length at a stretch: | 5 m |
| Dimmable: | Yes/PWM/Smart.home |
| Beam angle: | 120° |
| Half value angle: | 70° |
| Test marks and symbols: | CE UK CA |
| Protection rating: | IP 65 (Only in the gated area) |
| Supply lead: | 2 x 1800 mm |
| Plug connector: | LED MultiPlug MP2 (max. 192 W) |
| Connection to: | LED ballast |

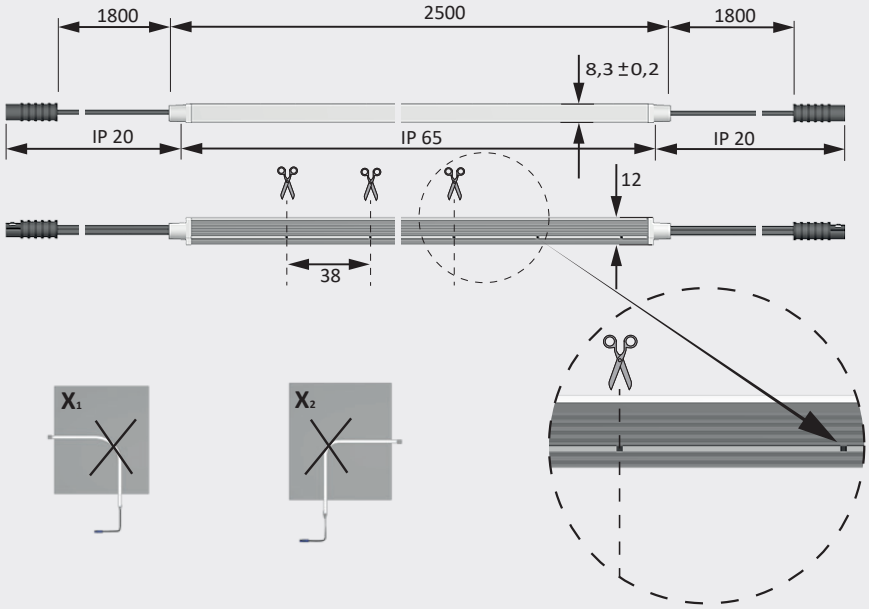
## Light distribution diagram 70°

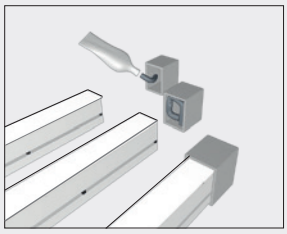


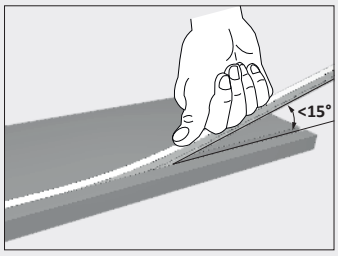

## Light box

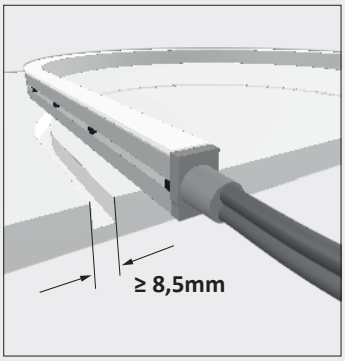
## Dimensional drawing / installation

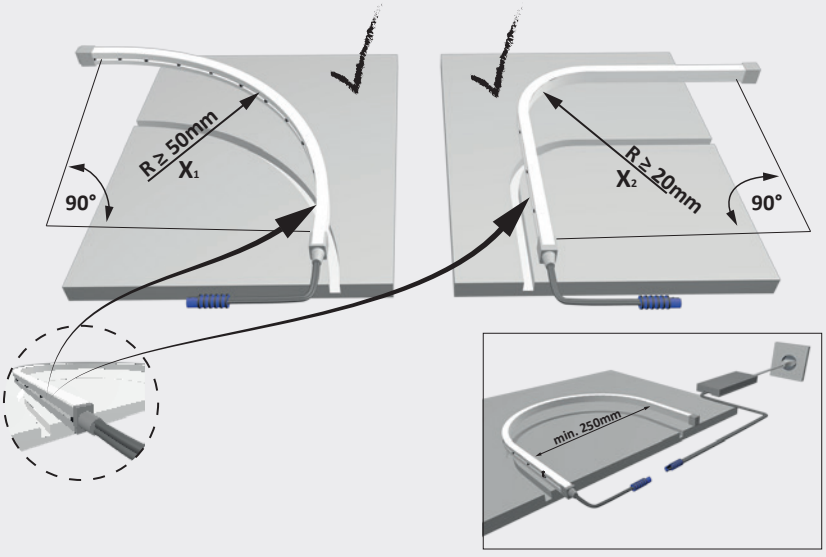
Can be individually cut to size





# Versa SuperPlus Mini

**Advantages**
- Evenly illuminated area
- Lateral bending direction (see drawing)
- Flush mounting possible
- Can be individually cut to size

**Examples of use**
- Round counters
- Decorative surfaces with visible curves
- Particularly narrow cabinet interior lighting

**Features**
- Protection against water jets from all directions
- Suitable for damp locations (IP 44)
- Supply lead on both sides (one cut, two lights), see drawing

## Versa Super Plus Mini

| | WarmWhite | NeutralWhite |
|---|---|---|
| 1200 mm (max. 7.2 W) | 55 864 12 | 55 864 02 |
| 5000 mm (max. 30 W) | 55 864 13 | 55 864 03 |

## Accessories*

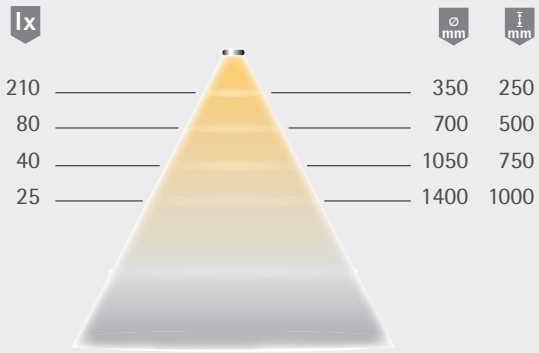
| | |
|---|---|
| LED ballast 15 W with Australia plug | 31 026 01 |
| LED ballast 30 W with Australia plug | 30 221 01 |
| M1 extension lead 1800 mm | 36 768 01 |
| M1 3-way distributor 180 mm | 36 852 01 |

* Further accessories in section Switch systems

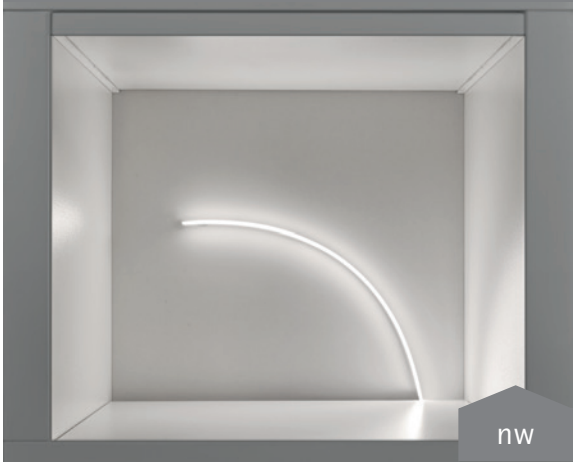
## Technical details

| | |
|---|---|
| Luminaire type: | LED surface-mounted/ recessed light |
| Type of lighting: | Accent lighting |
| Operating voltage: | 12 V DC |
| Light colours: | WarmWhite/ NeutralWhite |
| Colour rendering: | RA >80 |
| Luminous flux: | 150 lm/m |
| Luminaire efficiency: | 25 lm/W |
| Light source efficiency: | 115 lm/W |
| Life span: | 40,000 h (L70) |
| Power consumption: | 6 W/m |
| Max. length at a stretch: | 5 m |
| Dimmable: | Yes/PWM/Smart.home |
| Beam angle: | 120° |
| Half value angle: | 70° |
| Test mark and symbols: | CE UK CA |
| Protection rating: | IP 44 (Only in the gated area) |
| Supply lead: | 2 x 1800 mm |
| Plug connector: | LED mini M1 plug connector |
| Connection to: | LED ballast |

## Light distribution diagram 70°



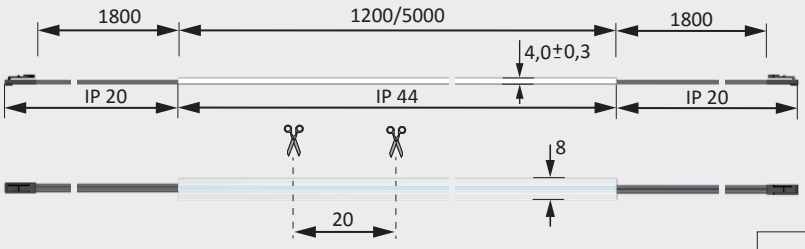

## Light box

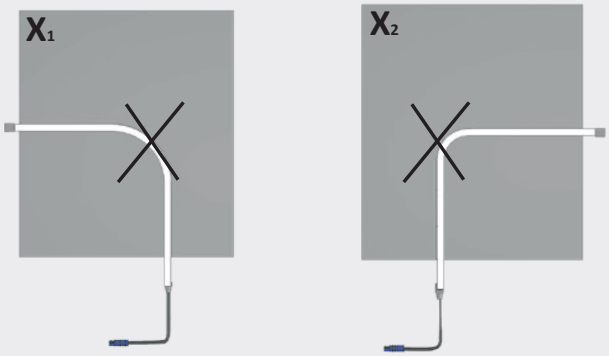


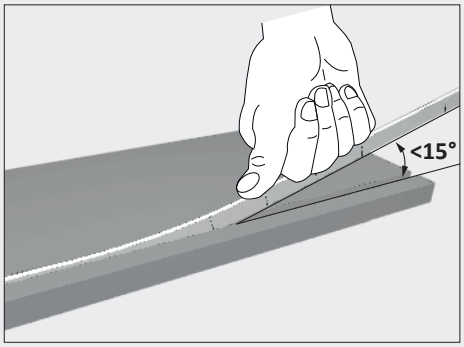


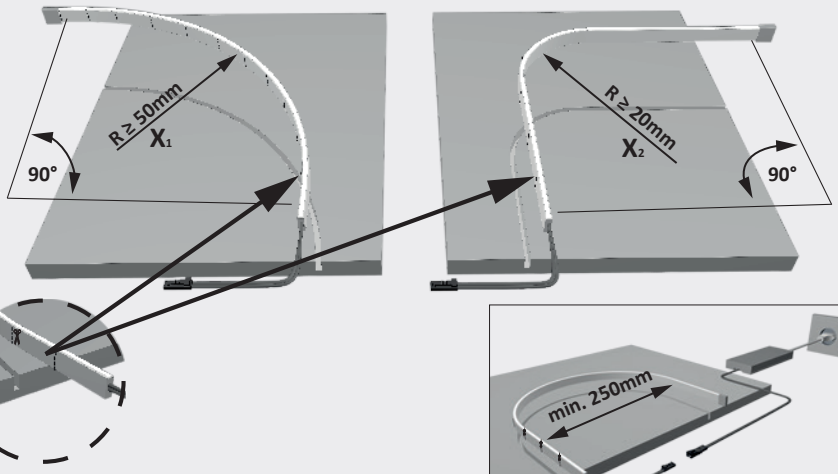

## Dimensional drawing / installation

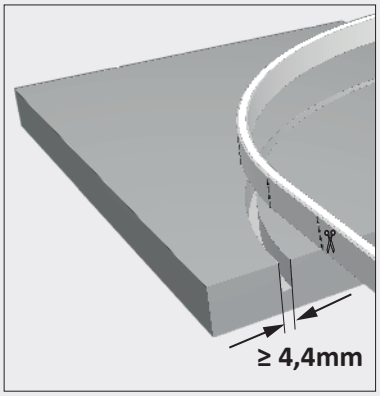
Can be individually cut to size

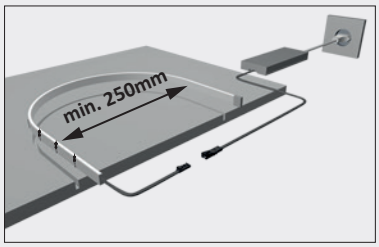


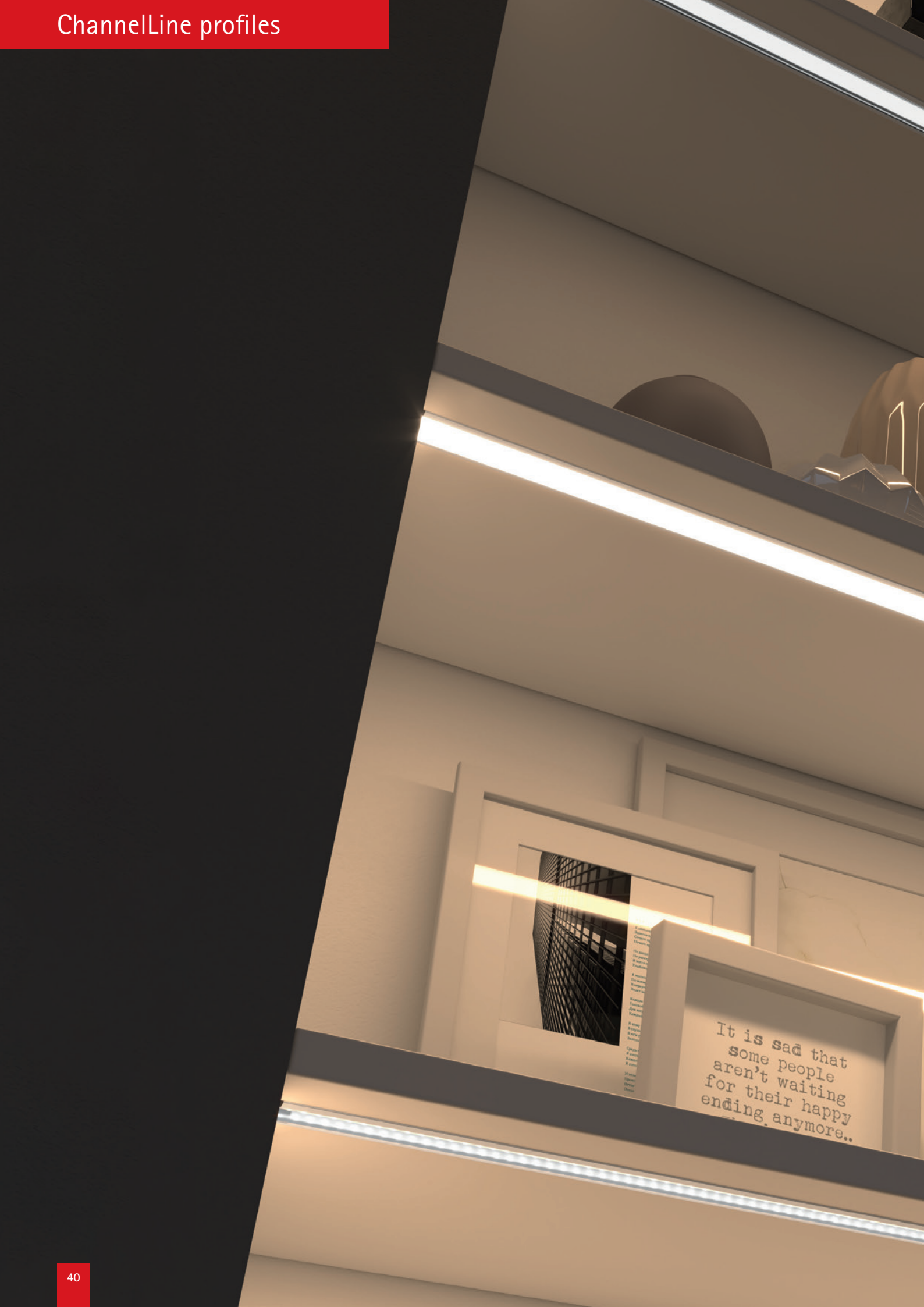




It is sad that
some people
aren't waiting
for their happy
ending anymore..

# ChannelLine profiles

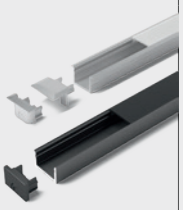
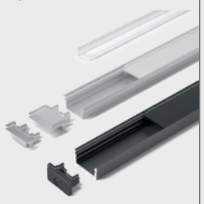
## Description of the different cover profiles

Black cover:
In switched off state, blends perfectly with aluminium. Very modern look. But influences light quantity and colour.

Opal cover:
The light is diffused, thus avoiding glare and, with a suitable combination of profile and strip, no LED light points are visible. The special material of the **Magic** covers hardly changes the light colour of the LED. Brightness is lost due to the diffusion effect.

Clear coverage:
Enables maximum light output or brightness, LEDs are visible, care must be taken to avoid glare.

## Recommended combinations of Versa strips in ChannelLine profiles

| Model | | ChannelLine A | ChannelLine B | | ChannelLine C / D | | | ChannelLine i / i2 | |
|---|---|---|---|---|---|---|---|---|---|
| | | |  | |  | | | | |
| Cover | | Opal | Opal | Black | Clear | Opal | Black | Opal | Black |
| Advantages | | High quality recessed profile<br>Homogeneous and glare-free light line<br>Can be used at sight level | High quality deep recessed profile<br>B with filigree profile trim<br>D2 for flush mounting | | High-quality flat recessed/surface-mounted profile<br>C with filigree profile trim<br>D for flush installation | | | High-quality filigree recessed/surface-mounted profile<br>2 with filigree profile trim<br>I for flush mounting | |
| Applications / product features | | Edge lighting for kitchen worktops<br>backlighting | Interior cabinet lighting in the floor<br>Kitchen niches or top shelves, mirror frame lighting | | Interior cabinet lighting in the floor<br>Kitchen niche or top shelves, niches | | | Accent lighting in display cabinets or shelves<br>Staircase steps | |
| Light transmission | | 90 % | 65 % | 15 % | 85 % | 70 % | 20 % | 70 % | 20 % |
| Half-value angle | | 90° | 60° | | 60° | | | 60° | |
| Versa 40 | Type of lighting | Accent light | Accent light | Accent light | Accent light | | | Accent light | |
| | Light point visibility | Low | Visible | | Visible | | | Visible | |
| Versa 80 | Type of lighting | Accent light | Accent light | | Accent light | | | Accent light | |
| | Light point visibility | Invisible | low | Visible | Visible | | | Visible | |
| Versa 120 | Type of lighting | Accent/functional light | Accent/functional light | Accent light | Accent/functional light | | Accent light | Accent/functional light | Accent light |
| | Light point visibility | Invisible | Invisible | Invisible | Visible | | Visible | Visible | |
| Versa 160 | Type of lighting | Functional light | Functional light | Accent light | Functional light | | Accent light | Functional light | Accent light |
| | Light point visibility | Invisible | Invisible | Invisible | Visible | Invisible | | Visible | |
| Versa 233 HP | Type of lighting | Functional light | Functional light | | Functional light | | | Functional light | Functional light |
| | Light point visibility | Invisible | Invisible | | Visible | Invisible | | Invisible | Invisible |
| | | | | | | | | Accent/functional light | Accent light |
| | | | | | | | | Invisible | Invisible |

ChannelLine profiles

# ChannelLine A

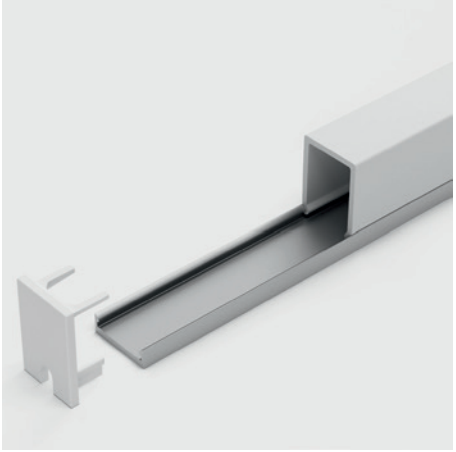
**Advantages**
- High quality recessed profile
- Homogeneous and glare-free light line
- Can be installed at sight level

**Features**
- Homogeneous light line with Versa Inside from 80 LED/m
- Beam angle in installed condition is approx. 35°

**Examples of use**
- Edge lighting for kitchen countertops or vertically between fronts
- Backlighting for low or sideboards

**Order information**
- Use of feeders and connectors possible in profile
- For selection see ChannelLine overview

## Technical details



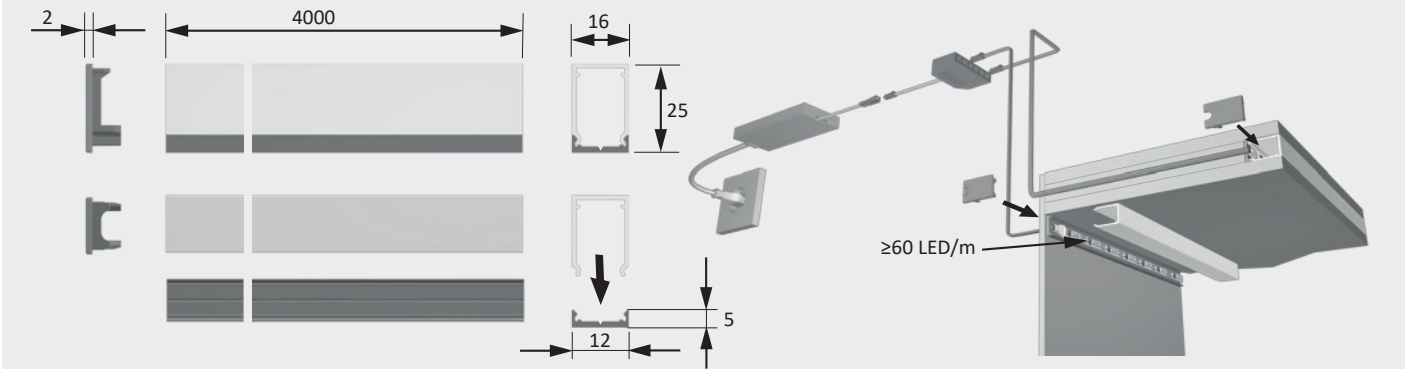
**Recommended for:**

Versa Inside 80
Versa Inside 120

## ChannelLine A

| | Opal |
|---|---|
| 4000 mm | 38 817 02 |
| End cap (2 units per set) | 25 567 01 |

## Dimensional drawing / installation



# ChannelLine B

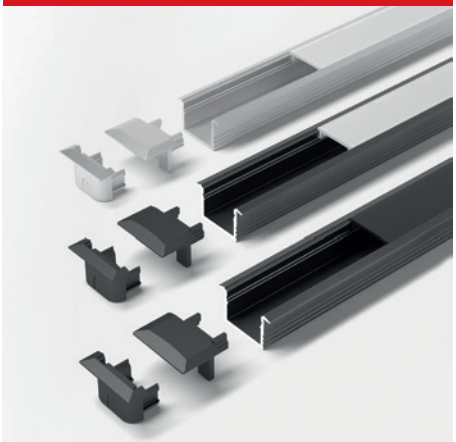
**Advantages**
- High quality deep recessed profile
- With filigree profile trim
- Cover is attachable from above or retractable from the side

**Features**
- New Opal cover - 30% more light and and only slight change in light colour
- Homogeneous light line with Versa Inside from 120 LED/m
- Wide beam angle of approx. 100°

**Examples of use**
- Interior cabinet lighting in the floor
- Kitchen niche or top
- Shelves

**Order information**
- Use of feeders and connectors in the profile possible
- To increase the luminosity, two Versa Inside can be attached side by side
- For selection see ChannelLine overview

## Technical details



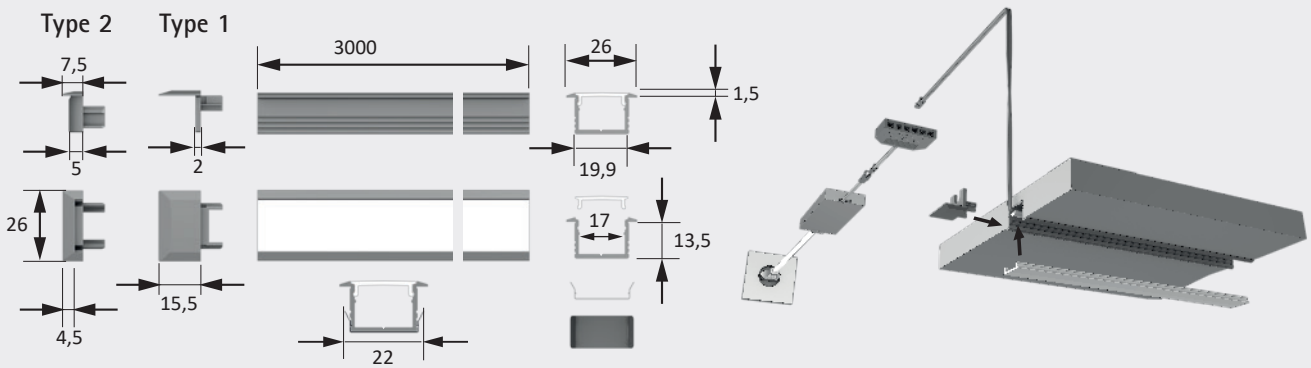
**Recommended for:**

Versa Inside 120
Versa Inside 160

## ChannelLine B

| | Alu / Opal | Black / Opal |
|---|---|---|
| 3000 mm | 55 871 02 | 55 871 06 |
| End cap (set of 2) lacquered | 25 568 01 | 25 568 05 |
| End cap type 2 (set of 2) lacquered | 25 785 01 | 25 785 05 |
| Built-in spring ChannelLine B (set of 2) | 25 536 01 | 25 536 01 |

