



magic Lights

Your furniture in the very best light





MAGIC FOR EVERY MOOD.

IT'S ALL IN
HETTICH


Hettich



Hettich is a 136 years old family owned German lifestyle brand, being one of the world's largest manufacturers of Furniture Fittings and Hardware with sales exceeding 1.5 billion Euros. It has presence in about 80 countries with over 8000 employees taking up the challenge of developing intelligent technology for furniture to create magical interior experiences for its customers.

In India, Hettich started operations with the dawn of the new millennium and within a short span of time gained undisputed leadership position in the Indian furniture fittings & hardware industry.

Hettich has state-of-the-art manufacturing capabilities globally including India, which enable it to manufacture worldclass products both for the domestic and overseas markets. Its manufacturing facilities include three plants at Vadodara, Gujarat and one at Indore in Madhya Pradesh with another one in the pipeline. The company is firmly committed to the clarion call for Atmanirbhar Bharat by pursuing the philosophy of 'Make in India. Make for the World.'





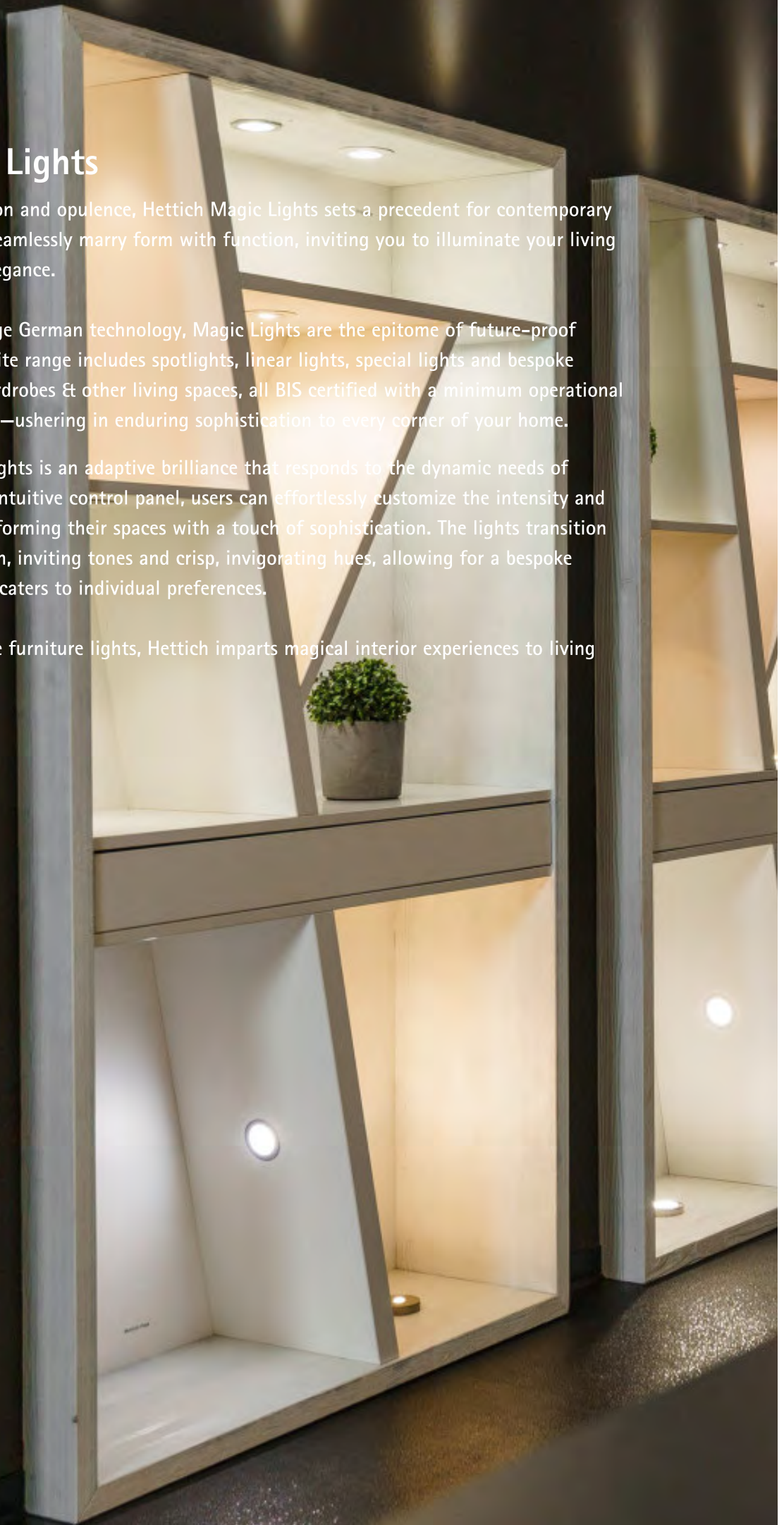
About Magic Lights

A symphony of innovation and opulence, Hettich Magic Lights sets a precedent for contemporary lighting solutions that seamlessly marry form with function, inviting you to illuminate your living spaces with unrivaled elegance.

