

LICHT-IM-MOEBEL

Light Catalogue





**LIGHT IN
FURNITURE
THAT INSPIRES**

A photograph of a modern interior space. On the left, a wall is constructed from stacked, irregular grey and white stones. A small, rectangular opening in the wall reveals a dimly lit room with a white sofa and a framed picture of a landscape. A small, warm-toned light fixture is mounted on the stone wall. In the foreground, a white door is partially open, showing a silver handle and a keyhole. The door has the word 'magic' in large, bold, black letters, with 'by' in smaller, red letters below it.

magic

by

LIGHT IN FURNITURE THAT INSPIRES

magic
by HALEMEIER



Worlds of light

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Spotlights

Spotlights	47
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Linear lights

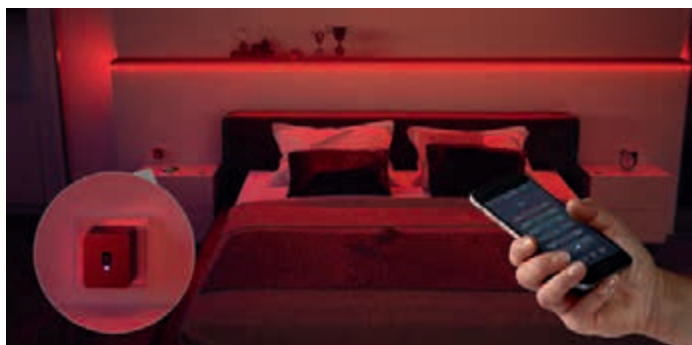
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Switch systems 69



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Ballasts & leads

Ballasts 88
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THE DIGITAL CATALOGUE.

Click, choose, create.

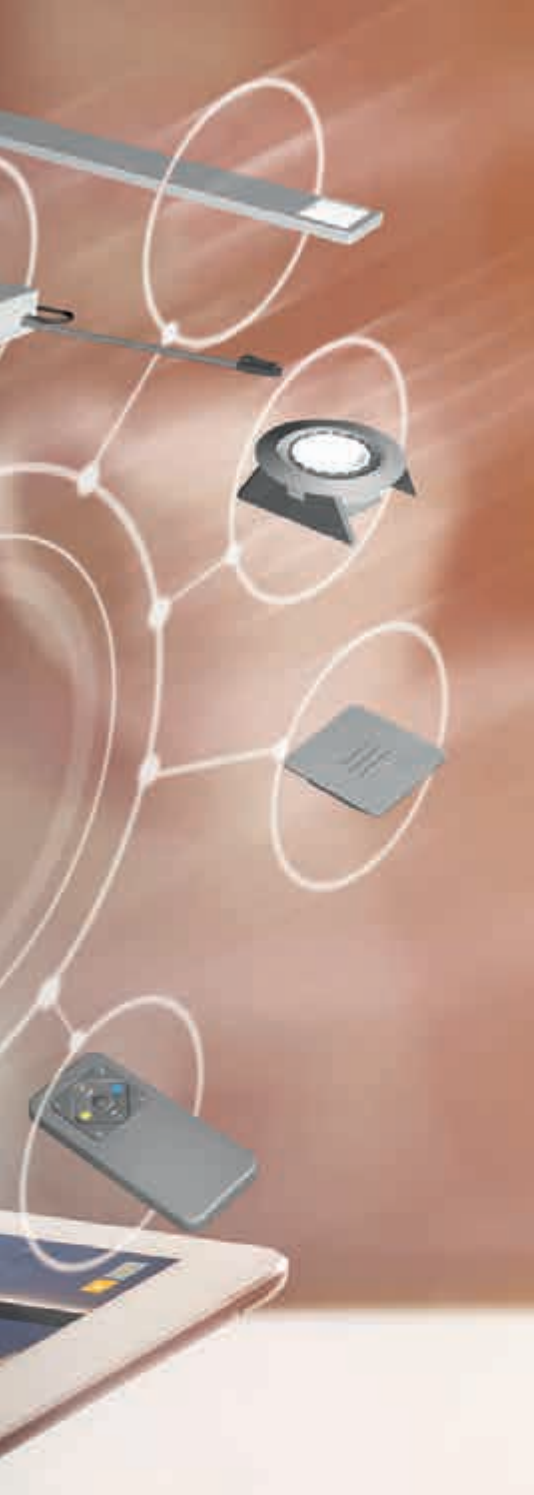
www.HALEMEIER.de In our digital catalogue you find our entire product portfolio of functional, high-quality furniture lights. Its clearly structured chapters provide you with all the information you need for your own creations.

Discover our broad range of products for attractive lighting solutions. Our lights enable you to create your own beautiful designs – and our technical information ensures that you can implement them safely and efficiently.

Simply choose the furniture light that meets your requirements best. Then send your product query to your dealer or directly to us. Together we will make sure that your lighting creation can be implemented quickly and safely, so that your customers will soon enjoy light in a new way, turning their rooms into vibrant living spaces.







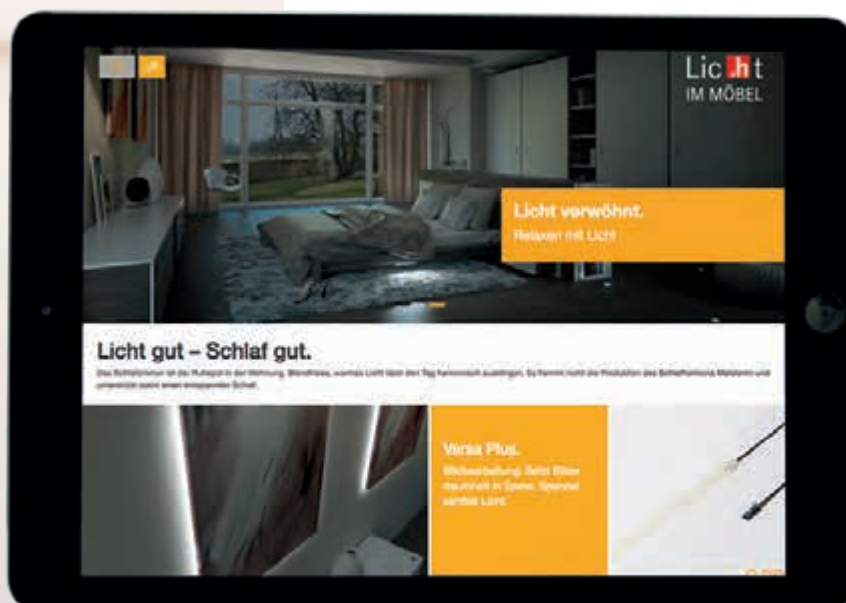
The showroom for furniture light. Experience light in real interiors.

See how accentuated light in furniture enhances a room – at www.licht-im-moebel.de. This website has been created especially for end customers. It provides them with exceptional interior design examples that give them an idea how our lighting solutions can enhance their own home.

However, this website is also of great use to furniture manufacturers. Register on www.licht-im-moebel.de so that interested customers can

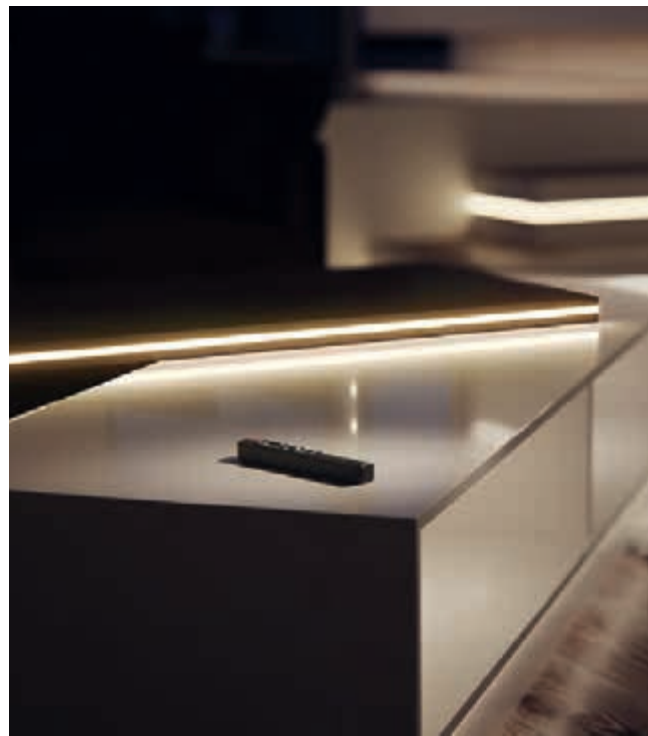
find your company as a HALEMEIER partner through a search by postal code. Our ShowRoom thus becomes a marketing tool for your own business, generating additional orders.

Please also make your existing customers aware of the ShowRoom, as it is a great source of inspiration for new furniture designs. A picture paints a thousand words.

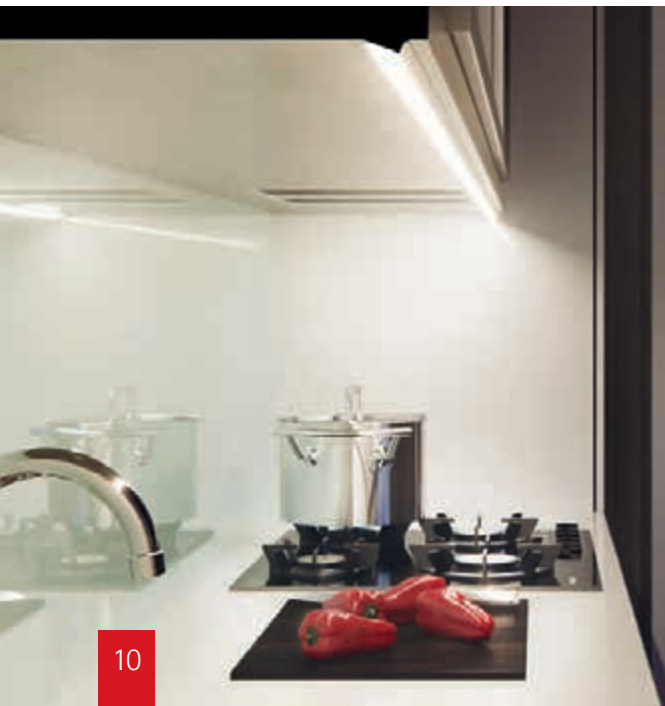


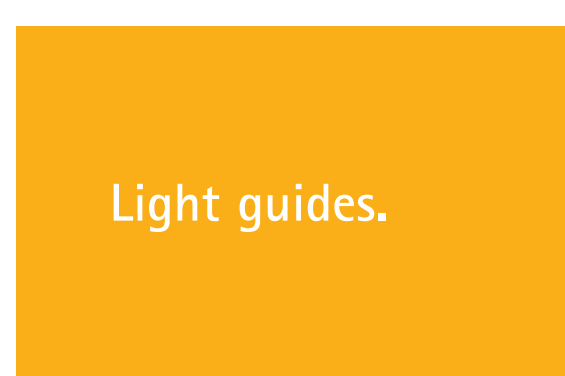


Light is versatile.



Light sets the tone.





Light sets the stage.



1

Scan the QR code on the catalogue page to call up our website.



Or visit
www.halemeier.de.

2

Experience the
HALEMEIER 3D showrooms!



The fascination of light.

For magical moments in shops and homes.

Are you looking for a real eye-catcher for your point of sale? Do you want to delight your customers with an exceptional lighting experience? Then let them see the HALEMEIER worlds of light in 3D!

It's easy: Place the smartphone in the VR holder of a conventional VR headset, scan the QR codes in our catalogue and put on the headset. The viewer then enters the fascinating virtual space of our showrooms to explore the world of furniture lighting in a completely new way!

Why not try it out for yourself? You will see that it is great fun! The smartphone and headset sensors automatically respond to your head movements as you explore our well-designed virtual rooms.

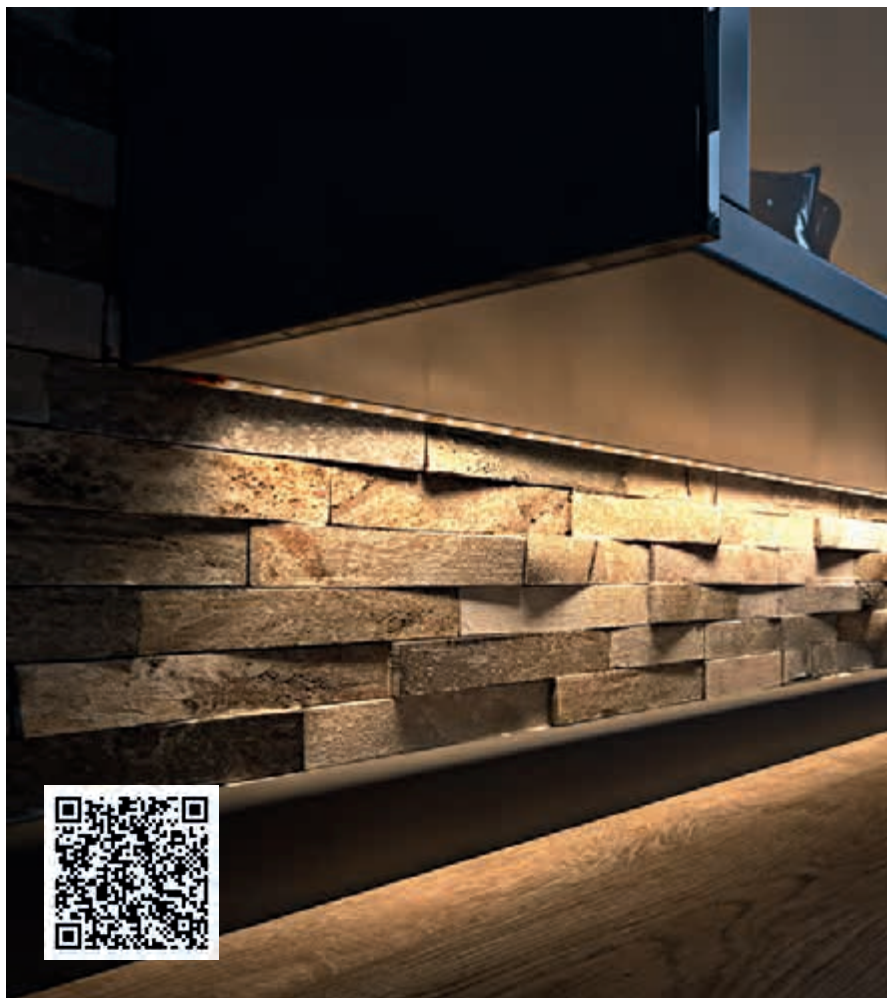
If you have no VR headset, just scan the QR code to let your customers see the respective showrooms on a smartphone or tablet. Swipe from interior to interior and see their faces brighten up.





Experience our
catalogue live.

With the VR worlds of light
by HALEMEIER.





mal corboy





Mal Corboy

A designer who loves light.

For the last few years, HALEMEIER furniture and room lights have been conquering Australia and New Zealand – not least due to the outstanding work of the renowned designer Mal Corboy. His interior designs include mesmerising furniture lighting solutions, for instance for stylish kitchens, bathrooms and bed rooms where he creates new ambiances, moods and eye-catching effects.

In all his designs Mal Corboy combines space, shape, function, colour and light according to the wishes of his clients, creating outstanding interiors that reflect his skills and

experience as well as his technical knowledge. In his native country of New Zealand, he has won more awards for exceptional interior and furniture design than any of his competitors.

Mal Corboy's designs always push the boundaries of technology. That is why he only works with materials and components from manufacturers on whose quality and service he can rely. And HALEMEIER is of course one of them.





Versa Inside 60
Page 24
LED



12 V



Versa Plus 60
Page 26
LED



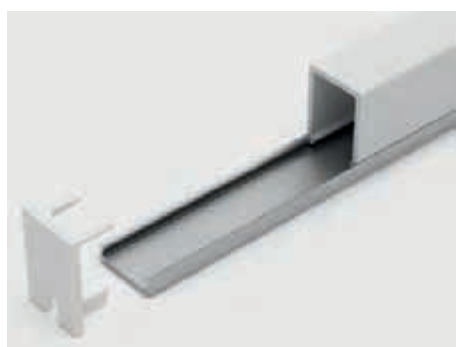
12 V



Versa Inside 90
Page 28
LED



12 V



ChannelLine A
Page 38
LED



ChannelLine G2
Page 39
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ChannelLine B
Page 40
LED



Cable ducts and adapters
Page 44



ChannelLine sensor
Page 45
LED

12 V

24 V
MP



SuperSpot
Page 48
LED

12 V



Eco Power Flood
Page 56
LED

12 V



Eco Spot
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12 V



StarPoint
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12 V



Versa Inside 120
Page 30
LED



12 V

24 V
MP



Versa Inside 120 HP
Page 32
LED



24 V
MP



Versa SuperPlus 60
Page 34
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24 V
MP



Channelline C
Page 41
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Channelline D
Page 42
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Channelline I
Page 43
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MultiLite Flood
Page 50
LED

12 V



Sign Plus
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12 V



Eco Power L
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12 V



LuckyLite Pro
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LED



LitePipe
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12 V



Light can be cut to length.



MultiSwitch Infrared sensor

Page 70
LED

HV

12 V

24 V
MP



MultiSwitch motion sensor

Page 72
LED

HV

12 V

24 V
MP



Tri-Mitter wireless switch

Page 74
LED

12 V

24 V
MP



Rocker switch

Page 84
LED



USB socket

Page 85

12 V

HV



12 V electronic ballasts

Pages 88
LED

12 V



24 V electronic ballasts

Page 90
LED

24 V
MP



12+24 V leads

Pages 92, 93
LED

12 V

24 V
MP



S-Mitter basic MultiWhite
Page 78
LED

12 V

24 V
MP



LED Touch
Page 80
LED

12 V



LED dimmer
Page 82
LED

12 V

Versa

stands for versatility. These LED strips are particularly versatile, can be cut to size and are available in various light colours. And our decorative Channelline profiles match them perfectly.



Channelline

These decorative profiles are available with transparent covers that bring the lighting power of our Versa LED strips to the fore. Equipped with translucent, opal covers, they look particularly attractive.

Linear lights

Customised light colour and length.

Customised light colour and length:
The LED lighting strips and built-in lights can be used to provide homogeneous light across the room or for professional backlit effects.





Versa Inside 60

Advantages

- Flexible, self-adhesive
- Double-side supply lead for length 5000 mm (one cut, two lights), see drawing

Features

- Low installation height
- Can be individually cut to length

Examples of use

- Universal application
- Can be combined with ChannelLine profiles

Ordering information

- To find the right combination of light and ballast, please note pictograms in the light catalogue!
- For possible combinations, see Versa overview
- Sales unit: 1

Technical details in brief



Lamp type:	LED surface-mounted light
Type of lighting:	Accent lighting
Operating voltage:	12 V DC
Light colour:	warm white / cool white / MultiWhite
Colour rendering index CRI:	> 90
Energy efficiency:	A+ 90 lm / W
Life span:	30,000 h (L70)
Power consumption:	4.8 W / m
Max. length at a stretch:	7 m
Dimmable:	Yes
Number of LEDs:	60 / m
Beam angle:	70°
Test marks and symbols:	CE ◇ ▼ ▼
Protection rating:	IP 20
Supply lead:	1800 mm
Plug connection:	LED mini M1 plug connector
Connection to:	LED ballast

Versa Inside 60

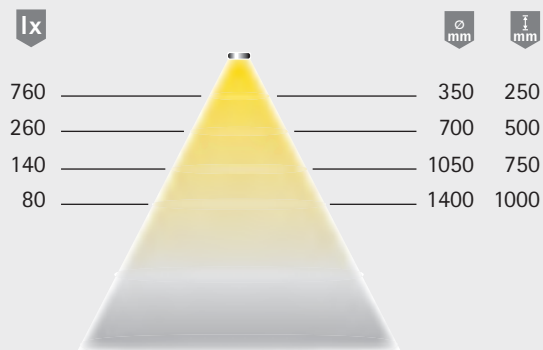
Article	Order no. MultiWhite*	Order no. Warm white	Order no. Cool white
1200 mm (max. 5.8 W)	-	55 801 12	55 801 22
5000 mm (max. 24 W)	55 802 33	55 801 13	55 801 23

Accessories (for more accessories, see chapters "Switch systems" and "Ballasts & leads")

Article	Order no.
Direct connector (max. 36 W) - set (10 units)	36 327 01
90° connector (max. 36 W) - set (10 units)	36 328 01
Flexible connector 100 mm (max. 36 W) - set (10 units)	36 329 01
Feeder 1800 mm for sections (max. 36 W)	36 330 02
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

* for MultiWhite accessories, see chapter "Switch systems"

Light distribution diagram / 70° (length 600 mm)

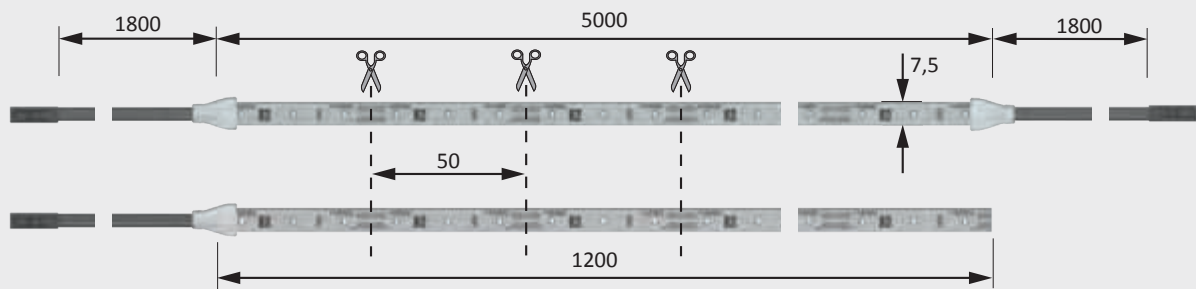


Light box

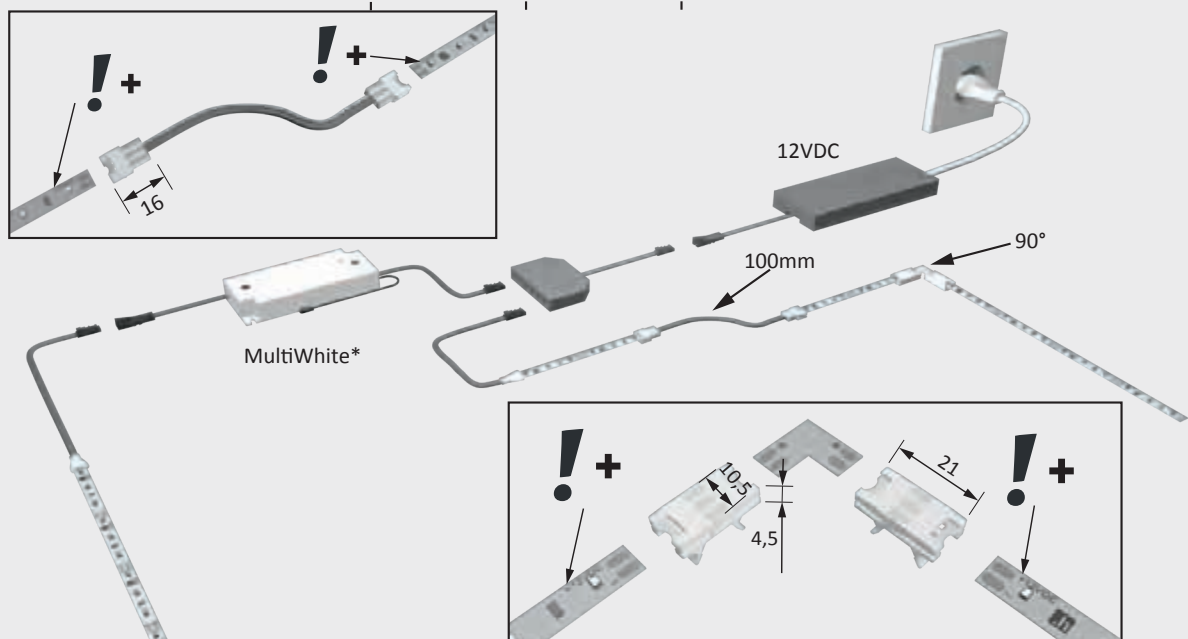
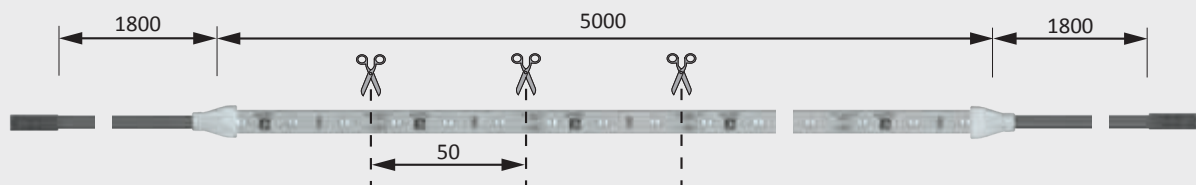


Dimensional drawing / installation

Light can be cut to size



MultiWhite





Versa Plus 60

Advantages

- ▶ Coated surface protects the LED
- ▶ Flexible, self-adhesive
- ▶ Double-side supply lead (one cut, two lights), see drawing

Features

- ▶ Low installation height
- ▶ Can be individually cut to length

Examples of use

- ▶ Universal application
- ▶ Can be combined with ChannelLine profiles

Ordering information

- ▶ To find the right combination of light and ballast, please note pictograms in the light catalogue!
- ▶ For possible combinations, see Versa overview
- ▶ Sales unit: 1

Technical details in brief



Lamp type:	LED surface-mounted light
Type of lighting:	Accent lighting
Operating voltage:	12 V DC
Light colour:	warm white / cool white / MultiWhite
Colour rendering index CRI:	> 90
Energy efficiency:	A+
Life span:	85 lm / W
Power consumption:	30,000 h (L70)
Max. length at a stretch:	4.8 W / m
Dimmable:	5 m
Number of LEDs:	Yes
Beam angle:	60 / m
Test marks and symbols:	70°
Protection rating:	CE ⚡ ⚡ ⚡ ⚡
Supply lead:	IP 44**
Plug connection:	1800 mm
Connection to:	LED mini M1 plug connector LED ballast

Versa Plus

Article	Order no. MultiWhite*	Order no. Warm white	Order no. Cool white
1200 mm (max. 5.8 W)	-	55 803 12	55 803 22
5000 mm (max. 24 W)	55 804 33*	55 803 13	55 803 23

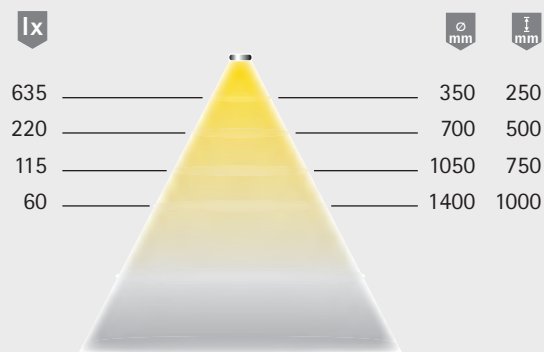
Accessories (for more accessories, see chapters "Switch systems" and "Ballasts & leads")

Article	Order no.
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

* for MultiWhite accessories, see chapter "Switch systems"

** only in moulded section of light


Light distribution diagram / 70° (length 600 mm)