## Dimensional drawing / installation



# ChannelLine C

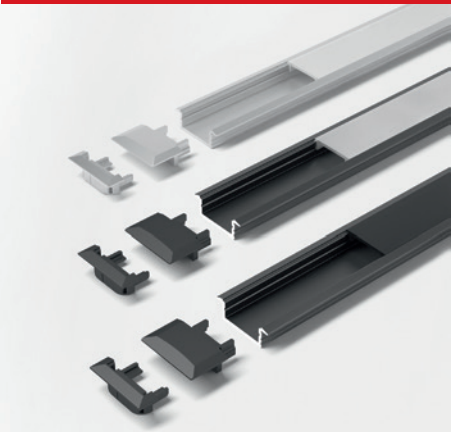
**Advantages**
- High quality flat recessed profile
- With filigree profile trim
- Cover can be attached from above or from the side

**Features**
- New opal cover - 30% more light and and only slight change in light colour
- Homogeneous light line with Versa Inside from 160 LED/m
- Wide beam angle of approx. 110°

**Examples of use**
- Interior cabinet lighting in the floor
- Kitchen niche or top
- Shelves

**Order information**
- Use of feeders and connectors in the profile possiblea
- To increase the luminosity, two Versa Inside can be attached side by side
- For selection see ChannelLine overview

## Technical details



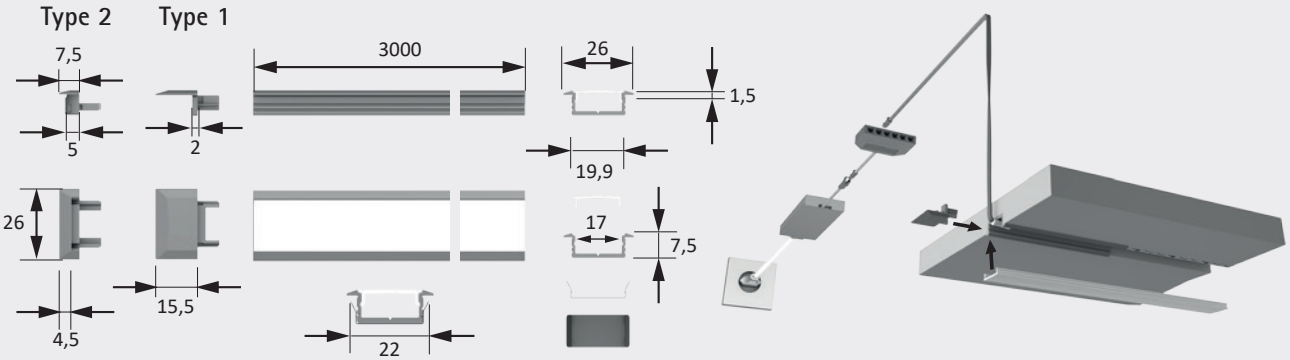
**Recommended for:**

Versa Inside 120
Versa Inside 160

### ChannelLine C

| | Alu / Opal | Alu / Clear | Black / Opal | Black / Black |
|---|---|---|---|---|
| 3000 mm | 55 872 02 | 55 661 12 | 55 872 06 | 55 872 08 |
| End cap (set of 2) lacquered | 25 569 01 | 25 569 01 | 25 569 05 | 25 569 05 |
| End cap type 2 (set of 2) lacquered | 25 786 01 | 25 786 01 | 25 786 05 | 25 786 05 |
| Built-in spring ChannelLine C (set of 2) | 25 536 01 | 25 536 01 | 25 536 01 | 25 536 01 |

## Dimensional drawing / installation



# ChannelLine D

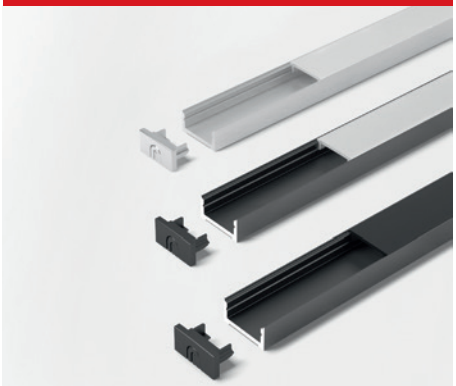
**Advantages**
- High-quality flat recessed/surface-mounted profile
- For flush mounting
- Cover can be attached from above or from the side

**Features**
- New opal cover - 30% more light and and only slight change in light colour
- Homogeneous light line with Versa Inside from 160 LED/m with opal diffuser
- Very wide beam angle of approx. 110°

**Examples of use**
- Flush with the inside of the cabinet
- Retrofitting in niches

**Order information**
- Use of feeders and connectors in the profile possible
- To increase the luminosity, two Versa Inside can be attached side by side
- For selection see ChannelLine overview

## Technical details



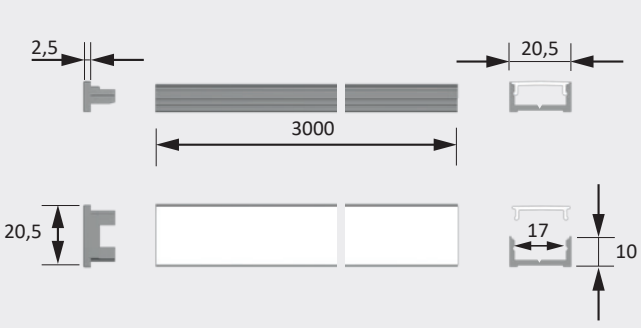
Recommended for:

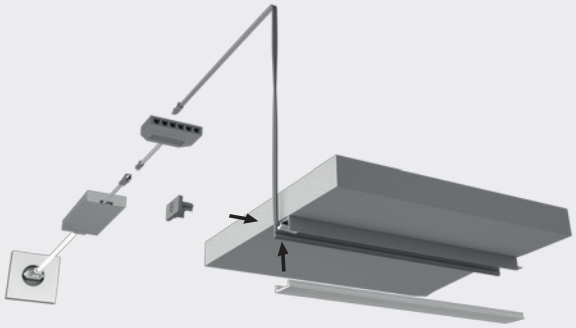
Versa Inside 120
Versa Inside 160

## ChannelLine D

| | Alu / Opal | Alu / Clear | Black / Opal | Black / Black |
|---|---|---|---|---|
| 3000 mm | 55 873 02 | 55 662 12 | 55 873 06 | 55 873 08 |
| End cap (set of 2) lacquered | 25 570 01 | 25 570 01 | 25 570 05 | 25 570 05 |

## Dimensional drawing / installation



# ChannelLine i

**Advantages**
- High-quality recessed/surface-mounted profile
- Almost rimless illuminated surface
- For flush mounting
- Filigree profile for thin materials

**Features**
- New opal cover - 30% more light and and only slight change in light colour
- Homogeneous light line with Versa Inside from 233 LED/m
- Very wide beam angle of approx. 100°

**Examples of use**
- Flush with cabinet sides or shelves
- Retrofitting in niches

**Order information**
- For selection see ChannelLine overview

## Technical details

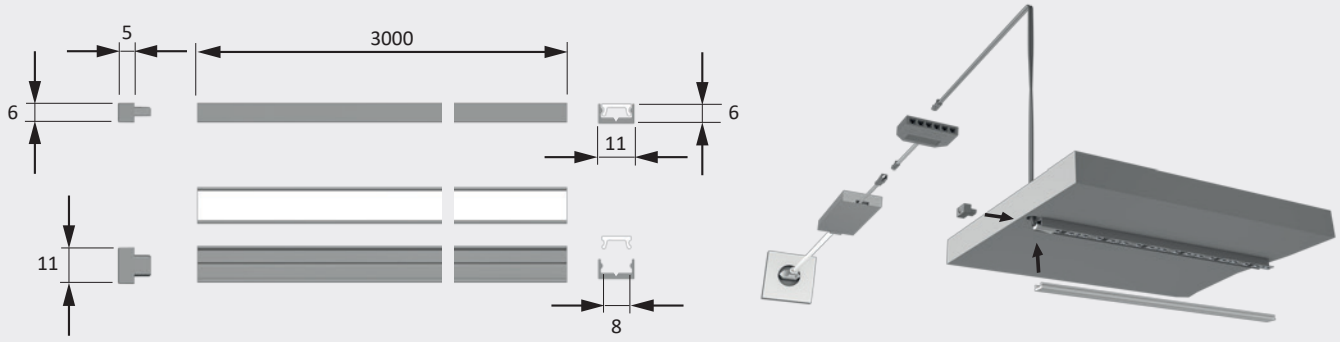
**Recommended for:**

Versa Inside 233 HP

### ChannelLine i

| | Alu/Opal | Black/Opal | Black / Black |
|---|---|---|---|
| 3000 mm | 55 874 02 | 55 874 06 | 55 874 08 |
| End cap (set of 2) lacquered | 25 563 01 | 25 563 05 | 25 563 05 |

## Dimensional drawing / installation



# ChannelLine i2

**Advantages**
- High quality recessed profile
- With filigree profile trim
- Glare-free and concentrated light emission
- Filigree profile for thin materials

**Features**
- New Opal cover - 30% more light and and only slight change in light colour
- Homogeneous light line with Versa Inside from 160 LED/m with opal cover
- Narrow beam angle of approx. 35°

**Examples of use**
- Accent lighting in display cabinets or shelves
- Stairs

**Order information**
- For selection see ChannelLine overview

## Technical details

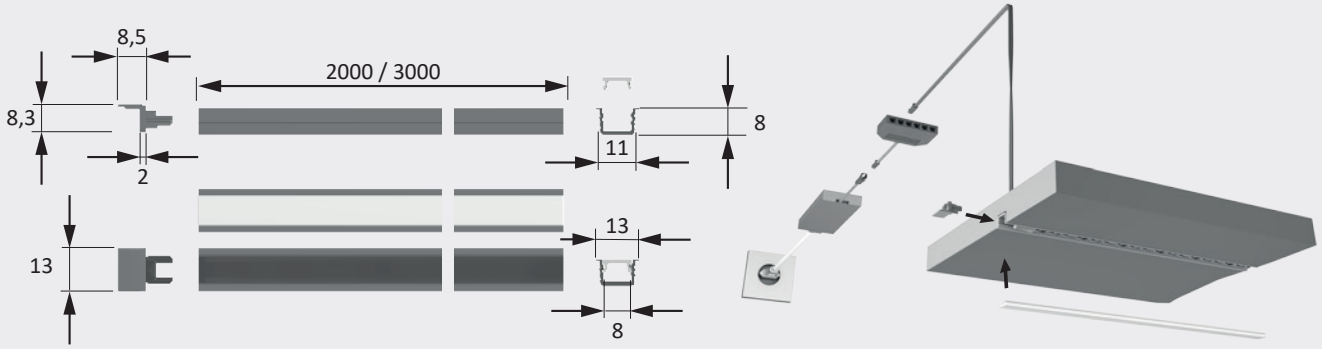
### ChannelLine i2

| | Alu / Opal | Black / Opal |
|---|---|---|
| 3000 mm | 55 887 02 | 55 887 06 |
| End cap (set of 2) lacquered | 25 799 01 | 25 799 05 |

**Recommended for:**

Versa Inside 160
Versa Inside 233 HP
Versa Linear

## Dimensional drawing / installation



# ChannelLine L

**Advantages**
- Recessed profile with chrome-plated design strip
- Glare-free light emission

**Features**
- Homogeneous light line with Versa Inside from 80 LED/m
- Plastic profile

**Examples of use**
- Wardrobe halo lighting
- Mirror frame lighting

## Technical details

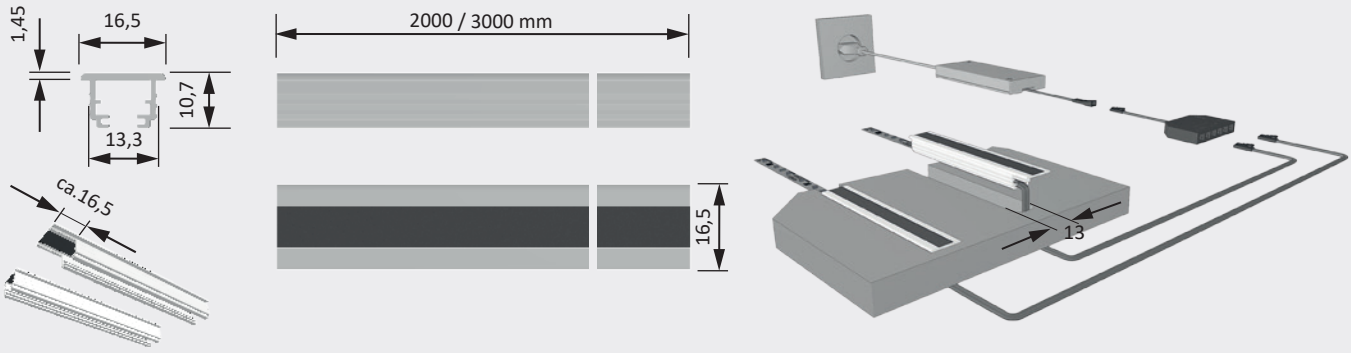
### ChannelLine L

| | Opal |
|---|---|
| 3000 mm | 55 759 02 |

**Recommended for:**

Versa Inside 80
Versa Inside 120

## Dimensional drawing / installation



# ChannelLine M

**Advantages**
- Filigree inlet profile in anodised aluminium
- Glare-free and angled light emission
- No light loss due to cover

**Features**
- Homogeneous light line with Versa Linear
- Unidirectional beam angle of approx. 90°

**Examples of use**
- Interior cabinet lighting as a functional or accent lighting

**Order information**
- Only suitable for 8 mm wide Versa
- For selection see ChannelLine overview

## Technical details

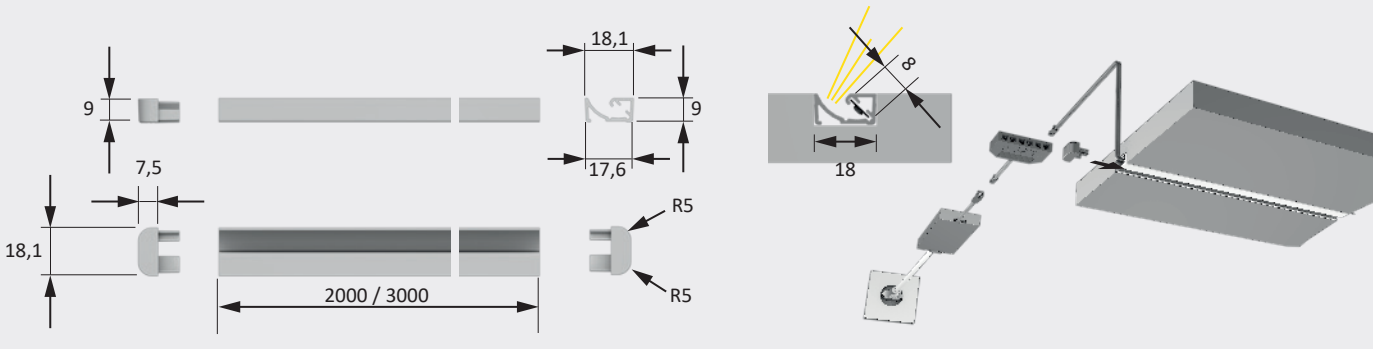
## ChannelLine M

| | Aluminium |
|---|---|
| 3000 mm | 55 760 02 |
| End cap (set of 2) lacquered | 25 984 01 |

**Recommended for:**

Versa Linear

## Dimensional drawing / installation



# ChannelLine Sensor PIR

**Advantages**
- Motion sensor for insertion into the profile
- Responds to heat and movement

**Features**
- Direct installation in the ChannelLine profile

**Examples of use**
- For ChannelLine B, C, D

**Order information**
- Also suitable for MultiWhite Versa

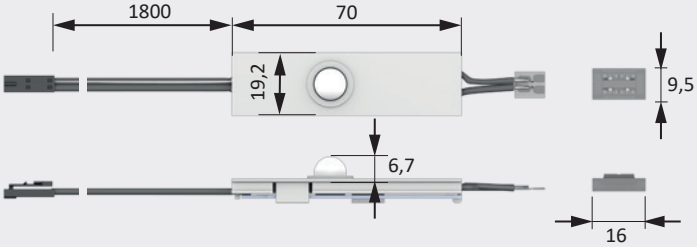
## Technical details

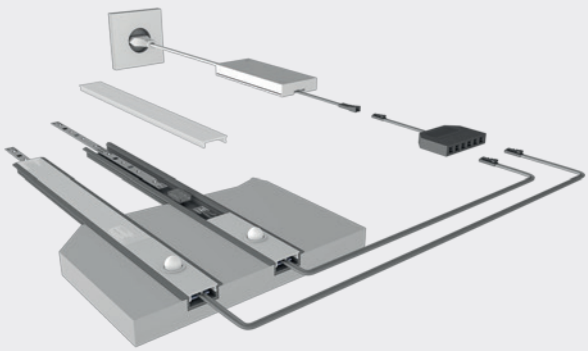
| | |
|---|---|
| Operating voltage: | 12 V DC |
| Max. switching power: | 36 W |
| Test marks and symbols: | CE |
| Sensing angle: | 120° |
| Range: | 2 m |
| Stay-'ON' time: | 30 seconds |
| Supply lead: | 1800 mm |
| Standby: | < 0.5 W |

## ChannelLine PIR Motion Sensor

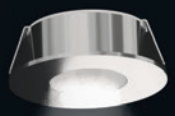
| | |
|---|---|
| ChannelLine sensor 12 V DC | 30 170 01 |

## Dimensional drawing / installation



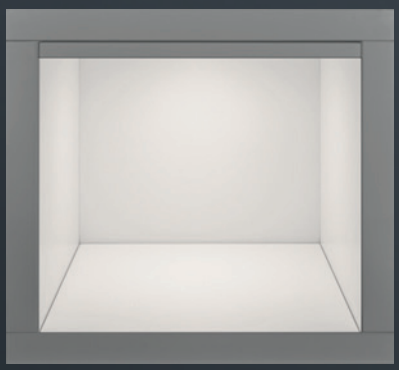



ChannelLine profiles



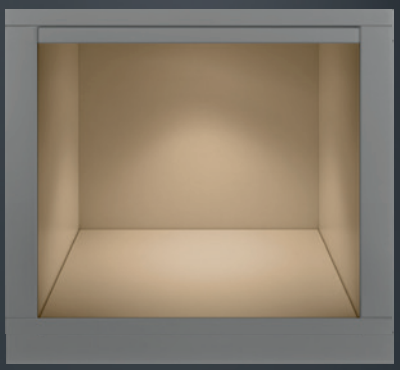
## Wide beam LitePanel 68

LitePanel creates bright light – into the furthest corners of the furniture.



## StarPoint Flood

Powerful LED light with small beam angle.



# Spotlights

## Outwardly small, but big in luminosity

Our spotlights are small in size but big in performance: in relation to their size, they impress with excellent light output.

Built into ceilings or furniture, they shine with accentuated, focused or pointed light.

# LitePanel 68

**Advantages**
- Modern luminaire in discreet design
- Low installation depth
- 100 % homogeneous luminous surface

**Examples of use**
- Shelves
- Display cabinets
- Kitchen midway sections

**Features**
- High light output in relation to size
- Recessed luminaire for 68 mm mounting diameter
- Wide beam without shadows

**Order information**
- MultiWhite control for colour adjustment required
- With direct connection to an electronic ballast, the light colour is XtraWarmWhite (2700K)
- Use at least two luminaires per meter of kitchen niche

## LitePanel 68

| | MultiWhite* |
|---|---|
| Black | 32 348 35 |
| Stainless steel look, anodised | 32 348 39 |

## Accessories**

| | |
|---|---|
| S-Mitter Basic MultiWhite Smart Set | 31 123 01 |
| LED ballast 30 W with Australia plug | 30 221 01 |
| M1 extension lead 1800 mm | 36 768 01 |
| M1 3-way distributor 180 mm | 36 852 01 |
| M1 6-way distributor 2000 mm | 36 125 01 |

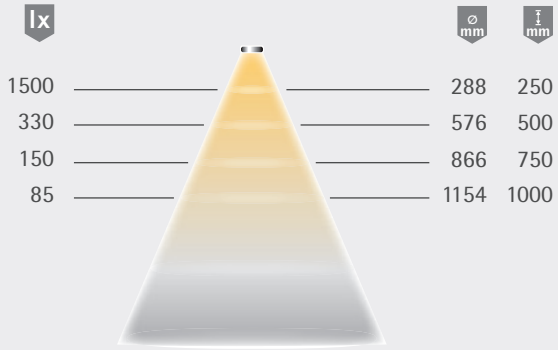
* MultiWhite accessories required
** Further accessories in section Switch systems

## Technical details

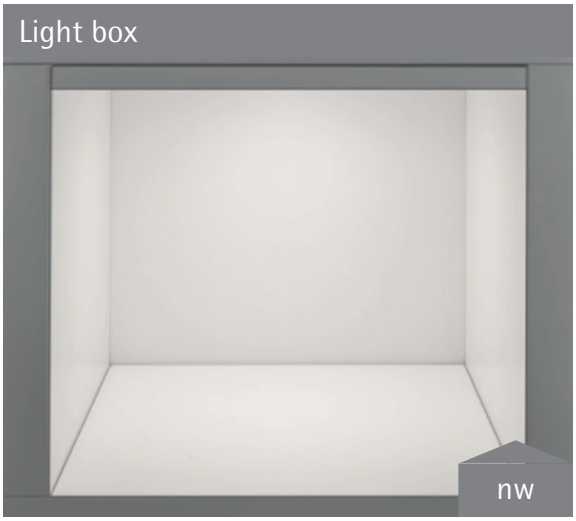
12 V

| | |
|---|---|
| Luminaire type: | LED recessed light |
| Type of lighting: | Functional / accent lighting |
| Surface finish: | Black/ stainless steel look |
| Operating voltage: | 12 V DC |
| Light colour: | MultiWhite |
| Colour rendering: | RA >80 |
| Luminous flux: | 290 lm |
| Luminaire efficiency: | 67 lm/W |
| Light source efficiency: | 84 lm/W |
| Life span: | 40,000 h (L70) |
| Power consumption: | 4.3 W |
| Dimmable: | Yes/PWM/Smart.home |
| Beam angle: | 90° |
| Half value angle: | 60° |
| Test mark and symbols: | CE UK |
| Protection rating: | IP 20 |
| Installed diameter: | 68 mm |
| Supply lead: | 1800 mm |
| Plug connector: | LED mini M1 plug connector |
| Connection to: | LED ballast |

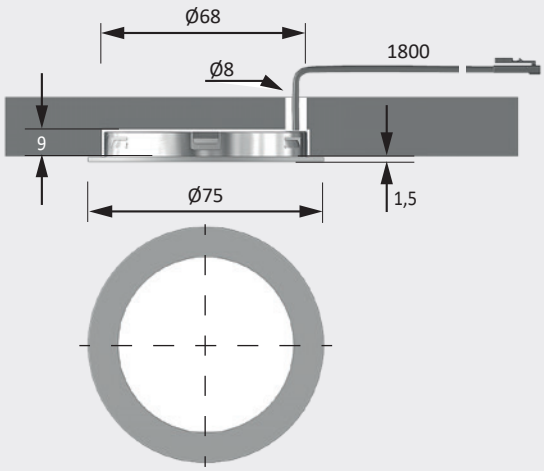
## Light distribution diagram 60°

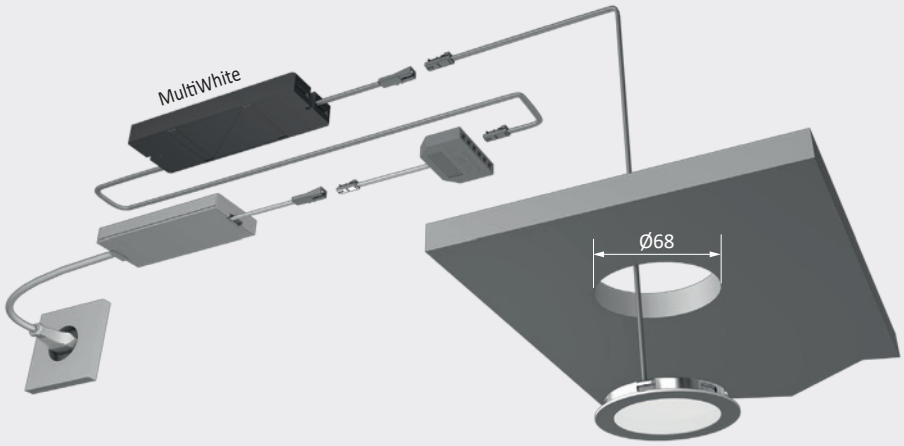



## Light box




## Dimensional drawing / installation



# Sign Plus

**Advantages**
- Classic model
- Lamp in retro design

**Examples of use**
- Flat shelves

**Features**
- Wide beam angle
- Shadow-free illumination
- Recessed light with 68 mm installed diameter

## Sign Plus

| | WarmWhite | NeutralWhite | CoolWhite |
|---|---|---|---|
| Aluminium look - single light | 32 977 16 | 32 977 06 | 32 977 26 |
| Aluminium look - 3 Ligh Set incl. ballast | 40 143 16 | 40 143 06 | 40 143 26 |