Crafted with cutting-edge German technology, Magic Lights are the epitome of future-proof illumination. This exquisite range includes spotlights, linear lights, special lights and bespoke options for kitchens, wardrobes & other living spaces, all BIS certified with a minimum operational lifespan of 40,000 hours—ushering in enduring sophistication to every corner of your home.

At the heart of Magic Lights is an adaptive brilliance that responds to the dynamic needs of modern living. With an intuitive control panel, users can effortlessly customize the intensity and color temperature, transforming their spaces with a touch of sophistication. The lights transition seamlessly between warm, inviting tones and crisp, invigorating hues, allowing for a bespoke lighting experience that caters to individual preferences.

With the launch of these furniture lights, Hettich imparts magical interior experiences to living spaces effortlessly.





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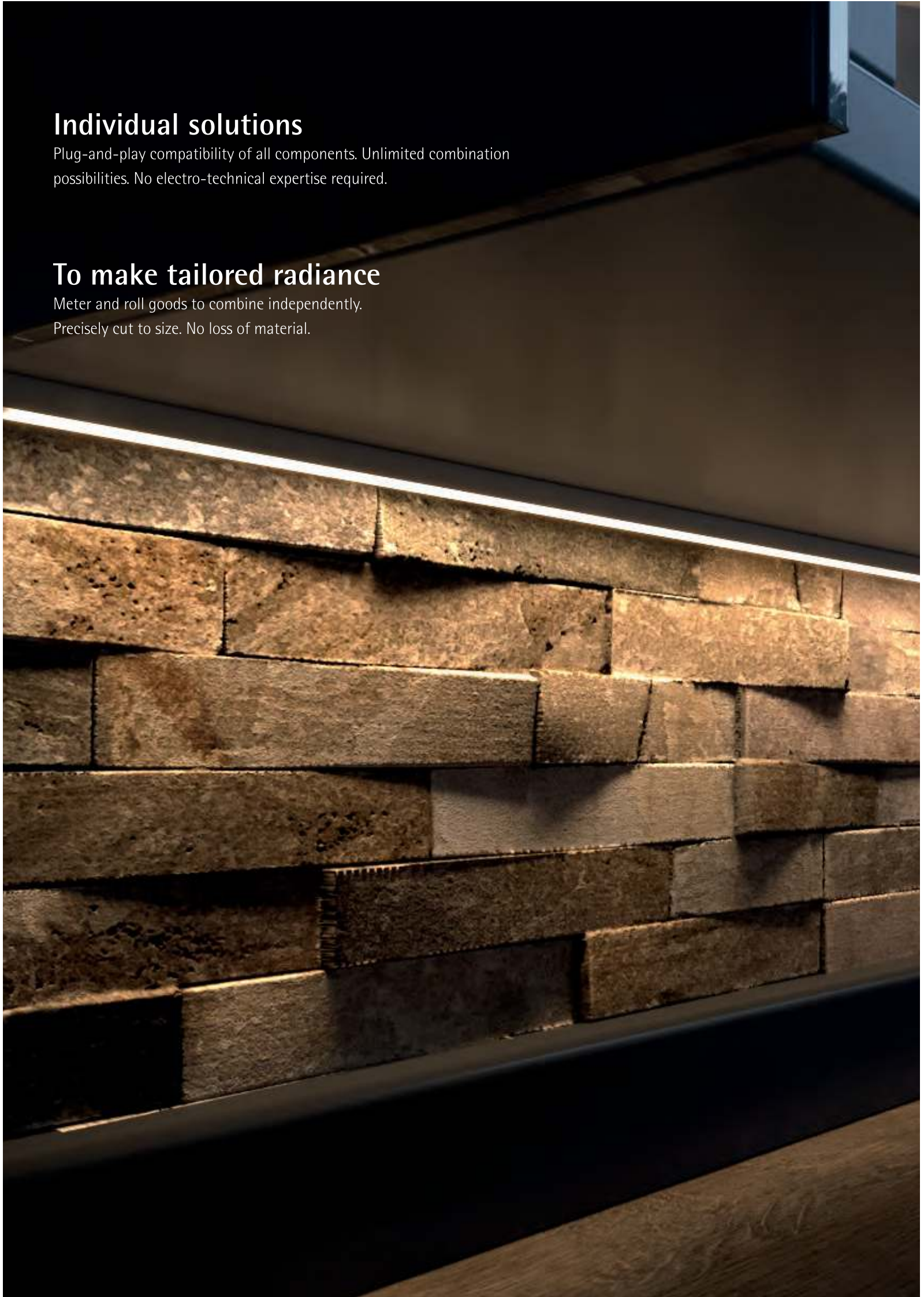


Individual solutions

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

To make tailored radiance

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'.