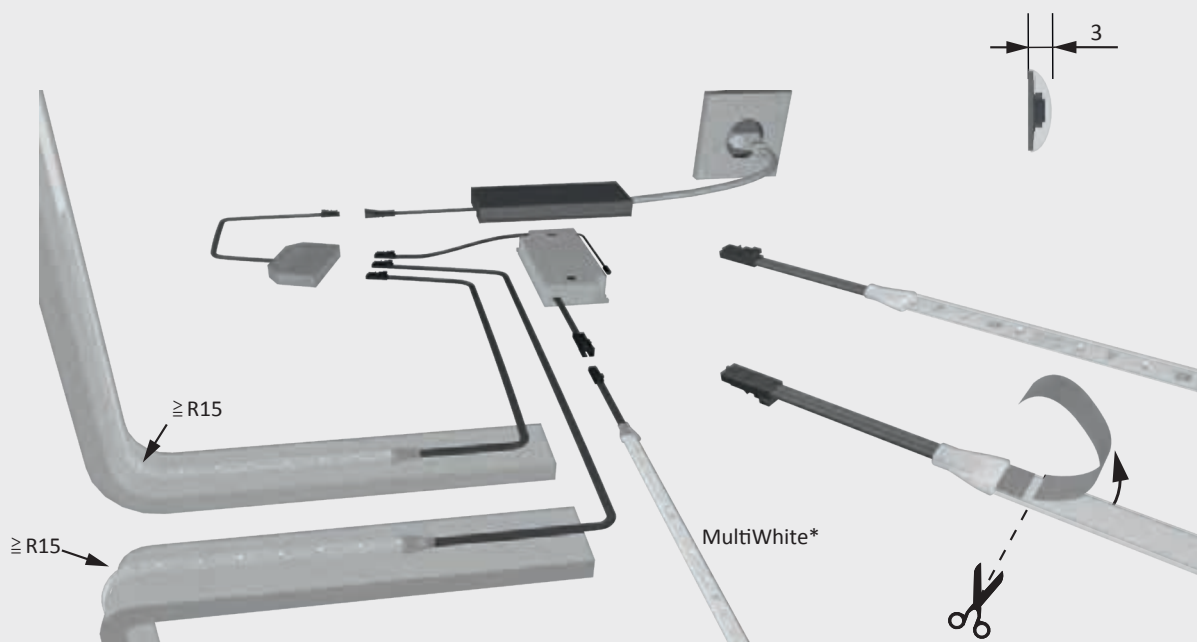
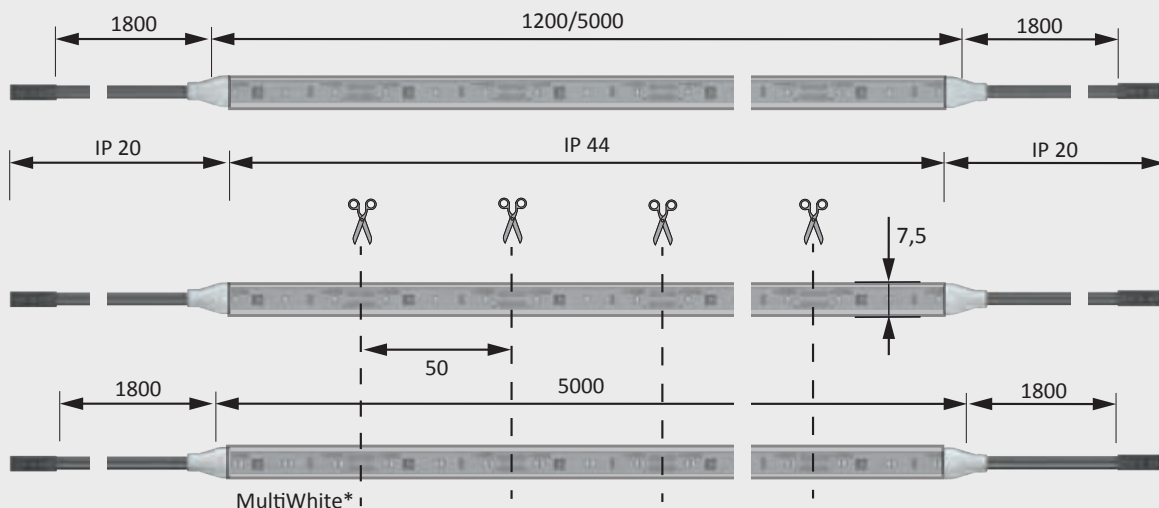


Light box



Dimensional drawing / installation

 Light can be cut to size





Versa Inside 90

Advantages

- Flexible, self-adhesive
- Double-side supply lead for length 5000 mm (one cut, two lights), see drawing

Features

- Low installation height
- Can be individually cut to length

Examples of use

- Universal application
- Can be combined with ChannelLine profiles

Ordering information

- To find the right combination of light and ballast, please note pictograms in the light catalogue!
- For possible combinations, see Versa overview
- Sales unit: 1

Technical details in brief



Lamp type:	LED surface-mounted light
Type of lighting:	Functional lighting / accent lighting
Operating voltage:	12 V DC
Light colour:	warm white / cool white / MultiWhite
Colour rendering index CRI:	> 90
Energy efficiency:	A+
Life span:	90 lm / W
Power consumption:	30,000 h (L70)
Max. length at a stretch:	7.2 W / m
Dimmable:	5 m
Number of LEDs:	Yes
Beam angle:	60 / m
Test marks and symbols:	70°
Protection rating:	CE, RoHS, WEEE
Supply lead:	IP 20
Plug connection:	1800 mm
Connection to:	LED mini M1 plug connector LED ballast

Versa Inside 90

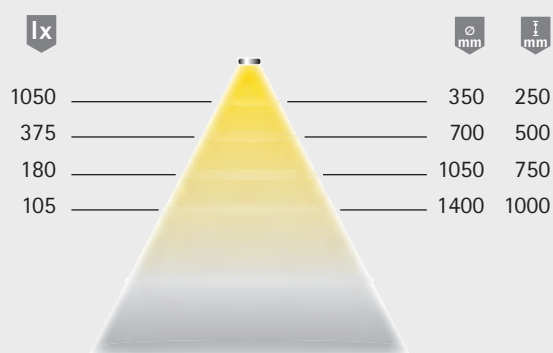
Article	Order no. MultiWhite*	Order no. Warm white	Order no. Cool white
1200 mm (max. 8.6 W)	-	55 805 12	55 805 22
5000 mm (max. 36 W)	55 806 33*	55 805 13	55 805 23

Accessories (for more accessories, see chapters "Switch systems" and "Ballasts & leads")

Article	Order no.
Direct connector (max. 36 W) - set (10 units)	36 327 01
90° connector (max. 36 W) - set (10 units)	36 328 01
Flexible connector 100 mm (max. 36 W) - set (10 units)	36 329 01
Feeder 1800 mm for sections (max. 36 W)	36 330 02
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

* for MultiWhite accessories, see chapter "Switch systems"


Light distribution diagram / 70° (length 600 mm)

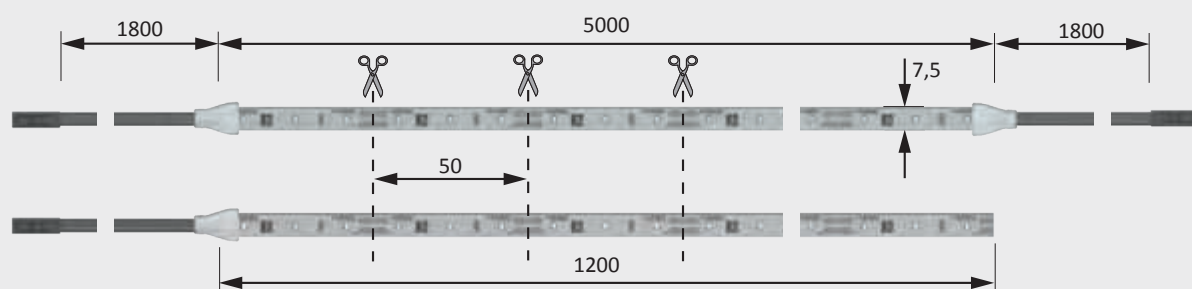


Light box

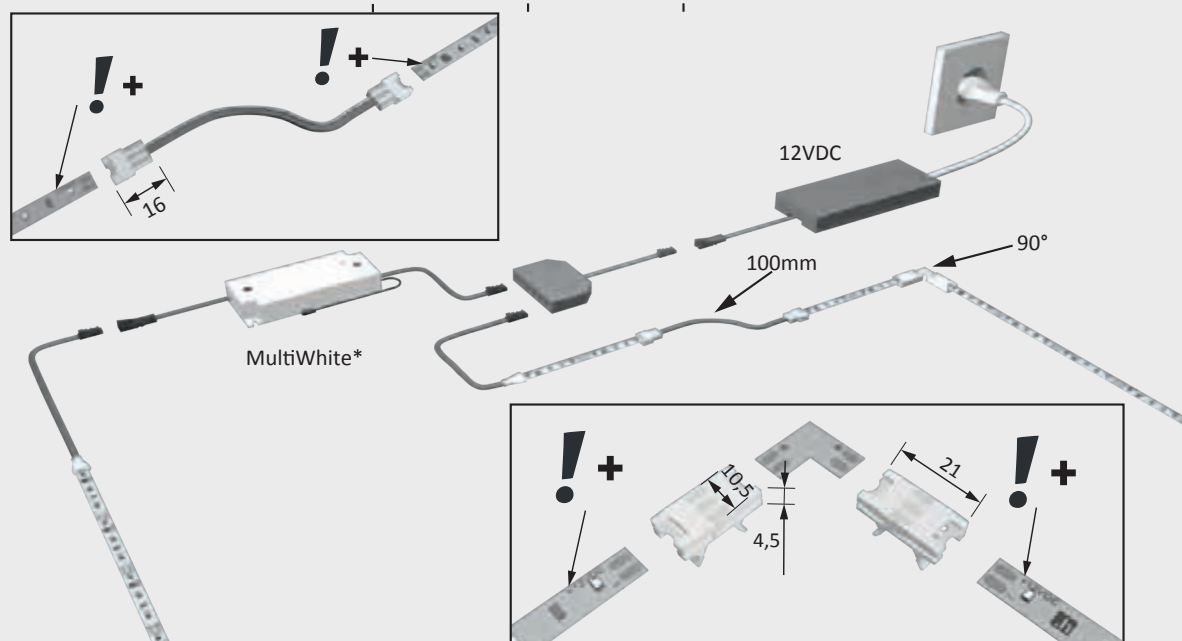
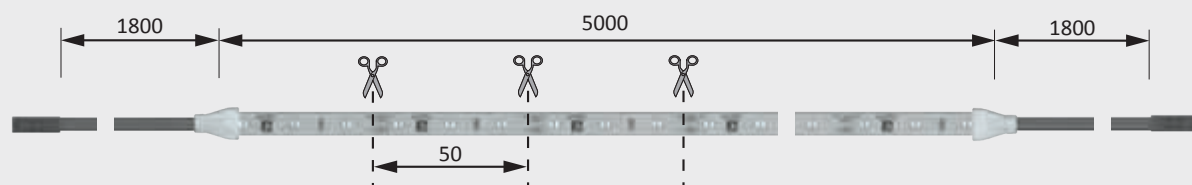


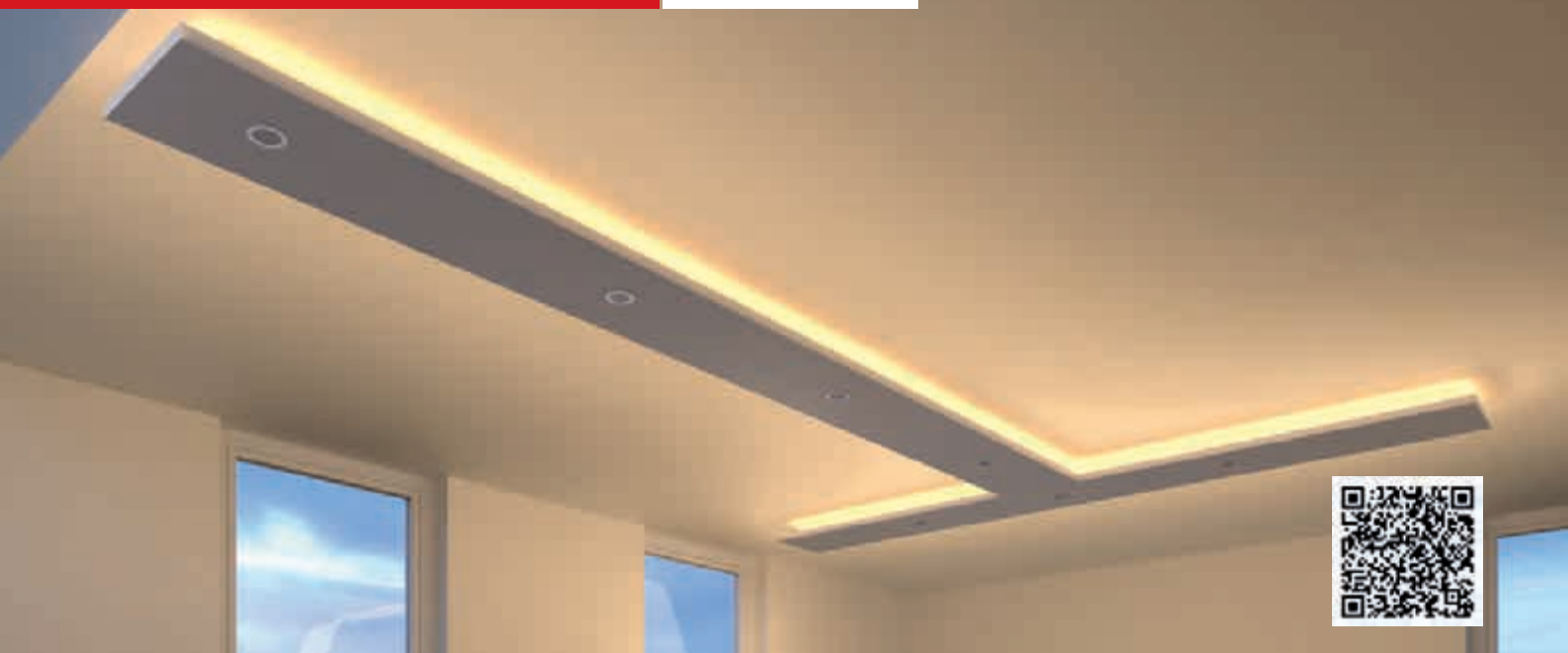
Dimensional drawing / installation

 Light can be cut to size



MultiWhite





Versa Inside 120

Advantages

- Flexible, self-adhesive
- Double-side supply lead for length 3000 / 5000 mm (one cut, two lights), see drawing

Features

- Low installation height
- Can be individually cut to length

Examples of use

- Universal application
- Can be combined with ChannelLine profiles

Ordering information

- To find the right combination of light and ballast, please note pictograms in the light catalogue!
- For possible combinations, see Versa overview
- Sales unit: 1

Technical details in brief



Lamp type:	LED surface-mounted light
Type of lighting:	Functional lighting / accent lighting
Operating voltage:	12 / 24 V DC
Light colour:	warm white / cool white / MultiWhite
Colour rendering index CRI:	> 90
Energy efficiency:	A+ 85 lm / W
Life span:	30,000 h (L70)
Power consumption:	9.6 W / m
Max. length at a stretch:	12 V – 3 m 24 V – 5 m
Dimmable:	Yes
Number of LEDs:	120 / m
Beam angle:	70°
Test marks and symbols:	CE ♦ ▼ ▼
Protection rating:	IP 20
Supply lead:	1800 mm
Plug connection:	LED mini M1 / MP2 plug connector
Connection to:	LED ballast

Versa Inside 120

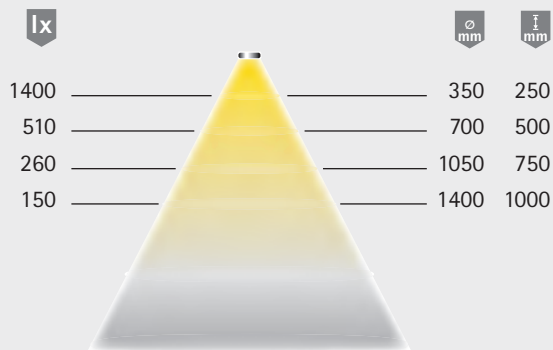
Article	Order no. MultiWhite*	Order no. Warm white	Order no. Cool white
1200 mm 24 V	-	55 809 12	55 809 22
3000 mm 12 V	55 808 34*	55 807 14	55 807 24
5000 mm 24 V	-	55 809 13	55 809 23

Accessories (for more accessories, see chapters "Switch systems" and "Ballasts & leads")

Article	Order no.
Direct connector (12 V, max. 36 W / 24 V, max. 72 W) – set (10 units per set)	36 327 01
90° connector (12 V, max. 36 W / 24 V, max. 72 W) – set (10 units per set)	36 328 01
Flexible connector 100 mm (12 V, max. 36 W / 24 V, max. 72 W) – (10 units per set)	36 329 01
Feeder 1800 mm for sections (12 V DC, max. 36 W)	36 330 02
Feeder 1800 mm for sections (24 V DC, max. 72 W)	36 330 01
LED ballast 12 V DC, 30 W with Australian plug	30 221 01
LED ballast 24 V DC, 75 W with Australian plug	30 222 01
M1 extension lead 1800 mm (12 V DC)	36 768 01
MP2 extension lead 1800 mm (24 V DC)	36 177 01
M1 6-way distributor 200 mm (12 V DC)	36 122 07
MP2 6-way distributor (24 V DC)	36 996 01

* for MultiWhite accessories, see chapter "Switch systems"

Light distribution diagram / 70° (length 600 mm)

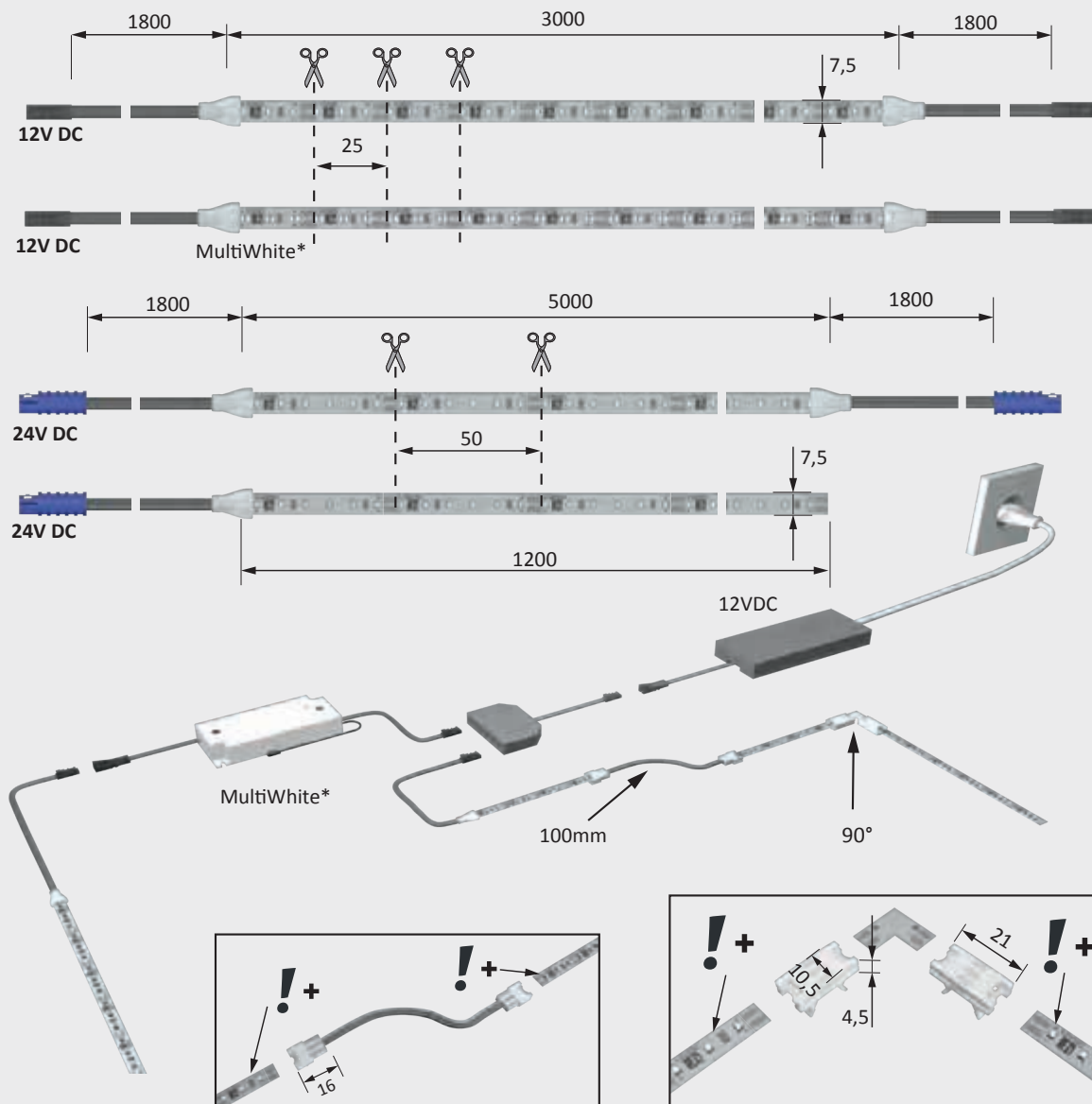


Light box



Dimensional drawing / installation

Light can be cut to size





Versa Inside 120 HP

Advantages

- Flexible, self-adhesive
- Double-side supply lead for length 5000 mm (one cut, two lights), see drawing

Features

- Low installation height
- Can be individually cut to length

Examples of use

- Universal application
- Installation exclusively with aluminium ChannelLine profiles
- To achieve maximum brightness, many profiles can be fitted with 2 parallel strips

Ordering information

- To find the right combination of light and ballast, please note pictograms in the light catalogue!
- For possible combinations, see Versa overview
- Sales unit: 1

Technical details in brief



Lamp type:	LED surface-mounted light
Type of lighting:	Functional lighting / accent lighting
Operating voltage:	24 V DC
Light colour:	warm white / cool white
Colour rendering index CRI:	> 80
Energy efficiency:	A+ 85 lm / W
Life span:	30,000 h (L70)
Power consumption:	14.4 W / m
Max. length at a stretch:	5 m
Dimmable:	Yes
Number of LEDs:	120 / m
Beam angle:	70°
Test marks and symbols:	CE ◇ ▼ ▼
Protection rating:	IP 20
Supply lead:	1800 mm
Plug connection:	LED-MultiPlug MP2
Connection to:	LED ballast

Versa Inside 120 High Power

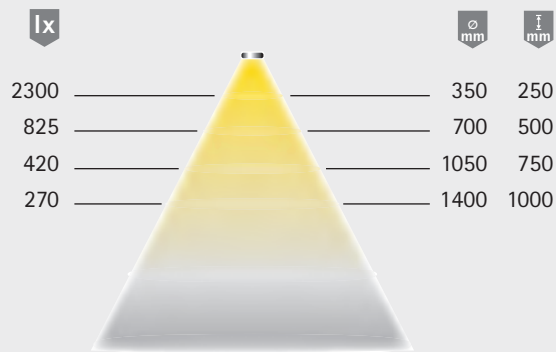
Article	Order no. Warm white	Order no. Cool white
1200 mm (max. 17.3 W)	55 810 12	55 810 22
5000 mm (max. 72 W)	55 810 13	55 810 23

Accessories (for more accessories, see chapters "Switch systems" and "Ballasts & leads")

Article	Order no.
Direct connector (max. 72 W) - set (10 units)	36 327 01
90° connector (max. 72 W) - set (10 units)	36 328 01
Flexible connector 100 mm (max. 72 W) - set (10 units)	36 329 01
Feeder 1800 mm for sections (max. 72 W)	36 330 01
LED ballast 24 V DC, 75 W with Australian plug	30 222 01
MP2 2-way distributor	39 422 51
MP2 6-way distributor	36 996 01

* for MultiWhite accessories, see chapter "Switch systems"

Light distribution diagram / 70° (length 600 mm)

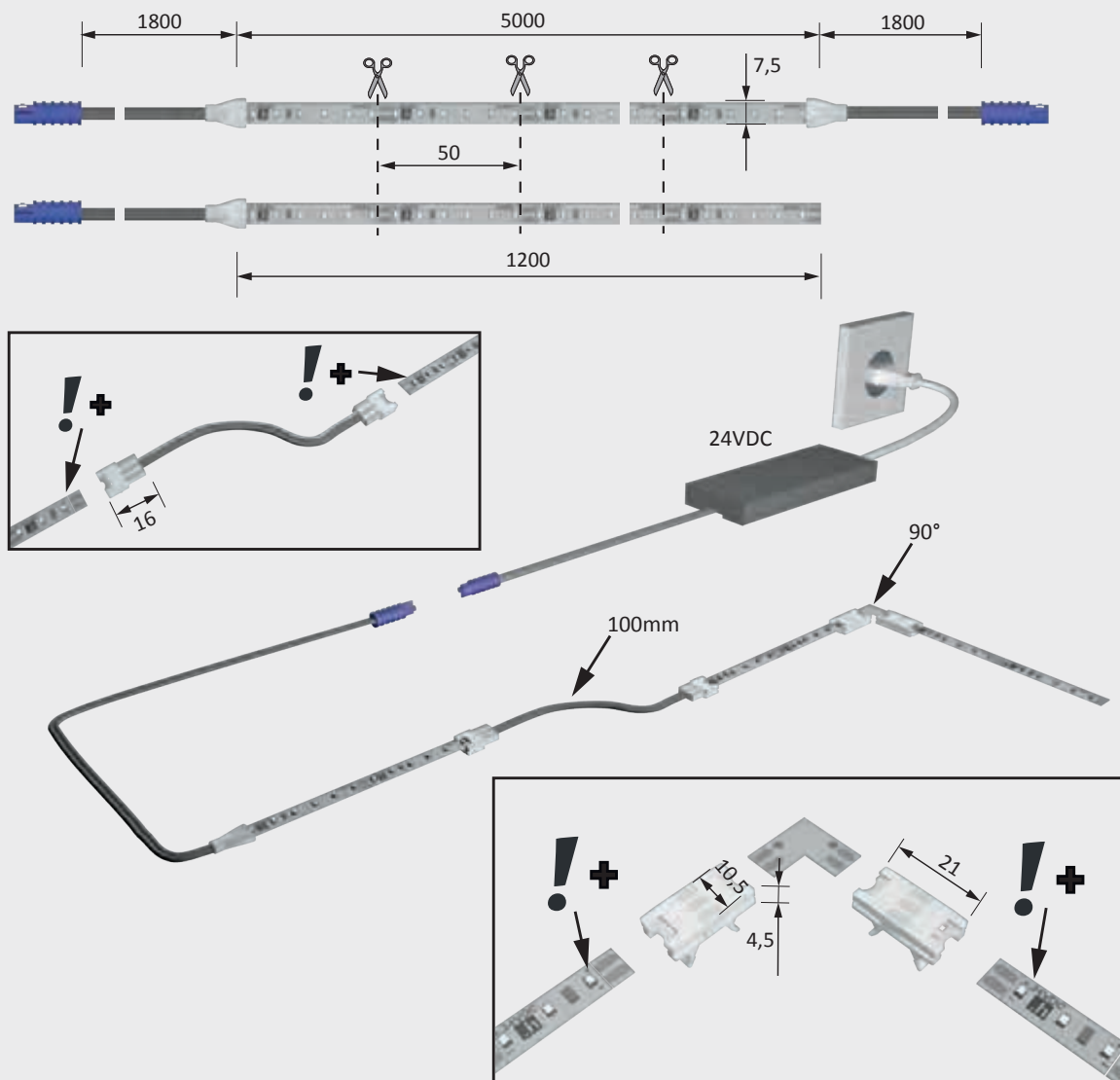


Light box



Dimensional drawing / installation

Light can be cut to size





Versa Super Plus

Advantages

- ▶ Coated surface protects the LED
- ▶ Double-side supply lead (one cut, two lights), see drawing
- ▶ New bending direction (see drawing)

Features

- ▶ Can be individually cut to length
- ▶ Bends sideways in contrast to standard Versa
- ▶ Evenly illuminated area

Examples of use

- ▶ Bar counters
- ▶ Decorative surfaces with rounded corners

Ordering information

- ▶ To find the right combination of light and ballast, please note pictograms in the light catalogue!
- ▶ For possible combinations, see Versa overview
- ▶ Sales unit: 1 Versa, 2 end caps and 1 tube of silicone to seal cut edges

Technical details in brief



Lamp type:	LED surface-mounted light
Type of lighting:	Accent lighting
Operating voltage:	24 V DC
Light colour:	Extra warm white / warm white / neutral white / cool white
Colour rendering index CRI:	> 85
Energy efficiency:	A
Life span:	53 lm / W
Power consumption:	30,000 h (L70)
Max. length at a stretch:	7.5 W / m
Dimmable:	5 m
Beam angle:	Yes
Test marks and symbols:	70°
Protection rating:	CE ⬡ ⚡ ⚡
Supply lead:	IP 65*
Plug connection:	2 x 1800 mm
Connection to:	LED-MultiPlug MP2
	LED ballast