## Accessories*

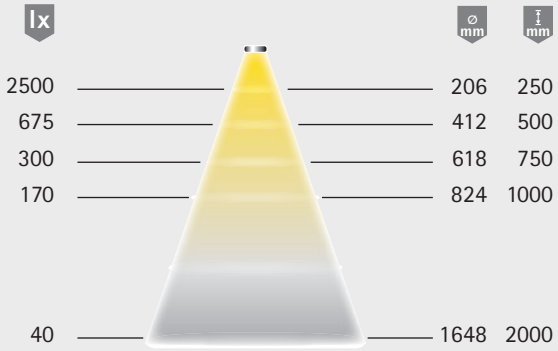
| | |
|---|---|
| Surface-mounted housing | 36 151 06 |
| LED ballast 15 W with Australia plug | 31 026 01 |
| M1 extension lead 1800 mm | 36 768 01 |
| M1 3-way distributor 180 mm | 36 852 01 |
| M1 6-way distributor 2000 mm | 36 125 01 |

* Further accessories in section Switch systems

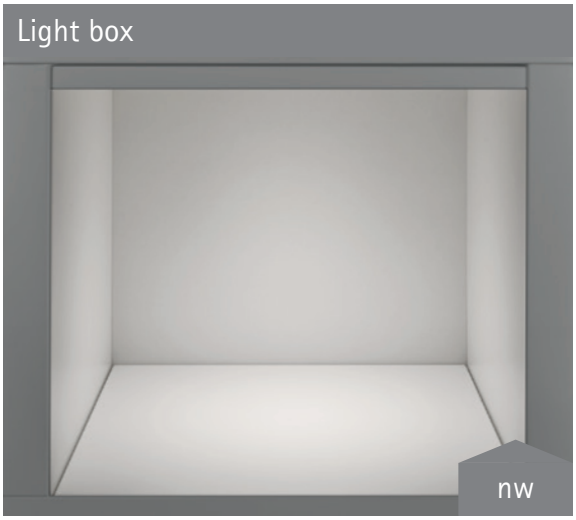
## Technical details

| | |
|---|---|
| Luminaire type: | LED recessed light |
| Type of lighting: | Functional / accent lighting |
| Surface finish: | Aluminium look |
| Operating voltage: | 12 V DC |
| Light colour: | WarmWhite/ NeutralWhite/CoolWhite |
| Colour rendering index CRI: | >85 |
| Energy efficiency: | A+ 67 lm/W |
| Life span: | 30,000 h (L70) |
| Power consumption: | 2.3 W |
| Dimmable: | Yes |
| Beam angle: | 45° |
| Test marks and symbols: | |
| Protection rating: | IP 20 |
| Installed diameter: | 68 mm |
| Supply lead: | 1800 mm |
| Plug connector: | LED mini M1 plug connector |
| Connection to: | LED ballast |

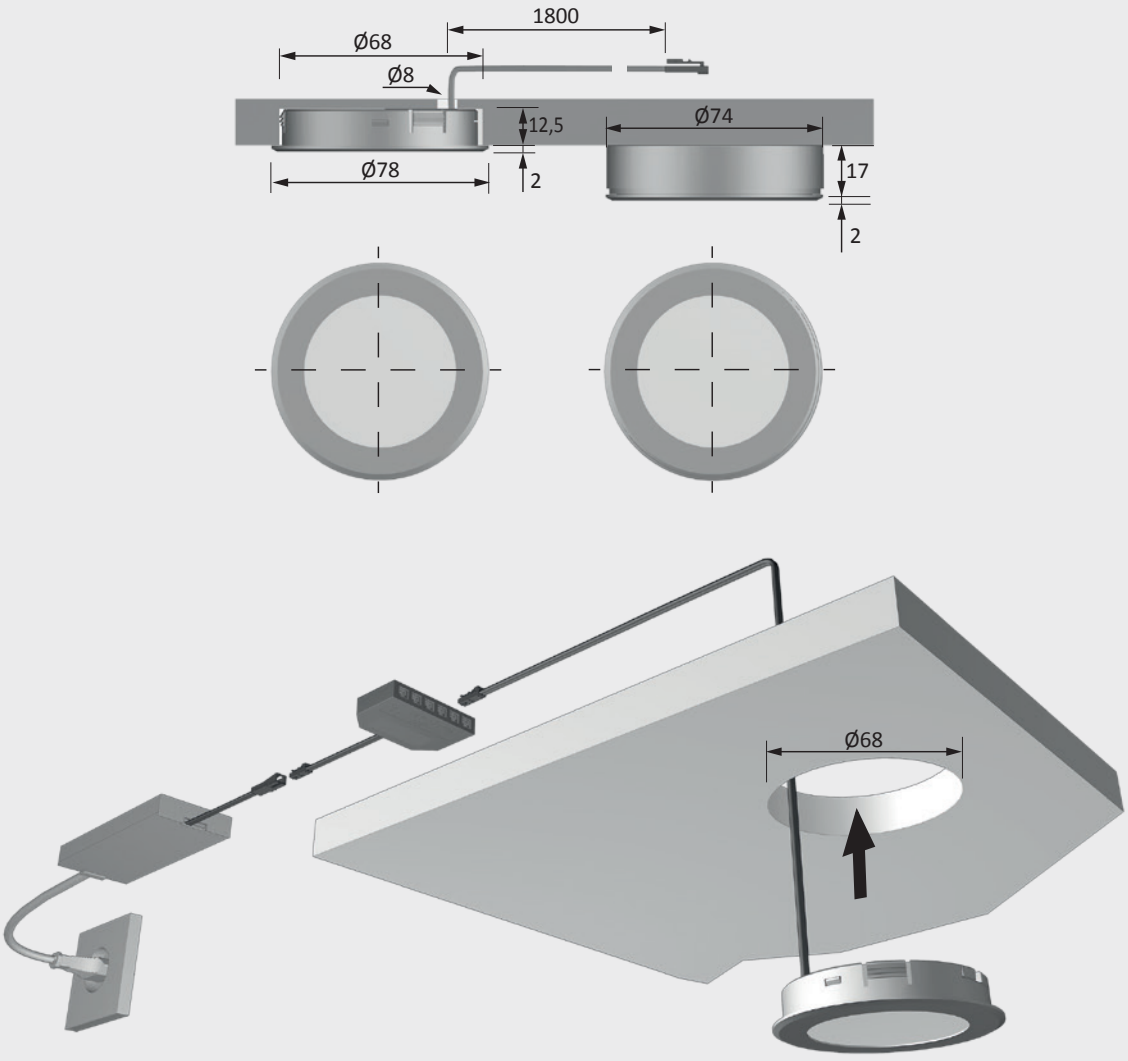
## Light distribution diagram / 45°




## Light box




## Dimensional drawing / installation



# MultiLite Flood

**Advantages**
- Available in many surfaces
- Evenly illuminated area
- Simple timeless design

**Examples of use**
- Shelves
- Display cabinets
- Kitchen midway sections

**Features**
- High light output in relation to size
- Plug-in connection on housing
- Recessed luminaire for 58 mm mounting diameter

**Order information**
- Luminaire and cover ring must be ordered separately
- For a kitchen niche use at least two luminaires per meter
- With direct connection of a MultiWhite luminaire to an electronic ballast, the light colour is XtraWarmWhite (2700K)

## MultiLite Flood

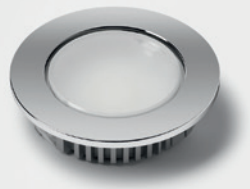
| | MultiWhite* | WarmWhite |
|---|---|---|
| Individual light | 32 066 31 | 32 150 11 |

## Accessories**

| | |
|---|---|
| Cover ring - aluminium look | 25 175 26 |
| Cover ring - chrome, matte | 25 175 16 |
| Cover ring - stainless steel look | 25 175 09 |
| Cover ring - black matt | 25 175 05 |
| LED ballast 30 W with Australia plug | 30 221 01 |
| M1 extension lead 1800 mm | 36 768 01 |
| M1 3-way distributor 180 mm | 36 852 01 |
| M1 6-way distributor 2000 mm | 36 125 01 |

* MultiWhite accessories required
** Further accessories in section Switch systems

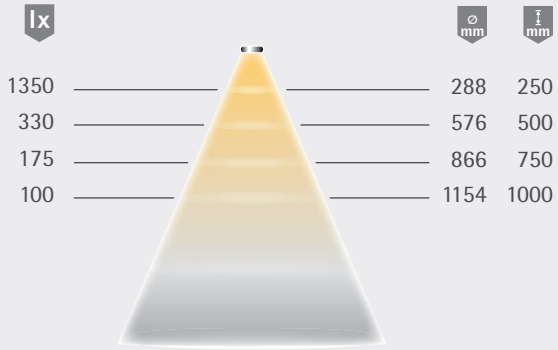
## Technical details



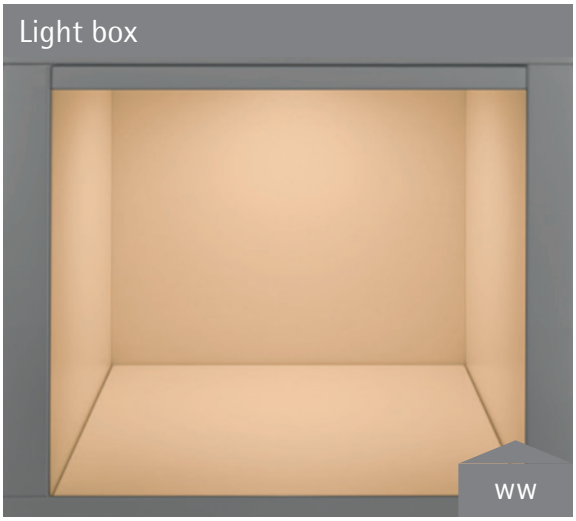
12 V

| | |
|---|---|
| Luminaire type: | LED recessed light |
| Type of lighting: | Functional/ accent lighting |
| Surface finish: | Aluminium look/ chrome |
| Operating voltage: | 12 V DC |
| Light colour: | WarmWhite/ MultiWhite |
| Colour rendering: | RA >85 |
| Luminous flux: | 240 lm |
| Luminaire efficiency: | 60 lm/W |
| Light source efficiency: | 70 lm/W |
| Life span: | 40,000 h (L70) |
| Power consumption: | 4 W |
| Dimmable: | Yes/PWM/Smart.home |
| Beam angle: | 90° |
| Half value angle: | 60° |
| Test mark and symbols: | CE UK CA |
| Protection rating: | IP 44 |
| Installed diameter: | 58 mm |
| Supply lead: | 2000 mm |
| Plug connector: | LED mini M1 plug connector |
| Connection to: | LED ballast |

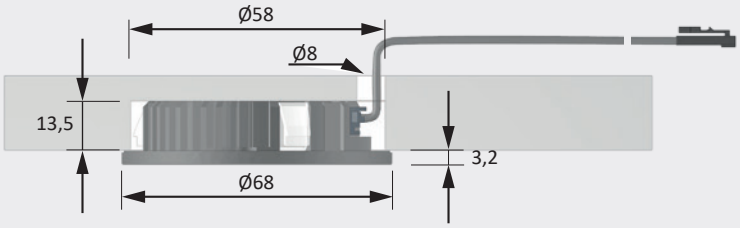
## Light distribution diagram 60°

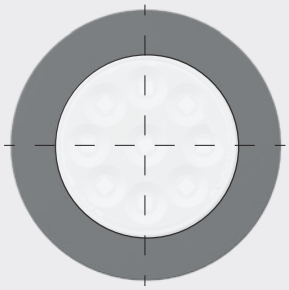


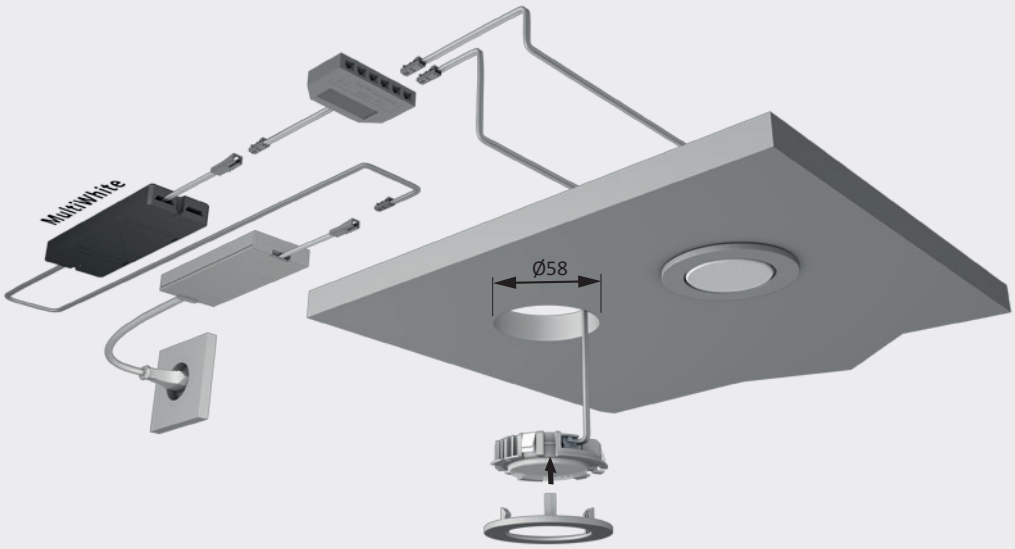

## Light box




## Dimensional drawing / installation





# EcoPower L

**Advantages**
- Entry-level recessed spotlight
- Compact light

**Features**
- For 68 mm mounting diameter
- Wide beam without shadows

**Examples of use**
- Shelves
- Display cabinets
- Kitchen midway sections

**Order information**
- For a kitchen niche at least two luminaires per meter
- With direct connection of a MultiWhite luminaire to an electronic ballast, the light colour is XtraWarmWhite (2700K)

## EcoPower L

| | MultiWhite* | WarmWhite | NeutralWhite |
|---|---|---|---|
| Stainless steel look | 32 144 39 | 32 144 19 | 32 144 09 |
| Black | 32 144 35 | 32 144 15 | 32 144 05 |

## Accessories**

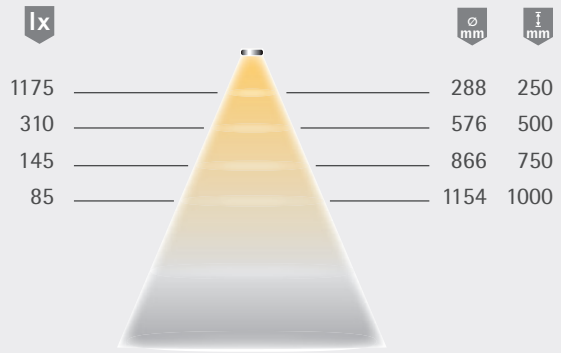
| | |
|---|---|
| LED ballast 30 W with Australia plug | 30 221 01 |
| M1 extension lead 1800 mm | 36 768 01 |
| M1 3-way distributor 180 mm | 36 852 01 |
| M1 6-way distributor 2000 mm | 36 125 01 |

* MultiWhite accessories required
** Further accessories in section Switch systems

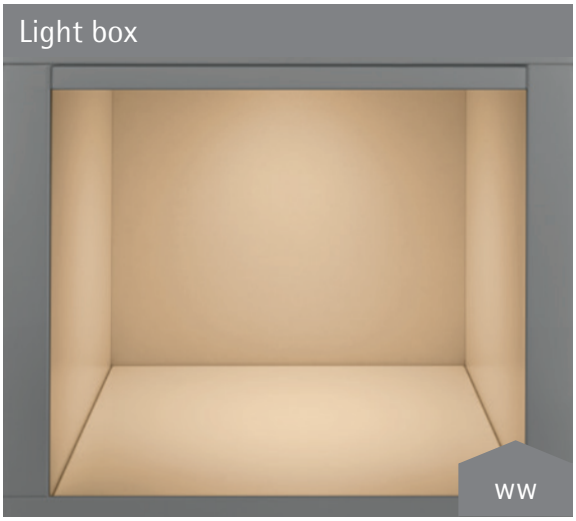
## Technical details

| | |
|---|---|
| Luminaire type: | LED recessed light |
| Type of lighting: | Functional / accent lighting |
| Surface finish: | Stainless steel look/ black |
| Operating voltage: | 12 V DC |
| Light colour: | WarmWhite/ NeutralWhite/ MultiWhite |
| Colour rendering: | RA > 80 |
| Luminous flux: | 230 lm |
| Luminaire efficiency: | 72 lm/W |
| Light source efficiency: | 94 lm/W |
| Life span: | 40,000 h (L70) |
| Power consumption: | 3.2 W |
| Dimmable: | Yes/PWM/Smart.home |
| Beam angle: | 90° |
| Half value angle: | 60° |
| Test mark and symbols: | CE UKCA |
| Protection rating: | IP 44 |
| Installed diameter: | 68 mm |
| Supply lead: | 1800 mm |
| Plug connector: | LED mini M1 plug connector |
| Connection to: | LED ballast |

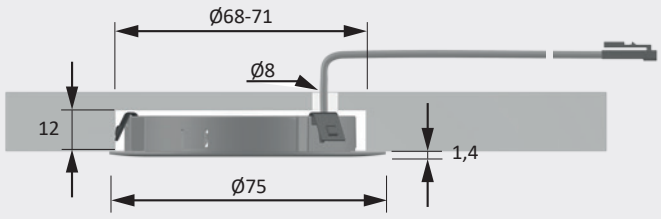
## Light distribution diagram 60°

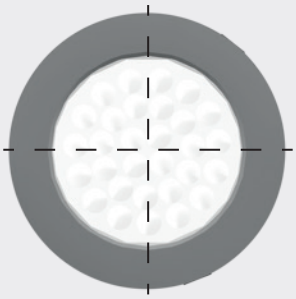


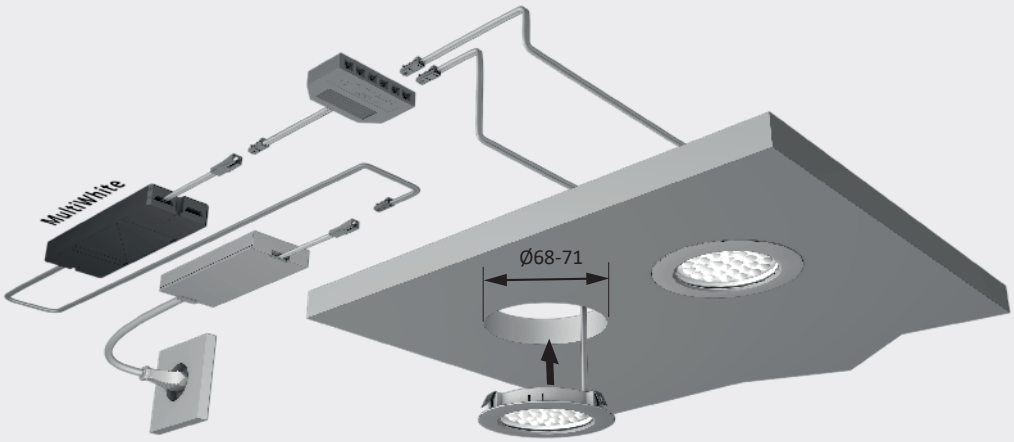

## Light box




## Dimensional drawing / installation





# StarPoint Flood

**Advantages**
- Powerful LED spotlight
- Accentuation by small beam angle
- Versatile

**Examples of use**
- Shelves
- Display cabinets
- Furniture halo lighting

**Features**
- Recessed light with 30 mm installed diameter

## StarPoint Flood

| | WarmWhite | NeutralWhite |
|---|---|---|
| Chrome | 32 146 13 | 32 146 03 |

## Accessories*

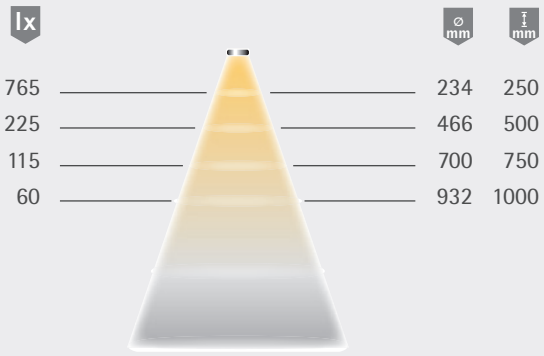
| | |
|---|---|
| LED ballast 30 W with Australia plug | 30 221 01 |
| M1 extension lead 1800 mm | 36 768 01 |
| M1 3-way distributor 180 mm | 36 852 01 |
| M1 6-way distributor 2000 mm | 36 125 01 |

* Further accessories in section Switch systems

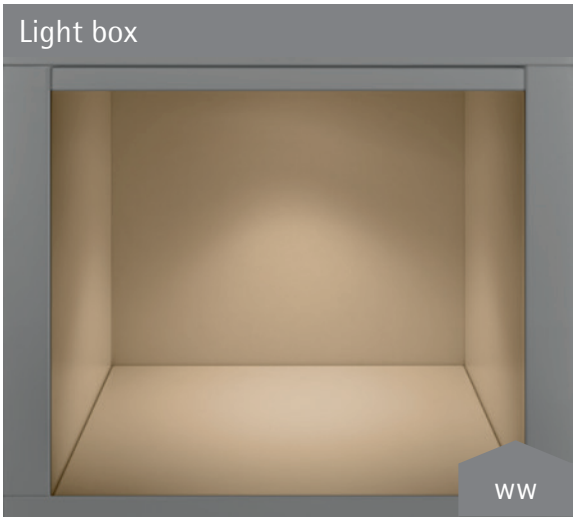
## Technical details

| | |
|---|---|
| Luminaire type: | LED recessed light |
| Type of lighting: | Functional / accent lighting |
| Surface finish: | chrome |
| Operating voltage: | 12 V DC |
| Light colour: | WarmWhite/ NeutralWhite |
| Colour rendering: | RA >80 |
| Luminous flux: | 95 lm |
| Luminaire efficiency: | 80 lm/W |
| Light source efficiency: | 95 lm/W |
| Life span: | 40,000 h (L70) |
| Power consumption: | 1.2 W |
| Dimmable: | Yes/PWM/Smart.home |
| Beam angle: | 80° |
| Half value angle: | 50° |
| Test mark and symbols: | CE UKCA |
| Protection rating: | IP 20 |
| Installed diameter: | 29-32 mm |
| Supply lead: | 1800 mm |
| Plug connector: | LED mini M1 plug connector |
| Connection to: | LED ballast |

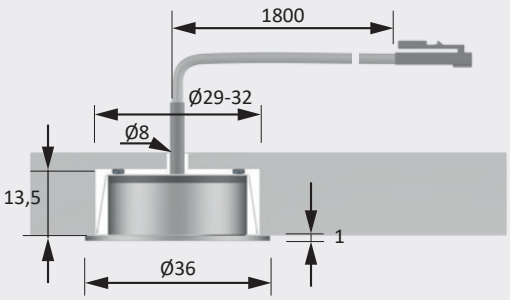
## Light distribution diagram 50°

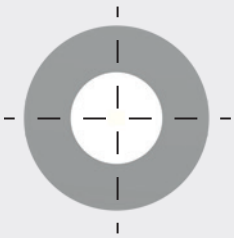


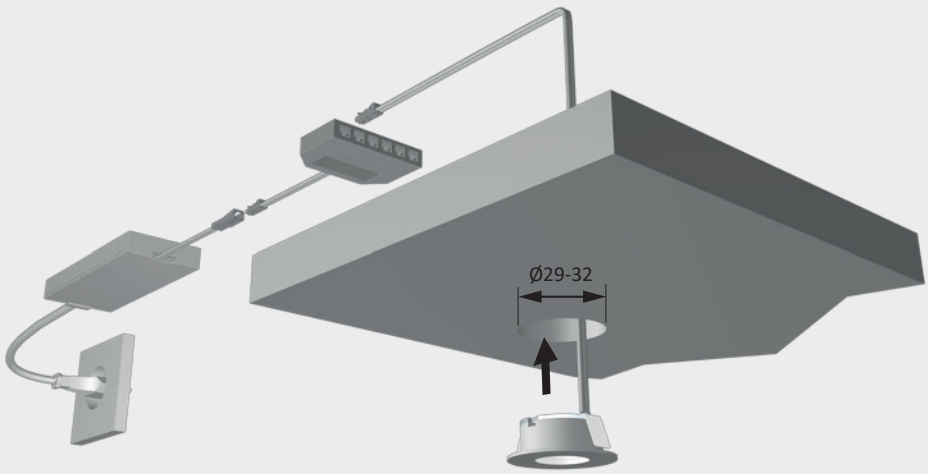

## Light box




## Dimensional drawing / installation





# SideSpot

**Advantages**
- Accentuation by light from below/side
- Can be used without glare

**Features**
- Oblique light emission
- Recessed luminaire for 35 mm mounting diameter

**Examples of use**
- Shelves
- Display cabinets
- Carcase sides and shelves

**Order information**
- With direct connection of a MultiWhite luminaire to an electronic ballast, the light colour is XtraWarmWhite (2700K)