Versa Super Plus

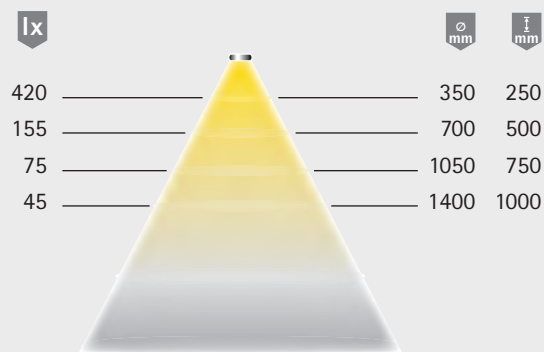
Article	Order no. Warm white	Order no. Cool white
2500 mm (max. 18.8 W)	55 815 11	55 815 21

Accessories (for more accessories, see chapters "Switch systems" and "Ballasts & leads")

Article	Order no.
LED ballast 24 V DC, 75 W with Australian plug	30 222 01
MP2 2-way distributor	39 422 51
MP2 6-way distributor	36 996 01

* only in moulded section of light

Light distribution diagram / 70° (length 600 mm)

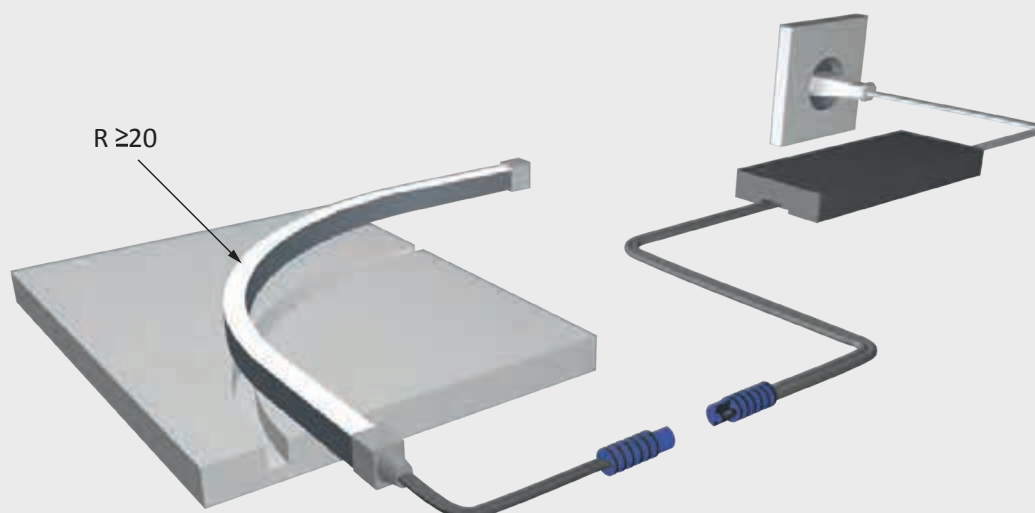
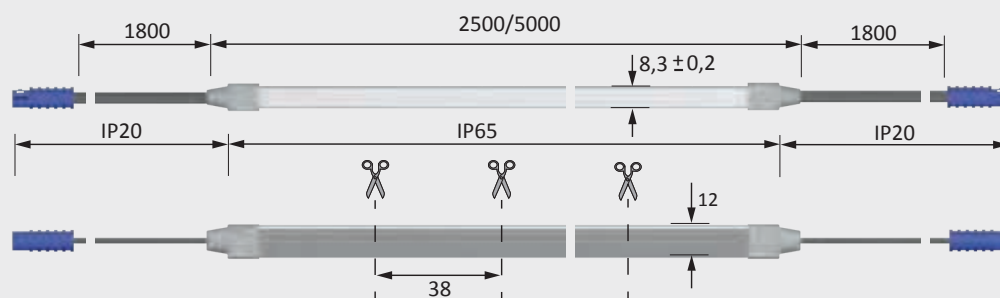


Light box

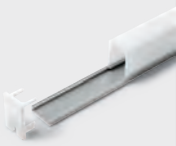
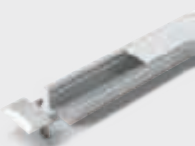















Dimensional drawing / installation

Light can be cut to size


















Recommended combinations of Versa bands in ChannelLine profiles

Model		ChannelLine A	ChannelLine B	ChannelLine C	ChannelLine D
					
Applications		Between timber boards (e.g. kitchen countertops) or shelving units	Recessed light – Can be combined with ChannelLine sensor	Recessed light made to measure – suitable for combination with ChannelLine sensor	Surface-mounted light made to measure – suitable for combination with ChannelLine sensor
Versa 60   	opal	Accent lighting in dark rooms No visible light dots		Accent lighting in dark rooms	
	clear	✗		○	
Versa 90   	opal	Accent lighting with bright ambient light No visible light dots	Accent lighting with bright ambient light	Functional lighting	
	clear	✗		○	
Versa 120   	opal	Accent lighting with bright ambient light No visible light dots	Accent lighting with bright ambient light No visible light dots	Functional lighting with bright ambient light	
	clear	✗		Functional lighting approx. 30 % brighter than with matt-finish profile	
Versa 120 HP  	opal	○	○	Functional lighting with powerful general light	
	clear	✗		Functional lighting approx. 30 % brighter than with matt-finish profile	

✗ Combination not allowed

○ Combination possible, but not recommended

Recommended combinations of Versa bands in ChannelLine profiles

Model		ChannelLine I	ChannelLine G1 / G2
			
Applications		Surface-mounted light made to measure – extra filigree design	Interior lighting for cabinets, niches
Versa 60   	opal	Accent lighting in dark rooms	Functional lighting
	clear		Functional lighting approx. 30 % brighter than with mat-finish profile
Versa 90   	opal	Functional lighting	
	clear		Functional lighting approx. 30 % brighter than with matt-finish profile
Versa 120   	opal	Functional lighting with bright ambient light	✗
	clear	Functional lighting approx. 30 % brighter than with matt-finish profile	✗
Versa 120 HP  	opal	Functional lighting with powerful general light	✗
	clear	Functional lighting approx. 30 % brighter than with matt-finish profile	✗



Channelline A

Advantages

- ▶ Aluminium recessed profiles
- ▶ With opal (translucent) cover

Features

- ▶ Profile for combination with one Versa light
- ▶ Caters for connectors inside profile

Examples of use

- ▶ Furniture edges
- ▶ Edge lighting for kitchen countertops

Ordering information

- ▶ Application image shows Channelline A with Versa Inside 60
- ▶ For possible combinations, see ChannellineFinder pages
- ▶ Sales unit: 1

Technical details in brief



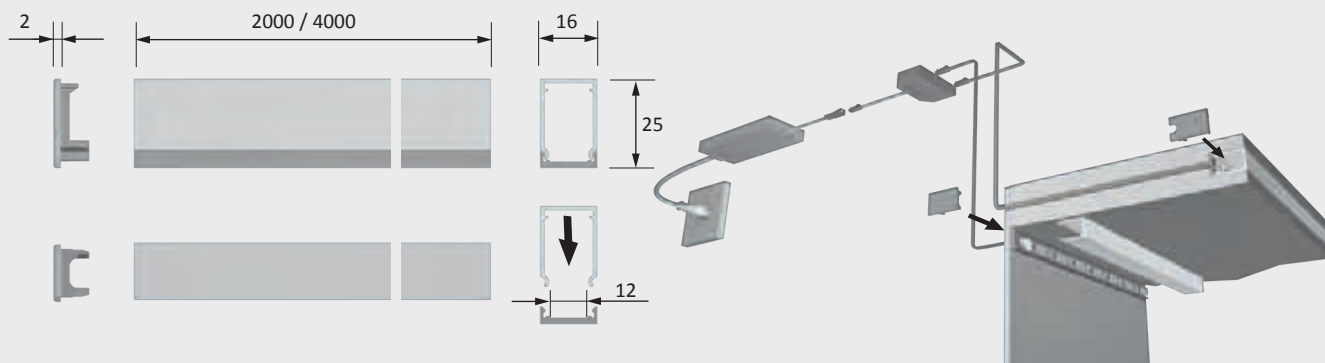
Recommended for:

Versa Inside 60
Versa Inside 90
Versa Inside 120

Channelline A

Article	Order no. Opal cover
Aluminium / plastic profile 4000 mm	38 817 02
End cap (2 units per set)	25 567 01

Dimensional drawing / installation





Channelline G2

Advantages

- ▶ Aluminium recessed profiles
- ▶ With opal cover

Features

- ▶ Profile for combination with Versa lights
- ▶ Suitable for installation of 2 Versa Inside units, one emitting light at an angle and the other straight into the cabinet
- ▶ With surface-mounted collar

Examples of use

- ▶ Cabinet interior lighting
- ▶ Kitchen midway sections

Ordering information

- ▶ Application image shows Channelline G2 with 1 x Versa Inside 120
- ▶ LED ballasts and LED lights must be ordered separately
- ▶ Sales unit: 1

Channelline G2

Article	Order no. Opal cover
Aluminium / plastic profile 3000 mm	55 705 02
End cap (2 units per set , left + right)	25 556 01
Installation spring (2 units per set)	25 607 01

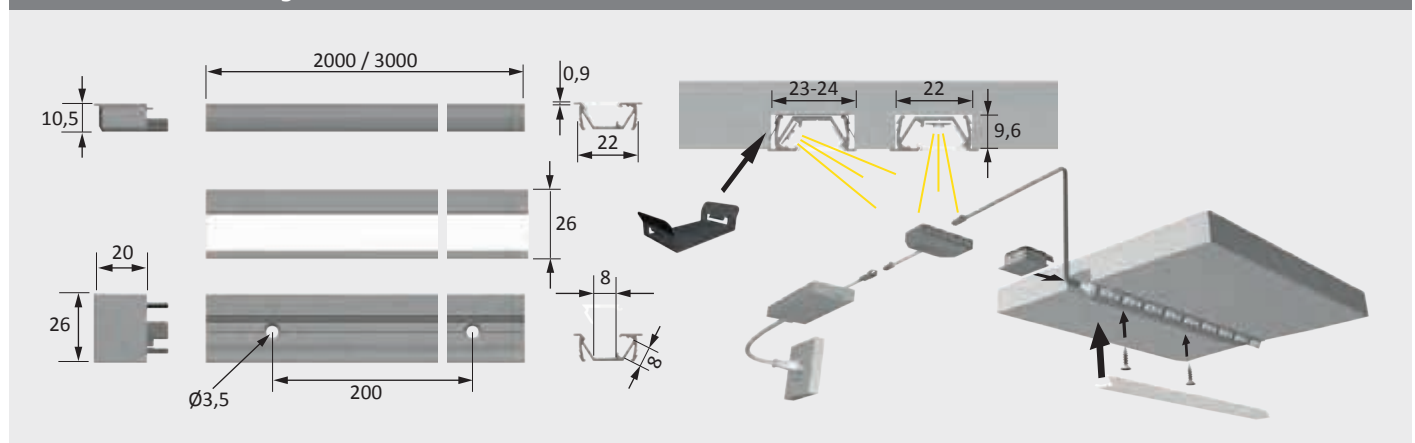
Technical details in brief



Recommended for:

Versa Inside 60
Versa Inside 90
Versa Inside 120 (12 V only)

Dimensional drawing / installation





Channelline B

Advantages

- ▶ Aluminium recessed profiles
- ▶ With opal (translucent) cover

Features

- ▶ Profile for combination with one Versa light
- ▶ Caters for connectors inside profile
- ▶ Can be combined with Channelline sensor

Examples of use

- ▶ Furniture edges

Ordering information

- ▶ Application image shows Channelline B with Versa Inside 60
- ▶ LED ballasts and LED lights must be ordered separately
- ▶ Sales unit: 1

Technical details in brief



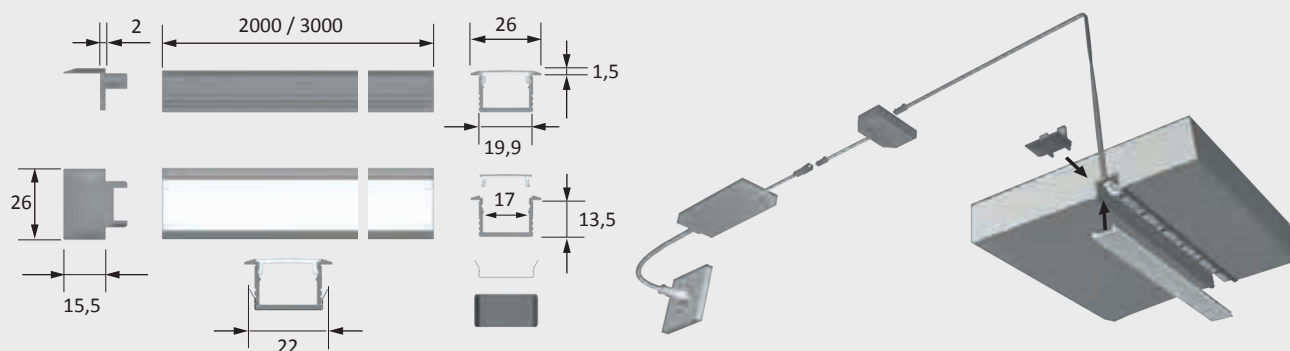
Recommended for:

Versa Inside 60
Versa Inside 90
Versa Inside 120

Channelline B

Article	Order no. Opal cover
Aluminium / plastic profile 3000 mm	55 660 02
End cap (2 units per set)	25 568 01
Installation spring Channelline B / C (2 units per set)	25 536 01

Dimensional drawing / installation





Channelline C

Advantages

- ▶ Aluminium recessed profiles
- ▶ With clear or opal cover

Features

- ▶ To increase the luminance, install 2 Versa Inside lights beside each other
- ▶ Suitable for connectors inside profile (with 1 Versa only)
- ▶ Can be combined with Channelline sensor

Examples of use

- ▶ Furniture edges

Ordering information

- ▶ Application image shows Channelline C with Versa Inside 120
- ▶ LED ballasts and LED lights must be ordered separately
- ▶ Sales unit: 1

Technical details in brief



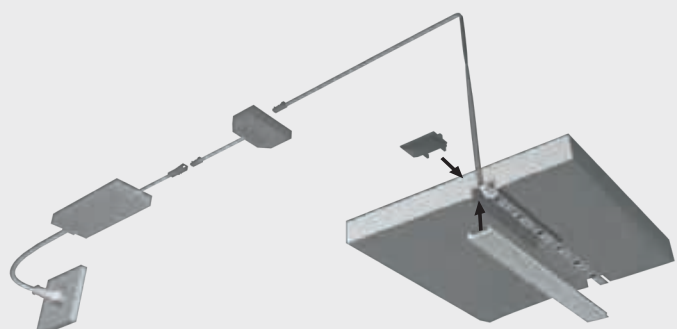
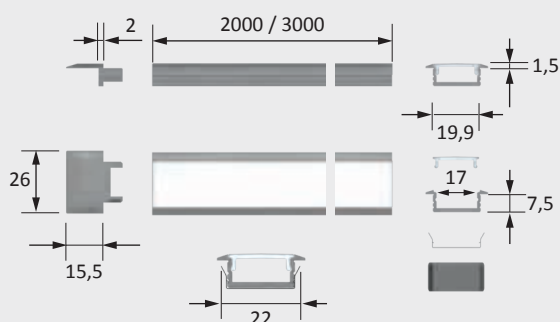
Recommended for:

Versa Inside 60
Versa Inside 90
Versa Inside 120
Versa Inside 120 HP

Channelline C

Article	Order no. Clear cover	Order no. Opal cover
Aluminium / plastic profile 3000 mm	55 661 12	55 661 02
Installation spring Channelline B / C (2 units per set)	25 536 01	25 536 01
End cap (2 units per set)	25 569 01	25 569 01

Dimensional drawing / installation





Channelline D

Advantages

- ▶ Aluminium surface-mounted/recessed profile
- ▶ With clear or opal cover

Features

- ▶ Profile for combination with Versa lights
- ▶ To increase the luminance, install 2 Versa Inside lights beside each other
- ▶ Suitable for connectors inside profile (with 1 Versa only)
- ▶ Can be combined with Channelline sensor

Examples of use

- ▶ Furniture edges

Ordering information

- ▶ Application image shows Channelline D with Versa Inside 90
- ▶ LED ballasts and LED lights must be ordered separately
- ▶ Sales unit: 1

Technical details in brief



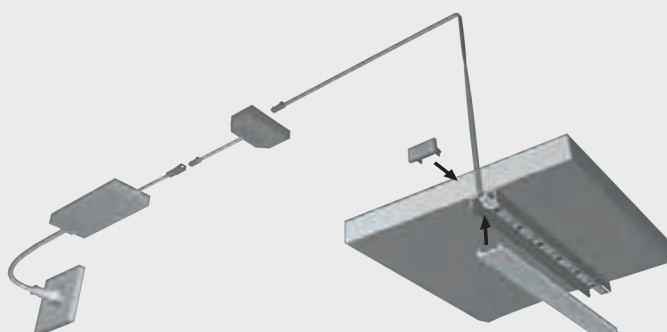
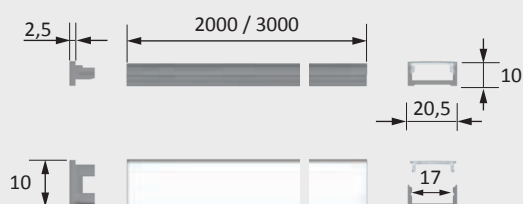
Recommended for:

Versa Inside 60
Versa Inside 90
Versa Inside 120
Versa Inside 120 HP

Channelline D

Article	Order no. Clear cover	Order no. Opal cover
Aluminium / plastic profile 3000 mm	55 662 12	55 662 02
End cap (2 units per set)	25 570 01	25 570 01

Dimensional drawing / installation





Channelline I

Advantages

- ▶ Aluminium surface-mounted/recessed profile
- ▶ With opal cover

Features

- ▶ Profile for combination with one Versa light

Examples of use

- ▶ Furniture edges

Ordering information

- ▶ Application image shows Channelline I with Versa Inside 90
- ▶ LED ballasts and LED lights must be ordered separately
- ▶ Sales unit: 1

Channelline I	
Article	Order no. Opal cover
Aluminium / plastic profile 3000 mm	55 707 02
End cap (2 units per set)	25 563 01

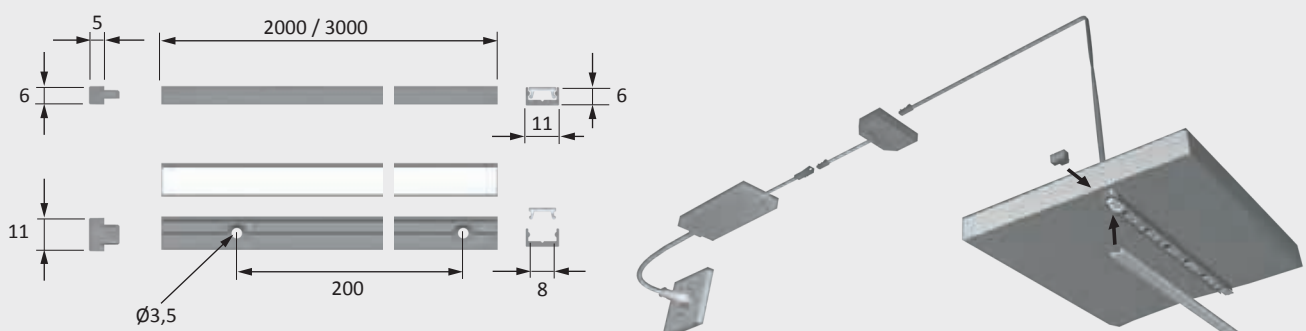
Technical details in brief



Recommended for:

Versa Inside 60
Versa Inside 90
Versa Inside 120

Dimensional drawing / installation





Cable duct

Advantages

- Neat and safe installation of LED leads

Features

- Made of plastic
- Can be individually cut to length

Examples of use

- Cable fixture on furniture

Ordering information

- Sales unit: 1

Technical details in brief

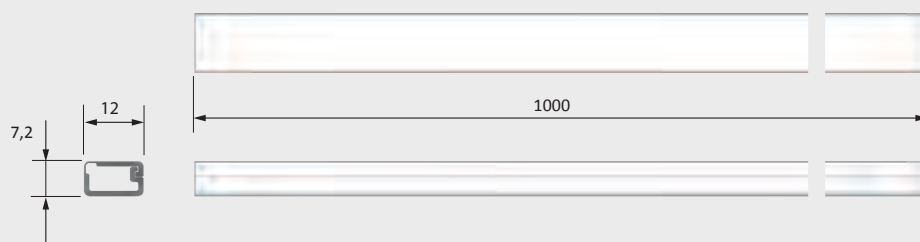


Type:	Cable duct
Surface finish:	white
Length:	1000 mm
Width:	12 mm
Height:	7.2 mm

Cable duct

Article	Order no.
Cable duct, self-adhesive, 1000 mm	36 238 01

Dimensional drawing / installation





ChannelLine sensor

Advantages

- Switches and dims Versa lights at the touch of a button
- With built-in orientation LED

Features

- Concealed installation in ChannelLine profile

Examples of use

- For ChannelLine B, C and D




Ordering information

- LED ballasts and LED lights must be ordered separately
- Sales unit: 1

Technical details in brief



12 V **24 V MP**

Can be used with: LED lights
Operating voltage: 12 / 24 V DC
Max. switching power: 36 W / 72 W
Test marks and symbols:   
Supply lead: 1800 mm
Standby: 0.5 W

ChannelLine sensor

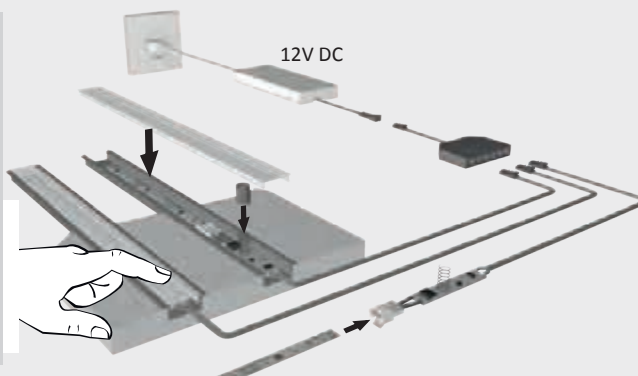
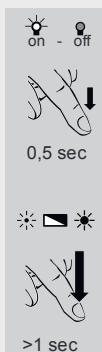
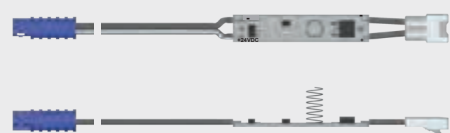
Article	Order no. Opal cover
ChannelLine sensor 12 V DC	36 242 01
ChannelLine sensor 24 V DC	36 243 01

Dimensional drawing / installation

12V DC 36W



24V DC 72W





Wide beam SuperSpot

The Super Spot LEDs brighten up your furniture – to the darkest corner.



EcoPower Flood like halogen

The light from the EcoPower casts a beautiful shadow on the rear wall of your furniture.





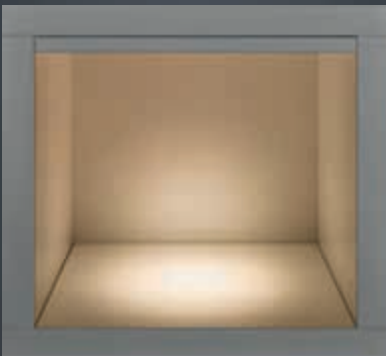
Spotlights

Small yet full of lighting power.

Our spotlights are small in size yet big in performance, providing excellent lighting. Installed in ceilings or furniture, they produce beautiful accent, spot or focused light.

StarPoint

StarPoint provides the perfect stage for your most loved pieces: where light and dark meet.





SuperSpot

Advantages

- ▶ Powerful high-quality furniture and ceiling LED light
- ▶ Top-quality Galvano stainless steel finish

Features

- ▶ Robust metal housing
- ▶ Plug-in connection on housing
- ▶ Reliable heat management for maximum light output

Examples of use

- ▶ For recessing in ceiling
- ▶ Shop fittings
- ▶ Kitchen midway sections

Ordering information

- ▶ To find the right combination of light and ballast, please note pictograms in the light catalogue!
- ▶ Sales unit: 1

Technical details in brief



12 V

Lamp type:	LED recessed light
Type of lighting:	Functional lighting
Surface finish:	Stainless steel look / white
Operating voltage:	12 V DC
Light colour:	Warm white / neutral white
Colour rendering index CRI:	> 80
Energy efficiency:	A
Life span:	66 lm / W
Power consumption:	30,000 h (L70)
Dimmable:	max. 6.8 W
Beam angle:	Yes
Test marks and symbols:	55°
Protection rating:	CE ◇ ▽ ▽
Installed diameter:	IP 20
Supply lead:	78 mm
Plug connection:	3000 mm
Connection to:	LED mini M1 plug connection LED ballast

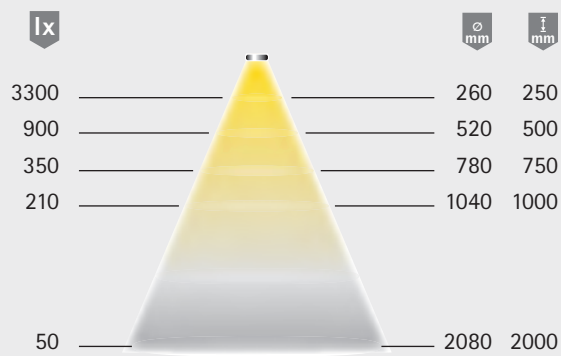
SuperSpot

Article	Order no. Warm white	Order no. Neutral white
Stainless steel look	55 709 19	55 709 09

Accessories (for more accessories, see chapters "Switch systems" and "Ballasts & leads")

Article	Order no.
Anti-glare ring in stainless steel look	36 209 09
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
M1 6-way distributor 2000 mm	36 125 01

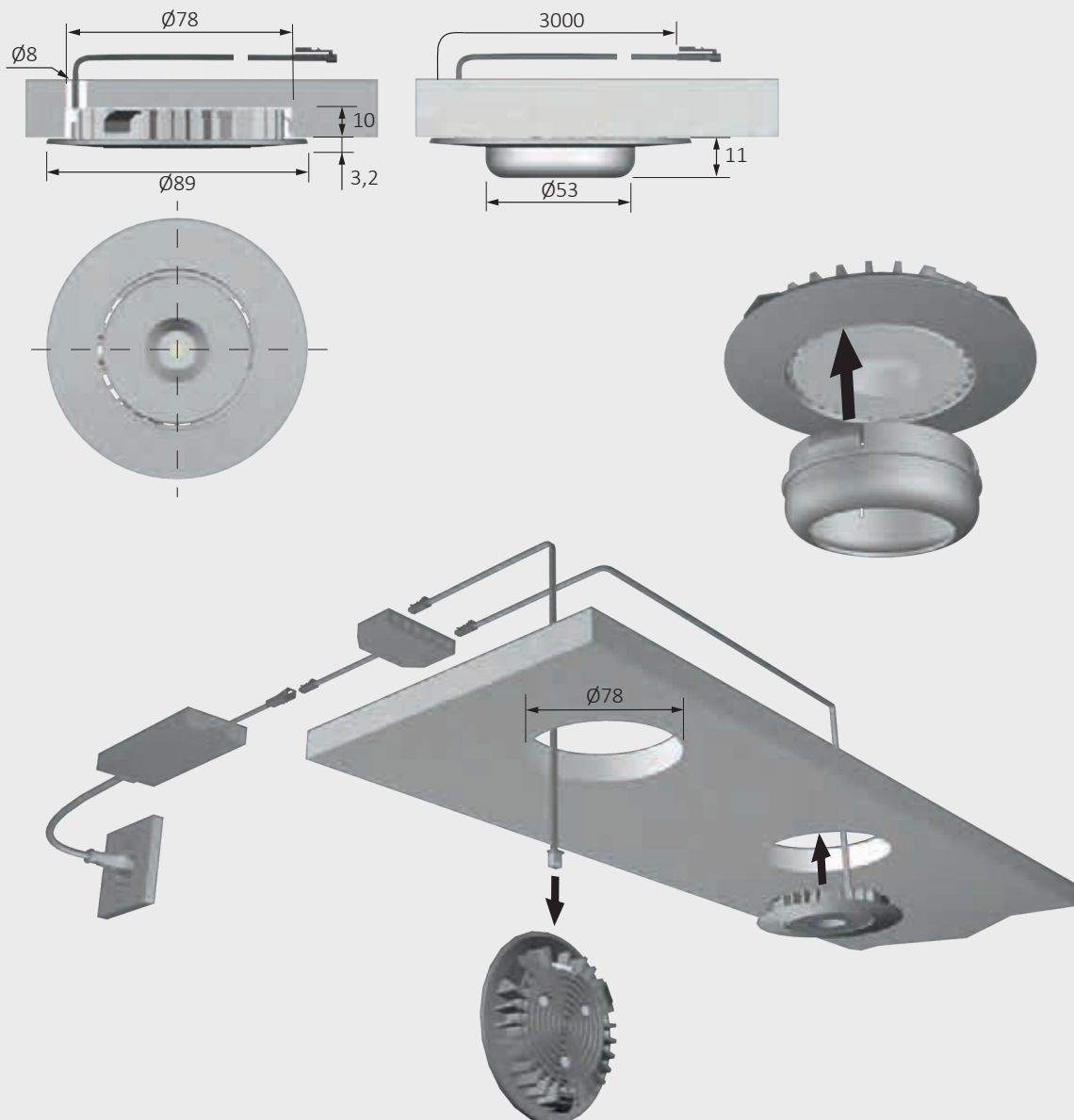
Light distribution diagram / 55°



Light box



Dimensional drawing / installation





MultiLite Flood

Advantages

- ▶ Designer light
- ▶ Evenly illuminated area

Features

- ▶ High light output in relation to size
- ▶ Plug-in connection on housing
- ▶ Recessed light with 58 mm installed diameter