## SideSpot

| | MultiWhite* | Extra WarmWhite | CoolWhite |
|---|---|---|---|
| Black | 32 171 35 | 32 171 45 | 32 171 25 |

## Accessories**

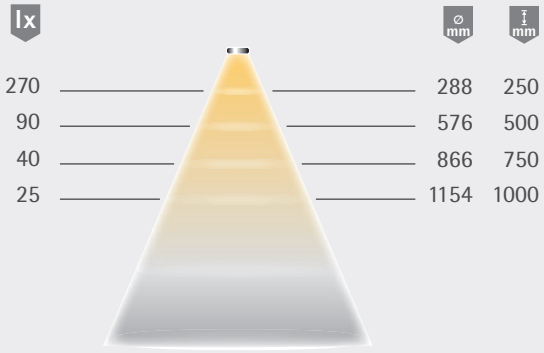
| | |
|---|---|
| S-Mitter Basic MultiWhite Smart Set | 31 123 01 |
| LED ballast 15 W with Australia plug | 31 026 01 |
| M1 extension lead 1800 mm | 36 768 01 |
| M1 3-way distributor 180 mm | 36 852 01 |
| M1 6-way distributor 2000 mm | 36 125 01 |

* MultiWhite accessories required
** Further accessories in section Switch systems

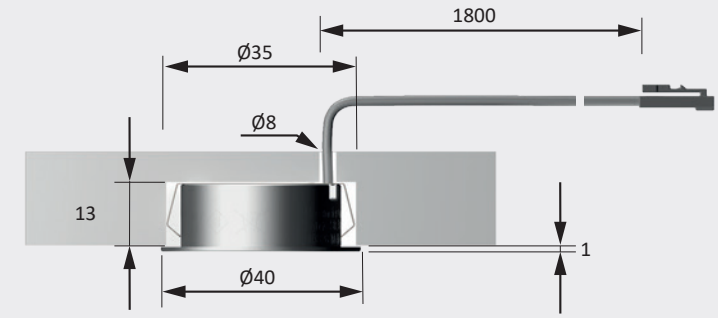
## Technical details

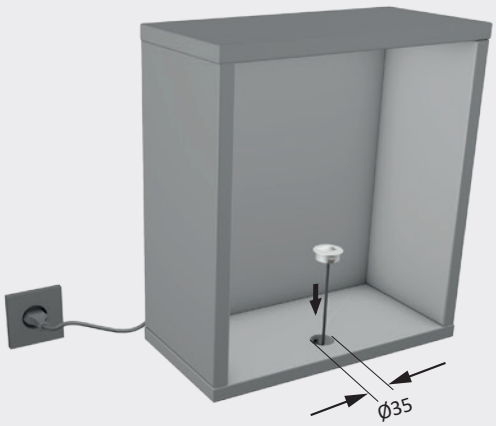
| | |
|---|---|
| Luminaire type: | LED recessed light |
| Type of lighting: | Functional/ accent lighting |
| Surface finish: | Black |
| Operating voltage: | 12 V DC |
| Light colour: | MultiWhite/ XtraWarmWhite/ CoolWhite |
| Colour rendering: | RA >80 |
| Luminous flux: | 50 lm |
| Luminaire efficiency: | 30 lm/W |
| Light source efficiency: | 45 lm/W |
| Life span: | 40,000 h (L70) |
| Power consumption: | 1.4 W |
| Dimmable: | Yes/PWM/Smart.home |
| Beam angle: | 90° |
| Half value angle: | 60° |
| Test mark and symbols: | CE UK |
| Protection rating: | IP 20 |
| Installed diameter: | 35 mm |
| Supply lead: | 800 mm |
| Plug connector: | LED mini M1 plug connector |
| Connection to: | LED ballast |

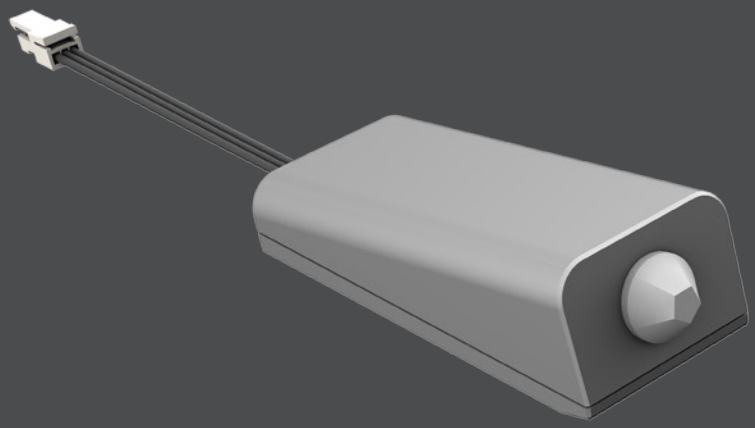
## Light distribution diagram 60°

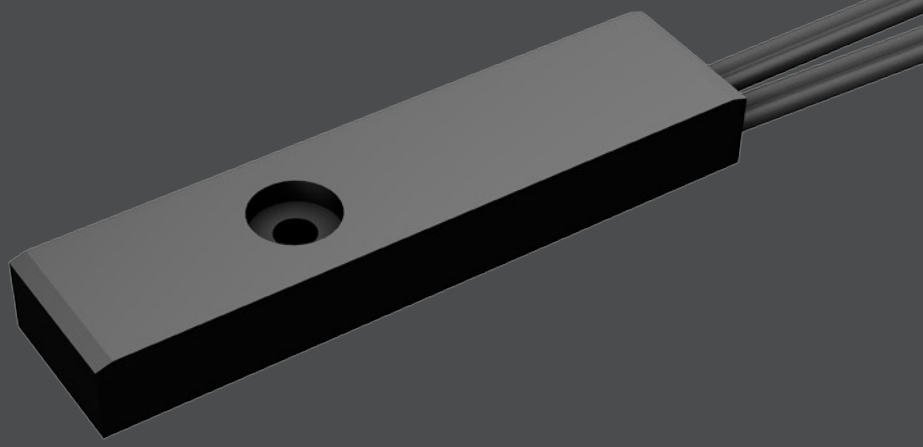



## Dimensional drawing / installation

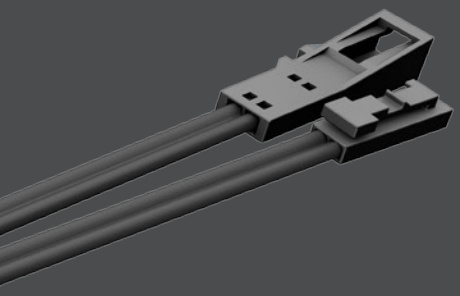








1
2
3
4



# Switch systems

## The right system for any installation

Gentle dimming of luminaires, suitable lighting scenes or lights that respond to movement:

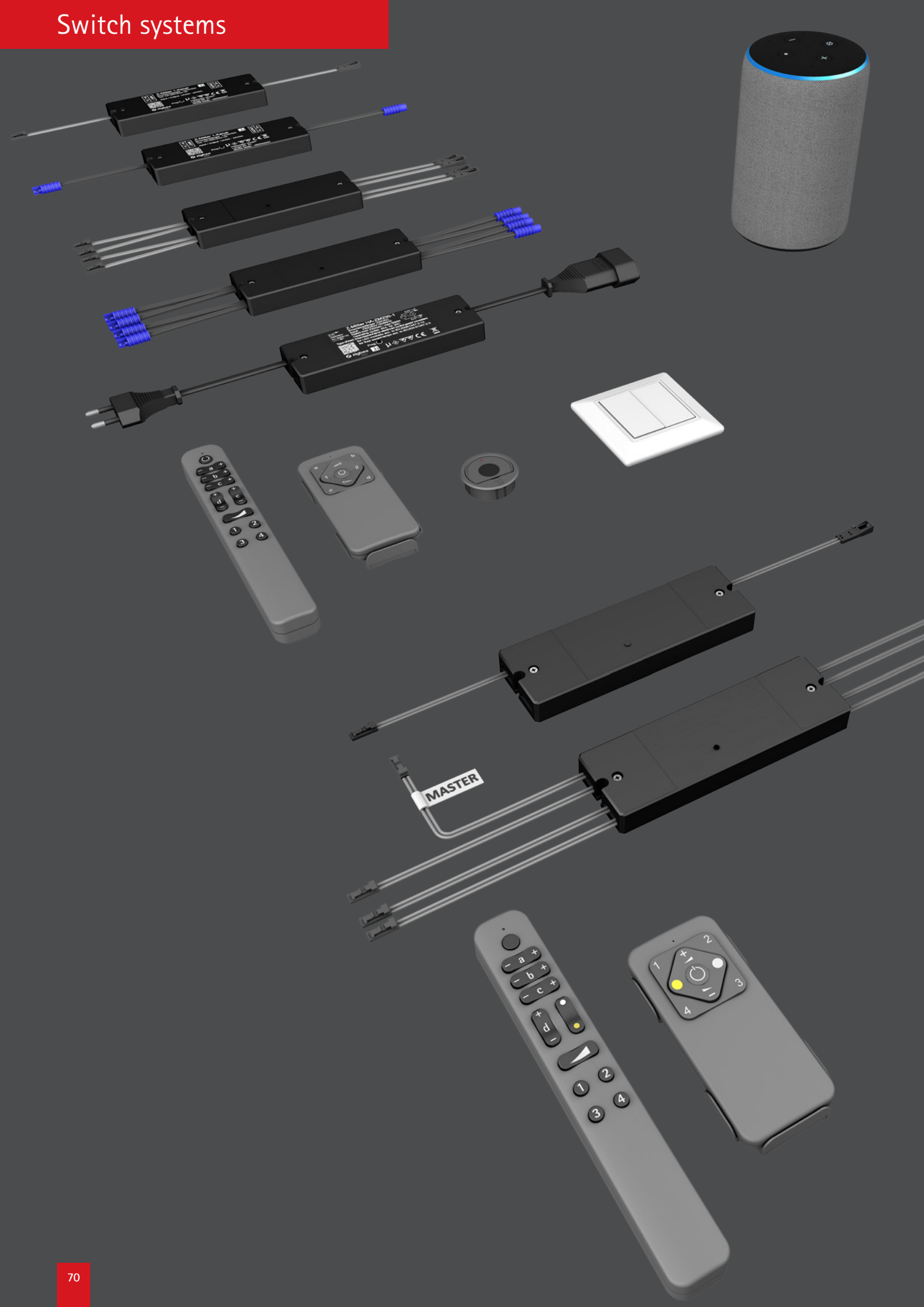
whether smart or conventional, our switch systems provide the right atmosphere at the right time.

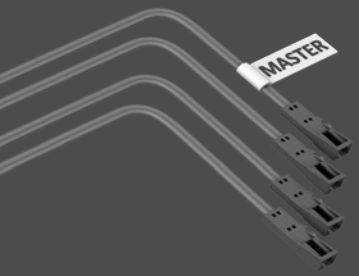
However, our switch systems do not only work via Smart.home or remote control.

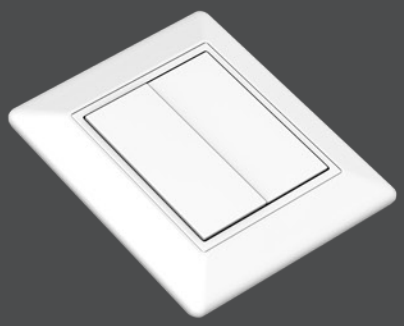
Lights can also be switched on automatically with motion sensors or door contact switches.

Of course, they can also be operated with the push of a button.

You can easily operate your furniture lighting or integrate it into your smart home – without any particular technical skills.


MASTER



# Smart receiver

## Simply switch smart – in every situation

Our Smart receivers enable simple and intelligent lighting control. They work independently with the Halemeier remote control via TouchLink or optionally in the Smart Home via Zigbee 3.0 in combination with many other devices from well-known manufacturers in the Zigbee Alliance.

The smart receivers not only receive signals, but also synchronise them wirelessly with each other (mesh). This allows you to set up large lighting systems with several lighting circuits or receivers.

Each smart receiver increases the range and stability of the overall system.



zigbee

Zigbee controller for controlling lights

- Uses the Zigbee 3.0 protocol
- Supports Zigbee TouchLink
- Adding devices to the self-configuring Zigbee Touchlink network possible
- Compatible with Zigbee Gateway universal products
- Compatible with Zigbee universal remote controls

4-channel wireless switch and dimmer

# 4-Mitter

**Advantages**
- 4-channel wireless switch and dimmer
- Comfortable light switching
- Can be integrated in a smart home

**Features**
- Memory function for power failure
- Storage of 2 light scenes
- Remote control and smart receiver are in the set programmed in the set
- Set works independently or in smart home network

**Order information**
- Set consists of 4-Mitter Smart Remote control and Smart Receiver
- The Smart.home overview shows how our switch systems can be combined with each other and with third party providers

## 4-Mitter (4-channel wireless switch and dimmer)

| | |
|---|---|
| 4-Mitter Smart Radio Switch Set 12 Volt DC | 31 115 01 |
| 4-Mitter Smart Radio Switch Set 24 Volt DC | 31 116 01 |
| 4-Mitter Smart Remote Control | 31 117 01 |

## Accessories*

| | |
|---|---|
| Wall mount Smart Basic, magnetic | 36 257 01 |

* Further accessories in section Switch systems/Ballasts and leads

## Technical details

24 V MP | 12 V

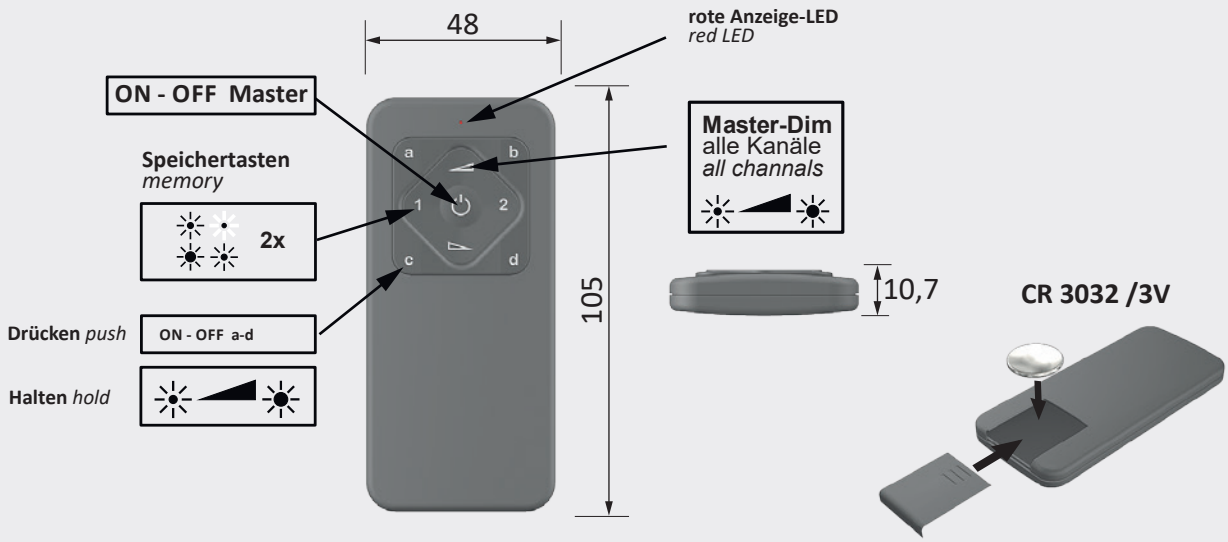
| | |
|---|---|
| Transmitter surface: | Soft lacquer black |
| Receiver housing: | Black |
| Max. switching power: | 12 Volt DC-4*36W<br>24 Volt DC-4*72W |
| Test marks and symbols: | CE UK CA |
| Supply lead: | 160 mm |
| Switching lead: | 160 mm |
| Standby receiver: | <0.3 W |
| Plug connector: | LED<br>Plug connector M1/MP2 |

zigbee

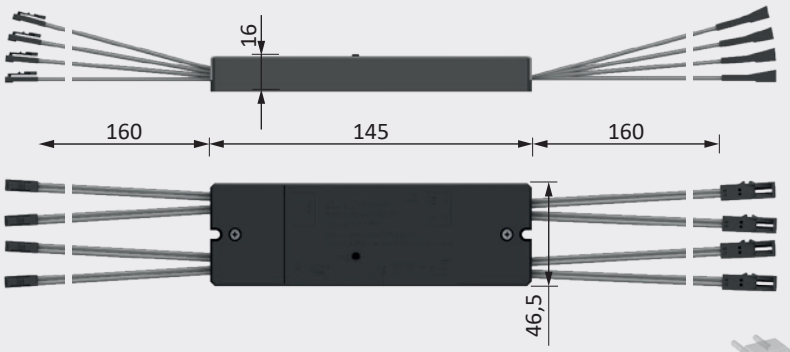
**Zigbee controller for controlling lights**

- Uses the Zigbee 3.0 protocol
- Supports Zigbee TouchLink
- Adding devices to the self-configuring Zigbee Touchlink network possible
- Compatible with Zigbee Gateway universal products
- Compatible with Zigbee universal remote controls

## Dimensional drawing / installation

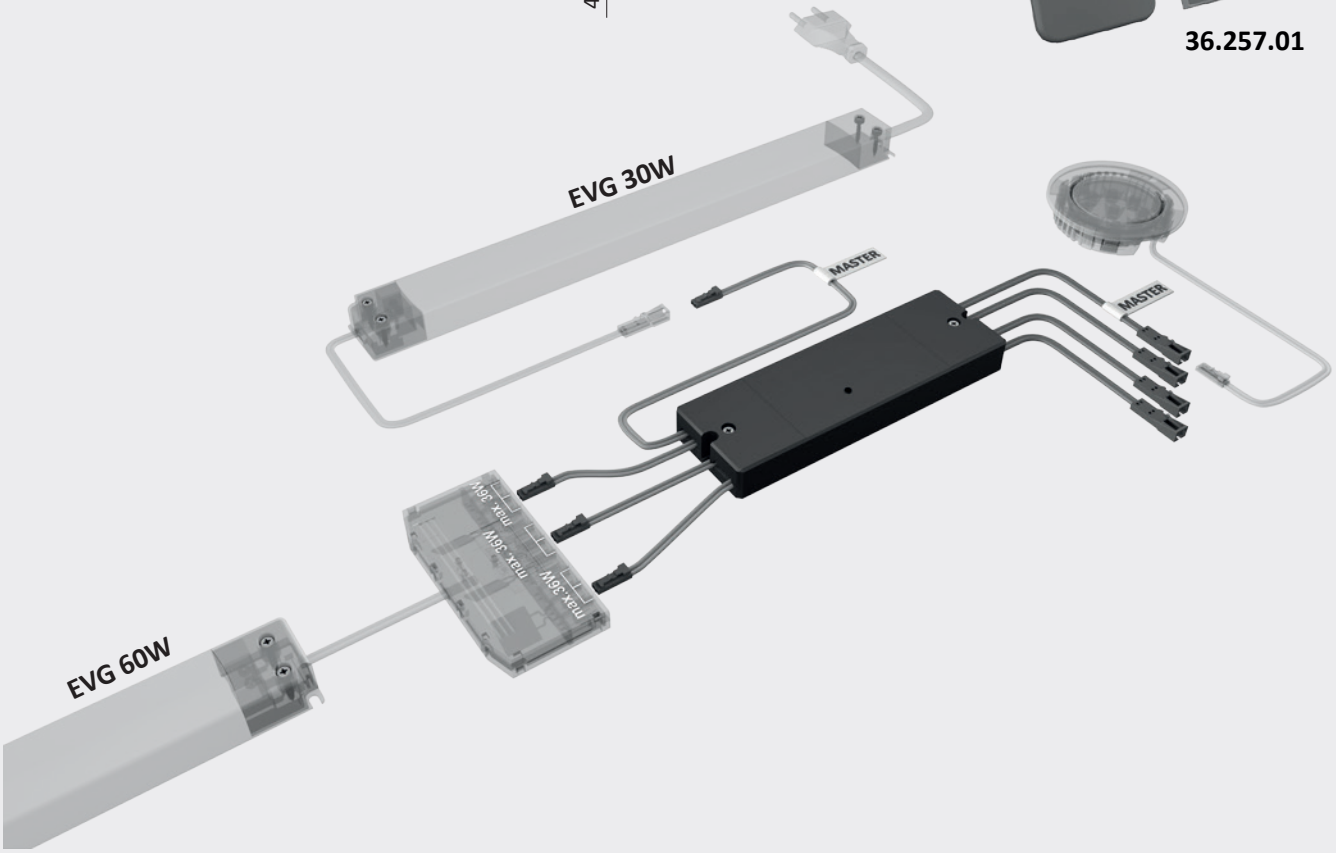


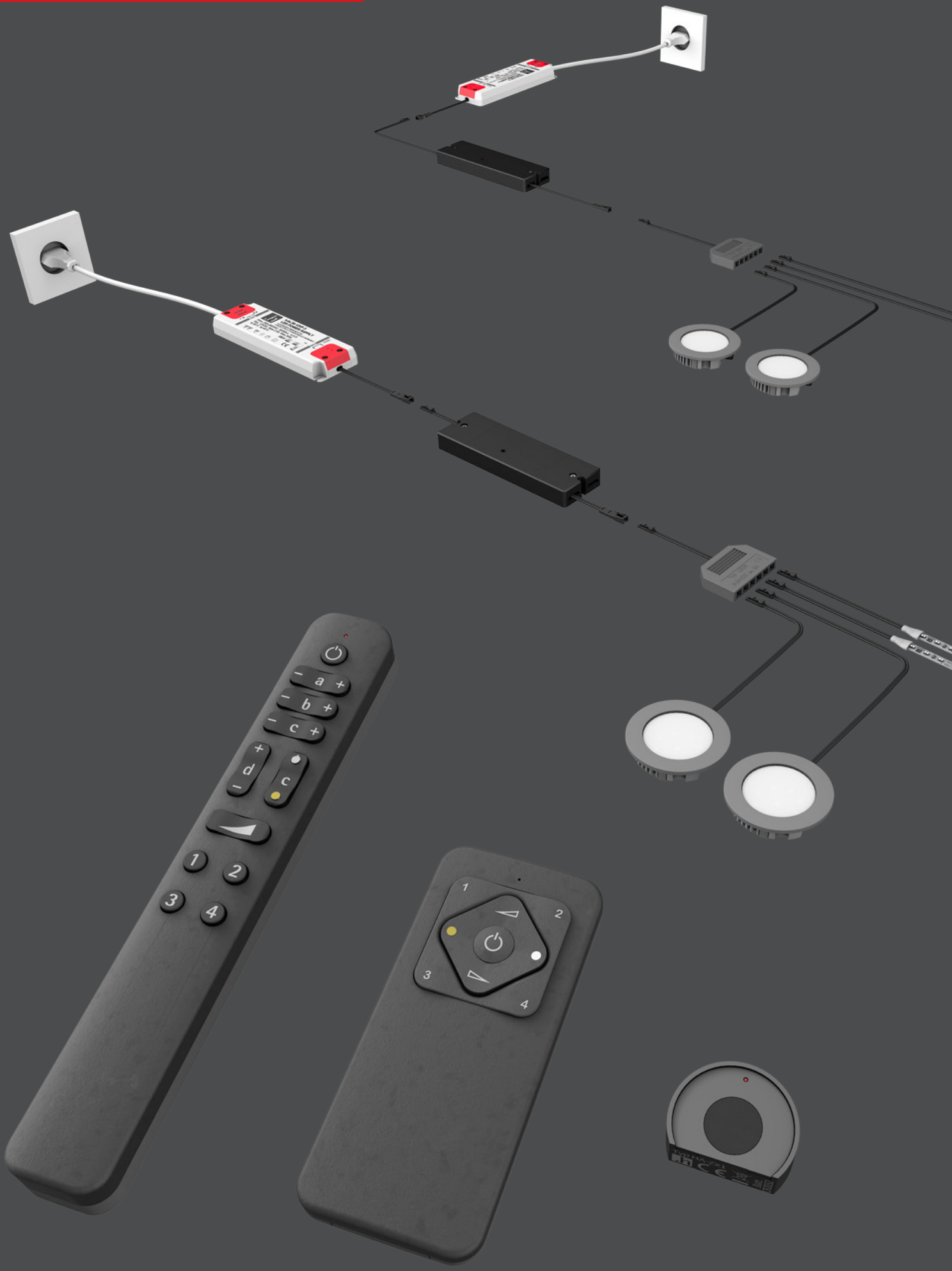

31.101.01 / 31.103.01 **Smartempfänger** *smartreceiver* 12VDC / 24VDC




**31.117.01**

**36.257.01**

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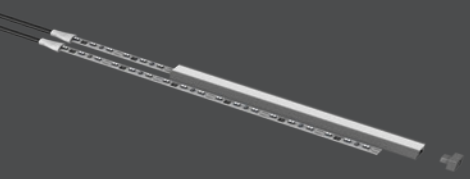
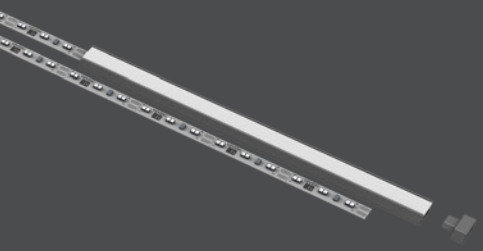




# MultiWhite

## Always the right light colour

Warm or cool white light? Bright and fresh light for preparing and cooking food. When the dish is ready, the light changes to cosy WarmWhite.