Examples of use

- ▶ Shelves
- ▶ Display cabinets

Ordering information

- ▶ Individual lights are supplied without cover ring
- ▶ To find the right combination of light and ballast, please note pictograms in the light catalogue!
- ▶ Sales unit: 1

Technical details in brief



12 V

Lamp type:	LED recessed light
Type of lighting:	Functional / accent lighting
Surface finish:	Aluminium look / chrome
Operating voltage:	12 V DC
Light colour:	Warm white / neutral white
Colour rendering index CRI:	85
Energy efficiency:	A
	50 lm/W
Life span:	30,000 h (L70)
Power consumption:	4 W
Dimmable:	Yes
Beam angle:	60°
Test marks and symbols:	CE ⬢ ▽ ▽
Protection rating:	IP 44
Installed diameter:	58 mm
Supply lead:	2000 mm
Plug connection:	LED mini M1 plug connection
Connection to:	LED ballast

MultiLite Flood

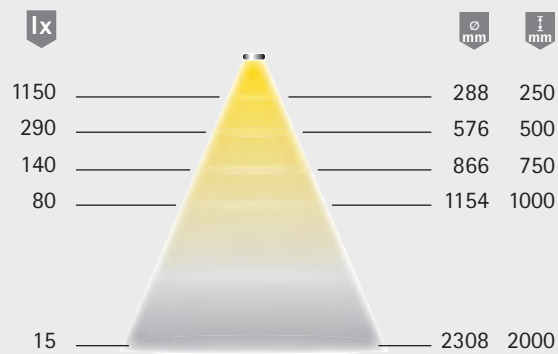
Article	Order no. MultiWhite*	Order no. Warm white	Order no. Neutral white
Individual light	32 066 31*	32 150 11	32 150 01

Accessories (for more accessories, see chapters "Switch systems" and "Ballasts & leads")

Article	Order no.
Cover ring – aluminium look	25 175 26
Cover ring – chrome, matt	25 175 16
Cover ring – stainless steel look	25 175 09
LED ballast 15 W with Australian 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

* for MultiWhite accessories, see chapter "Switch systems"

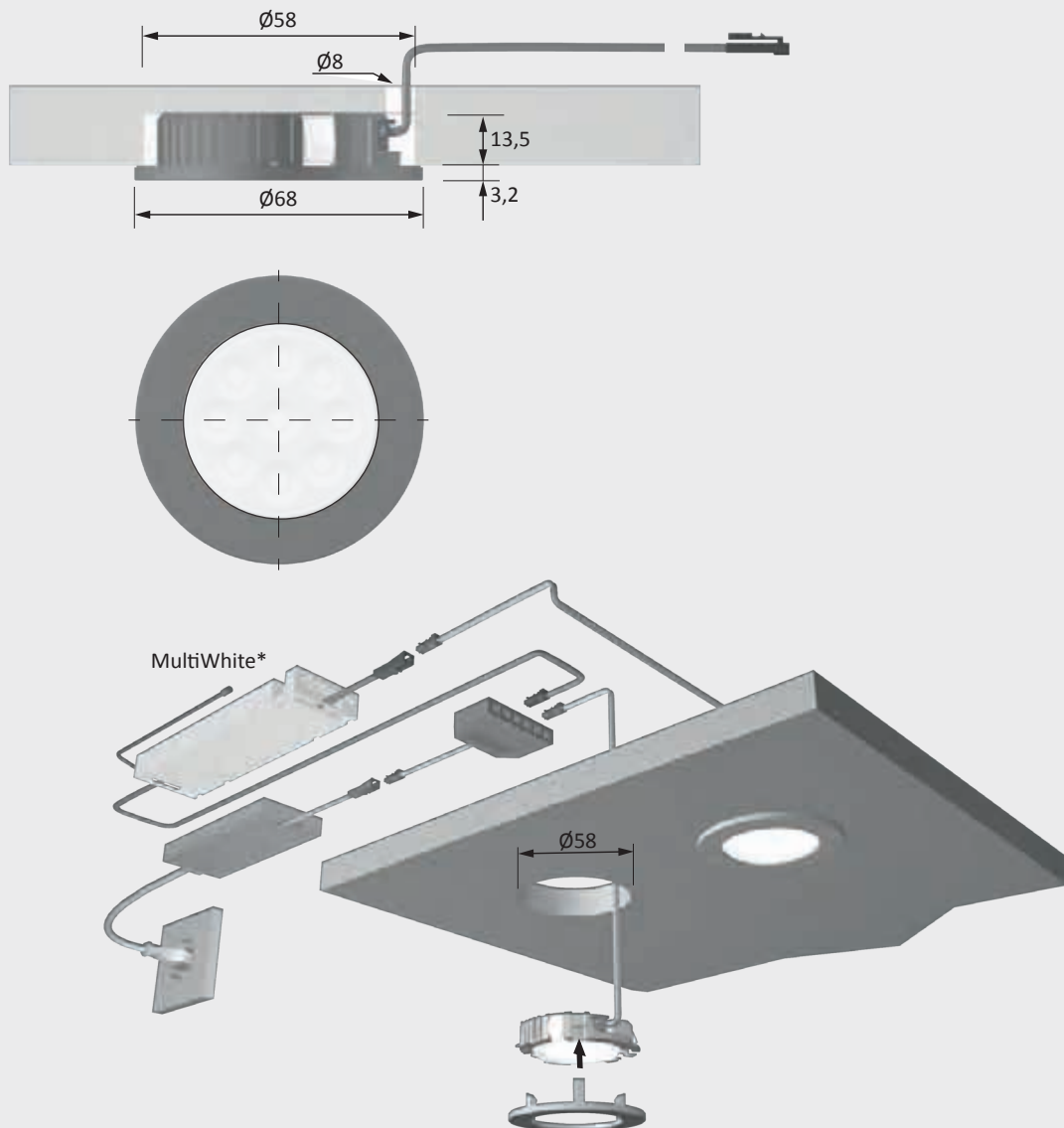
Light distribution diagram / 60°



Light box



Dimensional drawing / installation





Sign Plus

Advantages

- ▶ Classic model
- ▶ Lamp in retro design

Features

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

Examples of use

- ▶ Flat shelves

Ordering information

- ▶ To find the right combination of light and ballast, please note pictograms in the light catalogue!
- ▶ Sales unit: 1

Technical details in brief



Lamp type: LED recessed light
Type of lighting: Functional / accent lighting
Surface finish: Aluminium look
Operating voltage: 12 V DC
Light colour: Warm white / neutral white

Colour rendering index CRI: > 85
Energy efficiency: A+

Life span: 30,000 h (L70)
Power consumption: 2.3 W
Dimmable: Yes
Beam angle: 45°

Test marks and symbols:    
Protection rating: IP 44
Installed diameter: 68 mm
Supply lead: 1800 mm
Plug connection: LED mini
M1 plug connection
Connection to: LED ballast

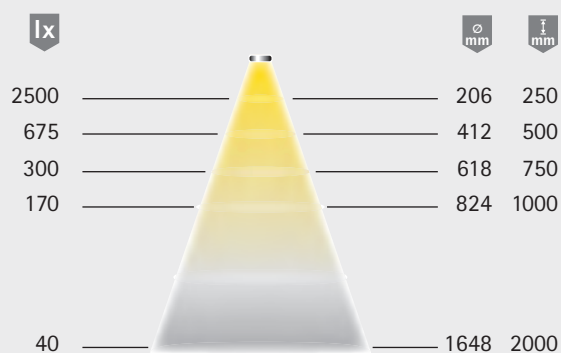
Sign Plus

Article	Order no. Warm white	Order no. Neutral white	Order no. Cool white
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

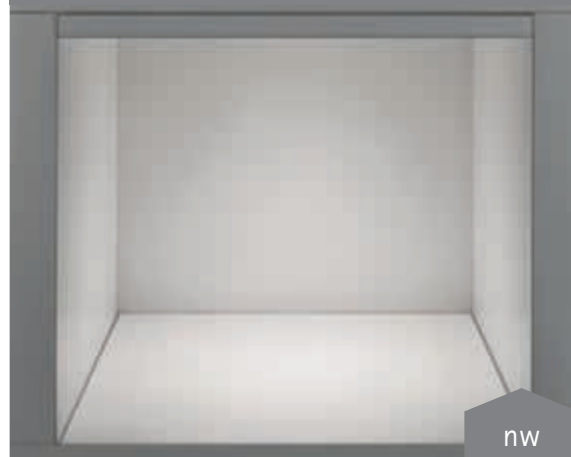
Accessories (for more accessories, see chapters "Switch systems" and "Ballasts & leads")

Article	Order no.
Surface-mounted housing	36 151 06
LED ballast 15 W with Australian 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

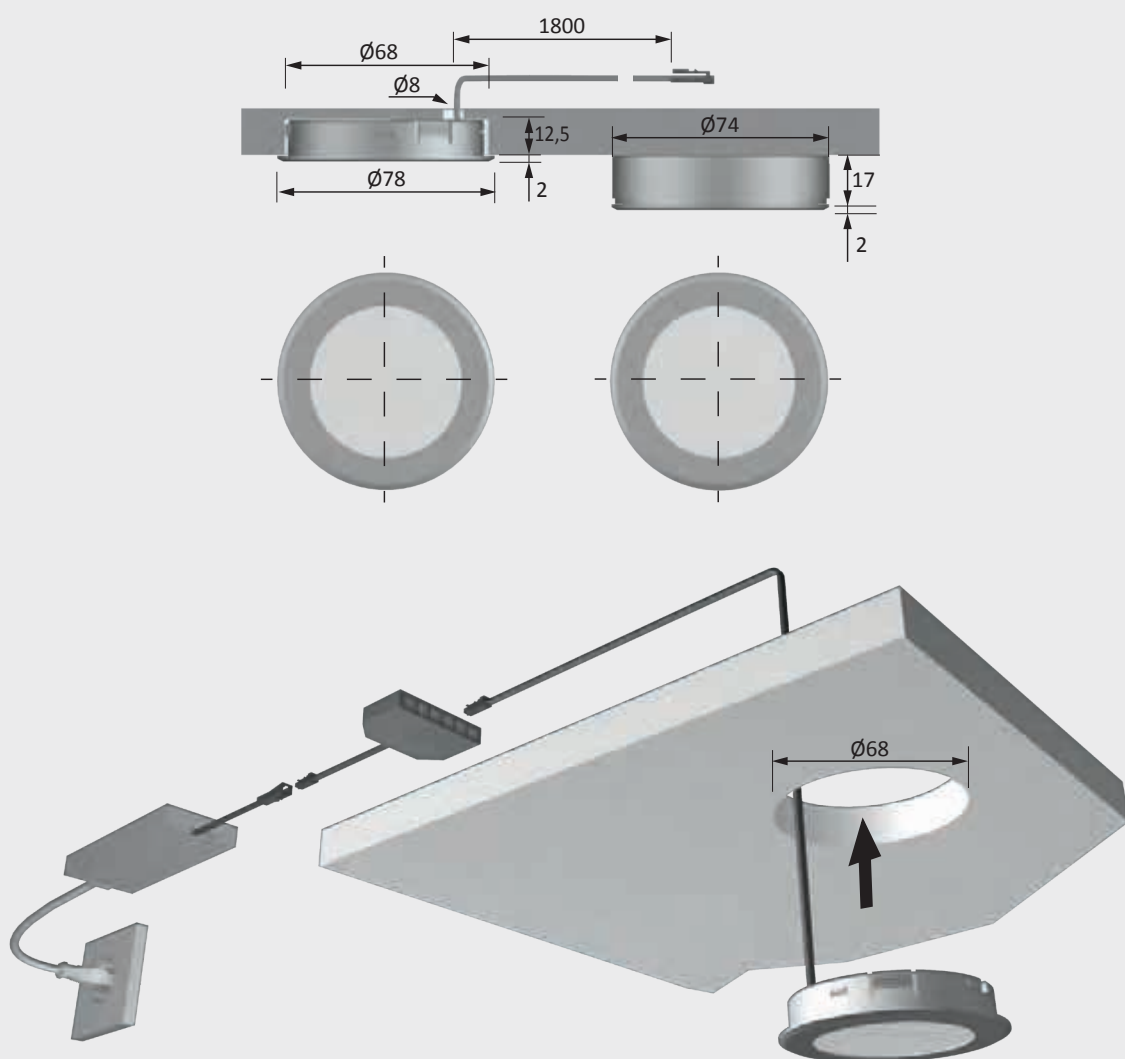
Light distribution diagram / 45°



Light box



Dimensional drawing / installation





EcoPower L

Advantages

- ▶ Entry-level recessed spotlight
- ▶ Compact light

Features

- ▶ Recessed light with 68 mm installed diameter

Examples of use

- ▶ Shelves
- ▶ Display cabinets
- ▶ Niches

Ordering information

- ▶ To find the right combination of light and ballast, please note pictograms in the light catalogue!
- ▶ Sales unit: 1

Technical details in brief



Lamp type:
Type of lighting:

Surface finish:

Operating voltage:

Light colour:

Colour rendering
index CRI:

Energy efficiency:

Life span:

Power consumption:

Dimmable:

Beam angle:

Test marks and
symbols:

Protection rating:

Installed diameter:

Supply lead:

Plug connection:

Connection to:

LED recessed light
Functional /
accent lighting
Aluminium look /
stainless steel look
12 V DC
Warm white /
neutral white /
MultiWhite

> 80

A+

72 lm/W

30,000 h (L70)

3.2 W

Yes

60°

CE ⬮ ⬮ ⬮

IP 44

68 mm

1800 mm

LED mini

M1 plug connection

LED ballast

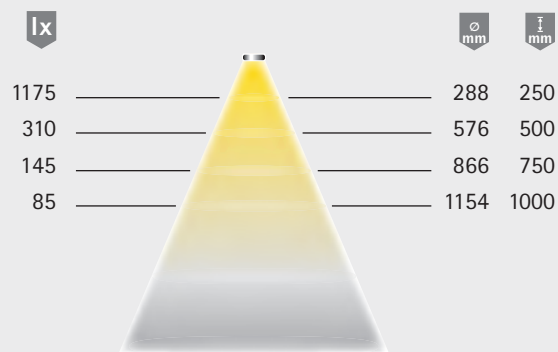
EcoPower L

Article	Order no. MultiWhite*	Order no. Warm white	Order no. Neutral white	Order no. Cool white
Aluminium look	32 144 36	32 144 16	32 144 06	32 144 26

Accessories (for more accessories, see chapters "Switch systems" and "Ballasts & leads")

Article	Order no.
Surface-mounted housing in aluminium look	36 236 06
LED ballast 15 W with Australian 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

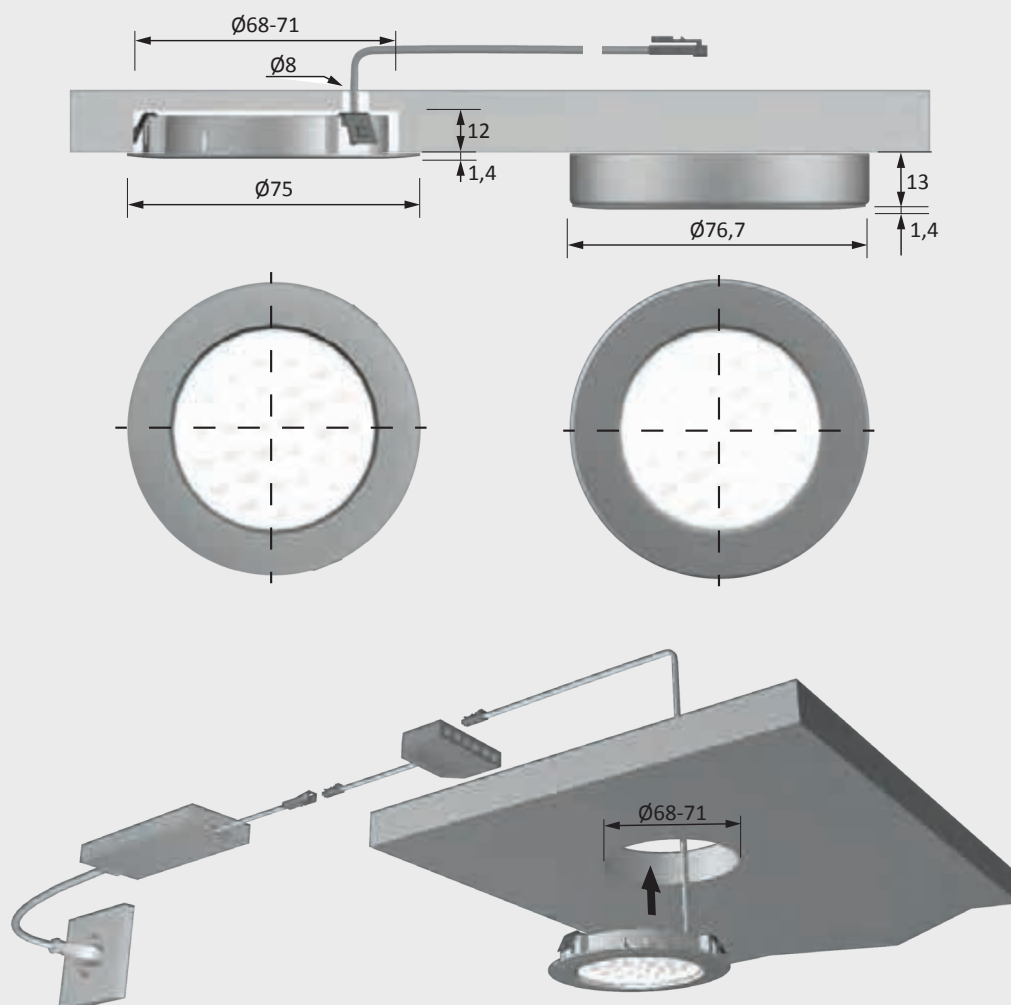
Light distribution diagram / 60°



Light box



Dimensional drawing / installation





EcoPower Flood

Advantages

- ▶ Entry-level recessed spotlight
- ▶ Compact light
- ▶ Evenly illuminated area

Features

- ▶ Recessed light with 58 mm installed diameter

Examples of use

- ▶ Shelves
- ▶ Display cabinets

Ordering information

- ▶ To find the right combination of light and ballast, please note pictograms in the light catalogue!
- ▶ Sales unit: 1

Technical details in brief



12 V

Lamp type:	LED recessed light
Type of lighting:	Functional / accent lighting
Surface finish:	Aluminium look / stainless steel look
Operating voltage:	12 V DC
Light colour:	Warm white / neutral white
Colour rendering index CRI:	> 80
Energy efficiency:	A++ 88 lm/W
Life span:	30,000 h (L70)
Power consumption:	1.7 W
Dimmable:	Yes
Beam angle:	60°
Test marks and symbols:	CE ⬢ ▽ ▽
Protection rating:	IP 44
Installed diameter:	58 – 61 mm
Supply lead:	2000 mm
Plug connection:	LED mini M1 plug connection
Connection to:	LED ballast

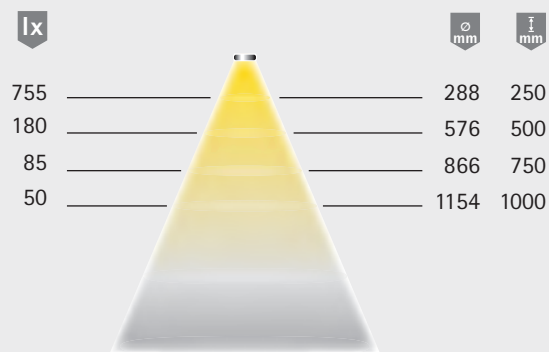
EcoPower Flood

Article	Order no. Warm white	Order no. Neutral white	Order no. Cool white
Aluminium look	32 341 16	32 341 06	32 341 26

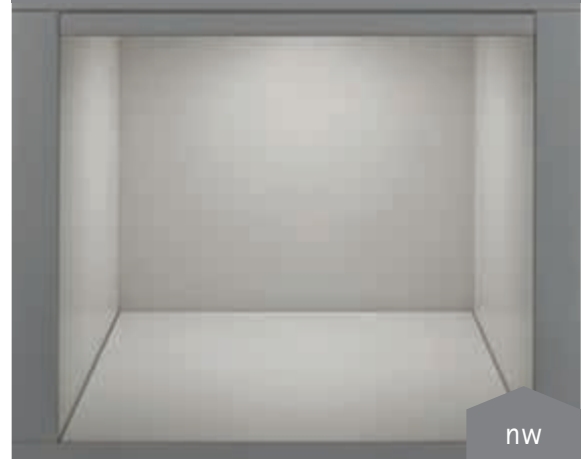
Accessories (for more accessories, see chapters "Switch systems" and "Ballasts & leads")

Article	Order no.
Surface-mounted housing in aluminium look	36 240 06
LED ballast 15 W with Australian 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

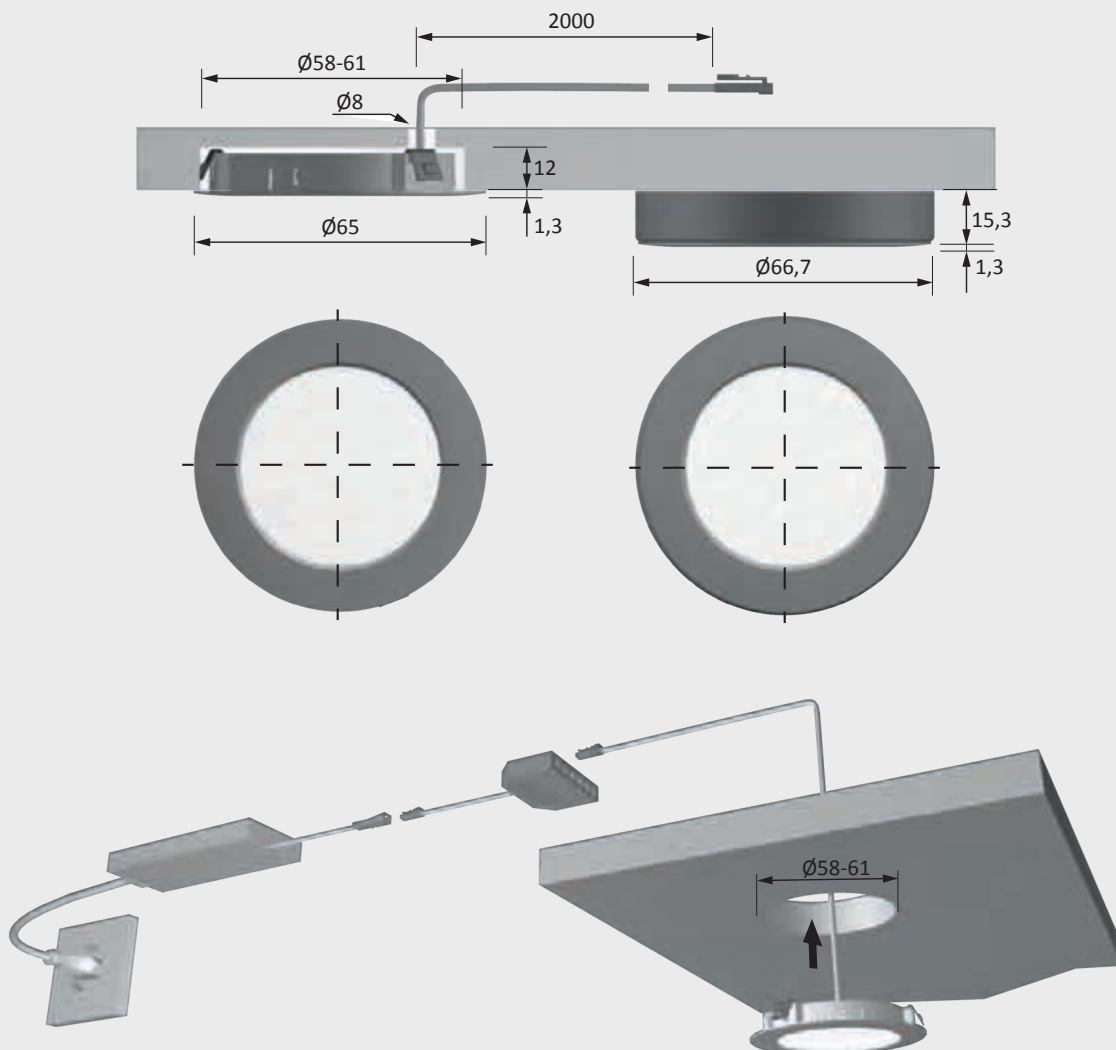
Light distribution diagram / 60°



Light box



Dimensional drawing / installation





Eco Spot

Advantages

- ▶ Entry-level recessed spotlight
- ▶ Compact light
- ▶ Evenly illuminated area

Features

- ▶ Recessed light with 58 mm installed diameter

Examples of use

- ▶ Shelves
- ▶ Display cabinets

Ordering information

- ▶ To find the right combination of light and ballast, please note pictograms in the light catalogue!
- ▶ Sales unit: 1

Technical details in brief



12 V

Lamp type:	LED recessed light
Type of lighting:	Functional / accent lighting
Surface finish:	Aluminium look / Stainless steel look
Operating voltage:	12 V DC
Light colour:	Warm white / neutral white
Colour rendering index CRI:	> 80
Energy efficiency:	A++ 87 lm/W
Life span:	30,000 h (L70)
Power consumption:	1.5 W
Dimmable:	Yes
Beam angle:	60°
Test marks and symbols:	CE ⚡ ⚠
Protection rating:	IP 20
Installed diameter:	58 mm
Supply lead:	1800 mm
Plug connection:	LED mini M1 plug connection
Connection to:	LED ballast

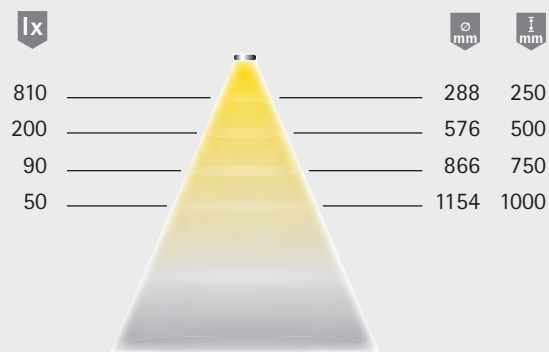
Eco Spot

Article	Order no. Warm white	Order no. Neutral white	Order no. cool white
Aluminium look	32 153 16	32 153 06	32 153 26

Accessories (for more accessories, see chapters "Switch systems" and "Ballasts & leads")

Article	Order no.
Surface-mounted housing in aluminium look	36 244 06
LED ballast 15 W with Australian 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