With MultiWhite, light colours and moods can be changed according to requirements – smart wireless solutions make it possible. When you have found your preferred light settings, simply save them so you can call up the same light scenes whenever you want them.

By choosing MultiWhite, you're always on the safe side. If customer wishes or requirements change, you can react completely flexibly with the product.

MultiWhite can also be easily adapted to existing luminaires.

zigbee

From ExtraWarmWhite to CoolWhite – MultiWhite is always the right choice

# S-Mitter Basic MultiWhite

### Advantages

- 1-channel wireless switch and dimmer
- Stepless adjustment of the light colour from CoolWhite to ExtraWarmWhite
- Can be integrated in a smart home

### Features

- Memory function for power failure
- Storage of up to 4 light scenes
- Remote control and smart receiver are in the set programmed in the set
- Set works independently or in the smart home network

### Order information

- Set consists of S-Mitter Basic Smart Remote Control and Smart Receiver
- The Smart.home overview shows how our switch systems can be combined with each other and with third-party suppliers

## S-Mitter Basic (1-channel wireless switch and dimmer)

| | |
|---|---|
| S-Mitter Basic MultiWhite Smart Set | 31 123 01 |
| S-Mitter MultiWhite Basic Smart Remote Control | 31 125 01 |

## Accessories*

| | |
|---|---|
| Wall mount Smart Basic magnetic | 36 257 01 |

* Further accessories in section Switch systems/Ballasts and leads

## Technical details

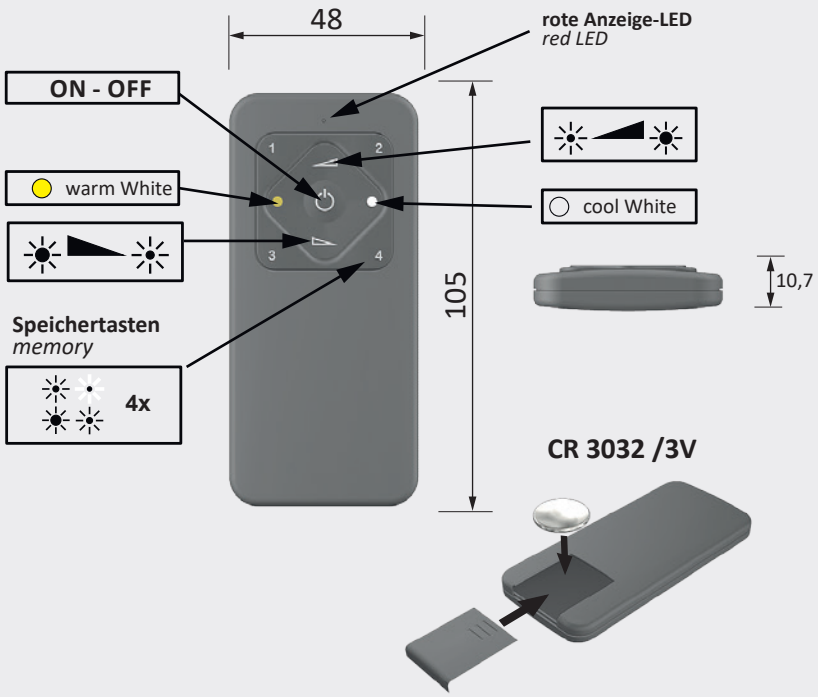
| | |
|---|---|
| For use with: | LED lights |
| Transmitter surface: | soft lacquer black |
| Receiver housing: | black |
| Max. switching power: | 12 Volt DC–<br>36 W/60 W |
| Test marks and symbols: | CE UK CA |
| Supply lead: | 160 mm |
| Switching lead: | 160 mm |
| Standby receiver: | <0.3 W |
| Plug connector: | LED<br>M1 plug connector |

zigbee

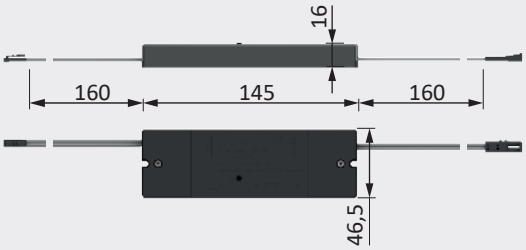
**ZigBee controller for the control of MultiWhite lights via 2-wire system**

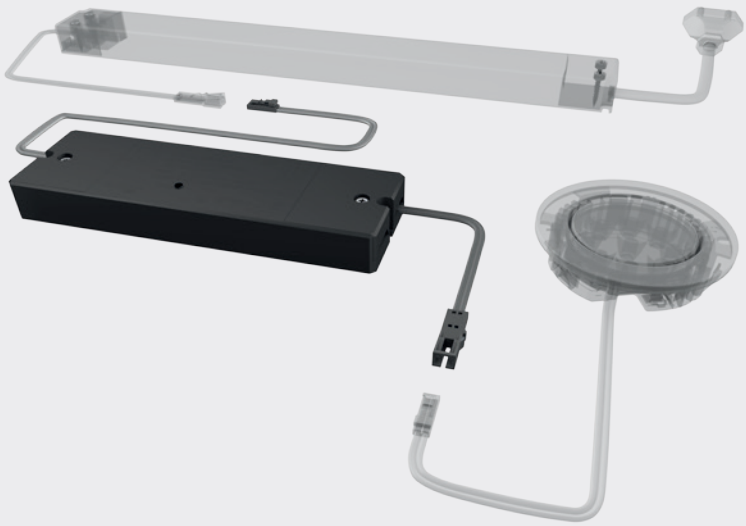
- Uses the Zigbee 3.0 protocol
- Supports Zigbee TouchLink
- Adding devices to the self-configuring Zigbee Touchlink network possible
- Compatible with Zigbee Gateway universal products
- Compatible with CCT Zigbee universal remote controls

## Dimensional drawing / installation

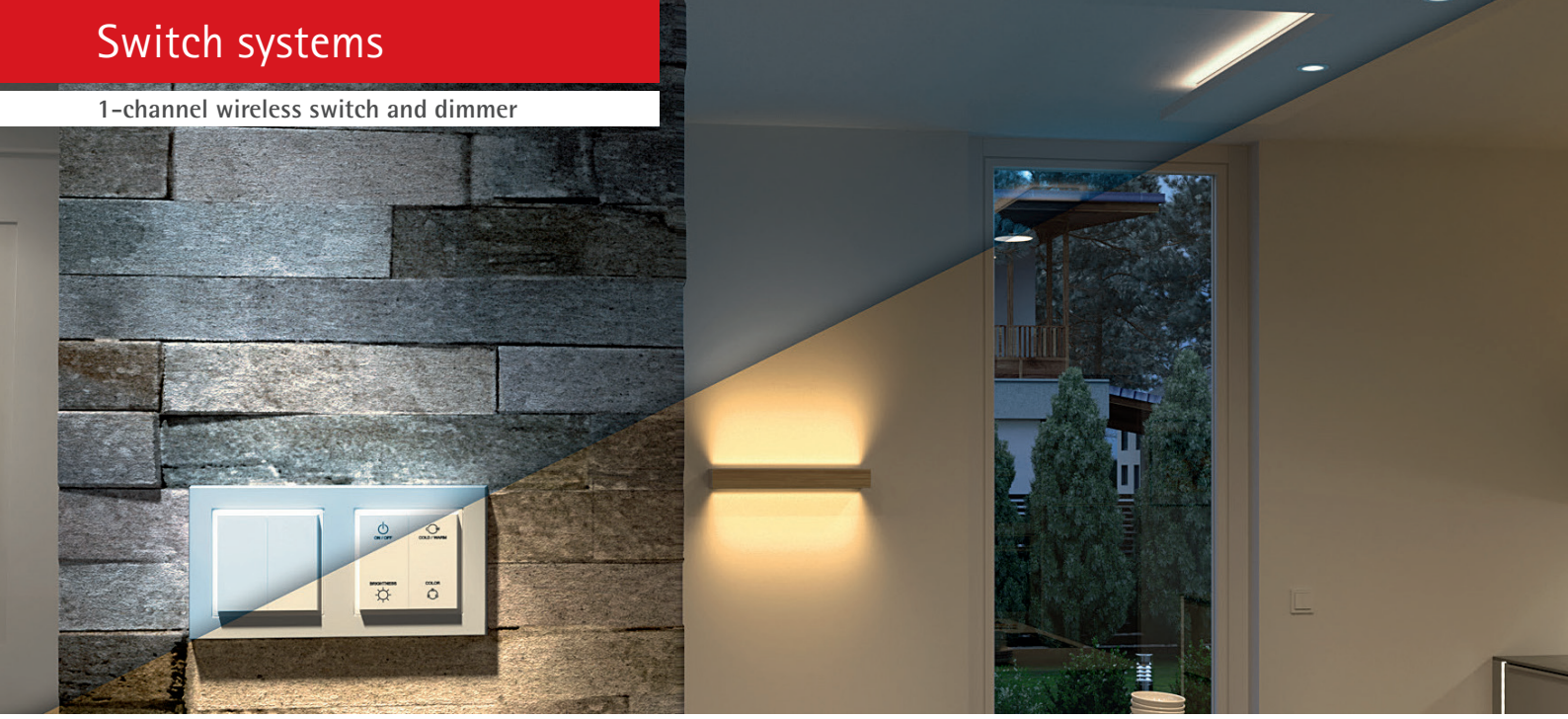


31.123.01 **Smartempfänger**
*smartreceiver*



1-channel wireless switch and dimmer



# Wall switch Smart

### Advantages

- 1-channel wireless switch and dimmer
- Stepless adjustment of the light colour from CoolWhite to ExtraWarmWhite
- Can be integrated in a smart home

### Features

- Fits in mounting frames of leading switch manufacturers
- Does not require drilling for cavity wall box
- Works with smart receivers or in the smart home network

### Order information

- Can be connected with all 1-channel Smart Receivers
- The Smart.home overview shows how our switch systems can be combined with each other and with third-party suppliers

## Wall transmitter (1-channel wireless switch and dimmer)

| | |
|---|---|
| Wall transmitter Smart | 31 126 01 |

## Accessories*

| | |
|---|---|
| Smart Receiver MultiWhite 1-Channel | 31 118 01 |

* Further accessories in section Switch systems/Ballasts and leads

## Technical details

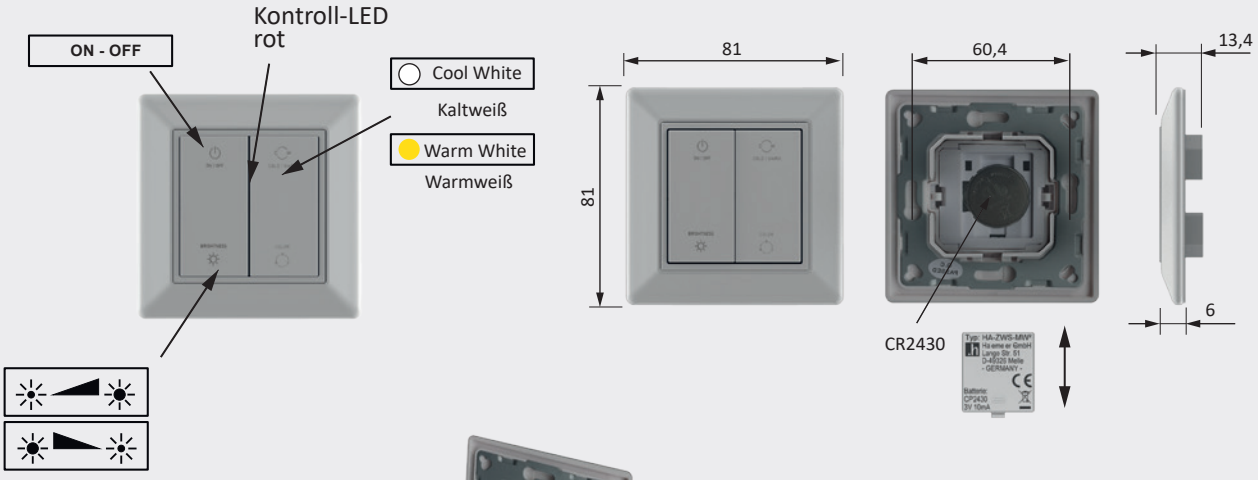
| | |
|---|---|
| Surface finish | |
| Wall transmitter: | White, matt |
| Receiver housing: | Black |
| Test marks and symbols: | CE UKCA |
| Supply lead: | 160 mm |
| Switching lead: | 160 mm |
| Standby receiver: | <0.3 W |
| Plug connector: | LED<br>M1 plug connector |

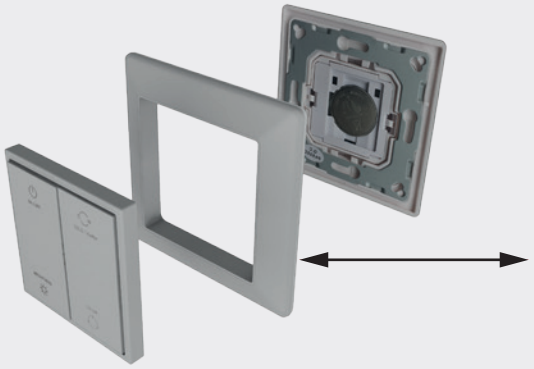
zigbee

**ZigBee controller for the control of MultiWhite lights via 2-wire system**

- Uses the Zigbee 3.0 protocol
- Supports Zigbee TouchLink
- Adding devices to the self-configuring Zigbee Touchlink network possible
- Compatible with Zigbee Gateway universal products
- Compatible with CCT Zigbee universal remote controls

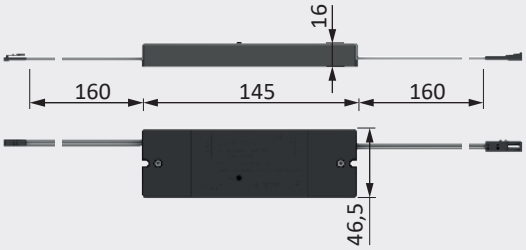
## Dimensional drawing / installation

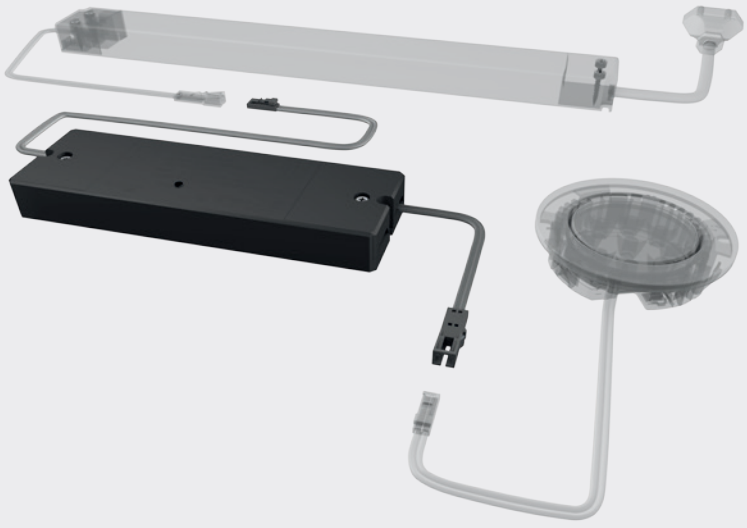


| | |
|---|---|
| **Berker** | S1; B1; B3; B7 Glas |
| **Gira** | Standard 55; E2; Event; Esprit |
| **Jung** | A500; A plus |
| **Merten** | M-smart; M-Arc; M-Plan |

**31.118.01**



# BasicControl MultiWhite

**Advantages**

- Entrance-level wired MultiWhite control
- Light colour change from CoolWhite to ExtraWarmWhite

**Examples of use**

- Can also be used for one-time fine adjustment of luminaires installed after an on/off switch

**Features**

- 3-stage dimming function
- With built-in orientation LED
- Memory function for power failure

## BasicControl MultiWhite

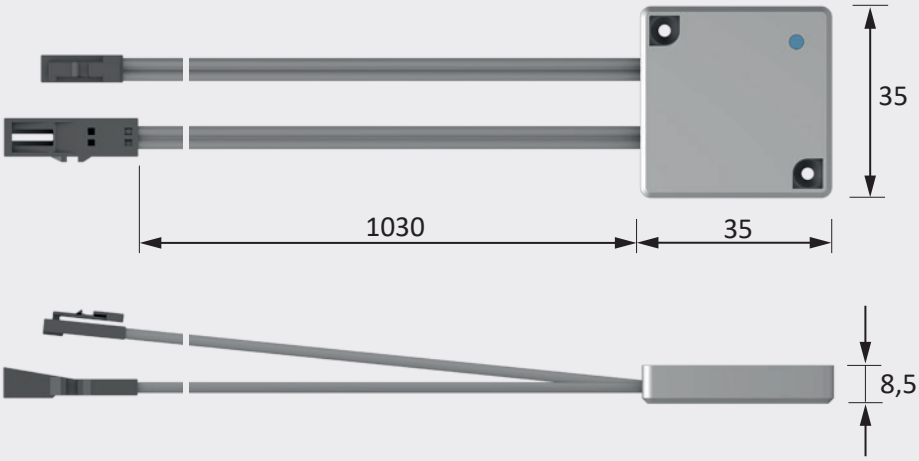
| | |
|---|---|
| BasicControll MultiWhite | 30 775 01 |

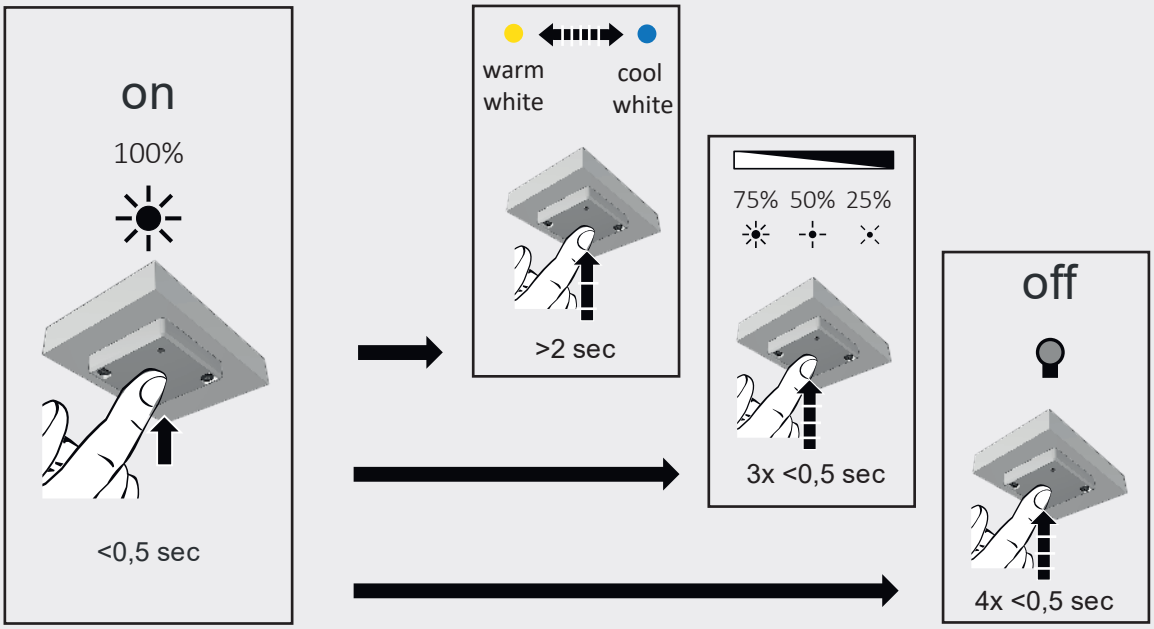
## Technical details

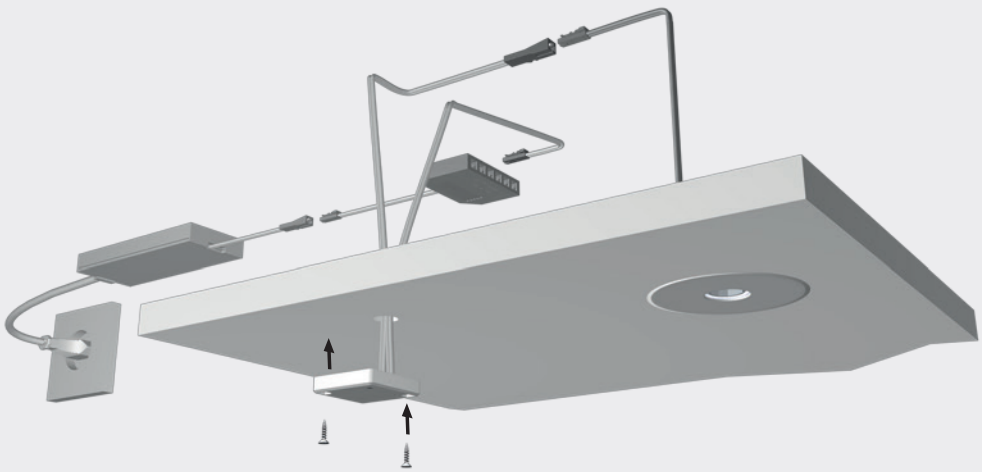
12 V

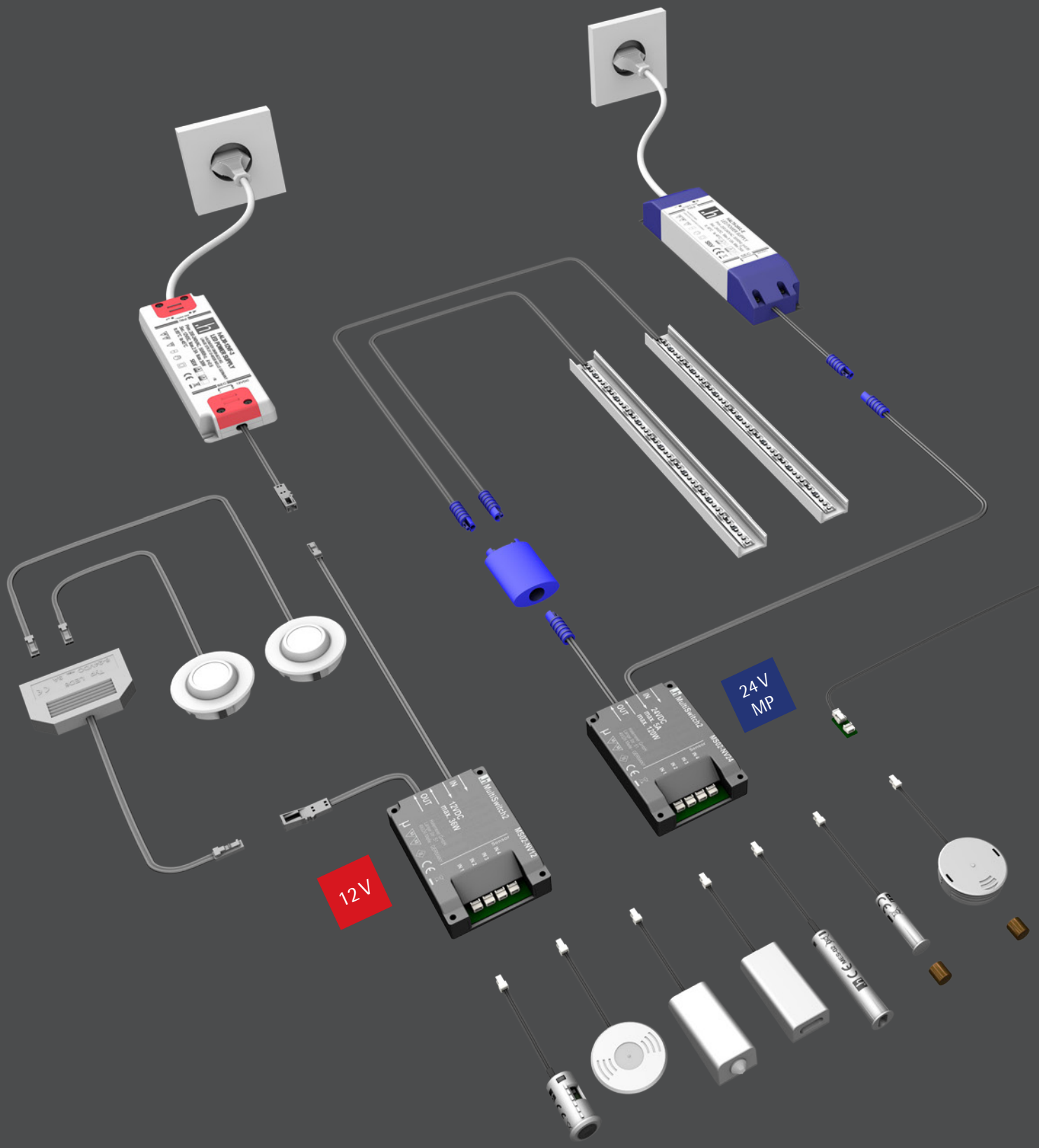
| | |
|---|---|
| For use with: | LED lights |
| Surface finish: | Black |
| Max. switching power: | 12 Volt DC-36 W |
| Test marks and symbols: | CE UK CA |
| Supply lead: | 1800 mm |
| Switching lead: | 1800 mm to the LED luminaire |
| Standby: | <0.5 W |
| Plug connector: | LED mini Plug connector M1 |

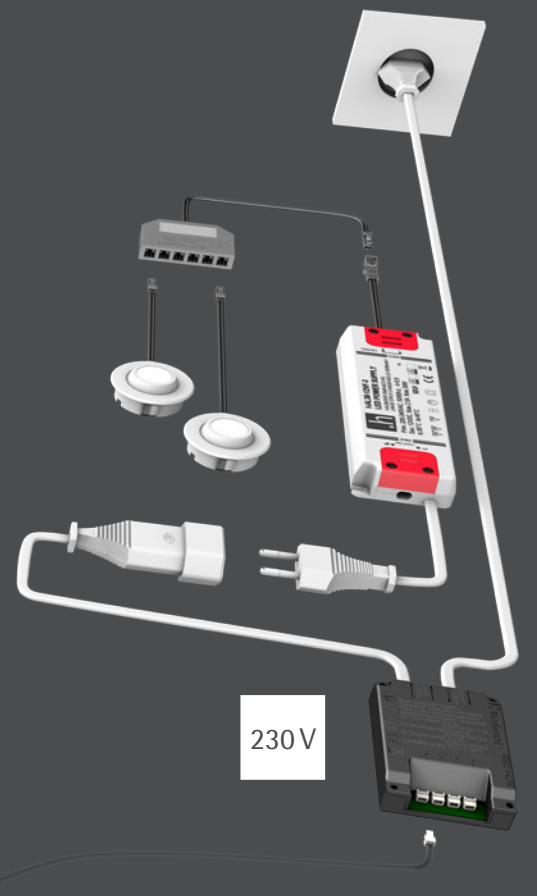
## Dimensional drawing / installation




24 V
MP
12 V




# MultiSwitch²

## Simple. Automatic. Switching.

We have further developed our proven MultiSwitch and equipped it with various additional highlights. Now with 4 sensors to monitor 4 doors.