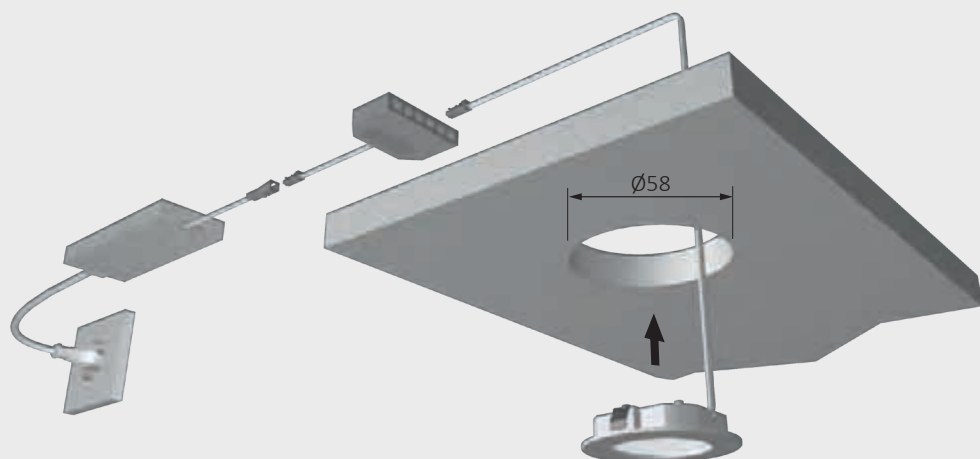
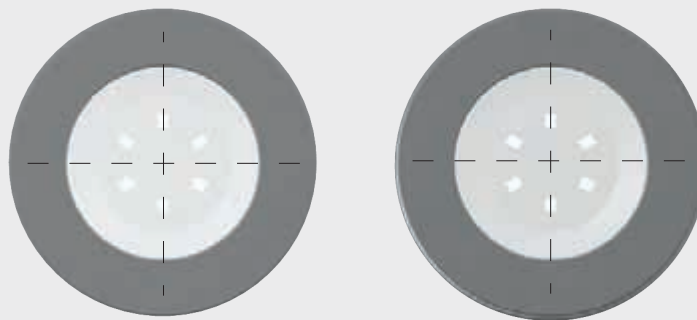
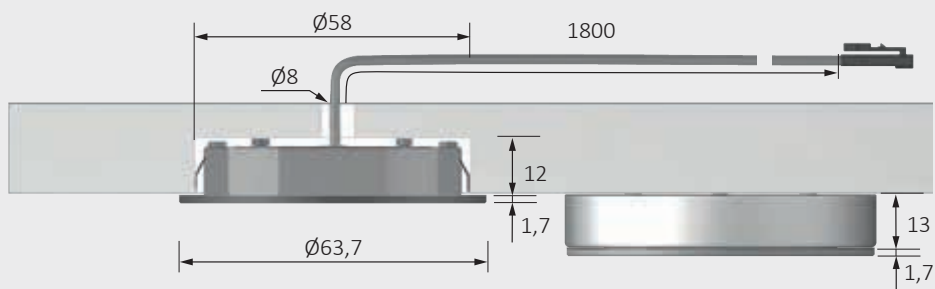
Light distribution diagram / 60°



Light box



Dimensional drawing / installation





StarPoint

Advantages

- ▶ Powerful LED spotlight
- ▶ Accentuation by small beam angle
- ▶ Versatile

Features

- ▶ Recessed light for 29-32 mm

Examples of use

- ▶ Shelves
- ▶ Display cabinets
- ▶ Furniture halo lighting

Ordering information

- ▶ To find the right combination of light and ballast, please note pictograms in the light catalogue!
- ▶ Sales unit: 1

Technical details in brief



12 V

Lamp type:	LED recessed light
Type of lighting:	Functional / accent lighting
Surface finish:	Chrome
Operating voltage:	12 V DC
Light colour:	Warm white / neutral white
Colour rendering index CRI:	> 80
Energy efficiency:	A++ 78 lm/W
Life span:	30,000 h (L70)
Power consumption:	1.2 W
Dimmable:	Yes
Beam angle:	50°
Test marks and symbols:	CE ⬢ ▽ ▽
Protection rating:	IP 20
Installed diameter:	29-32 mm
Supply lead:	1800 mm
Plug connection:	LED mini M1 plug connection
Connection to:	LED ballast

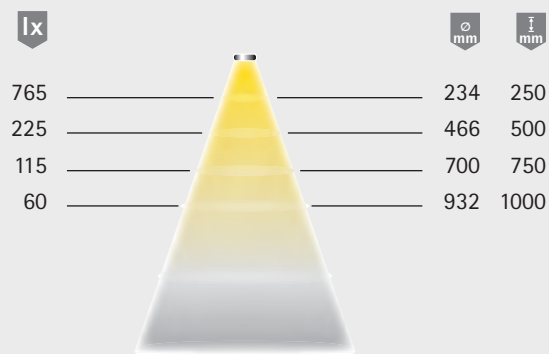
StarPoint

Article	Order no. Warm white	Order no. Neutral white
Chrome	32 146 13	32 146 03

Accessories (for more accessories, see chapters "Switch systems" and "Ballasts & leads")

Article	Order no.
LED ballast 15 W with Australian 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

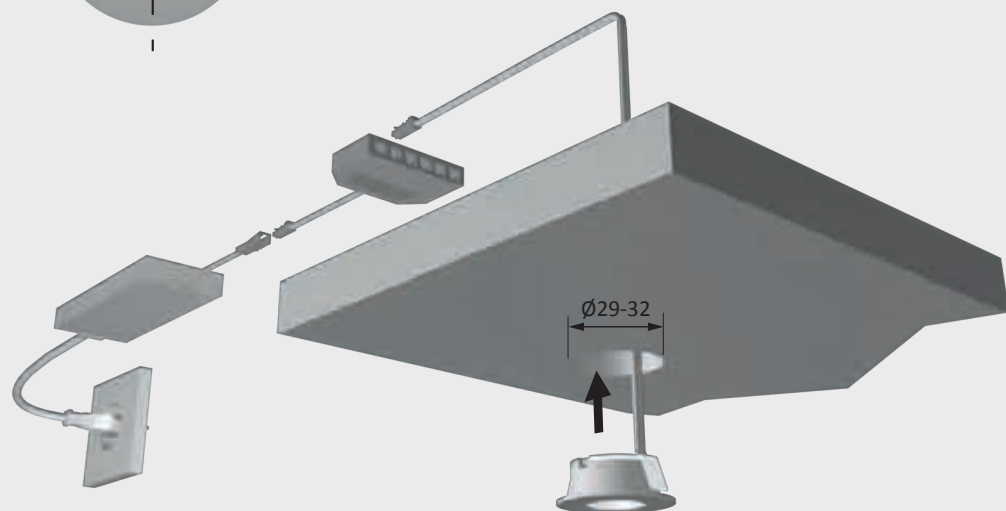
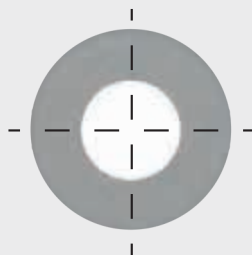
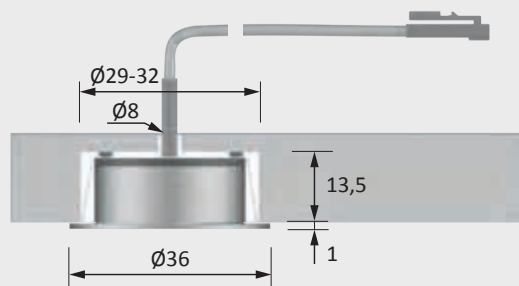
Light distribution diagram / 50°



Light box



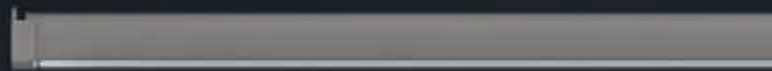
Dimensional drawing / installation





LuckyLite Pro Great flexibility

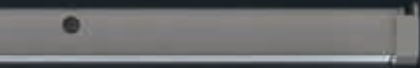
The LuckyLite Pro light with battery can be installed anywhere without the need for wiring.



LitePipe Great effects

The perfect wardrobe tube.





Special lights

Lighting solutions for special applications.

Light that creates backlit effects, responds to movement or shines in two directions – these and many more options are available with our wide range of special lights.



LuckyLite Pro

Advantages

- ▶ Operated by battery, rechargeable via micro USB
- ▶ No need for cables

Features

- ▶ Tool-free installation
- ▶ Can be retrofitted into furniture
- ▶ Integrated motion sensor

Examples of use

- ▶ Shelves
- ▶ Furniture compartments
- ▶ Behind furniture doors

Ordering information

- ▶ Including 0.8m USB charger cable
- ▶ USB chargers must be ordered separately
- ▶ Sales unit: 1

Technical details in brief



Lamp type:	LED surface-mounted light
Type of lighting:	Accent lighting
Surface finish:	Aluminium look
Light colour:	Neutral white
Colour rendering index CRI:	80
Life span:	20,000 h (L70)
Dimmable:	No
Beam angle:	20°
Test marks and symbols:	CE   
Protection rating:	IP 20
Charger connection:	Micro USB
Motion sensor:	
Sensing angle:	120°
Sensing range:	2 m
Stay-'ON' time:	10 seconds

LuckyLite Pro

Article

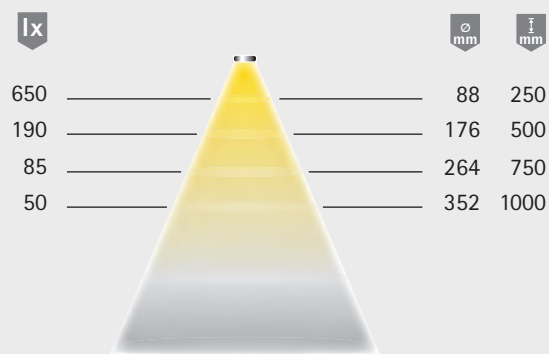
Aluminium look

Order no.

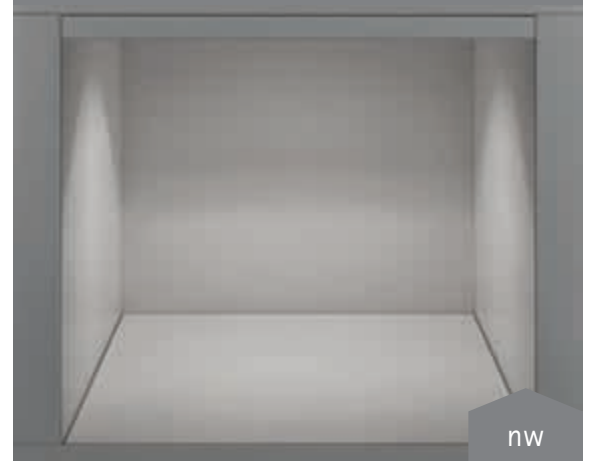
Neutral white

38 258 26

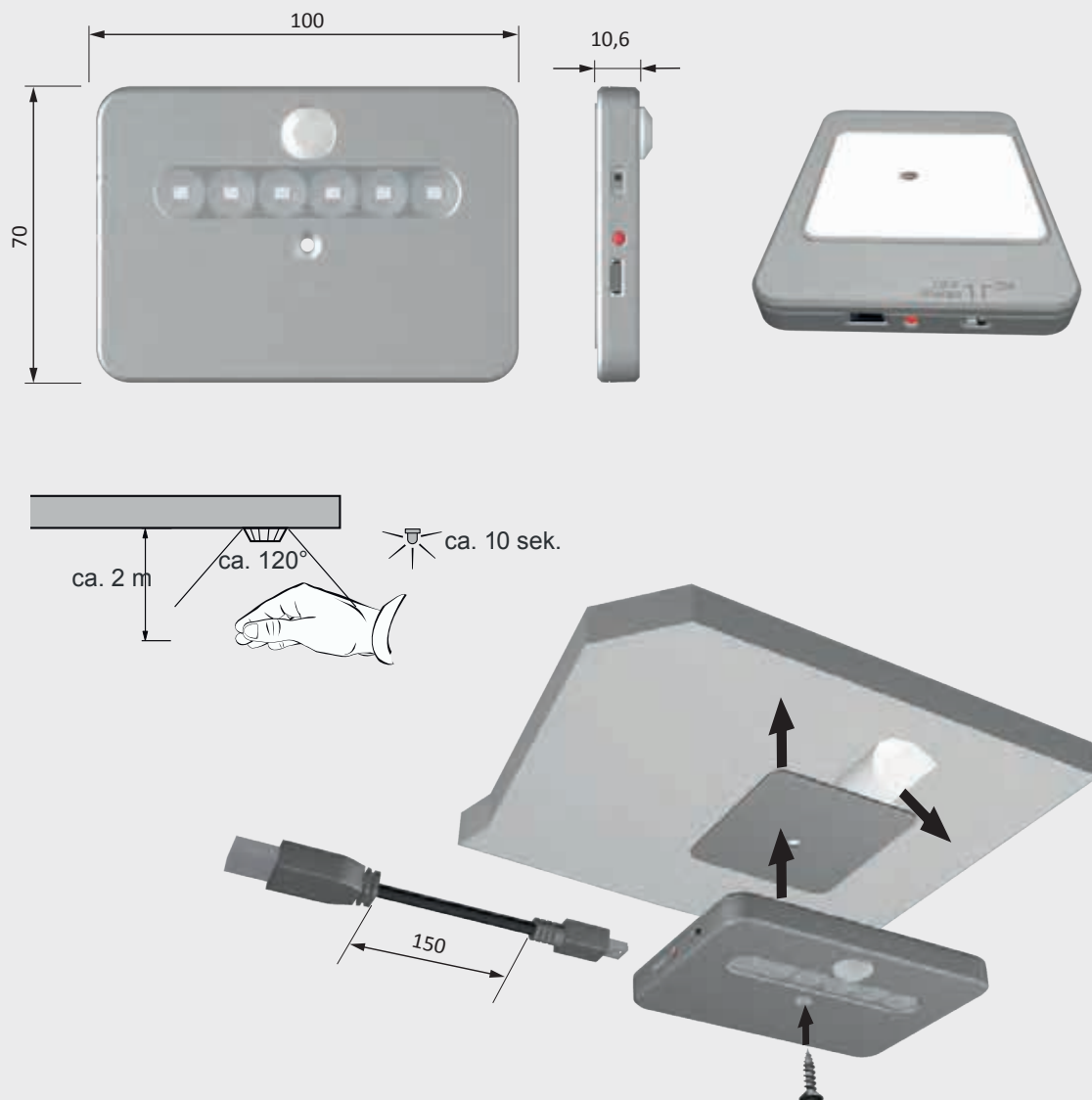
Light distribution diagram / 20°

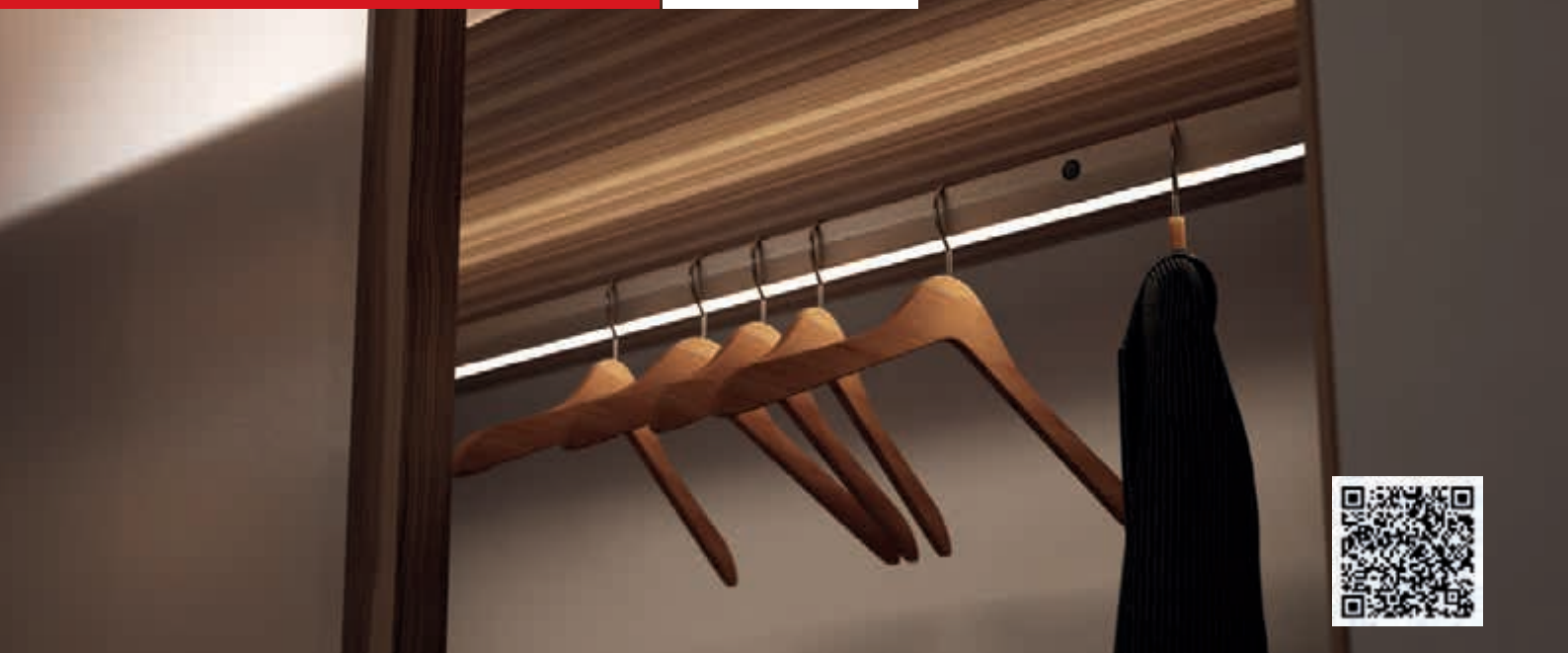


Light box



Dimensional drawing / installation





LitePipe

Advantages

- ▶ Activated by motion sensor
- ▶ Can be individually cut to length

Features

- ▶ Load capacity up to 40 kg / m
- ▶ Can be retrofitted into furniture

Examples of use

- ▶ Wardrobes
- ▶ Cloakrooms

Ordering information

- ▶ To find the right combination of light and ballast, please note pictograms in the light catalogue!
- ▶ Sales unit: 1

Technical details in brief



Lamp type:

Wardrobe
rail LED light

Type of lighting:

Functional lighting

Surface finish:

Aluminium

Operating voltage:

12 V DC

Light colour:

Neutral white

Colour rendering
index CRI:

85

Energy efficiency:

A

45 lm / W

Life span:

30,000 h (L70)

Power consumption:

max. 5.5 W

Dimmable:

No

Beam angle:

60°

Test marks and
symbols:

CE ◇ ▼ ▽

Protection rating:

IP 20

Supply lead:

2000 mm

Plug connection:

LED mini

M1 plug connection

LED ballast

Connection to:

Motion sensor:

Detection angle:

60°

Reach:

2 m

Stay-'ON' time:

40 seconds

LitePipe

Article

Order no.

Neutral white

1000 mm - max 5.0 W

55 152 08

1200 mm - max 5.5 W

55 146 08

Accessories (for more accessories, see chapters "Switch systems" and "Ballasts & leads")

Article

Order no.

LED ballast 15 W with Australian plug

31 026 01

M1 extension lead 1800 mm

36 768 01

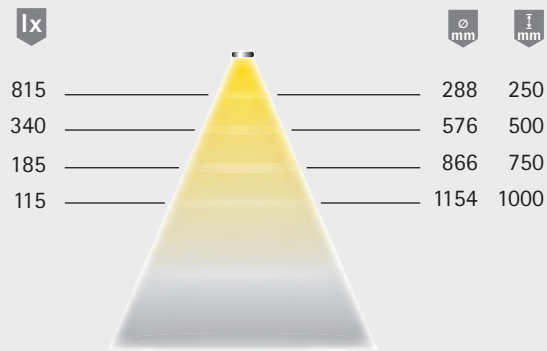
M1 3-way distributor 180 mm

36 852 01

M1 6-way distributor 2000 mm

36 125 01

Light distribution diagram / 60°



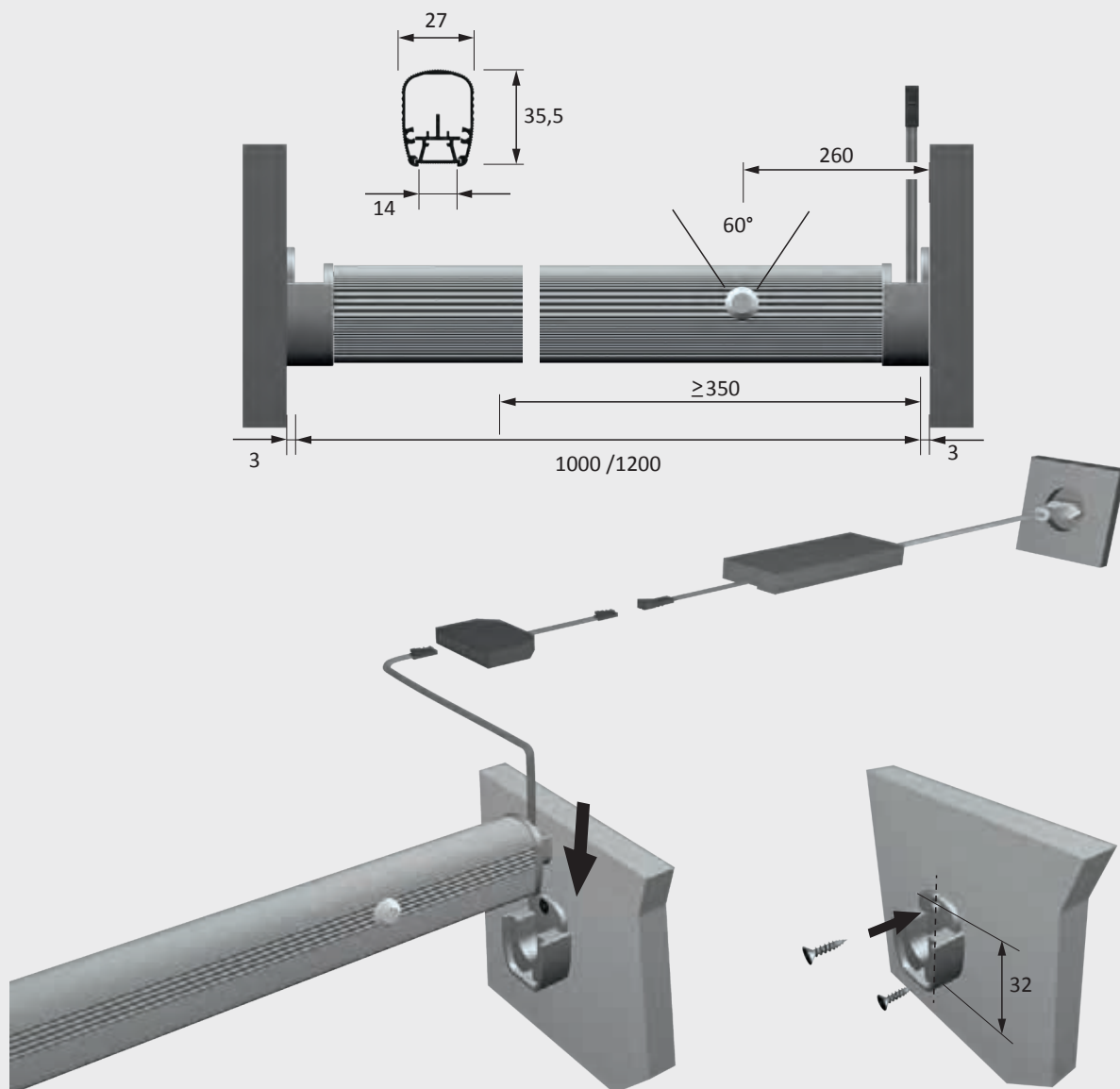
Dimensional drawing / installation

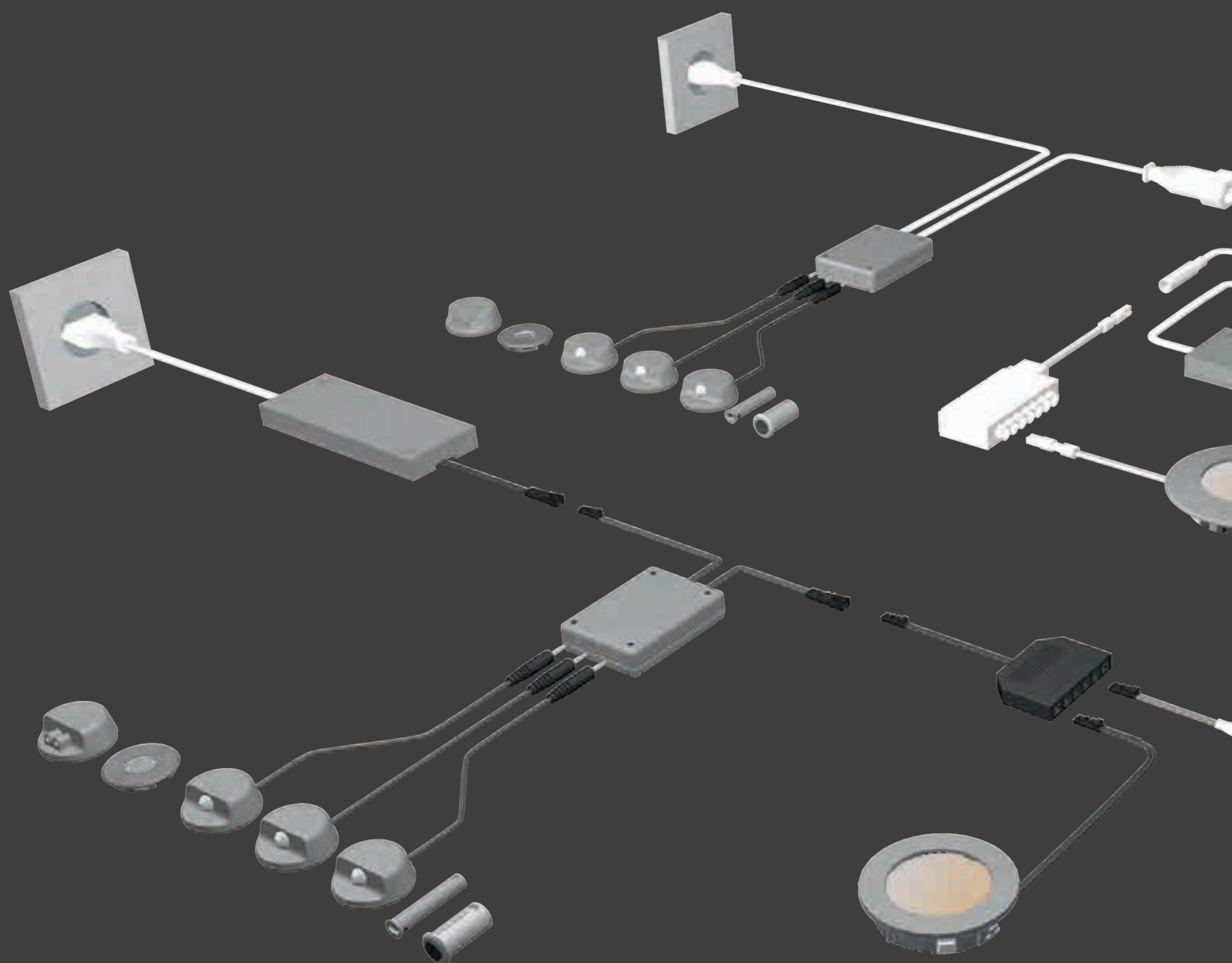


Light can be customized



Light can be cut to size



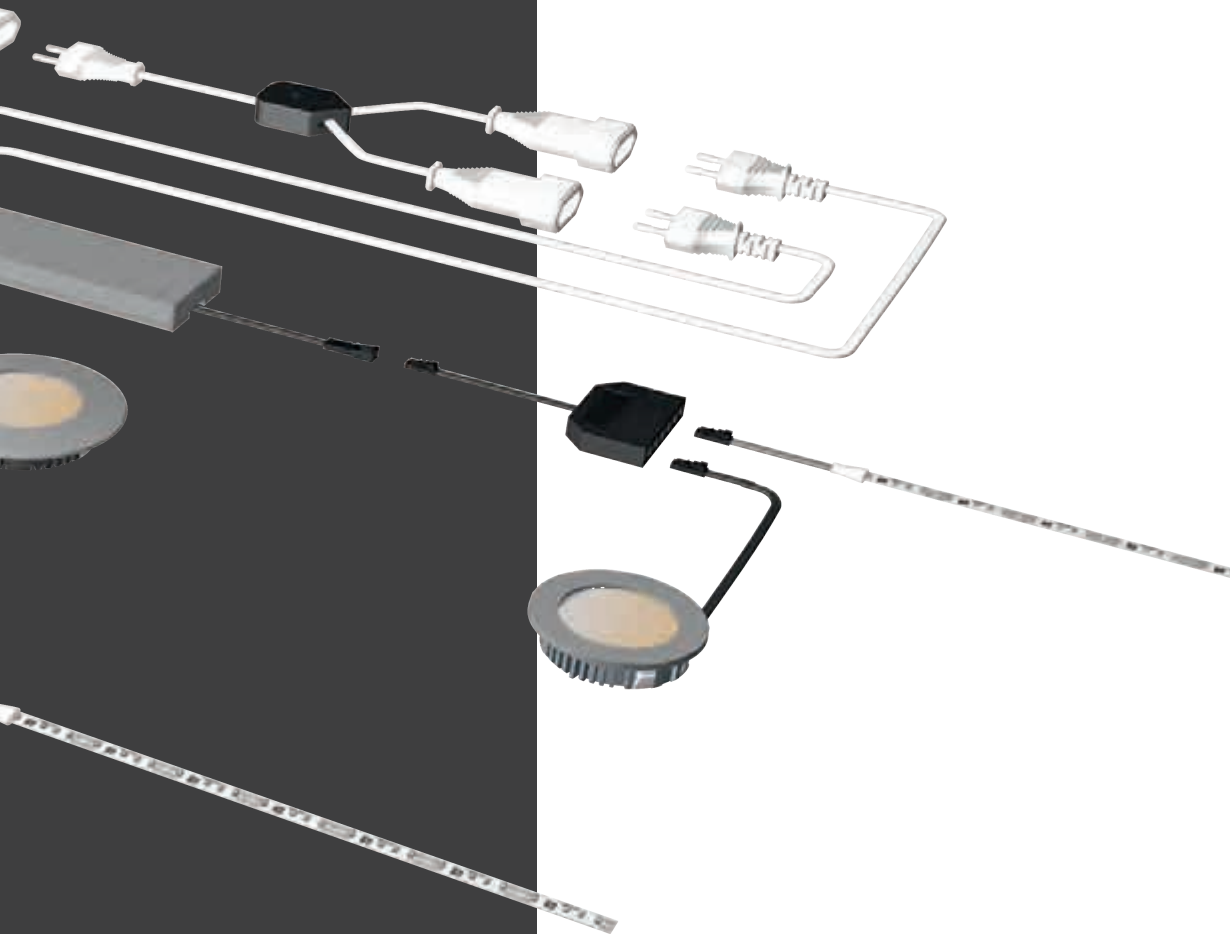


Switch systems

The right system for any installation.

Smooth dimming, colour lighting effects, touchless switching – our switching technology does not depend solely on smartphones or remote

control, but includes motion sensors for touchless lighting control, as well as conventional light switches.





MultiSwitch contact

Advantages

- ▶ Infrared sensor for drill-hole or surface mounting
- ▶ Connection of 1 to 3 identical sensors to 1 master unit

Features

- ▶ Soft ON/OFF function (soft-start when power on/off) - for 12 / 24 V only
- ▶ Memory function for power failure
- ▶ Not compatible with dimmers

Examples of use

- ▶ Door contact switch
- ▶ Touchless sensor switch (surface-mounted infrared sensor)

Ordering information

- ▶ For other sensors, see pages below
- ▶ Only for use with dimmable LED lamps
- ▶ Sales unit: 1

Technical details in brief

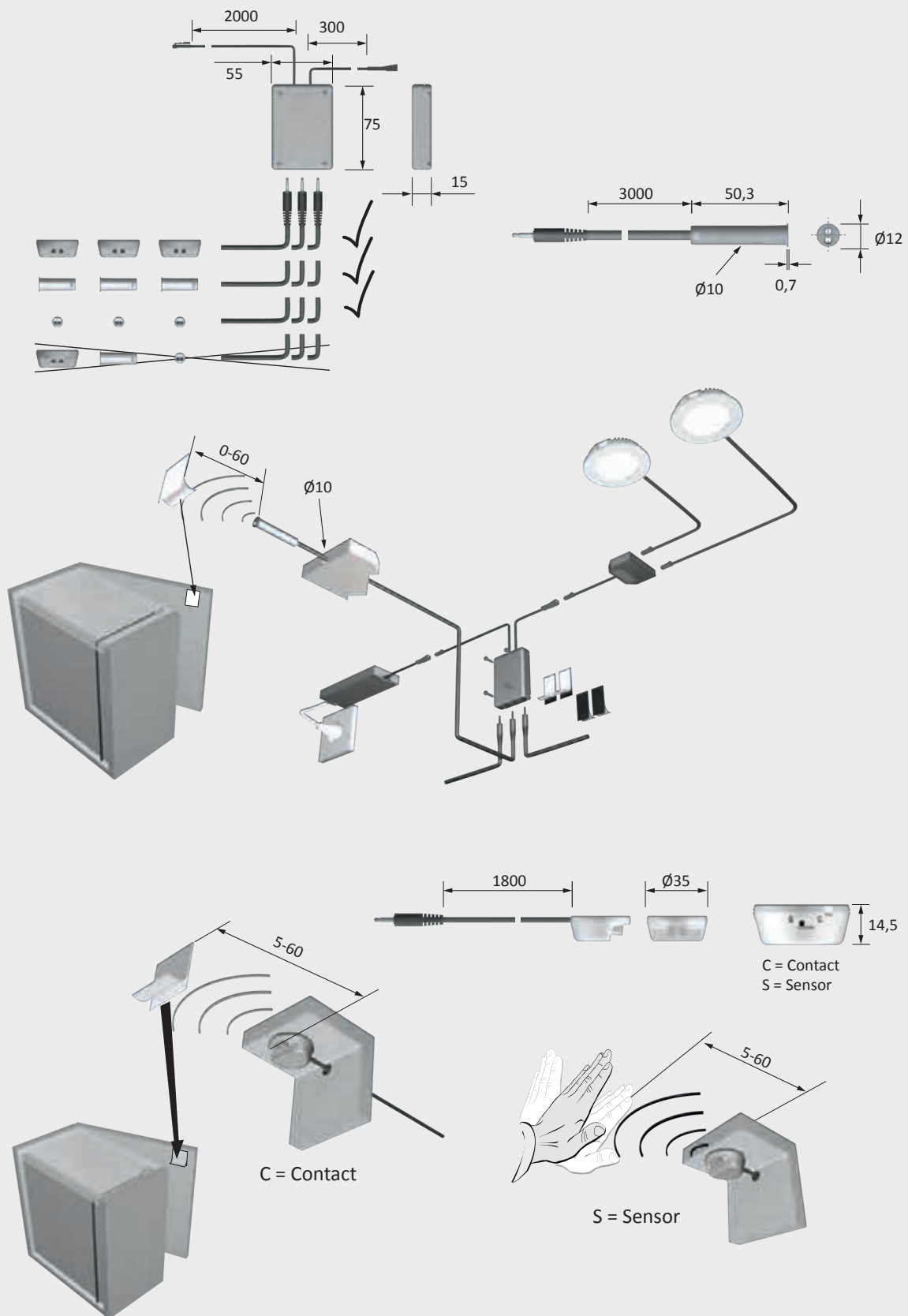


Can be used with: LED lights
 Surface finish: Aluminium look
 Operating voltage: 12 / 24 V DC
 Max. switching power: 36 W / 72 W
 Test marks and symbols:   
 Switching distance: see drawing
 Supply lead: 2000 mm cable to master unit
 Switching lead: 300 mm to LED light
 Standby: < 0.5 W

MultiSwitch IR (infrared sensor)

Article	Order no.
Infrared sensor for drill-hole mounting (IR door contact switch)	30 767 51
Infrared sensor for surface mounting (IR sensor switch + door contact switch)	30 642 01
Master unit 12 V DC - max. switching power: 36 W	30 764 01
Master unit 24 V DC - max. switching power: 72 W	30 764 02

Dimensional drawing / installation





MultiSwitch PIR

Advantages

- Motion sensor for surface mounting
- Responses to heat and motion
- Connection of 1 to 3 identical sensors to 1 master unit

Features

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

Examples of use

- As motion sensor (PIR sensor)

Ordering information

- For other sensors, see pages below
- Only for use with dimmable LED lamps
- Sales unit: 1

Technical details in brief

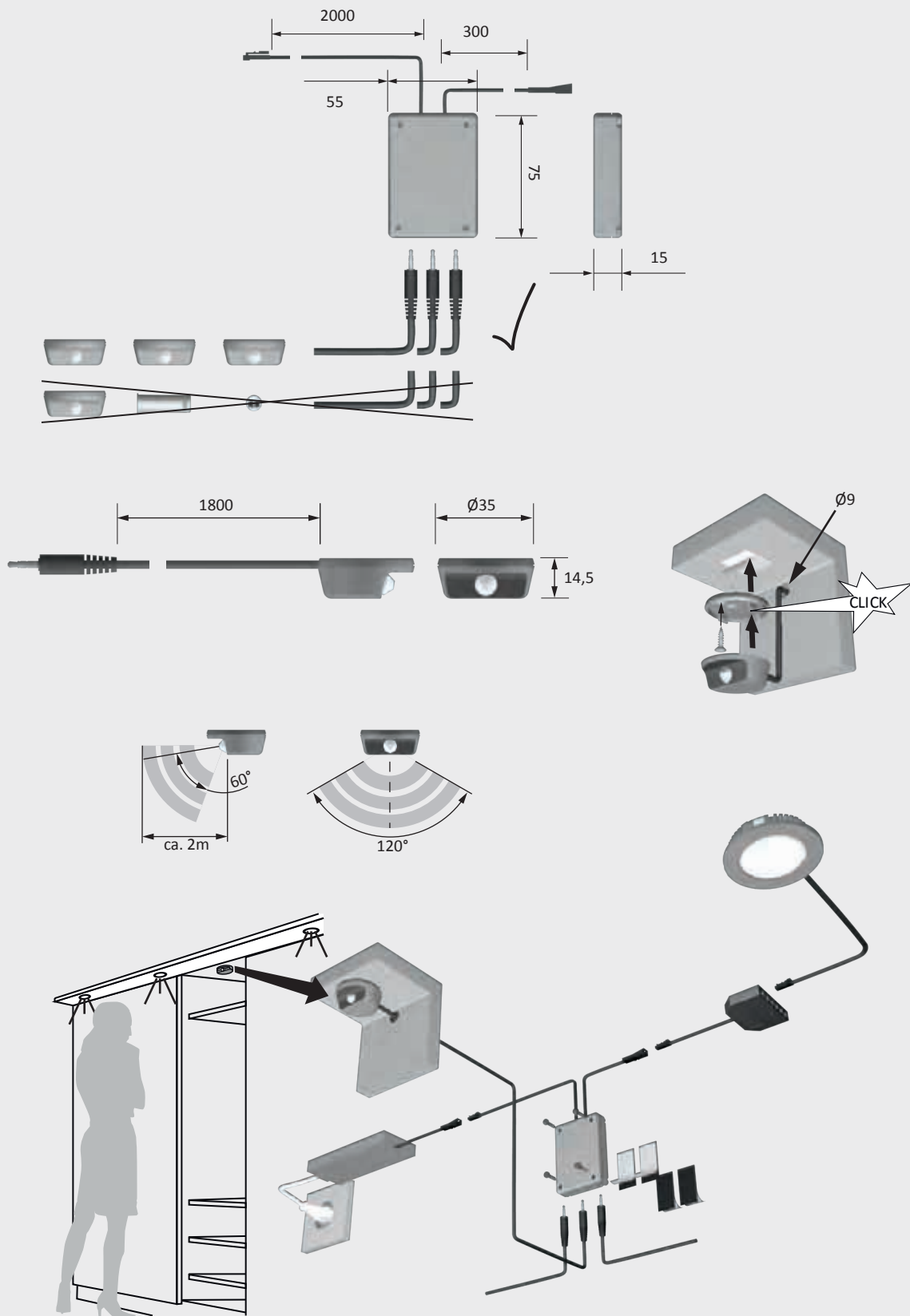


Can be used with:	LED lights
Surface finish:	Aluminium look
Operating voltage:	12 / 24 V DC
Max. switching power:	36 W / 72 W
Test marks and symbols:	CE ▽ ▽
Motion detector:	
Sensing angle:	120°
Range:	2 m
Stay-'ON' time:	30 seconds
Sensor lead:	1800 mm
Supply lead:	2000 mm cable to master unit
Switching lead:	300 mm
Standby:	< 0.5 W

MultiSwitch PIR (motion sensor)

Article	Order no.
PIR sensor for surface mounting (motion sensor)	30 638 01
Master unit 12 V DC - max. switching power: 36 W	30 764 01
Master unit 24 V DC - max. switching power: 72 W	30 764 02

Dimensional drawing / installation





Tri-Mitter

Advantages

- ▶ Top-design wireless switch
- ▶ Switching or dimming of up to 3 independent 12 V or 24 V circuits
- ▶ For impressive lighting effects in furniture

Features

- ▶ The 3 channels of the receiver can be switched individually or together by the TRI-Mitter
- ▶ Memory function for power failure

Examples of use





- ▶ Furniture lighting

Ordering information

- ▶ Kit consists of Tri-Mitter receiver, Tri-Mitter hand-held wireless transmitter and drill-hole mounting ring
- ▶ Only for use with dimmable LED lamps

Technical details in brief



Can be used with: LED lights
 Surface finish: Aluminium look
 Plug connection IN: LED mini plug connection M1 / MP2
 Plug connector OUT: M1 / MP2
 Switching voltage: 12 / 24 V DC
 Max. switching power: 3 x 36 W / 3 x 72 W
 Test marks and symbols:    
 Supply lead: 160 mm
 Switching lead: 160 mm
 Standby: 0.3 W

Tri-Mitter (wireless switch)

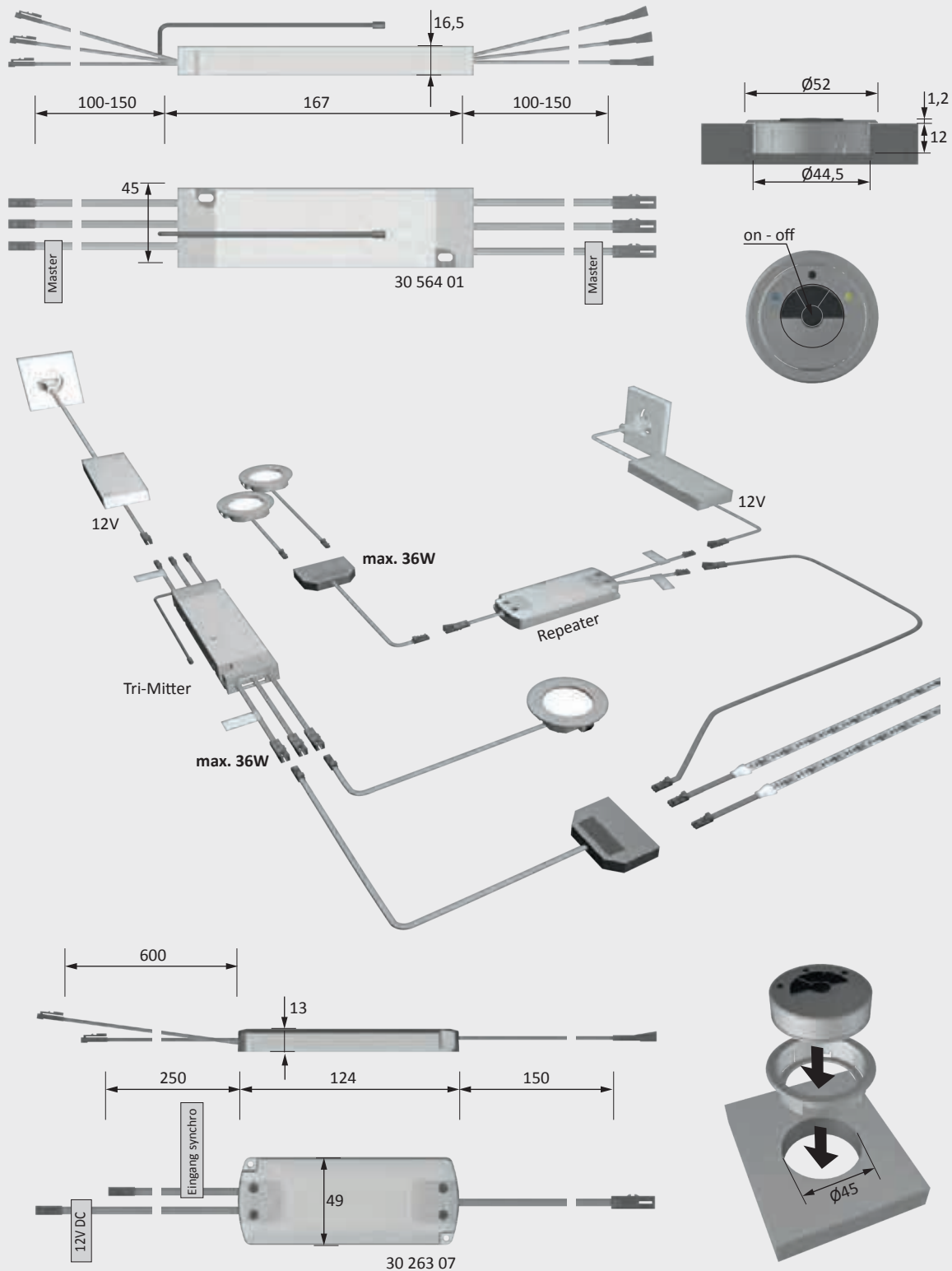
Article	Order no.
Tri-Mitter wireless switching kit 12 V DC	30 588 01
Tri-Mitter wireless switching kit 24 V DC	30 589 01
Tri-Mitter wireless hand-held transmitter	30 590 01

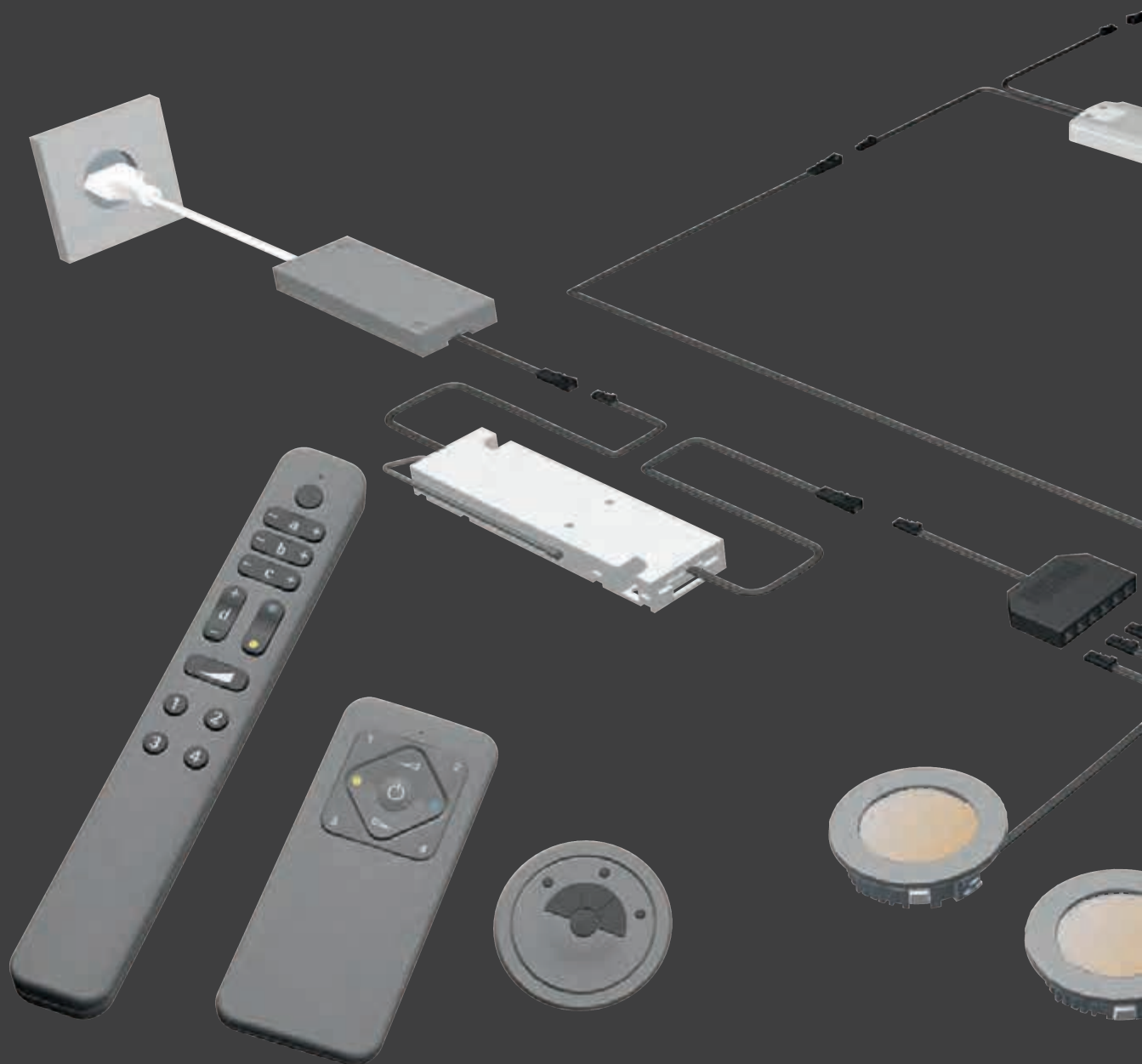
Accessories (for more accessories, see chapters "Switch systems" and "Ballasts & leads")

Article	Order no.
Repeater 12 V (max. 36 W)*	30 263 07
Repeater 24 V (max. 72 W)*	30 263 08

* one repeater allows for the control of more than 36 W at 12 V and 72W at 24 V, respectively

Dimensional drawing / installation



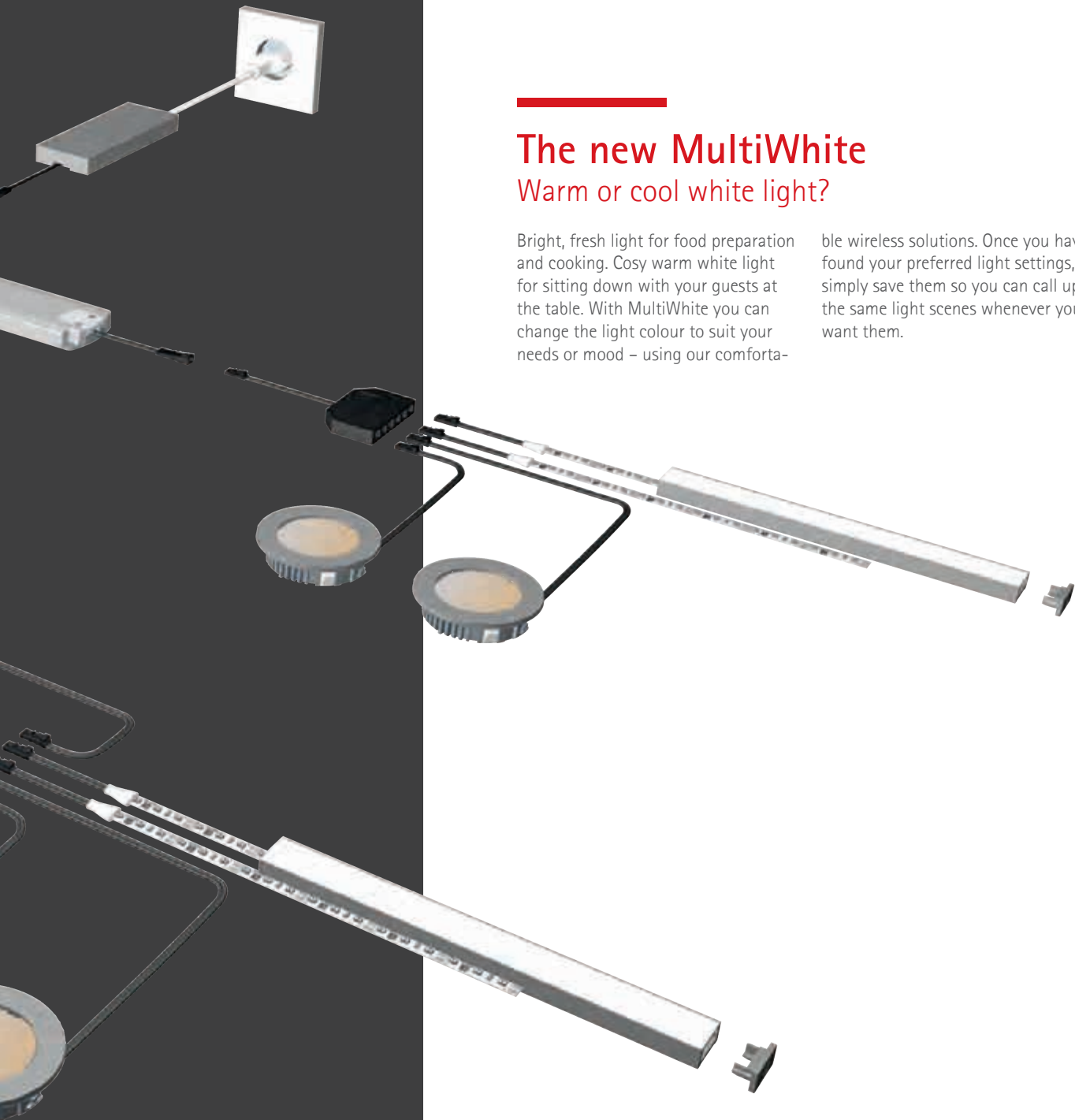


The new MultiWhite

Warm or cool white light?

Bright, fresh light for food preparation and cooking. Cosy warm white light for sitting down with your guests at the table. With MultiWhite you can change the light colour to suit your needs or mood – using our comforta-

ble wireless solutions. Once you have found your preferred light settings, simply save them so you can call up the same light scenes whenever you want them.