The overall smaller plug-in system is space-saving and the intelligent sensor system prevents faulty switching.

In addition, the sensors are now also available in the trendy colour black.

# MultiSwitch sensors

Infrared sensor for drill-hole mounting (IR door contact switch, optionally in aluminium look or in black colour)

Screw-on motion sensor (PIR sensor, optionally in aluminium look or in black colour)

Magnetic sensor for insertion in pot holes (magnetic sensor, optionally also as drill-in sensor)

# MultiSwitch² Contact

**Advantages**
- Infrared sensor for drill-hole or surface mounting
- Connection of 1 up to 4 identical sensors to a Master unit
- The sensor has two settings - switch and door contact

**Features**
- Soft ON/OFF function (soft-start when power Switching on/off only with 12/24 Volt DC)
- Memory function for power failure
- Not compatible with dimmers

**Examples of use**
- Door contact switch
- Non-contact sensor switch (infrared sensor) for screwing on)

**Order information**
- For other sensors, see other pages

## MultiSwitch IR (infrared sensor)

| | |
|---|---|
| Infrared sensor for drilling in (IR door contact switch, aluminium look) | 30 150 01 |
| Infrared sensor for drilling in (IR door contact switch, black) | 30 150 05 |
| Infrared sensor for screwing on (IR sensor or door contact switch, aluminium look) | 30 151 01 |
| Screw-on infrared sensor (IR sensor or door contact switch, black | 30 151 05 |

| | |
|---|---|
| Master unit 12 Volt D-36 W* | 30 142 01 |
| Master unit 24 Volt DC-120 W* | 30 143 01 |

## Accessories

| | |
|---|---|
| Repeater 12 Volt DC | 30 263 07 |
| Repeater 24 Volt DC | 30 263 08 |

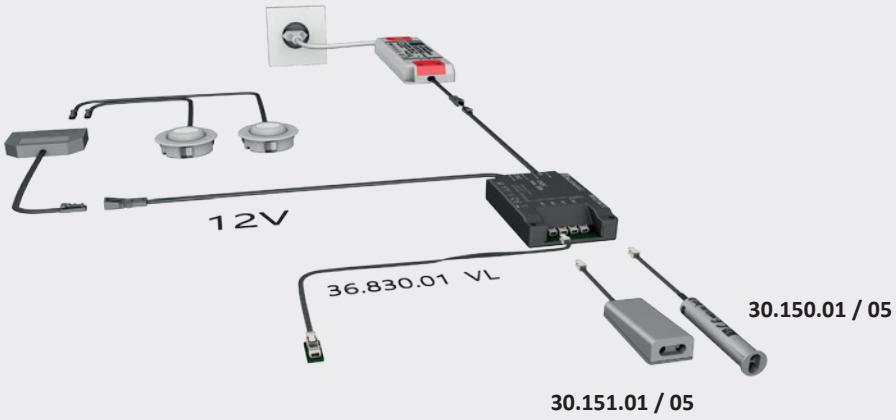
* Only for use with dimmable LED luminaires
** Can be used behind MultiWhite controls
*** Maximum one per sensor

## Technical details

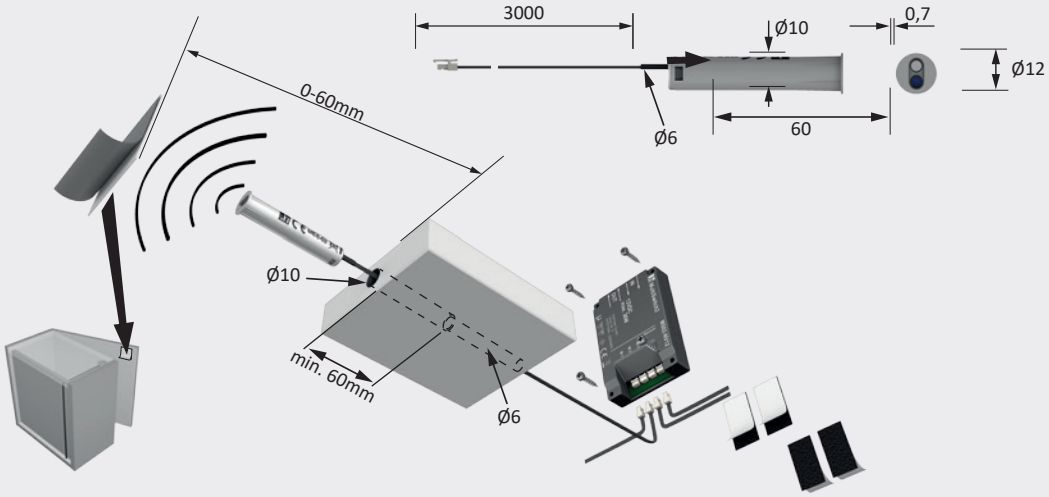
230 V | 24 V MP | 12 V

| | |
|---|---|
| For use with: | LED lights |
| Max. switching power: | 12 Volt DC-36 W<br>24 Volt DC-120 W<br>230 V AC<br>–max. 500 W |
| Test marks and symbols: | CE UK CA VDE |
| Switching distance: | see drawing |
| Sensor lead: | 3000 mm |
| Master unit | |
| Supply lead: | HV 3000 mm<br>LV 2000 mm |
| Switching lead: | HV 150 mm<br>LV 300 mm |
| Standby: | <0.5 W |
| Plug connector: | LED connector M1/MP2/ Euroflat |

## Dimensional drawing / installation




**Max. 4x 30.150.01 / 30.150.05**



# MultiSwitch² PIR

**Advantages**
- Motion sensor for surface mounting
- Responds to heat and movement
- Connection of 1 up to 4 identical sensors to a Master unit

**Features**
- Soft ON/OFF function (soft-start when power Switching on/off only with 12/24 Volt DC)
- Memory function for power failure
- Not compatible with dimmers

**Examples of use**
- Ideal for walk-in wardrobes without fronts
- Problem-solver for furniture where no magnetic or IR sensor can be used

**Order information**
- For further sensors see other pages

## MultiSwitch PIR (motion sensor)

| | |
|---|---|
| PIR sensor for surface mounting (motion sensor) | 30 152 01 |
| Screw-on PIR sensor (motion sensor, black) | 30 152 05 |
| Master unit 12 Volt DC-36 W* | 30 142 01 |
| Master unit 24 Volt DC-20 W* | 30 143 01 |

## Accessories

| | |
|---|---|
| Repeater 12 Volt DC | 30 263 07 |
| Repeater 24 Volt DC | 30 263 08 |

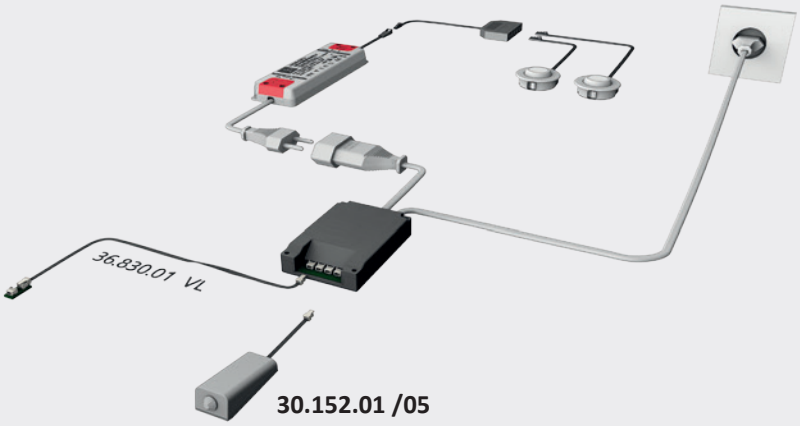
* Only for use with dimmable LED luminaires
** Can be used behind MultiWhite controls
*** Maximum one per sensor

## Technical details

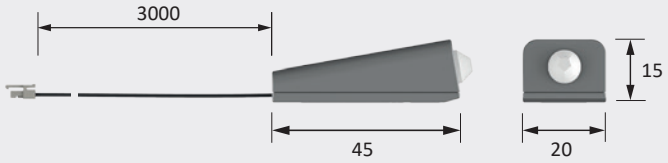
230 V | 24 V MP | 12 V

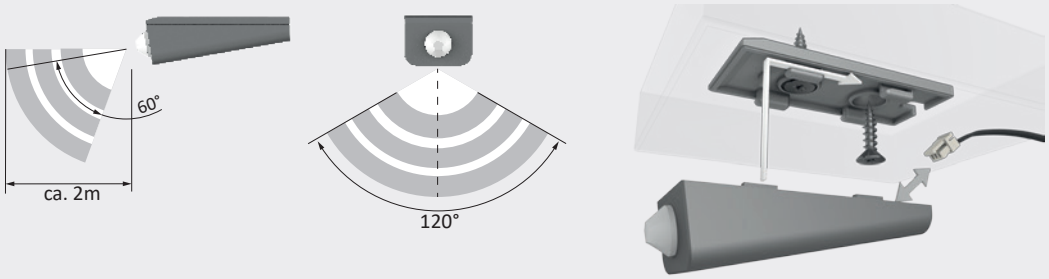
| | |
|---|---|
| For use with: | LED lights |
| Max. switching power: | 12 Volt DC-36 W<br>24 Volt DC-120 W<br>230 V AC - max. 500 W |
| Test marks and symbols: | CE UKCA VDE |
| Motion sensor | |
| Sensing angle: | 120° |
| Range: | 2 m |
| Stay-'ON' time: | 30 seconds |
| Sensor lead: | 3000 mm |
| Master unit | |
| Supply lead: | HV 3000 mm<br>LV 2000 mm |
| Switching lead: | HV 150 mm<br>LV 300 mm |
| Standby: | <0.5 W - Master unit sensors included |

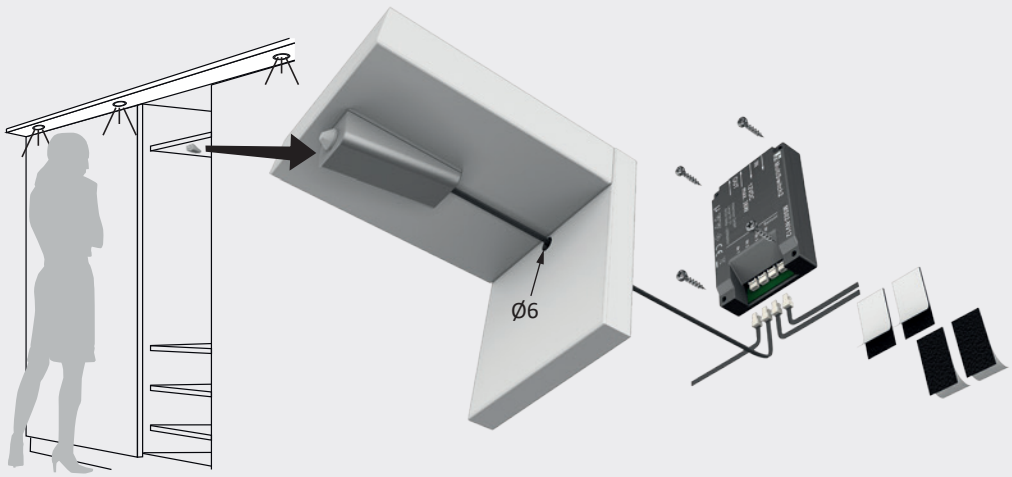
## Dimensional drawing / installation




**Max. 4x 30.152.01 / 30.152.05**



# MagicSwitch Linear

### Advantages
- Invisible switch for a wide range of applications

### Features
- Mounted on the back of the plate, the MagicSwitch detects the surface contact on the front of the plate and switches
- The MagicSwitch only works in conjunction with non-metallic surfaces and materials such as wood, glass, ceramics up to a material thickness of 25 mm

### Examples of use
- Switching furniture lights on and off

### Order information
- For more than 36 W controlled light output, a repeater can be used for synchronization
- 6-way distributor is included in the scope of delivery

## MagicSwitch Linear

| | |
|---|---|
| MagicSwitch Linear | 30 789 02 |

## Accessories

| | |
|---|---|
| Repeater 12 Volt DC* | 30 263 07 |

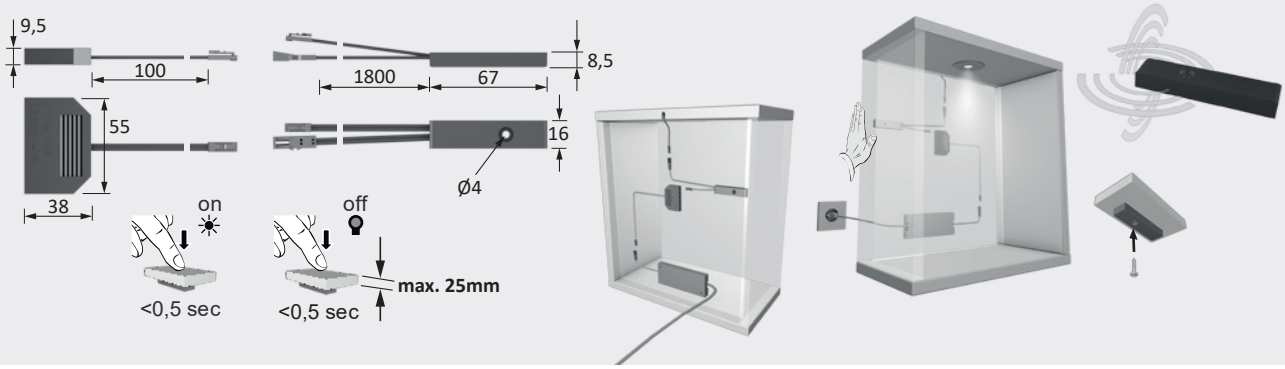
* A repeater enables the control of a lighting circuit of more than 36 W at 12 volts DC.

## Technical details

12 V

| | |
|---|---|
| For use with: | LED lights |
| Surface finish: | Black |
| Max. switching power: | 12 Volt DC-36 W |
| Test marks and symbols: | CE UK CA |
| Supply lead: | 1800 m |
| Switching lead: | 1800 mm to light |
| Standby: | <0.02 W |
| Plug connector IN: | LED mini M1 plug connector |
| Plug connector OUT: | M1 |

## Dimensional drawing / installation



# IR Door Switch

**Advantages**

- Particularly small infrared sensor for drilling into place
- Entry-level price

**Features**

- Only 8 mm drill hole required

**Examples of use**

- Door contact switch

## Technical details

12 V

| | |
|---|---|
| For use with: | LED lights |
| Surface finish: | Aluminium look |
| Max. switching power: | 12 Volt DC-36 W |
| Test marks and symbols: | CE UK CA |
| Switching distance: | see drawing |
| Sensor lead: | 1000 mm |
| Supply lead: | 1000 mm |
| Switching lead: | 1000 mm |
| Standby: | <0.1 W |

## IR Door Switch

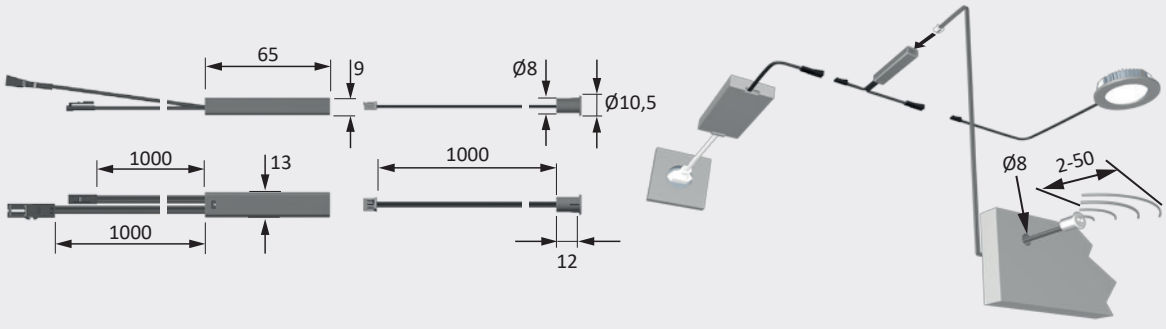
| | |
|---|---|
| IR Door Switch | 31 033 01 |

## Accessories

| | |
|---|---|
| Repeater 12 Volt DC* | 30 263 07 |

* A repeater enables the control of a lighting circuit of more than 36 W at 12 volts DC.

## Dimensional drawing / installation



# LED Dimmer

**Advantages**
- LED dimmer
- Robust metal switch button

**Features**
- Memory function for power failure
- The LED dimmer enables switching and dimming of LED luminaires or LED luminaire groups

**Examples of use**
- Switching and dimming of furniture lights

**Order information**
- LED dimmer must not be used in combination with sensor or wireless switches
- Only for use with dimmable LED luminaires

## Technical details

| | |
|---|---|
| For use with: | LED lights |
| Surface finish: | Stainless steel |
| Max. switching power: | 12 Volt DC-36 W |
| Test mark and symbols: | CE UKCA |
| Line lengths: | see drawing |
| Standby: | <0.5 W |
| Plug connector: | LED mini M1 plug connector |

## LED dimmer/switch

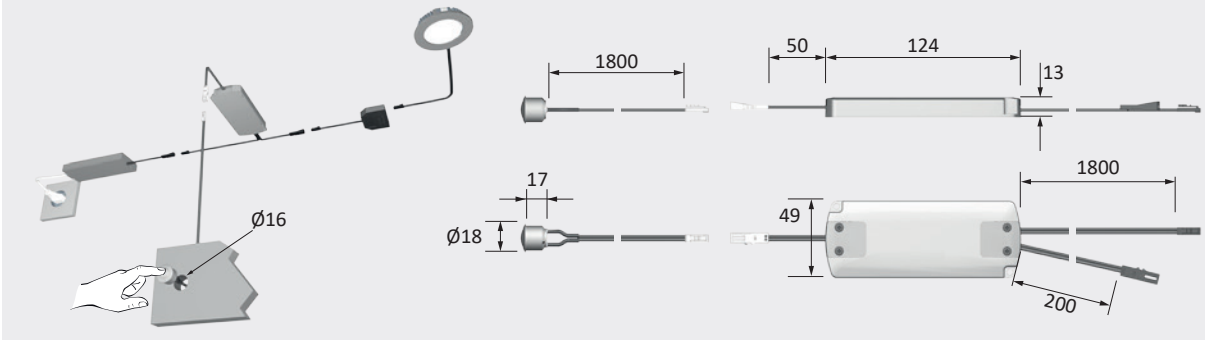
| | |
|---|---|
| Dimmer | 30 538 01 |

## Accessories

| | |
|---|---|
| Repeater 12 Volt DC* | 30 263 07 |

* A repeater enables the control of a lighting circuit of more than 36 W at 12 volts DC.

## Dimensional drawing / installation



# LED Touch

**Advantages**
- Sensor with dimming function for installation or screwing on
- With built-in orientation LED that can be switched off

**Features**
- Memory function for power failure
- Not for combination with upstream dimmer
- Dimming function can be switched off

**Examples of use**
- Switching and dimming of furniture lights
- As on/off switch

**Order information**
- Also available as changeover switch, see MultiSwitch² Touch

## Technical details

| | |
|---|---|
| For use with: | LED lights |
| Surface finish: | Aluminium look |
| Max. switching power: | 12 Volt DC-36 W |
| Test marks and symbols: | CE UKCA |
| Sensor lead: | 2000 mm |
| Supply lead: | 150 mm |
| Switching lead: | 150 mm |
| Standby: | <0.5 W |

## LED Touch (sensor switch/dimmer)

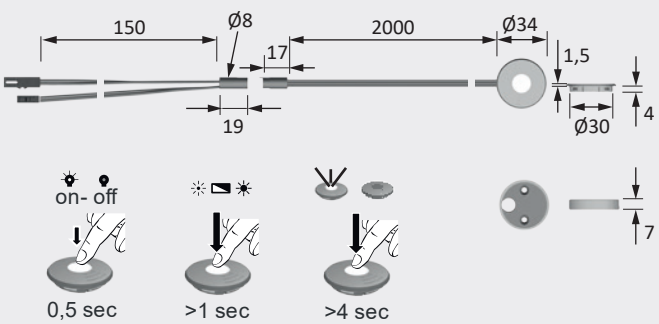
| | |
|---|---|
| LED Touch dimmer including add-on housing | 30 178 01 |

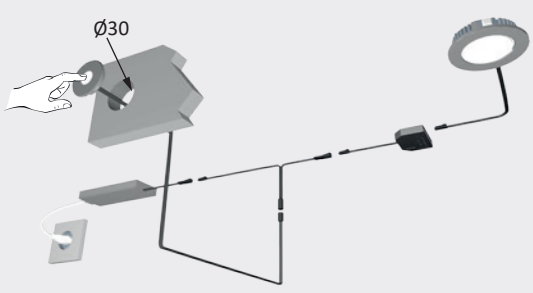
## Accessories

| | |
|---|---|
| Repeater 12 Volt DC* | 30 263 07 |

* A repeater enables the control of a lighting circuit of more than 36 W at 12 volts DC.

## Dimensional drawing / installation



# LED rocker switch

**Advantages**

- Very easy handling

**Examples of use**

- Switching of furniture lights

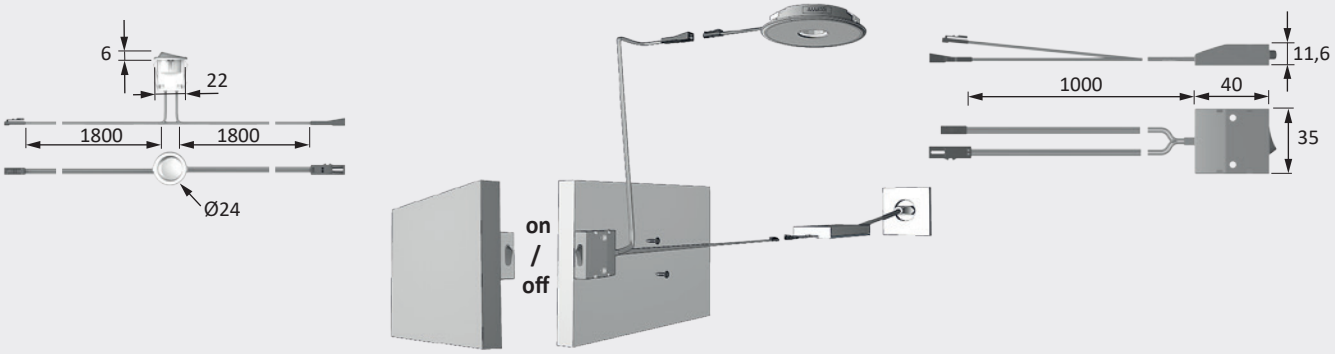
## Technical details

| | |
|---|---|
| For use with: | LED luminaires |
| Surface finish: | Black |
| Max. switching capacity: | 12 Volt DC-36 W |
| Test mark and symbols: | CE UK CA |
| Plug connector: | LED Mini<br>M1 plug-in system |

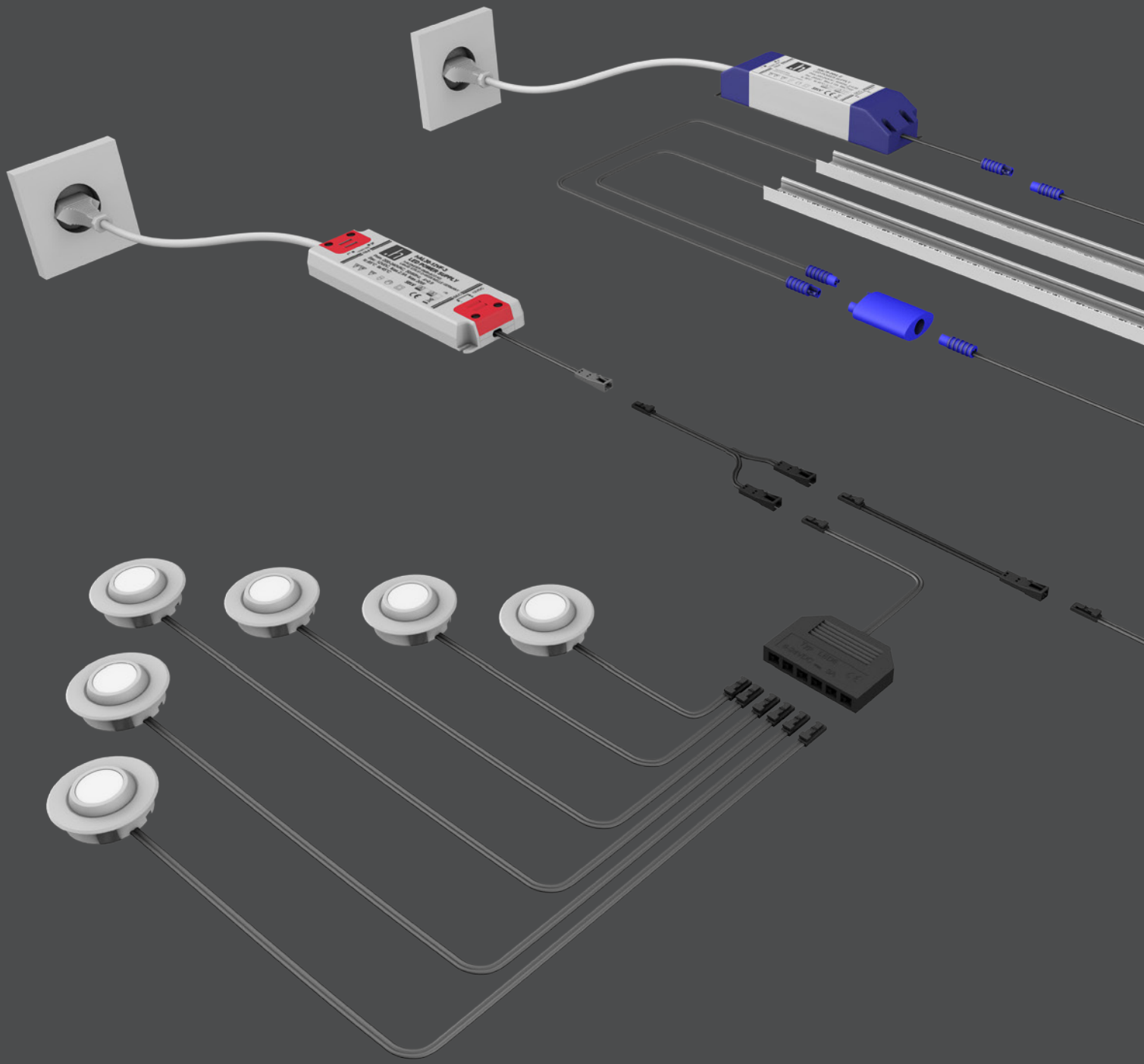
## LED rocker switch

| | |
|---|---|
| Mini rocker switch aluminium look - installation | 36 974 81 |
| Rocker switch black - Structure | 36 320 02 |

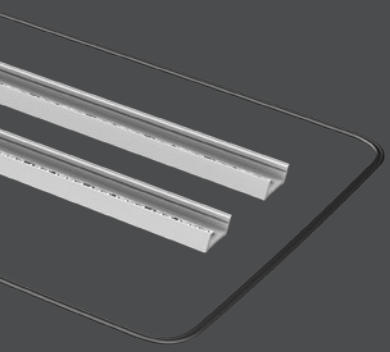
## Dimensional drawing / installation

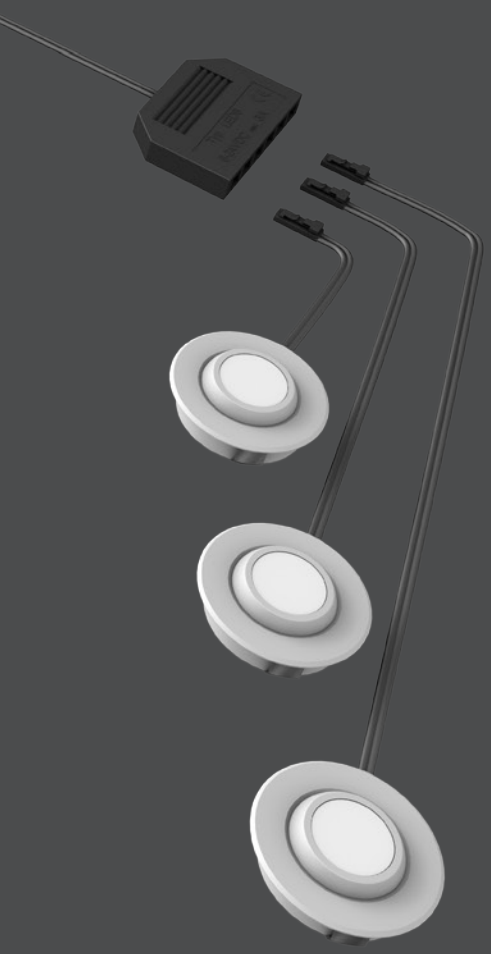


# Ballasts/leads



| Electronic ballast | LitePanel 68 | MultiLite Flood | EcoPower L | SignPlus | StarPoint | Sidespot |
|---|---|---|---|---|---|---|
| | 4.3 W | 4.0 W | 3.2 W | 3.2 W | 1.2 W | 1.4 W |
| 6 W | 1x | 1x | 1x | 2x | 5x | 4x |
| 10 W | 2x | 2x | 3x | 4x | 8x | 7x |
| 15 W | 3x | 3x | 4x | 6x | 12x | 10x |
| 20 W | 4x | 5x | 6x | 8x | 16x | 14x |
| 30 W | 7x | 7x | 9x | 13x | 25x | 21x |
| 60 W | 13x | 15x | 18x | 24x | 41x | 42x |





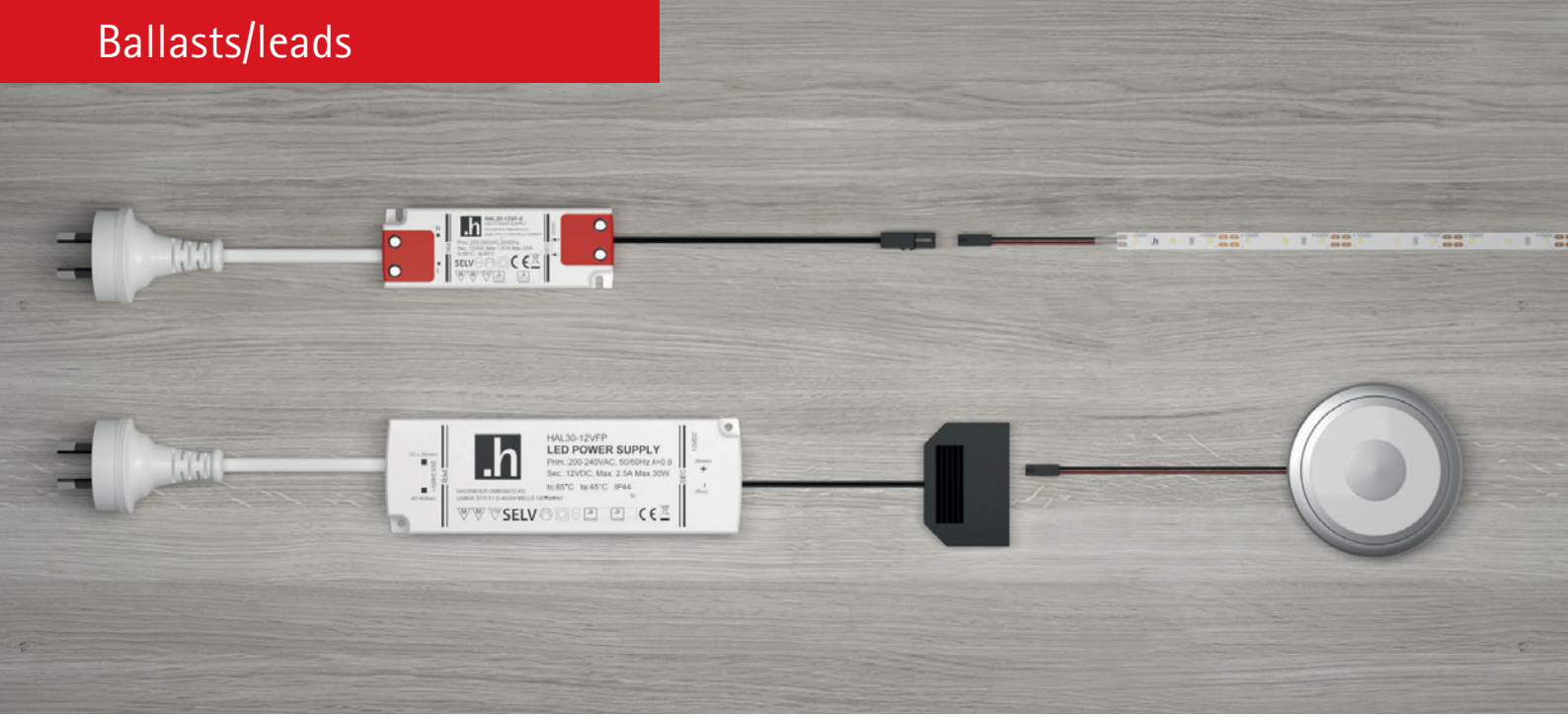
# Matching power sources

## Plug-in systems for Plug & Play

On the following pages you will find the right power sources for your lighting. You will find here the distributors and extension leads for all luminaires and controls you need to realise even large systems. The easily distinguishable plug-in systems ensure Plug & Play and make a wrong combination impossible.

All Halemeier electronic ballasts, called ballast for short, have overload protection, temperature protection, short-circuit resistance and are explicitly designed for use with LED luminaires and for use in furniture.

Our ballasts are certified by external testing bodies such as TÜV for compliance with all current safety and product standards.




# Ballast 12 Volt DC

### Advantages

- Short-circuit-proof
- Overload-protected
- Temperature-protected

### Examples of use

- For 12 V DC furniture lights

### Order information

- The ballast power must be equal to or higher than the total power of the connected consumers

## Technical details

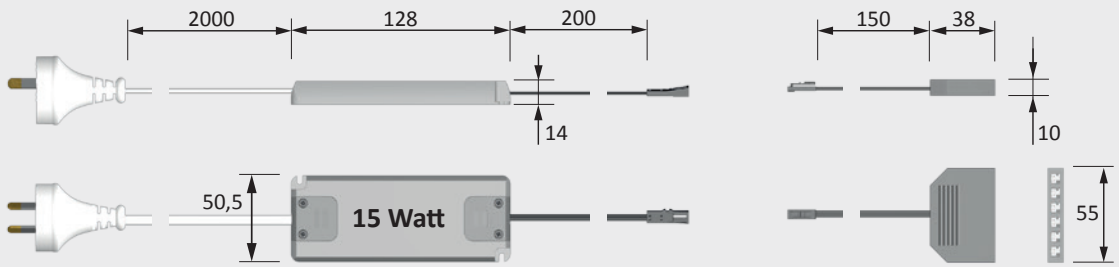
| | |
|---|---|
| For use with: | LED lights |
| Surface finish: | white |
| Operating voltage: | 100 V DC<br>240 V AC |
| Mains frequency: | 50 Hz/60 Hz |
| Output voltage: | 12 V DC |
| Test marks and symbols: | CE UK*** |
| Plug connector | |
| Primary: | 2000 mm with flat Australian plug |
| Plug connector: | LED Mini M1 plug connector |

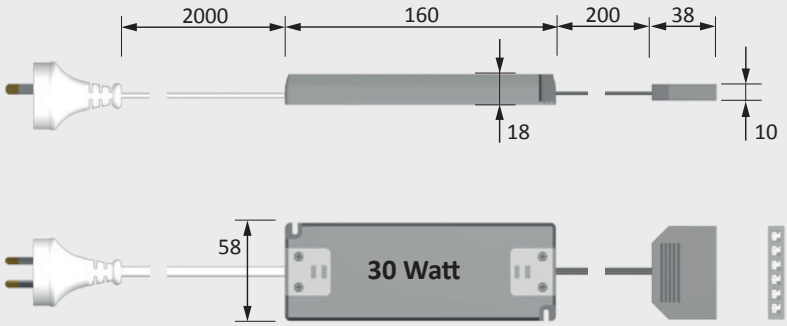
### Ballast 12 Volt DC / 200 - 240 Volt AC*

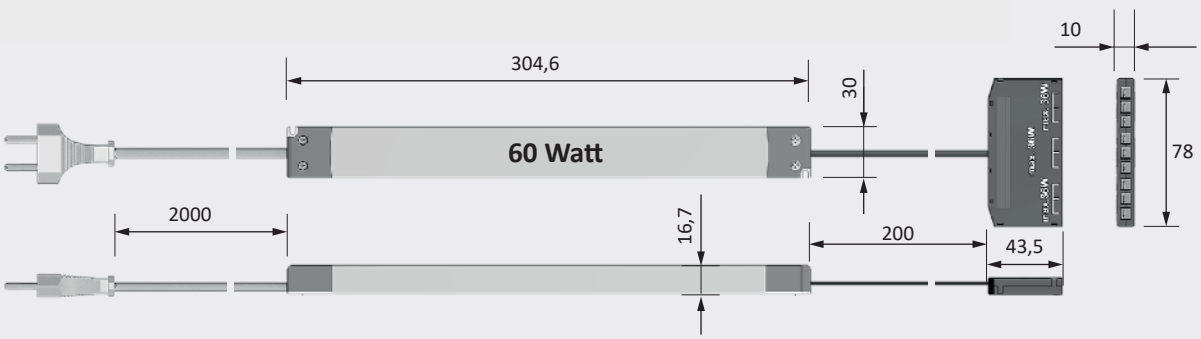
| | |
|---|---|
| 15 W (1-way + 6-way distributor) | 31 026 01 |
| 30 W (1-way + 6-way distributor) | 30 221 01 |
| 60 W (9-way, secured) | 31 025 03 |

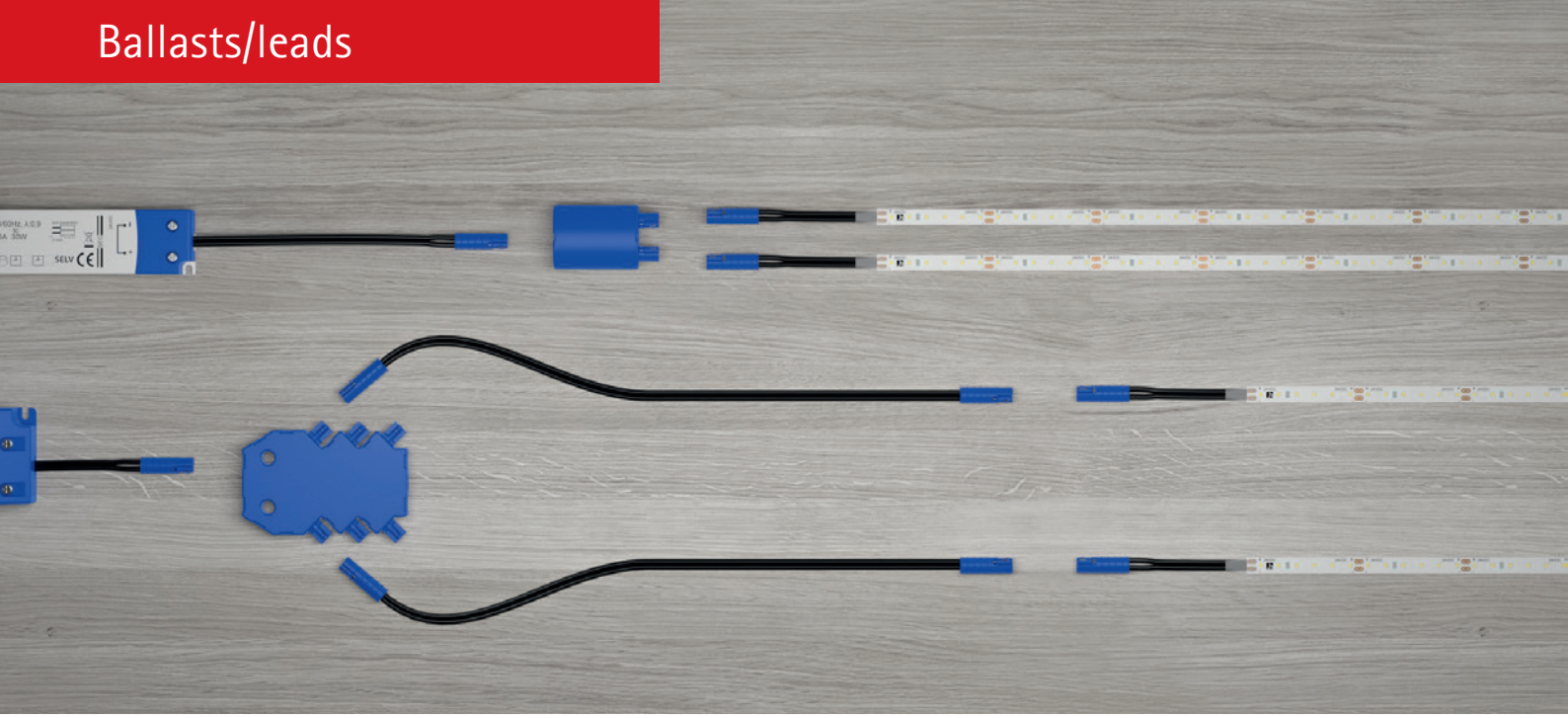
* With these ballasts, luminaires connected on the secondary side (12 Volt DC) can be switched on and off with our switching and dimming systems for 12 Volt DC can be controlled.
** With these ballasts, a leading-edge or trailing-edge phase dimmer (standard in domestic installations) is used on the primary side (230 V AC) For dimming the connected luminaires.
*** Only in combination with UK adapter 36 210 01

## Dimensional drawing / installation





# Ballast 24 Volt DC

**Advantages**

- Short-circuit-proof
- Overload-protected
- Temperature-protected

**Examples of use**

- For 24 V DC furniture lights

**Order information**

- The ballast power must be equal to or higher than the total power of the connected consumers

## Technical details

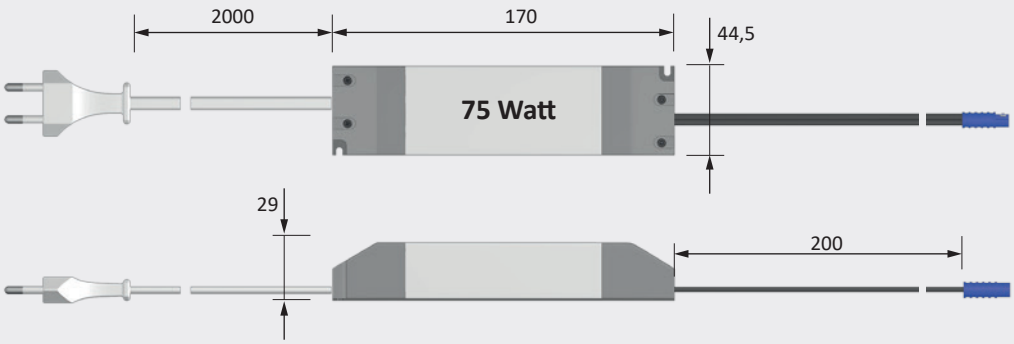
| | |
|---|---|
| For use with: | LED lights |
| Surface finish: | white |
| Operating voltage: | 220-240 V AC |
| Mains frequency: | 50 Hz/60 Hz |
| Output voltage: | 24 V DC |
| Test marks and symbols: | CE UKCA*** |
| Plug connector | |
| Primary: | 2000 mm with flat Australian plug |
| Plug connector: | LED-MultiPlug MP2 |

### Ballast 24 Volt DC / 200 - 240 Volt AC*

| | |
|---|---|
| 75 W | 30 222 01 |

* With these electronic ballasts, luminaires connected on the secondary side (24 Volt DC) can be switched on and off with our switching and dimming system for 24 Volt DC.
** With these electronic ballasts, a leading-edge or trailing-edge phase dimmer (standard in domestic installations) is used on the primary side (230 V AC) for dimming the connected luminaires.
*** Only in combination with UK adapter 36 210 01

## Dimensional drawing / installation



# Leads 12 Volt DC

**Advantages**

- LED plug-in system for 12 Volt DC lights

**Features**

- Plug bore diameter 8 mm

**Order information**

- Maximum connected load 3A/36 W
- Max. 5 m extension lead per light

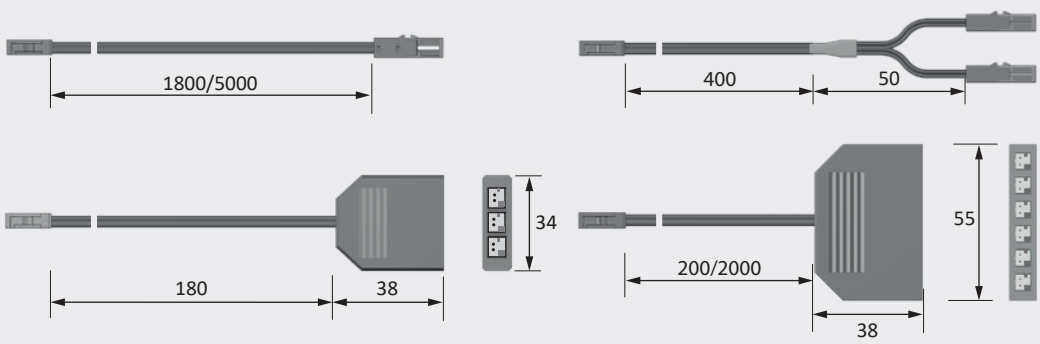
## Technical details

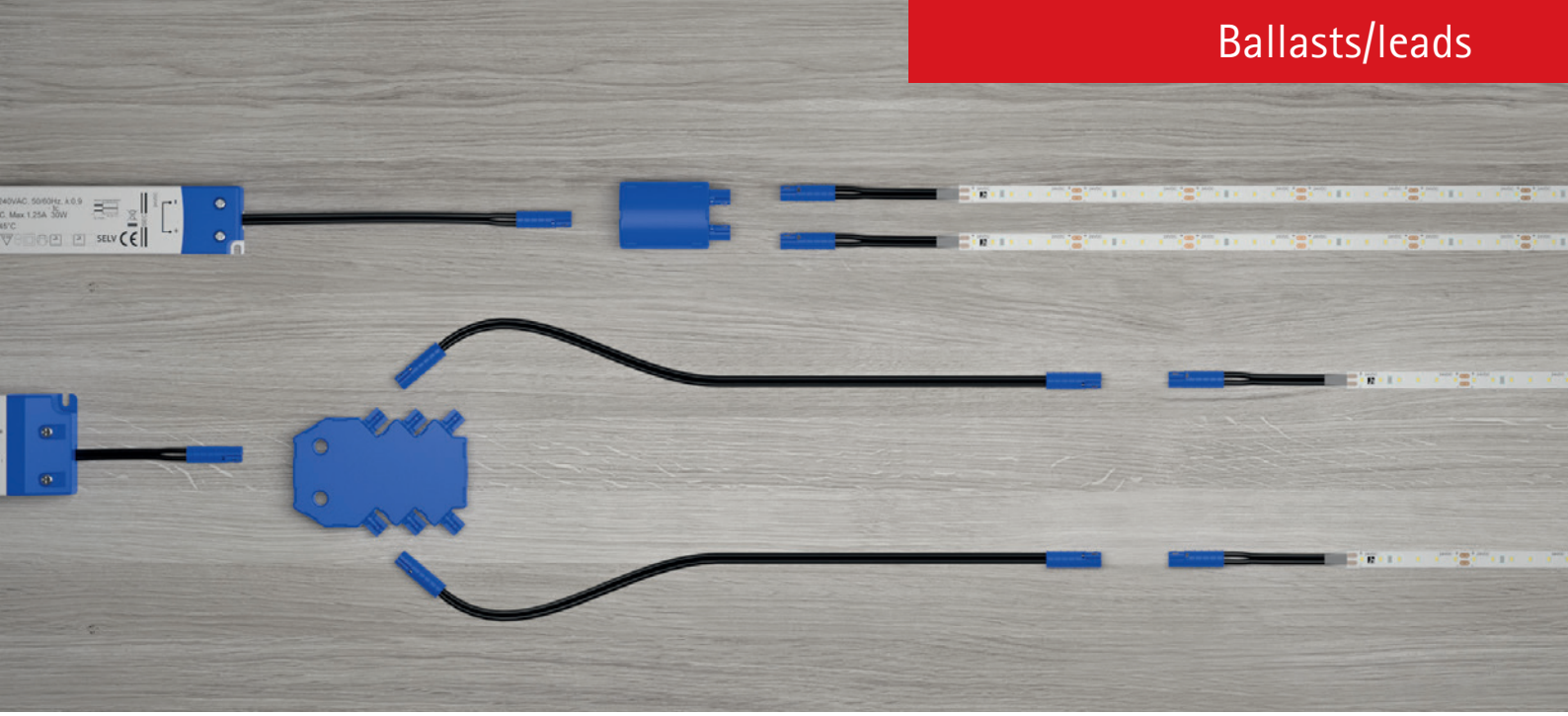
| | |
|---|---|
| Type: | Plug system |
| Connected load: | max. 3 A (36 W) |
| Surface finish: | black |
| Plug connector: | LED Mini<br>M1 plug connector |