S-Mitter Basic MultiWhite

Advantages

- ▶ One transmitter can switch any number of receivers
- ▶ 1 receiver can be combined with up to 5 remote controls
- ▶ Continuous adjustment of light colour from cool white to warm white

Features

- ▶ Dimming function
- ▶ Storage of up to 4 light scenes
- ▶ Memory function for power failure

Examples of use

- ▶ Switching and dimming of MultiWhite furniture lights
- ▶ For impressive lighting effects in furniture

Ordering information

- ▶ Kit consists of S-Mitter receiver and S-Mitter hand-held wireless transmitter
- ▶ AppMitter for control from smartphone

Technical details in brief



Can be used with:
Surface finish:
Plug connection IN:
Plug connector OUT:
Switching voltage:
Switching power:
Test marks and symbols:

LED lights
Black
M1
M1
12 V DC
max. 36 W

Supply lead:
Switching lead:
Standby:

CE   
160 mm
160 mm
< 0.5 W

S-Mitter Basic MultiWhite

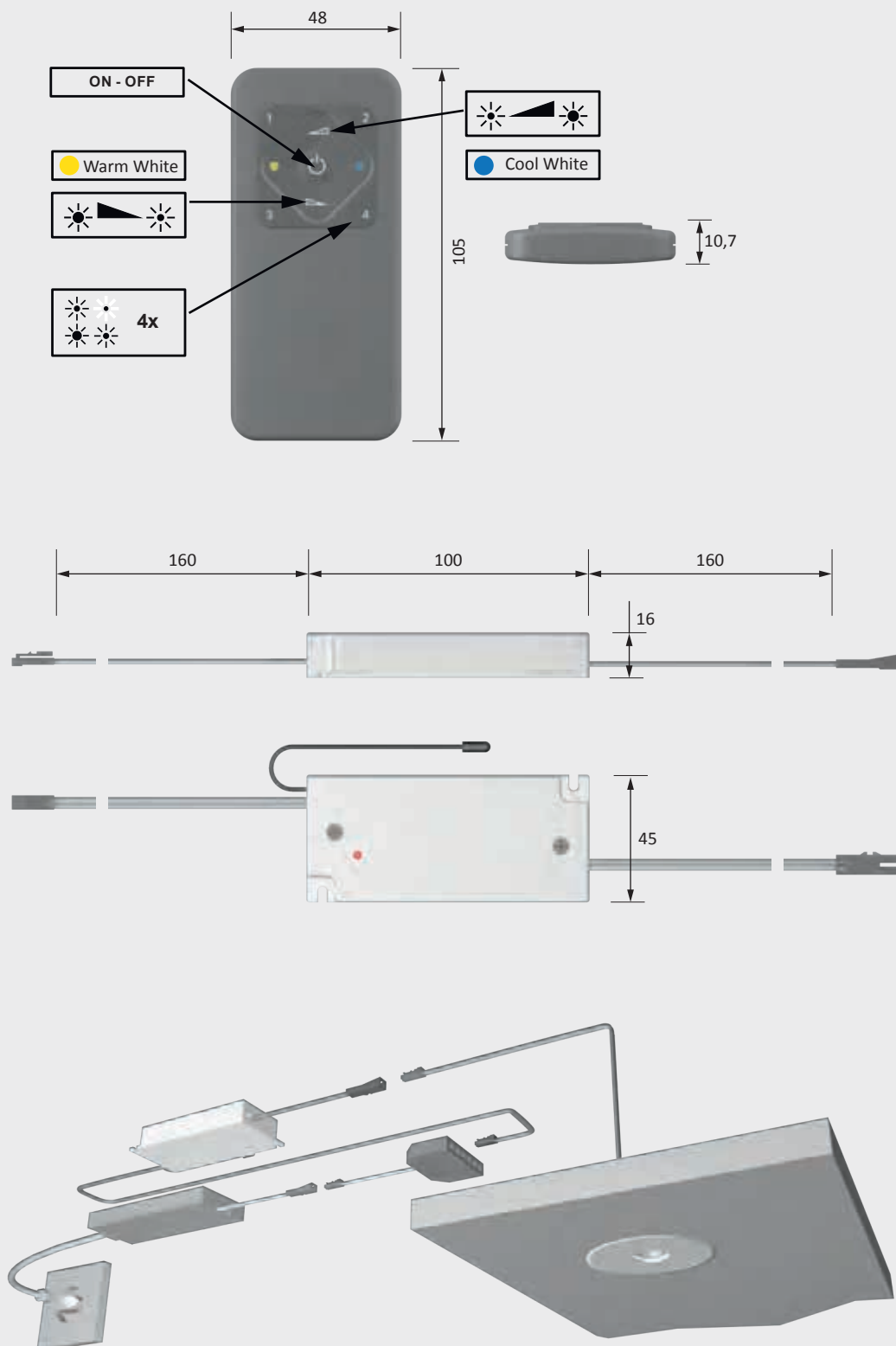
Article	Order no.
S-Mitter Basic MultiWhite wireless kit	30 772 01
S-Mitter MultiWhite receiver	30 774 01

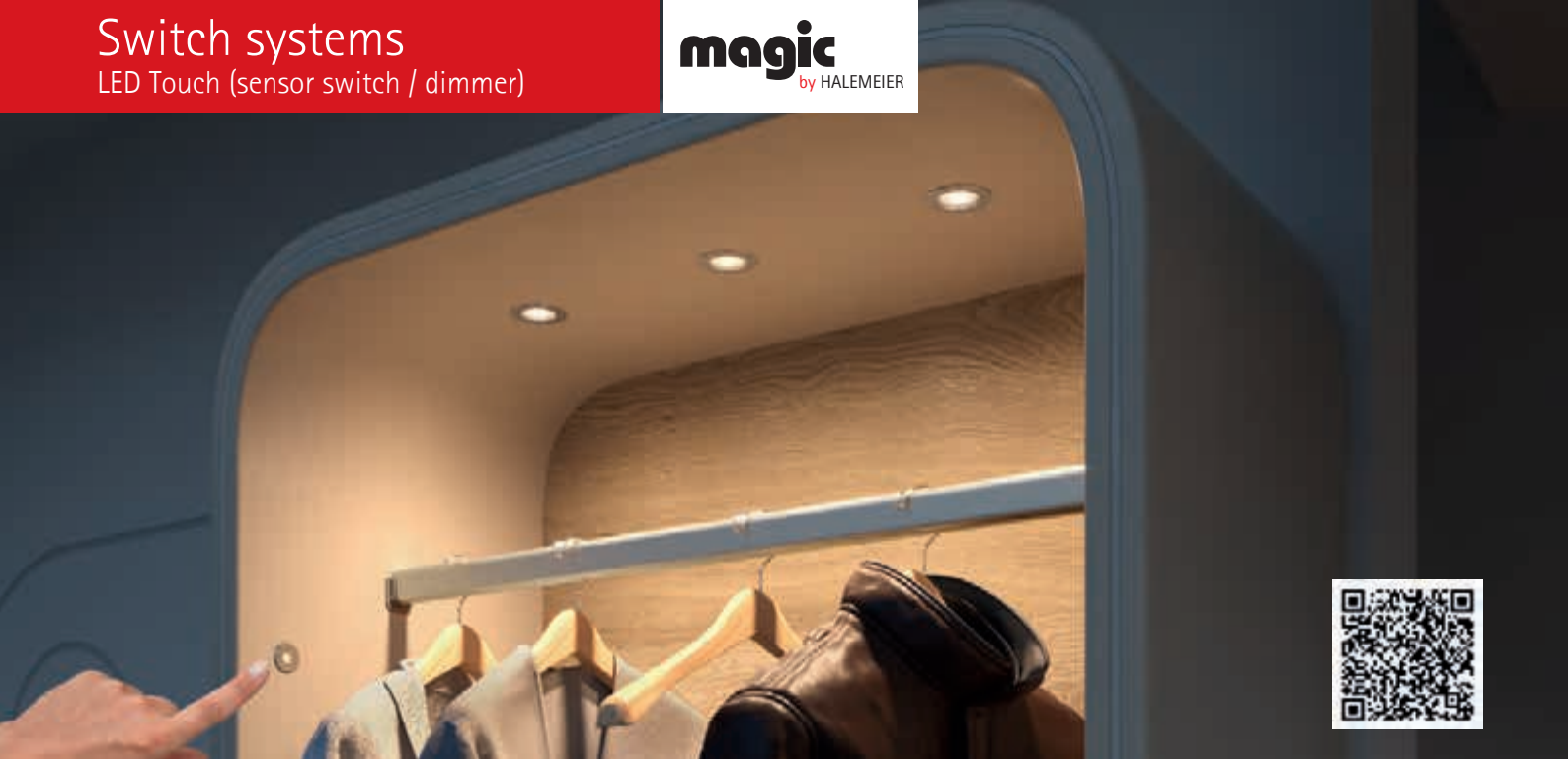
Accessories (for more accessories, see chapters "Switch systems" and "Ballasts & leads")

Article	Order no.
MultiWhite repeater*	30 777 01

* a repeater enables you to extend the performance range of the MultiWhite control device by another 36 W

Dimensional drawing / installation





LED Touch

Advantages

- Sensor with dimming function for flush installation or surface mounting
- With built-in orientation LED

Features

- Memory function for power failure
- Not compatible with upstream dimmers

Examples of use

- Switching and dimming of furniture lights
- ON/OFF switch

Ordering information

- Only for use with dimmable LED lamps
- Sales unit: 1
- As changeover switch, see MultiSwitch Touch

Technical details in brief



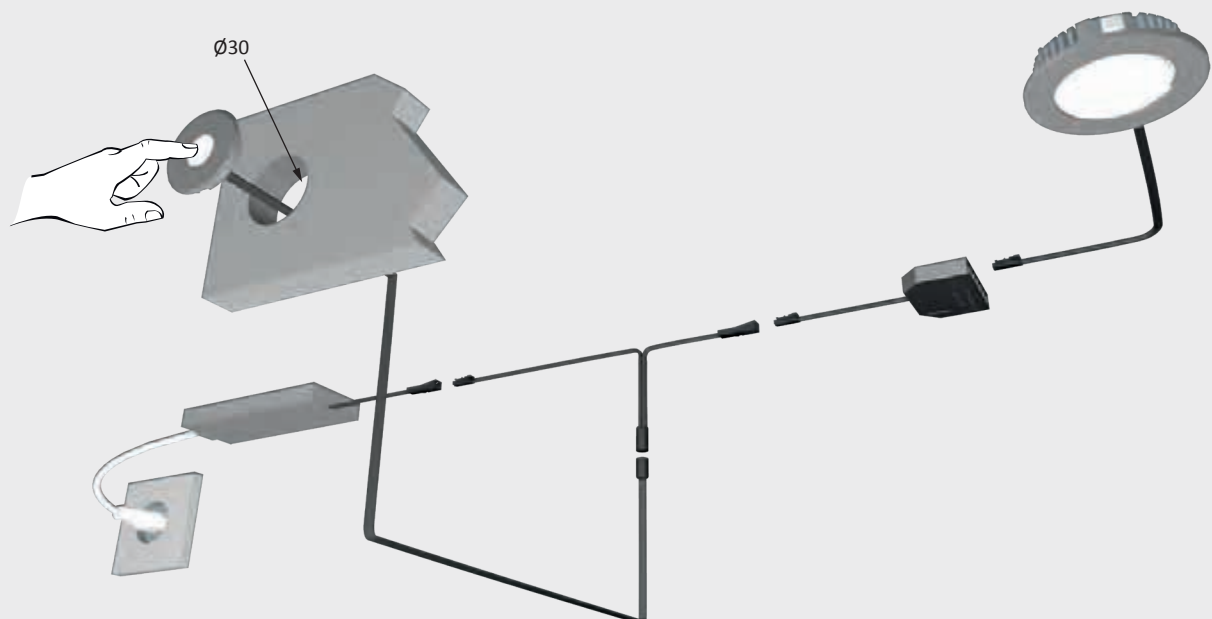
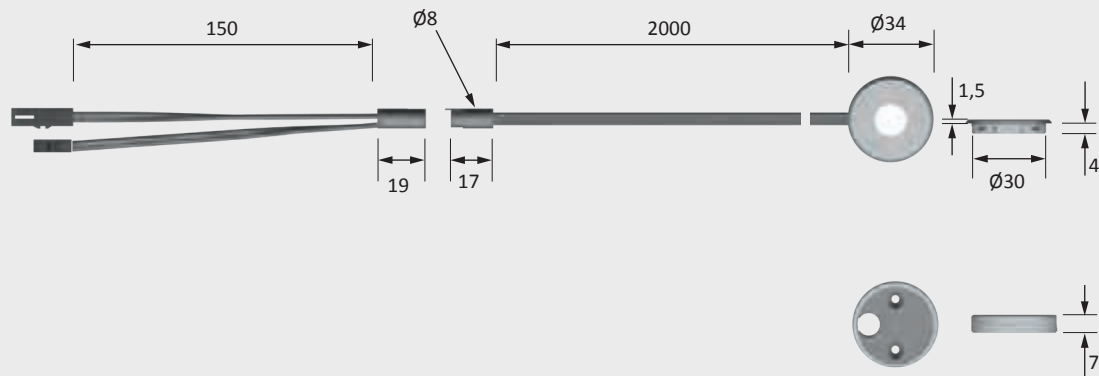
12 V

LED Touch (sensor switch / dimmer)

Article	Order no.
LED Touch dimmer	30 178 01

Can be used with:	LED lights
Surface finish:	Aluminium look
Operating voltage:	12 V DC
Max. switching power:	36 W
Test marks and symbols:	CE ◊ ▽ ▽ ▽
Supply lead:	2 m
Switching lead:	2 m to LED light
Standby:	< 0.5 W

Dimensional drawing / installation





LED dimmer

Advantages

- ▶ LED dimmer
- ▶ Metal button

Features

- ▶ Memory function for power failure
- ▶ The LED dimmer enables the switching and dimming of LED lights and LED lighting groups with an operating voltage of 12 V DC

Examples of use

- ▶ Switching and dimming of furniture lights

Ordering information

- ▶ The LED dimmer must not be used in combination with sensor or wireless switches
- ▶ Sales unit: 1

Technical details in brief

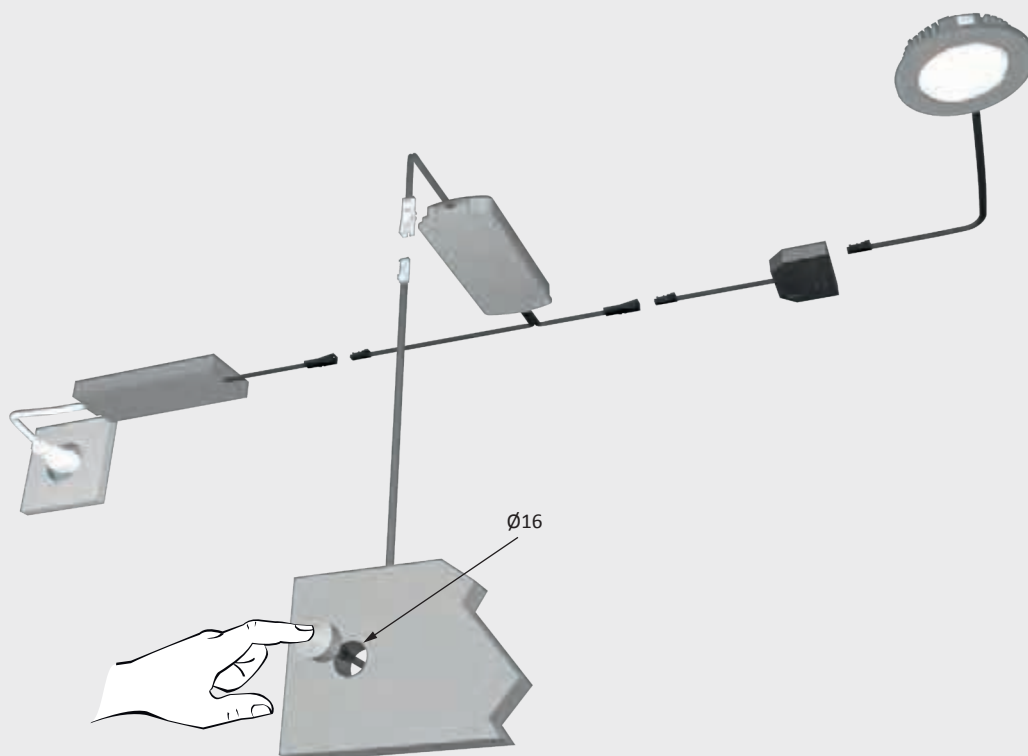
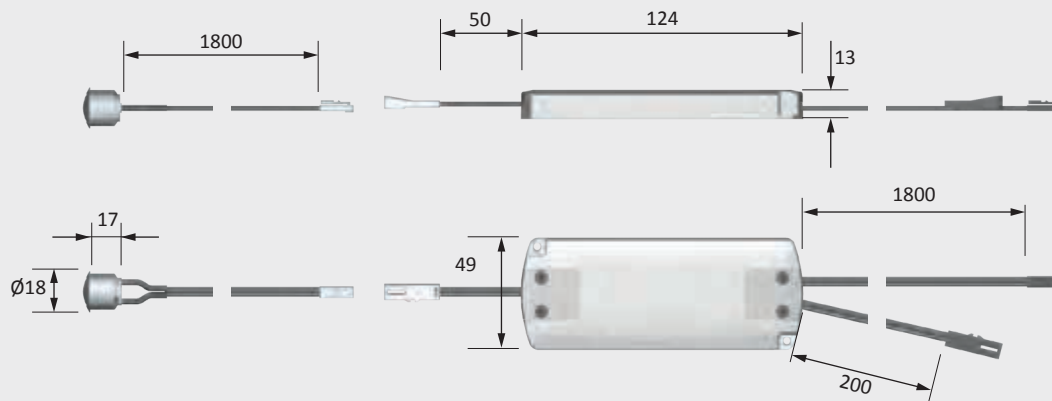


Can be used with:	LED lights
Surface finish:	Stainless steel
Plug connection:	LED mini M1 plug connection
Switching voltage:	12 V DC
Max. switching power:	36 W
Test marks and symbols:	CE ▽ ▽ ▽ ▽
Supply lead:	1700 mm
Switching lead:	200 mm
Standby:	< 0.5 W

LED dimmer / switch

Article	Order no.
Dimmer	30 538 01

Dimensional drawing / installation





Rocker switch

Advantages

- Simple built-in switch

Examples of use

- Switching of furniture lights

Ordering information

- Image above shows SuperDot with rocker switch
- Sales unit: 1

Technical details in brief



Can be used with:

Surface finish:

Operating voltage:

Test marks and symbols:

Plug connection:

Lights

Aluminium look / black

12 V DC / 230-230 V

CE    

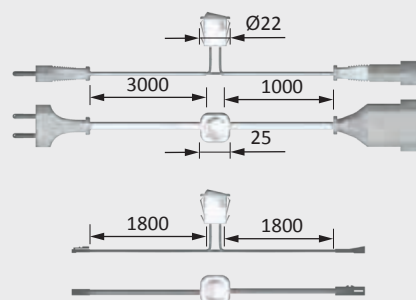
LED mini

M1 plug connector / Australian plug

Rocker switch

Article	Surface finish	Voltage	Switching power	Supply lead	Switching lead	Order no.
Rocker switch	Aluminium look	12 V DC	max. 36 W	1800 mm	1800 mm	36 974 81

Dimensional drawing / installation





USB socket

Advantages

- USB charger socket
- for connection of 2 devices

Features

- For drill-in mounting
- Quick charging of mobile and table

Examples of use

- USB devices

Ordering information

- Sales unit: 1
- Ballast must have free capacity of minimum 15 W

Technical details in brief



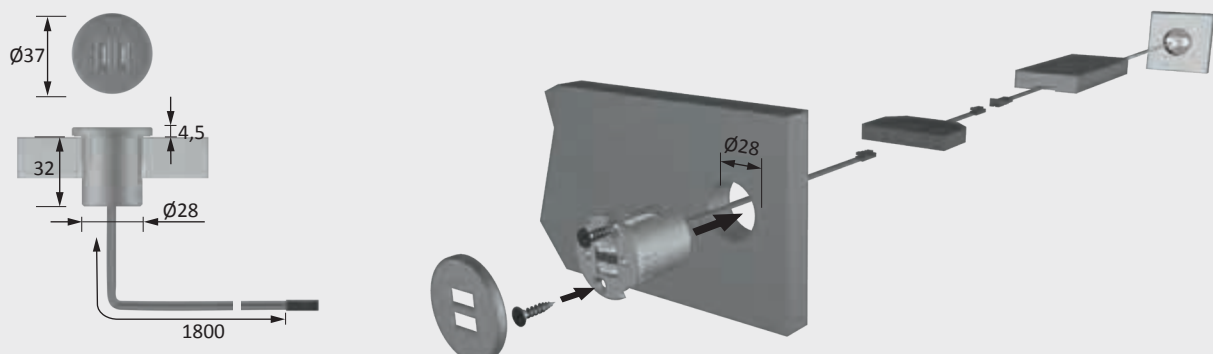
Type:
Surface finish:
Operating voltage:
Charging current:
Test marks and
symbols:
Plug connection:

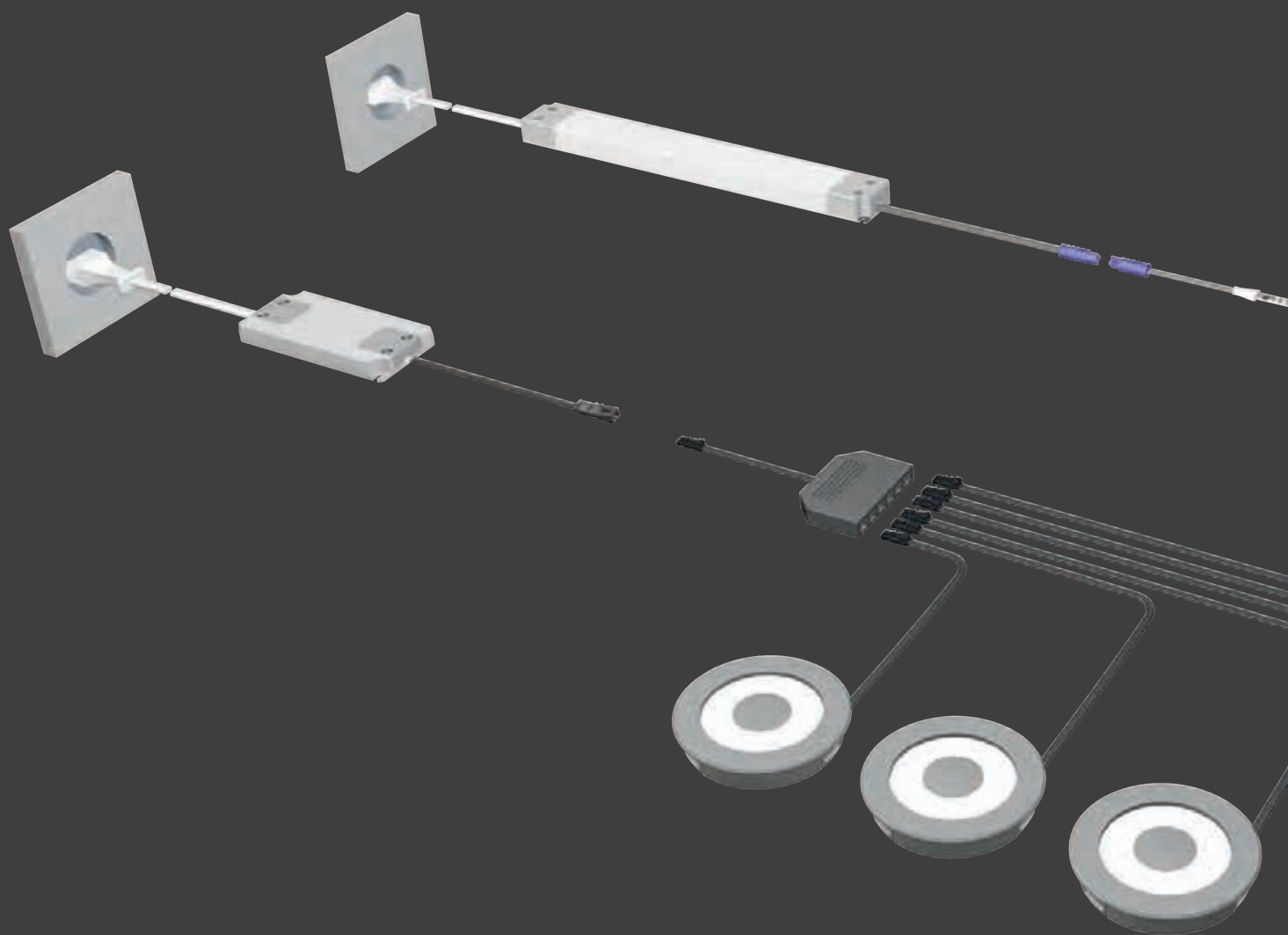
Flush installation
Aluminium look
12 V DC
max. 2.1 A

CE
LED mini
M1 plug connector

USB socket	
Article	Order no.
USB socket	30 574 02

Dimensional drawing / installation





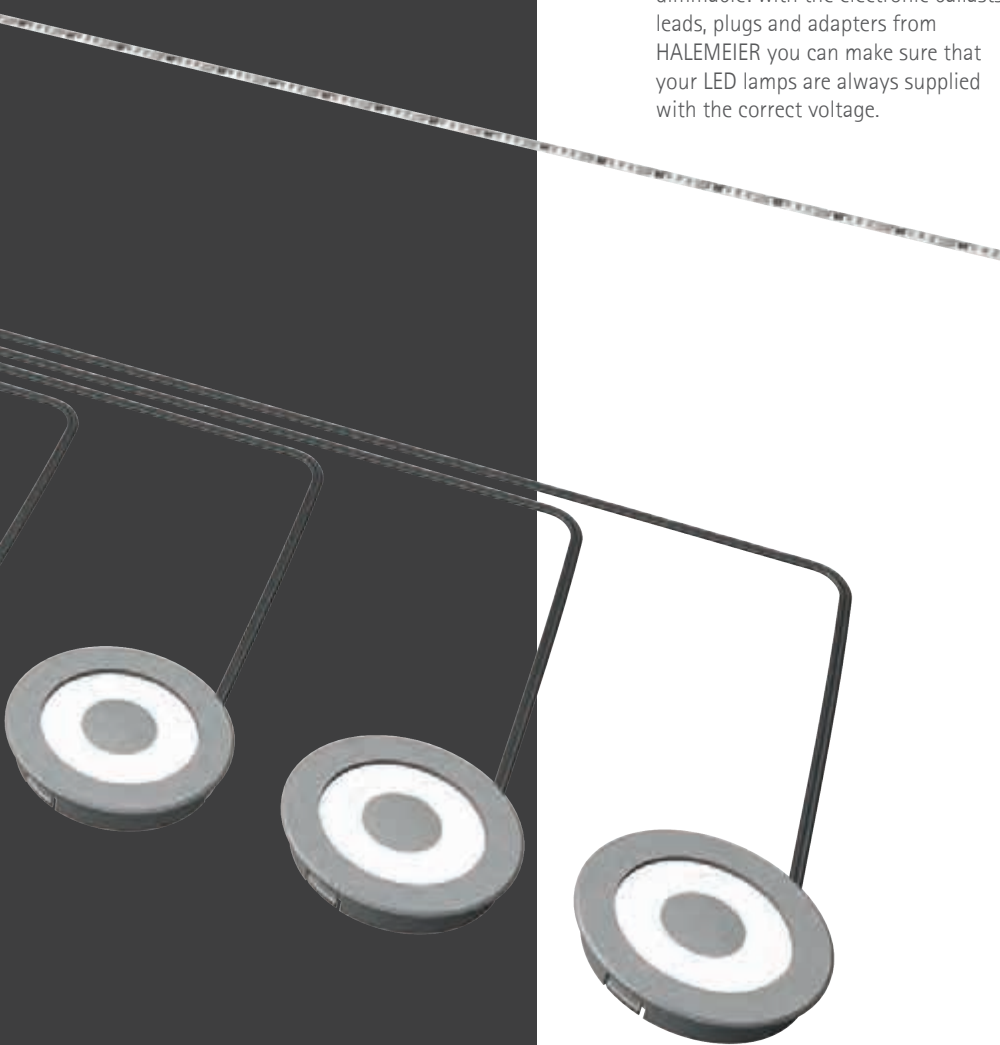
EVG	SuperSpot	MultiLite Flood	SignPlus	Eco Power L	Eco Power Flood	Eco Spot	Star Point
	4,2 W	4 W	2,3 W	3,2 W	1,7 W	1,5 W	1,2 W
6W	1x	1x	2x	1x	3x	4x	5x
10W	2x	2x	4x	3x	5x	6x	8x
15W	3x	3x	6x	4x	8x	10x	12x
20W	4x	5x	8x	6x	11x	13x	16x
30W	7x	7x	13x	9x	17x	20x	25x
50W	11x	12x	21x	15x	29x	33x	41x

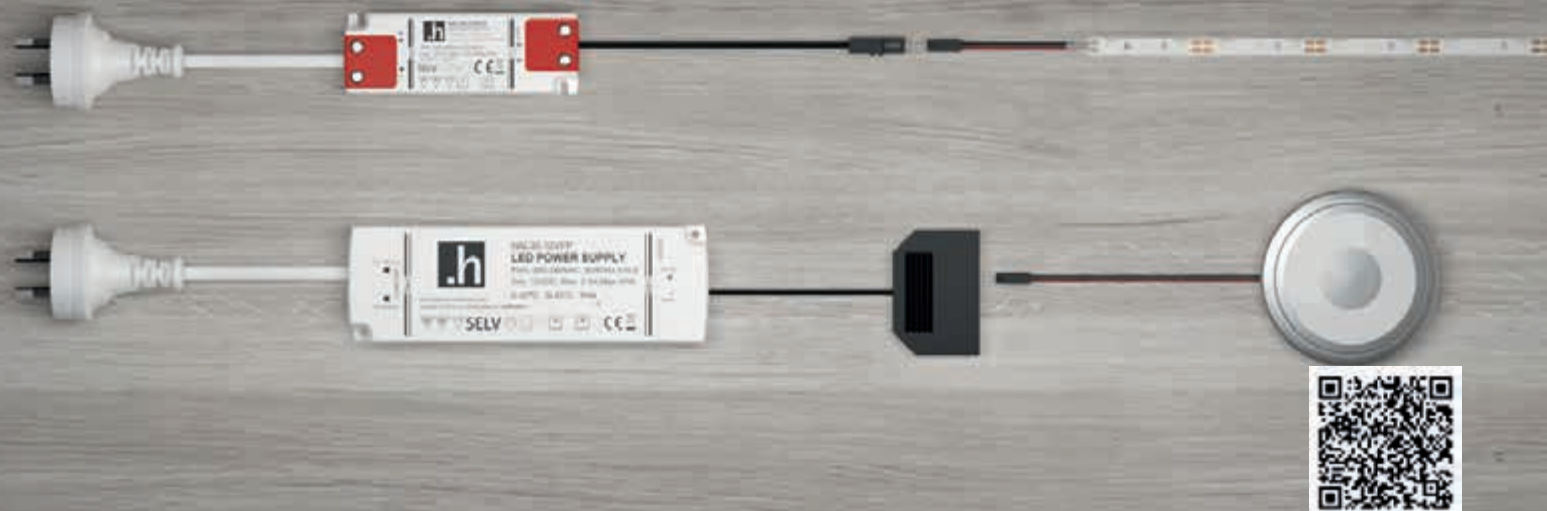
Ballasts & leads

The right connections for your LEDs

12 V or 24 V – dimmable or not dimmable: with the electronic ballasts, leads, plugs and adapters from HALEMEIER you can make sure that your LED lamps are always supplied with the correct voltage.