## Leads 12 Volt DC

| | |
|---|---|
| Extension lead 1800 mm | 36 768 01 |
| Extension lead 5000 mm | 36 743 03 |
| 3-way distributor 180 mm | 36 852 01 |
| 6-way distributor 200 mm | 36 122 07 |
| 6-way distributor 2000 mm | 36 125 01 |

## Dimensional drawing / installation





# Leads 24 Volt DC

**Advantages**

- LED plug-in system for 24 Volt DC lights

**Features**

- Plug bore diameter 8 mm

**Order information**

- Maximum connected load 8A/192 W
- Max. 3.6 m extension lead per light

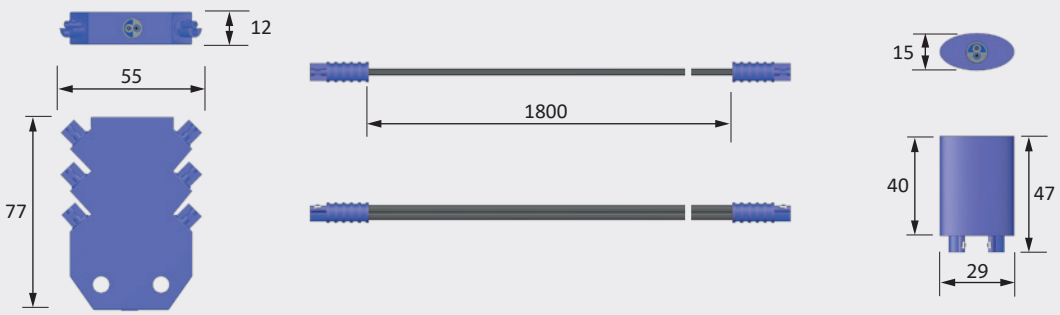
## Technical details

| | |
|---|---|
| Type: | Plug system |
| Connected load: | max. 8 A (192 W) |
| Surface finish: | blue |
| Plug connector: | LED-MultiPlug MP2 |

## Leads 24 Volt DC

| | |
|---|---|
| Extension lead 1800 mm | 36 177 01 |
| 2-way distributor | 39 422 51 |
| 6-way distributor | 36 996 01 |

## Dimensional drawing / installation



# USB socket

**Advantages**
- USB charger socket
- for connection of 2 devices

**Features**
- For drill-in mounting
- Quick charging of mobile devices

**Examples of use**
- USB devices

**Order information**
- electronic ballast must have at least 15 W spare capacity

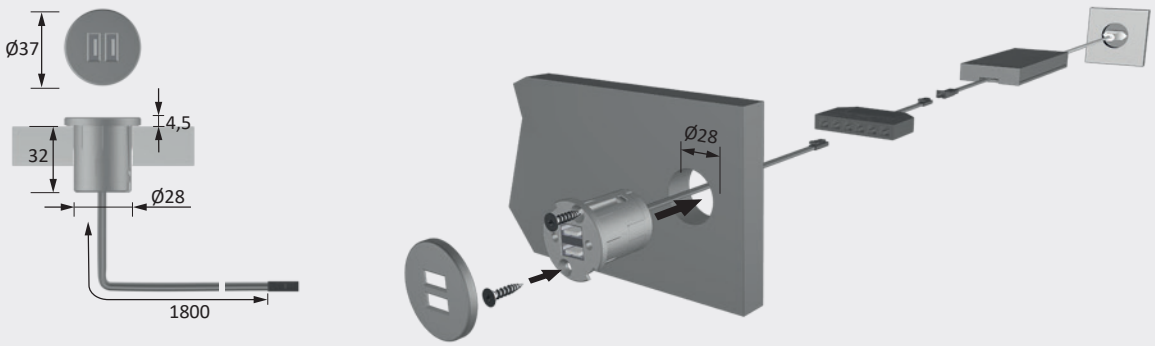
## Technical details

| | |
|---|---|
| Type: | Flush installation |
| Surface finish: | Aluminium look |
| Operating voltage: | 12 V DC |
| Charging voltage: | 5 Volt DC |
| Charging current: | max. 2.1 A |
| Test mark and symbols: | CE UKCA |
| Plug connector: | LED mini<br>M1 plug connector |

### USB socket

| | |
|---|---|
| USB socket | 30 574 02 |

## Dimensional drawing / installation



# Types of lighting

Light can shape, change and move.

**Orientation lighting**

The same room takes on a different appearance due to the change in lighting. Decorative elements such as backlit picture frames unfold their effect. Energy-saving LEDs serve as orientation light – even during the night.

**Functional lighting**

Functional, neutral white light is ideal for the work area in the kitchen. The colours and fine structures of food can be seen best in this light. Lights can be installed discreetly in the upper cabinets directly above the working area. Thus uniform, glare-free illumination can be achieved.

**Accent lighting**

One room, two moods: The dining table is bathed in gentle light for a leisurely dinner. It is at the very centre of the room. In the background, accent lighting creates a captivating sense of depth.

# Illuminating facts about light

## We bring light into the darkness

**Lux, lumen and kelvin, warm white, cool white and neutral white: although the terminology of lighting systems is all around us, it is not always clear to us. We would like to bring light into the dark with a few explanations.**

### Light colour and colour temperature

White light is composed of the entire colour spectrum, i.e. it is the sum of all light colours. If the proportion of red in the light dominates the light appears warm, and cooler if it contains more blue. This colour impression that a light source gives us is called the light colour. Colour temperature is measured in Kelvin (K). This only provides information on the visual colour impression; it does not say anything about the thermal value of the light. The annealing colours of a black test piece heated to the appropriate temperature serve as a reference for this.

### The classifications

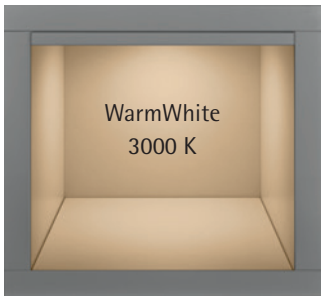
XW
XtraWarmWhite
2500 - 2800 K
Illumination of e.g. baked goods

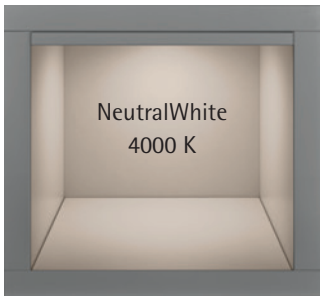
WW
WarmWhite
2900 – 3300 K
Comfortable, calming

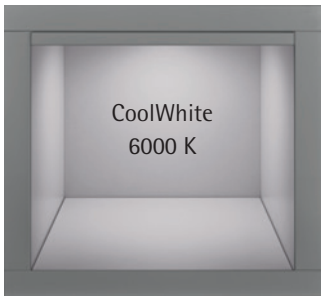
NW
NeutralWhite
4000 – 4500 K
Objective

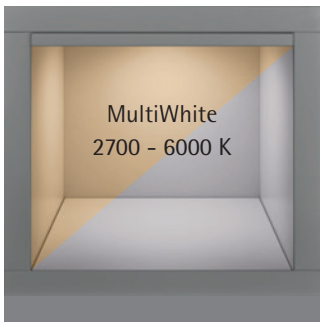
CW
CoolWhite
5000 – 6500 K
Daylight-like, technical, stimulating

MW
MultiWhite 2500 – 6500 K
Adjustable white
Cosy to daylight-like




The colour designations are not standardised and do not designate specific light colours, but merely colour ranges.

## Colour rendering

The colour rendering of light determines whether the light makes the colours appear dull or bright. It is important for good visual results and pleasant viewing experiences.

Light that contains all spectral colours – such as day light – makes the colours of objects look natural. Colour rendering is neutral, and therefore particularly favourable for judging colours.

The colours of objects tend to look unnatural in light with an unbalanced colour spectrum.

The quality of the colour rendering of a light source is assessed by the colour rendering index (CRI). It is derived from common test colours and indicates how naturally colours are rendered. Depending on the visual task, the appropriate colour rendition should be chosen. To ensure a relaxed and positive visual experience, the colour rendering index should not be less than 80.

Many customers attach great importance to high-quality furnishings and fittings for their homes and living environments. A lot of money and passion is invested in the ambience. But only the optimal lighting can bring their interior design perfectly to the fore.

Only an indirect relationship exists between light colour temperature and colour rendition. The currently best method uses the principle of "luminescence conversion" and is used both for LED and fluorescent lamps. In this method the original blue LED light is transformed into white light by a very thin layer of phosphor material. Currently, CRI values of up to over 90 can be achieved with this method. This method currently provides the best price/performance ratio for high quality lighting solutions and is therefore preferred by HALEMEIER.

### Luminous flux

Luminous flux describes the luminous efficiency of a light source and is expressed in lumen (Lm).

### Luminous intensity

Light intensity (illuminance) is probably the term most frequently used in lighting and defines the incidence of luminous flux on a defined surface, measured in lux (lx).

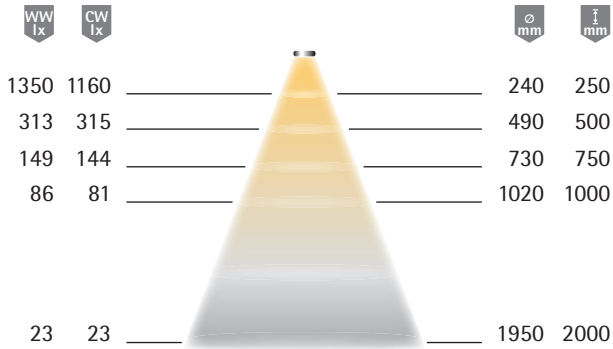
### Light distribution diagrams

The light distribution diagrams shown in the catalogue help to select the right luminaire.

**The diagrams illustrate:**

1. the illuminance at a distance from the luminaire
2. the light distribution area
3. the half value angle

Light distribution diagram / 60°




# Why do we give the illuminance in lux, and not in lumens or watts?

The wattage of a luminaire says practically nothing about what kind of lighting effect the luminaire produces. All we learn by specifying watts is how much power a light consumes while it is operating. Or put simply: what it costs us to turn them on. In other words, watts are important for assessing the efficiency of a luminaire and for selecting the appropriate electronic ballast. However, they say nothing about the brightness of this light.
The illuminance in lux specified for the luminaire, on the other hand, makes it easy to assess what effect – functional, decorative, accentuating or orienting – can be achieved.

Brightness is a generic term for subjective impressions and objective measured quantities for the visual perception of – visible – light.
This means that we all have a different "need" for brightness. As a rule, older people, for example, need more light than young people in order to have the same impression of brightness.

When planning, it should also be taken into account that dark surfaces "swallow" more light than light surfaces. Therefore: The lower the reflectance and the more difficult the visual task, the higher the illuminance needs to be.

**Some examples of degrees of reflection:**

- White walls up to 85 percent
- Maple and birch up to 60 percent
- Light oak up to 35 percent
- Red bricks up to 25 percent
- Dark oak only up to 15 percent

**ENEC**
European mark of conformity: Confirmed standards conformity for electrical products through national certification bodies.

**VDE-GS mark**
German mark for appliances as technical equipment according to the Appliance Safety Act GSG.

**EMC**
Approval mark of the VDE, confirming compliance with the law on electromagnetic compatibility.

**CE**
The CE mark certifies among other things compliance with the Low Voltage Directive and the EMC Directive by the manufacturer or importer.

**F mark**
In the past, luminaires suitable for direct mounting on or against normally flammable materials bore the F mark. This is no longer required by current standardisation status, but assumed. Only deviations are marked.

**MM mark**
Lights and transformers suitable for installing in or on furniture which are made from materials with unknown flammability properties.

**Temperature-protected electronic transformer**
Converter is protected against overtemperature and switches off in the event of a fault. The value in the triangle shows the maximum housing temperature in the event of a fault.

**Short-circuit-proof safety transformer**
Converter is protected against short circuit and switches in the event of a fault.

**Independent electronic transformer**

$ta_{max.}$ **Maximum permissible ambient temperature**
This is the temperature level up to which no components are thermally overloaded.

$tc^{\circ}$ **Temperature reference point**
Denotes the temperature reference point on the housing surface which, if exceeded, reduces useful life.

**SELV** **Protective extra-low voltage**
Safety Extra Low Voltage

**Safety class 1 – Devices with earth conductor connection**
Equipment in which protection against electrical shock does not only rely on basic insulation. An additional measure of protection is given by connecting those conductive components to the protective earth conduct or in the building wiring that are otherwise capable of assuming hazardous voltages if the basic insulation fails.

**Protection class 2 – devices without protective earth connection**
Equipment where the protection against electric shock is not only based on the basic insulation, but where additional safety measures for double insulation or reinforced insulation are present. There is no facility for connection to protective earth conductors.

**Protection class 3 – Devices with protective extra-low voltages**
Equipment with protection against electric shock on protective extra-low voltage and in which voltages higher than the protective extra-low voltage are not generated – For voltages below 25 volts AC or 60 volts DC, protection against contact can be completely dispensed with.

**IP codes** **Protection against foreign bodies / water**

| | |
|---|---|
| IP 20 | Protection against medium-sized foreign bodies / no protection against water |
| IP 21 | Protection against medium-sized foreign bodies / protection against water |
| IP 40 | Protection against granular foreign bodies / no protection against water |
| IP 44 | Protection against granular foreign bodies / protection against splashing water from all directions |
| IP 65 | No ingress of dust / protection against water jets |
| | Use only in dry rooms |

**The following marks confirm compliance with North American standards**

QPS test mark for Canada and USA

Test mark of the UL Institute

Test mark of the ETL Institute

Declaration of conformity for products in the United Kingdom

zigbee Zigbee is the complete solution for the majority of major smart home solutions. Halemeier is a member of the ZigbeeAliance

# Tips & tricks

**Using Lux and Lumen values to select the right product**
If you are searching for functional lighting with a certain level of illumination, you can easily see whether the chosen product has the right degree of brightness by reading the Lux values on the lighting diagram. This also allows you to compare different lights. The luminous flux, or light output of a lamp, does not provide any information on these values. It is suitable only for selecting a light in systems where these are replaceable.

**Extending LED leads**
Leads cannot be infinitely extended. Firstly, unwanted EMC effects could occur (leading to disturbances in electronic systems); secondly, ballasts could be overloaded or the light output of the lamp significantly reduced.

**Our lights based on 12 V DC** are supplied with a mini LED plug system M1 and may be generally extended by 2 extension leads of 1.8 m each in addition to the supply lead fitted as standard.

**Our lights based on 24 V DC** are supplied with a Multi-Plug system MP2 and may be generally extended by 2 extension leads of 1.8 m each in addition to the line assembled as standard.

**Dimming LED lights**
In the information box "Technical details", which you will find on every product page in the catalogue, we indicate whether a luminaire is dimmable. LED luminaires are dimmed by PWM (pulse width modulation) on the extra-low voltage side. This is done either by our Smart.home controls, LED dimmers or by special electronic ballasts, which are controlled by a 1-10 volt control voltage or a phase-cut dimmer, depending on the type. Important: Standard LED ballasts are not dimmable.

**Who remembers what?**
All switches of this range "remember" their state when the power was switched off. This means, for example, for the S-Mitter that the previously set dimming level remains available after disconnection from the mains.

**Factors affecting life span**
As a basic rule, the indicated life span of technical equipment is based on an ambient temperature of 25° Celsius. Higher temperatures usually reduce the lifetime.
When installing, avoid predictable heat build-up
(e.g. by mounting a ballast between two wooden plates), unless absolutely necessary.

**Heat generation**
The light emission of LED generates a certain amount of heat, which is however is so low (compared to other technical appliances) that it has almost no impact on the environment. The design of the light ensures that under normal conditions of use no heat accumulation will occur that reduces the life of the electronic components and the LED in particular. When using high-powered LED flex strips, the mounting surface must be able to dissipate some of the heat. We therefore recommend the use of ChannelLine profiles made of aluminium that act as heat sinks for LED light strips.

**Loads of ballasts for LED lights, connection of electronic switches**
The power consumption of small LED lights or the standby power of our switches is sometimes so low that you need to consider the minimum load when selecting the appropriate ballast. Electronic switches should only be connected to the ballasts whose power range is specified from 0 to X W. If voltage drops below the minimum load, reliable operation is no longer guaranteed.

**Overload of ballasts**
Make sure that the ballast is not overloaded with the number of lights connected to it.

**Observe the inrush current**
Fully electronic ballast have no inductance in the input circuit which limits the current rise at switch-on. Therefore, a high current peak may occur when the mains voltage is switched on. When using large number of ballasts (e.g. in an exhibition) this should be considered when protecting the circuit.

**Electronic ballast with output control**
Electronic ballast with output control compensate mains voltage fluctuations of +/- 10%, so that the emitted light flux is nearly constant. Devices of this type are also called controlled devices.
In so-called uncontrolled devices, mains voltage fluctuations of +/- 10% also mean a +/- 10% fluctuation of lamp power and light output.

**Using IR switches**
When using IR sensors, such as in combination with the Multiswitch or the integrated sensor of InnoLine, make sure that the infrared beam is reflected cleanly to the receiver. High gloss but also too strongly frosted surfaces and incorrect mounting distances can lead here to errors. Please use the reflector stickers supplied.

**Blinking LED lights**
Blinking lights are typical of the over- or under-loading of a ballast. This can be caused by an inappropriate number of lights excessively long line connections or a partial short-circuit (e.g. clamped line).

**Malfunctions or different levels of brightness in LED Versa strips.**
When you connect sections of the Versa Inside strips,
you need to ensure that connectors have the exact polarity and are firmly seated.

**Binning allows for constant product quality.**
In the industrial production of LED chips, deviations always occur during the manufacturing process. The photometric properties of the chips differ in colour and luminosity. To ensure a constant light quality with the same brightness level and uniform light colour, the LED of a batch must be sorted. They are divided into selection classes, called "bins". Important selection criteria for this are chromaticity, luminous flux (unit: lumen) and colour temperature (unit:
Kelvin). This is why the precise specification of the light colour of a light series is simply not possible. To ensure availability and appropriate price/performance ratio, LED lights with different production data can be equipped with different selection classes of a LED. We are committed to infrequent change of selection classes and in many lights types we already offer "single binning" – i.e. fittings with always the same LED selection.

**Replacing LED light bulbs**
LED light bulb replacement is not provided.

**Care and maintenance**
Please only clean your light in OFF state.
The care is limited to surfaces, e.g. acrylic glass and covers. Ensure that no moisture enters the terminal boxes or electrical parts.

**Important information for LED lighting systems**
LED lighting systems can produce very intense beam that can possibly damage the eyes if used improperly.
Therefore, never look directly into the light from a short distance.

**Correct disposal of LEDs**
LED modules and LED lights are mercury free, but contain electronic components. They therefore fall within the regulations
of the Waste Electrical and Electronic Equipment Act (ElektroG/ WEEE). LEDs must therefore not be disposed of in the residual waste. LED lights can be disposed of free of charge at appropriate collection points.

**Safety instructions for installation:**
Always follow these instructions and the installation instructions for a safe and secure installation and use of this lamp. Keep the installation manual for future reference. Installation and electrical connections must be carried out by a qualified person. Always disconnect the power supply before connecting the circuit and secure it against unintentional reconnection. Make sure there is no voltage present before starting work. The maximum output in watts indicated on the lamp/operating unit must be taken into account when connecting it to a power circuit or a power supply unit. Under no circumstances may the specified value be exceeded! Lights may be used only for their intended purpose. Interior lighting may not be used outdoors. Lights may not be covered by any objects.

**Attention!** To avoid risks, a damaged outer flexible cable of this light may only be replaced by a qualified electrician or the manufacturer.

## Ecodesign Directive and the labelling of lighting sources and/or luminaires

With the publication of Delegated Regulation (EU) 2019/2015 of 11 March 2019, the competent Commission has replaced the former Regulation (EU) 874/2012. This means that the obligation to label luminaires has expired since 25.12.2019 and will be replaced by an obligation to label light sources, which will apply from 01.09.2021. If a light source is placed on the market as part of a containing product, the labelling obligation for the light source used also does not apply. Operating manuals or installation instructions need only state the energy efficiency class of the light source used.

With the appearance of this new regulation, the classification of the corresponding energy efficiency classes will also change. Example: A luminaire which in the past fell into energy efficiency class A as a luminaire according to (EU) 874/2012, only achieves energy efficiency class E according to the current regulation (EU) 2019/2015 with the illuminant which continues to be used unchanged. The luminaire is not less efficient, it is now only subject to a different calculation basis for determining the corresponding energy efficiency class of its illuminant. The effects on the efficiency of the end product luminaire, which are significantly influenced by design details such as housings, reflectors, lenses and covers, are not taken into account by the current regulation.

## We take over product responsibility in accordance with the WEEE Directive

In addition to all deliveries within Germany, Halemeier takes over the product registration** as a free service for its customers in other EU countries*.

The registration is not to be carried out with an overall EU authority, but with the respective national authorities of the member states. Halemeier currently undertakes this registration for deliveries to customers*) in Belgium, Denmark, Estonia, Finland, France, Greece, Ireland, Italy, Latvia, Lithuania, the Netherlands, Austria, Poland, Portugal, Romania, Sweden, Spain, the Czech Republic and Hungary.

**) Halemeier product registration is only sufficient for luminaires and devices which are marked with the Halemeier brand and which can be dismantled after installation by the installer using standard household tools. If they are not, the processor/furniture manufacturer must register his furniture independently. In case of export by the customer, an independent declaration by the distributor in the country of destination is mandatory.

**Technical data of the catalogue**
Halemeier only gives the values in his catalogue data that were determined for the complete product in our own laboratory and on the basis of algorithms.

# 3 years warranty
for all Magic by Halemeier catalogue items*

# 5 years warranty for
selected Magic by Halemeier LED luminaires**

**Warranty conditions**
Valid for Halemeier LED luminaires, LED ballasts and system accessories which are exclusively operated in the system with Halemeier products with purchase date from 01.05.2021.* The guarantee is valid on the territory of the European Union and Switzerland.

If a Halemeier LED luminaire or Halemeier electronic ballast or system accessory fail within the warranty period due to a product defect, the purchaser will receive a replacement or repair of the luminaire/system accessory free of charge. If the product is no longer available, Halemeier reserves the right to refund the pro rata purchase price. A decrease in luminous flux due to use is normal for LED products (up to 30% within the specified service life), does not constitute a defect and is therefore not covered by the warranty.

The warranty granted is valid on condition that the products are used in accordance with their product specifications and are installed and commissioned professionally, in accordance with the installation instructions enclosed with the product. The warranty expires if modifications or repairs have been carried out by third parties. The product must not be subjected to any mechanical loads that are not in accordance with its intended use.

Furthermore, the ambient temperature must not fall below -20°C and must not exceed 30°C. The relative humidity must not exceed 80% (does not apply in the protection classes provided for this purpose) and the products must not be subject to voltage fluctuations of more than 10%.
Due to technical progress and changes in luminous flux caused by use, subsequent deliveries of LED luminaires may show deviations in the light characteristics compared to the original products.
The warranty is excluded if the products have been modified or repaired or if the goods have been installed improperly or by unqualified personnel. The guarantee does not apply to incidental costs incurred in connection with the rectification of defects
(such as for installation and removal, transport of the defective and the repaired or new product, disposal, travel and travel time); these costs will be borne by the buyer..

Halemeier accepts no liability beyond this manufacturer's warranty.

Warranty claims must be made immediately after becoming aware of the defect within the warranty period. The warranty services do not have the effect of extending the warranty period, nor do they initiate a new warranty. However, the warranty claims of the purchaser shall continue to exist unchanged in addition to this manufacturer's warranty
The warranty period starts from the day of delivery ex works Halemeier.

* Excluded from the 3 or 5 year warranty are only:
Batteries and rechargeable batteries

** Excluded from the 5 year warranties are only :
LuckyLite Pro, LitePipe, InnoLine, LuckyLine and SwanLite.
We refer to our General Terms and Conditions under

www.halemeier.de

# Philips Licensing Program
## Wide assortment of innovative technologies

Halemeier is a licensee of the Philips LED
licensing program for luminaires and thus enjoys many advantages and opportunities: Only licensees get access to a wide range of over 200 Philips lighting innovations – from basic LED controls to system-level technologies that can be used in LED-based luminaires and retrofit luminaires. This will help to accelerate product development, increase cost efficiency and exploit new opportunities in the expanding market.

ENABLED
EnabLED
Licensing Program for LED Luminaires and Retrofit Bulbs
Member
Halemeier GmbH

zigbee

Halemeier is a member of the Zigbee Alliance.

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