Find out more about the power levels we offer. On request we provide the matching cable duct.





Ballast 12 V

Features

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

Examples of use

- ▶ For 12 V DC furniture lights

Ordering information

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

Technical details in brief



For use with:
Surface finish:
Operating voltage:

LED lights
white
100 V AC
240 V AC
50 Hz / 60 Hz
12 V DC

Mains frequency:
Output voltage:

Test marks and
symbols:
Plug connection
Primary:

CE ⬠ ⬠ ⬠ ⬠

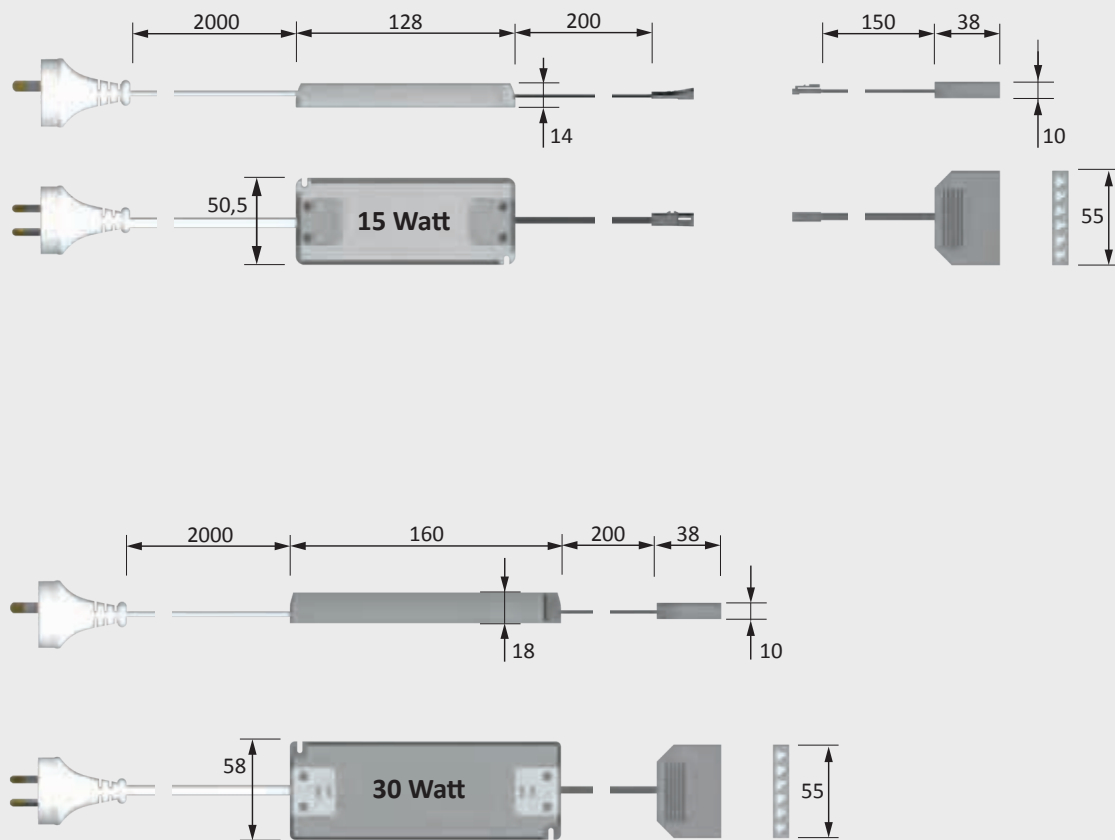
Plug connection:

2000 mm with
Australian plug
LED mini
M1 plug connection

Ballast 12 V DC - 200-240 V AC

Article	Secondary	Order no.
15 W	1-way + 6-way distributor	31 026 01
30 W	1-way + 6-way distributor	30 221 01

Dimensional drawing / installation





Ballast 24 V

Features

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

Examples of use

- ▶ For 24 V DC furniture lights

Ordering information

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

Technical details in brief

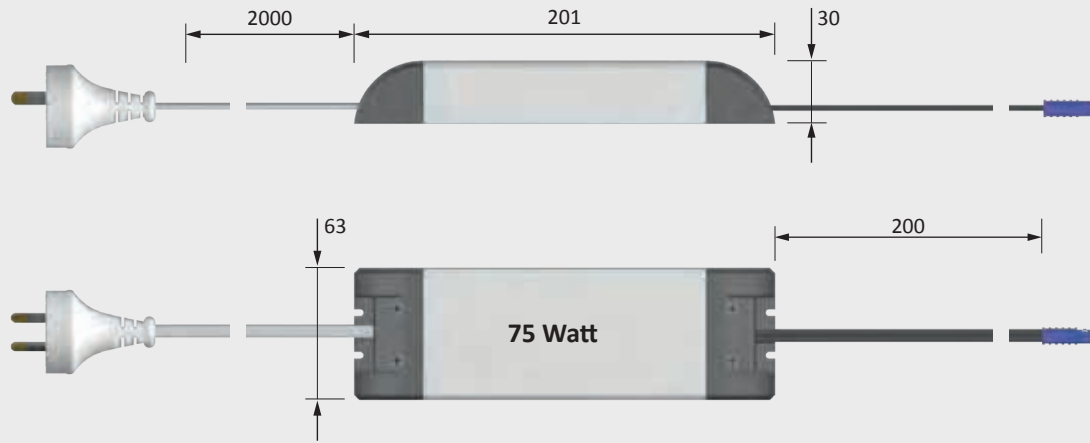


For use with:	LED lights
Surface finish:	white
Operating voltage:	220-240 V AC
Mains frequency:	50 Hz / 60 Hz
Output voltage:	24 V DC
Test marks and symbols:	CE ⬠ ⬡ ⬢ ⬣ ⬤
Plug connection	
Primary:	2000 mm with Australian plug
Plug connection:	LED mini MP2 plug connection

Electronic ballast 24 V DC

Article	Order no.
75 W	30 222 01

Dimensional drawing / installation





Leads 12 V

Advantages

- ▶ LED plug system for 12 V lights

Features

- ▶ Plug bore diameter 8 mm

Examples of use

- ▶ Furniture LED lights

Ordering information

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

Technical details in brief



Type:

Connected load:

Surface finish:

Plug connection:

Plug system

max. 3 A (36 W)

black

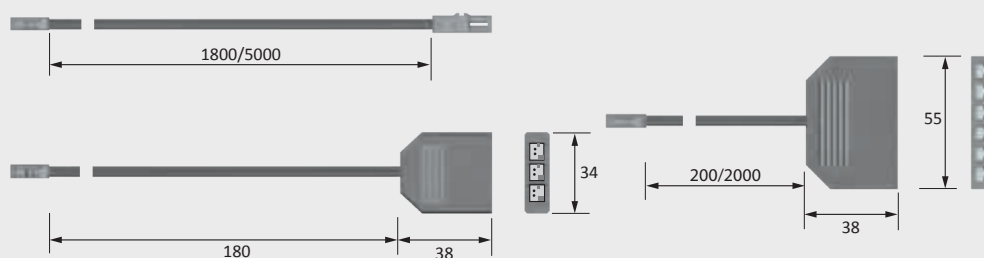
LED mini

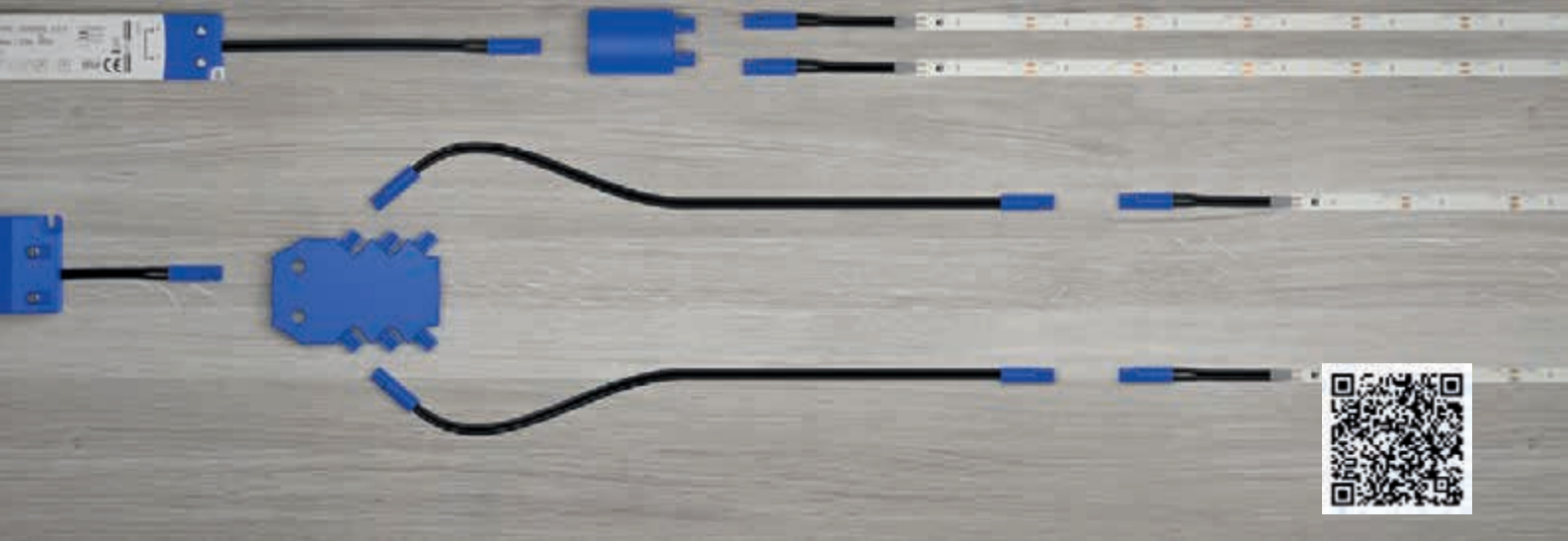
M1 plug connection

Leads 12 V

Article	Order no.
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 V

Advantages

- ▶ LED plug system for 24 V lights

Features

- ▶ Plug bore diameter 8 mm

Examples of use

- ▶ Furniture LED lights

Ordering information

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

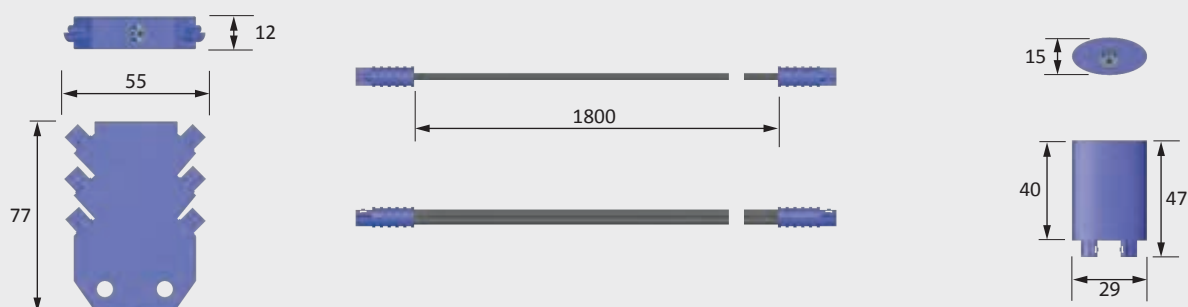
Technical details in brief



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

Leads 24 V	
Article	Order no.
Extension lead 1800 mm	36 177 01
2-way distributor	39 422 51
6-way distributor	36 996 01

Dimensional drawing / installation





Accent lighting

Functional lighting

Types of lighting

Light can shape, change and move.

► Accent lighting

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

► Orientation lighting

By changing lighting scenarios, similar rooms acquire a different look and feel. Decorative elements such as backlit picture frames unfold their effect. Energy-saving LEDs are used as orientation lights – also during the night.

► Functional lighting

Neutral white light is the best for kitchen working areas. 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 worktop. For uniform, glare-free illumination.

Orientation lighting



Enlightening facts about light

Casting light on light

Lux, lumen and Kelvin; warm, cool and neutral white – although the terminology of lighting technology is all around us, it is not always transparent. We would like to bring light into the dark with a few explanations.

► Light colour and colour temperature

White light consists of the entire colour spectrum; that is to say, it is the sum of all light colours. If the proportion of red in the light dominates, light appears warm; with more blue, it appears cooler. This colour impression of a light source is called the light colour. Colour temperature is measured in Kelvin (K). It only provides information on the visual colour impression and does not say anything about the thermal value of the light. The values are referenced to the tempering colours of a black test body heated to a specific temperature.

► Classification



Warm White
2900 – 3300 K
Cosy, relaxing



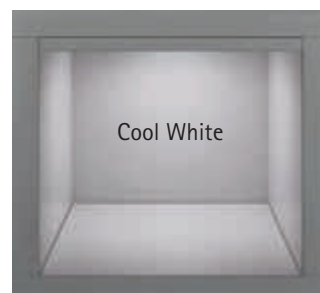
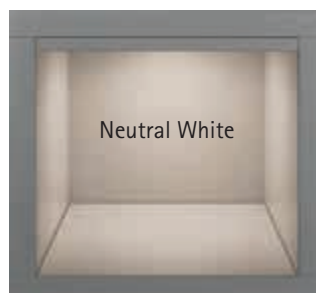
Neutral White
4000 – 4500 K
Functional



Cool White
5000 – 6500 K
Like daylight, technical, stimulating



MultiWhite 2500 – 6500 K
White, adjustable from
cosy to daylight



These categories and terms are not standardised and do not refer to the actual colour of the light, but to colour temperature ranges.

► Colour rendition

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

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

In light with an unbalanced colour spectrum, the colours of objects tend to look unnatural.

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.

This aspect can be safely ignored in spaces where precise colour rendition is not crucial, such as living rooms and bedrooms. Here, lights can be selected according to the mood to be evoked.

Only an indirect relationship exists between light colour temperature and colour rendition. The best available method applies the principle of "luminescence conversion" and is used both for LED and fluorescent lamps. With this method, the original blue LED light is transformed into white light by a thin layer of phosphor material. Currently, CRI values of over 90 can be achieved with this method. As this approach offers great value for money when it comes to top-quality lighting solutions, it is the method preferred by HALEMEIER.



CRI ~ 90
(HALEMEIER)



CRI ~ 70



CRI ~ 50

► Luminous flux

Luminous flux is defined as the quantity of energy of the light emitted by a source. The unit of luminous flux is lumen (lm).

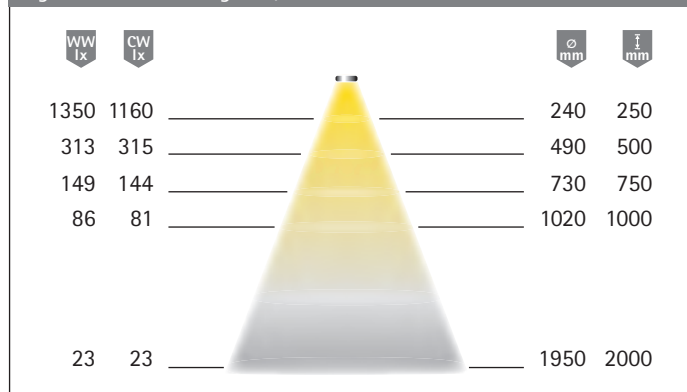


► Luminous intensity

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



Light distribution diagram / 60°



Illuminance	Room function or type of activity		
1000 lux	Colour inspection, colour checks, goods inspection Precision assembly of small components (electronics, etc.) Jewellery making, retouching, etc.	Functional lighting	High illumination level
750 lux	Technical drawing Drawing and error checking Inspecting wood veneers Grinding, glass polishing, precision assembly		
500 lux	Office spaces, data processing centres, conference rooms Exhibition stands, control platforms Points of sale in retail outlets		
300 lux	Office workstations near windows Lathing, drilling, milling, general assembly tasks Shops, dispatch departments	Accent lighting	Medium illumination level
200 lux	Archives, storage rooms with reading activity Assembly of large components Public areas in buildings Changing rooms, washrooms and toilets		
100 lux	Storerooms Vehicle and pedestrian traffic areas in buildings Foyers, stairwells and escalators		



- ▶ **ENEC**
European mark of conformity: Certificate of conformity with European standards for electrical products, issued by national certification bodies.



- ▶ **Safety class 2 – Devices without earth conductor connection**
Equipment in which protection against electrical shock does not rely solely on basic insulation. Safety class 2 devices come with extra safety features, such as double insulation or reinforced insulation. The protective earth conductor cannot be incorrectly wired.



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



- ▶ **EMV**
Approval mark of VDE, confirming compliance with statutory electromagnetic compatibility regulations.



- ▶ **Safety class 3 – Devices using safety extra low voltages**
Equipment in which protection against electric shock is based on the use of safety extra low voltage and in which no voltage higher than the safety extra low voltage is generated – AC < 50 V rms and DC < 75 V.



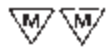
- ▶ **CE**
The CE mark certifies among other things compliance with the Low Voltage Directive and the EMC Directive.



- ▶ **F mark**
In the past, lights suitable for direct mounting on normally flammable surfaces carried the F-mark. Today, all lights must meet the respective requirements, so that the mark has become obsolete, and only deviations need to be indicated accordingly.

IP codes

- ▶ **Protection against foreign bodies / water**



- ▶ **MM mark**
Lights and transformers suitable for installation in or on furniture made from materials with unknown flammability properties.

IP 20

Protection against medium-sized foreign bodies / no protection against water

IP 21

Protection against medium-sized foreign bodies / protection against dripping water

IP 40

Protection against granular foreign bodies / no protection against water



- ▶ **Temperature-protected electronic transformer**
Transformer with temperature protection. The value in the triangle shows the maximum housing temperature in the event of a defect.

IP 44

Protection against granular foreign bodies / protection against splashing water from all directions

IP 65

No ingress of dust / protection against water jets



- ▶ **Short-circuit-proof safety transformer**
Transformer protected against short circuits.



Use only in dry rooms



- ▶ **Independent electronic transformer**
Transformer for use outside lights, without additional cover.

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

$t_{a_{max}}$

- ▶ **Maximum permissible ambient temperature**
The temperature level up to which no overheating of components occurs.



QPS test mark for Canada and USA

t_c°

- ▶ **Temperature reference point**
Denotes the temperature reference point on the housing. Exceedance leads to a reduced service life.



Test mark of the UL Institute



Test mark of the ETL Institute

SELV

- ▶ **Safety Extra Low Voltage**



- ▶ **Safety class 1 – Devices with earth conductor connection**
Equipment in which protection against electrical shock does not rely solely on basic insulation. Additional protection is given by connecting conductive components capable of assuming hazardous voltages if the basic insulation fails to the protective earth conduct or the building wiring.



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 a product has the correct 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 the level of illumination. It is suitable only for selecting lights for systems where lamps are replaceable, which is for instance the case with T5 LiteLine lights.

► Extending LED supply leads

Supply leads cannot be infinitely extended. Firstly, unwanted EMC effects might occur (causing interference with electronic systems); secondly, ballasts might be overloaded or the light output of the lamp might be significantly reduced.

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

► **Our lights based on 24 V DC** are supplied with a MP2 multi-plug and may be generally extended by 2 extension leads of 1.8 m each in addition to the fitted supply lead.

► Dimming LED lights

You will find whether a light is dimmable in the field "Technical details in brief" on each product page in the catalogue. LED lights are dimmed by PWM (Pulse Width Modulation) on the low voltage side. This is done either by our LED dimmers or through special ballasts that are controlled by 1–10 V control voltage or phase dimmers, depending on the type. Please note: Standard LED ballasts are not dimmable.

► Who remembers what?

All switches of our range "remember" their state when the power was switched off. For example, for the Tri-Mitter this means that it remembers the last dim level before switch-off.

► 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. in ballast installed between two wooden plates), unless absolutely necessary.

► Heat generation

The light emission by LED generates a certain amount of heat, which however, in contrast to other technical appliances, is so low that it has almost no impact on the environment. The design of the light ensures that, under normal conditions of use, there is no heat accumulation reducing the life of the electronic components and the LEDs. When using high-powered LED flex strips, the mounting surface must be able to dissipate some of the heat. We therefore recommend using Channelline profiles made of aluminium that act as heat sinks for LED light strips.

► Utilisation 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 ballasts whose power range is specified as 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 by the number of lights connected to it.

► Observe the inrush current

Electronic ballast have no inductance in the input circuit which limits the inrush current upon switch-on. Therefore, a high current might occur when the mains voltage is switched on. When using large numbers of ballasts (e.g. for exhibitions), this should be considered when protecting the circuit.

► Electronic ballast with output control

Electronic ballasts with output control compensate mains voltage fluctuations of $\pm 10\%$, 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 $\pm 10\%$ also mean a $\pm 10\%$ fluctuation of lamp power and light output.

► Using IR switches

When using IR sensors, e.g. in combination with the Multiswitch or the integrated sensor of CabLite / Innoline, make sure that the infrared beam is reflected cleanly to the receiver. High-gloss or strongly frosted surfaces and incorrect mounting distances can lead to faults. Please use the reflective stickers provided.

► Blinking LED lights

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

► Malfunction or different levels of brightness in LED Versa strips

When you connect sections of the Versa Inside strips, you need to ensure that the connectors have the correct polarity and are firmly seated.

► Binning for consistent product quality

In the industrial production of LED chips, minor deviations in the manufacturing process cannot be avoided. The photometric properties of the chips therefore might differ in colour and luminosity. To ensure a constant light quality with the same brightness level and uniform light colour, the LEDs of a batch must be sorted. They are divided into selection classes, called "bins". The main selection criteria are chromaticity, luminous flux (unit: lumen) and colour temperature (unit: Kelvin). This is why a 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 try to avoid frequent bin changes, and for many lights types we already offer "single binning" – i.e. products that are fitted with LEDs from the same bin or selection.

► Replacing LED light bulbs

LED light bulb replacement is not provided.

► Care and maintenance

Please only clean your light in OFF state.

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 radiation that can 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 fall within the regulations of the Waste Electrical and Electronic Equipment Act (ElektroG/WEEE). LEDs may therefore not be disposed of with normal household waste. LED lights can be handed in at designated collection points free of charge.

► Safety instructions for installation:

Always follow these instructions and the installation instructions for safe and secure installation and operation of our lamps. 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 a circuit and secure it against unintentional reconnection. Make sure that 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 wattage be exceeded! Lights must be used only for their intended purpose. Interior lighting must not be used outdoors. Lights must not be covered by any objects.

Caution! Damaged outer flexible cables of lights may only be replaced by a qualified electrician or the manufacturer.



Ecodesign Directive

► Ecodesign Directive

All lights and lamps presented in this catalogue conform to the EU Directive 1194/2012 (Ecodesign Directive). The directive came into force on 1 September 2013 and specifies the minimum requirements for lamp survival factor, lumen maintenance and colour rendering. If you want to sell our lights directly to end users, you will receive upon request the necessary information for creating an energy efficiency label according to EU Regulation No. 874/2012 (energy labelling). LED lights are the most economical lighting solutions available today. Given their excellent energy balance and extremely long life, LED lights allow for trouble- and maintenance-free operation for many years.

The longer they are in use, the greater the economic and environmental benefit.

This is why LEDs are the future of lighting.

► Life span of an LED light

As with most electrical devices, the LED is subject to ageing when operated. During this process, the luminous intensity of the LED is gradually reduced.

Halemeier determines the light value of its products based on a residual brightness rate of 70% (delivery state). This often marks the end of the useful life of a product for functional lighting. Once this point is reached, the LED light is still working, albeit with reduced brightness. It can thus still be used for many years for accent lighting. Total failures occur very rarely with LEDs, and are usually due to incorrect operating conditions or thermal overload.

Please note: Life span information is worthless if the percentage of residual brightness is not specified. Since there is no compulsory standard here, manufacturers are allowed to specify LED lifetimes themselves. This should be taken into account when choosing your product.

Manufacturers of conventional lights determine the lifetime of their products by having them tested under standardized conditions until the end of their life span.

LEDs have a much longer lifetime than other light sources; it is however generally not possible to carry out measurements until the end of their service life. Long-term tests merely allow for the estimation of the expected lifetime, based on extrapolation.

Halemeier relies on the documentation of leading LED manufacturers and also tests its finished products at its own lab. Due to component tolerances and environmental influences, we specify only a typical life expectancy and no minimum guaranteed lifetime.

► Other technical data in this catalogue

In its catalogues, Halemeier only quotes technical data that has been measured in its own lab at the finished product.

Three-year warranty on catalogue products

Applies to Halemeier LED lights, LED ballasts (electronic ballasts) and system accessories purchased from 1 May 2017.

In addition to the statutory product warranty, Halemeier grants a warranty period of three years from the date of purchase on all Halemeier LED lights, LED ballasts and system accessories, provided that they are installed and operated in systems composed exclusively of Halemeier products. Batteries are excluded from this warranty.

In the unlikely event that a Halemeier LED light, ballast or system accessory fails due to a product defect within the warranty period of three years from the date of purchase, the purchaser is entitled to a replacement or repair free of charge. Should the product be no longer available, Halemeier reserves the right to reimburse the purchase price of the original product. Please note that a gradual reduction in luminous flux is a normal feature of LED products (down to 30% within the specified service life) and does not constitute a defect covered by warranty.

The extended warranty cover only applies to Halemeier LED lights, ballasts and system accessories and is subject to correct installation and commissioning according to the installation instructions shipped with the product. Modifications or repairs carried out by third parties shall void all warranty. Do not expose the product to mechanical stress that is outside the scope of normal and proper operation. Ensure that the ambient temperature does not drop below -20°C or exceed +30°C. The relative air humidity must not be higher than 80%, and the products must not be exposed to voltage fluctuations of more than 10%.

The Philips licensing program Portfolio of innovative technologies

Halemeier is a licensee of the Philips LED licensing program and thus benefits from a range of advantages and innovative features, as only licensees can avail of the extensive program with more than 200 Philips lighting innovations –from basic LED controls to advanced system-level technologies for LED lights and retrofit lamps. We are therefore in a position to accelerate our product development, avail of additional cost efficiencies and exploit new opportunities in an expanding market.

We reserve the right to change the technical design of our products, in line with new knowledge and technologies. Combined with the fact that the luminous flux of LED lights changes over their lifetime, the lighting properties of replacement lights might differ somewhat from the original product.

Modifications or repairs made to the products, incorrect installation or installation by an unqualified person shall void all warranty. The warranty does not cover auxiliary costs arising in connection with repairs (e.g. dismantling and installation, transport of defective, repaired or new product, disposal, travel to and from site, etc.).

The liability of Halemeier is limited to manufacturer liability. The above warranty cover is not affected by this limitation of liability. For details, please refer to our General Business Terms and Conditions published at www.halemeier.de



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www.LICHT-IM-MÖBEL.de

Hettich Australia
1 Herbert Place
Smithfield NSW 2164

Tel: 02 961 67700
Free Phone 1800 HETTICH
Fax: 02 96167778

hettich.com.au

Hettich New Zealand
18 Barmac Place
East Tamaki Aukland

Tel: 09 2747374
Free Phone 1800 HETTICH
Fax: 09 2747847

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