Consulting

Your customers have bigger plans for you. Involve us at an early stage to put your future projects on a technically sound foundation.







Clean lines

Magic Lights shows your furniture
in their best light.

Simple. Functional. Decorative.



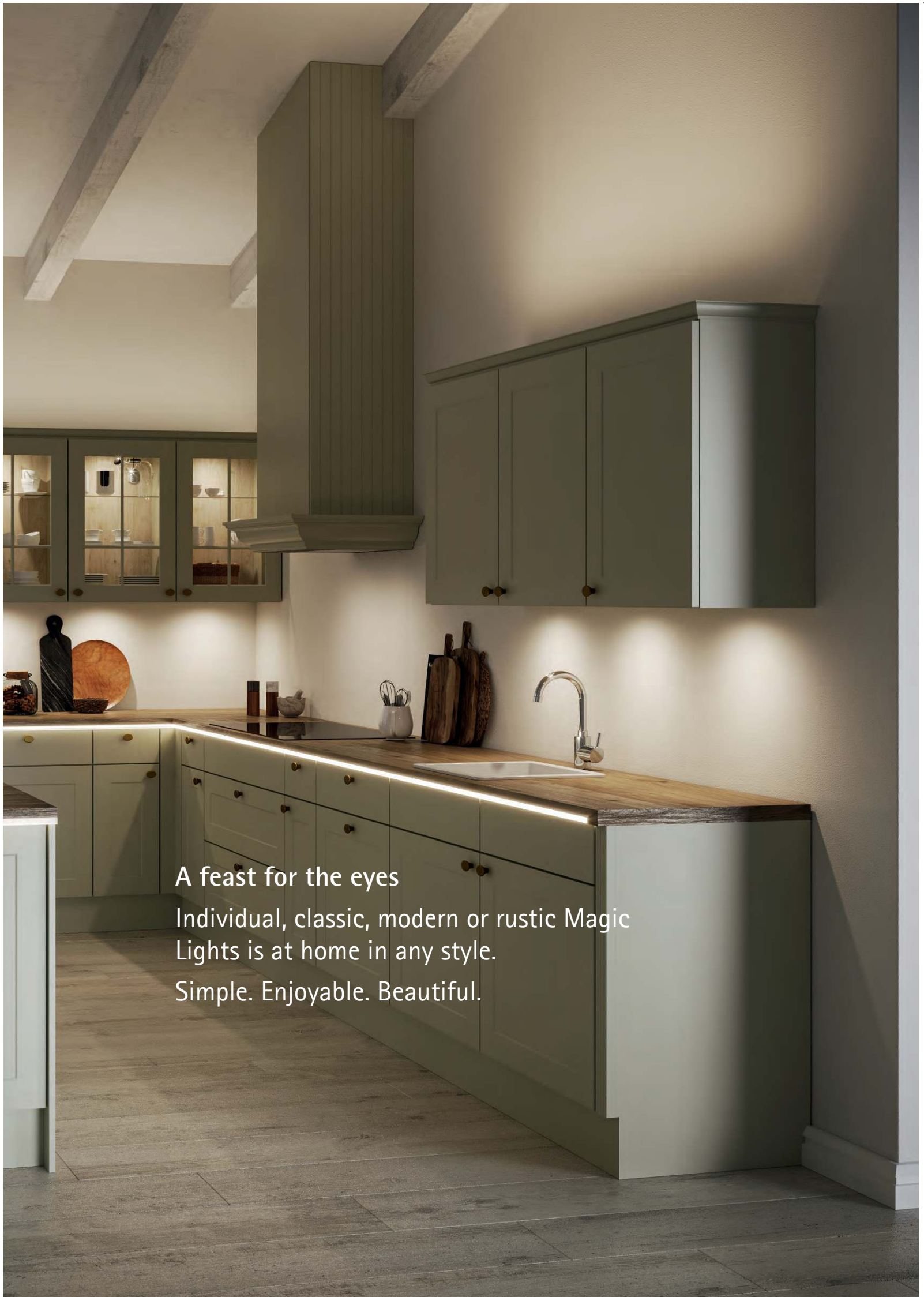


Feel-good factor
Magic Lights embellishes the interior
& makes your clothes shine on stage.
Simple. Surprising. Perfect.









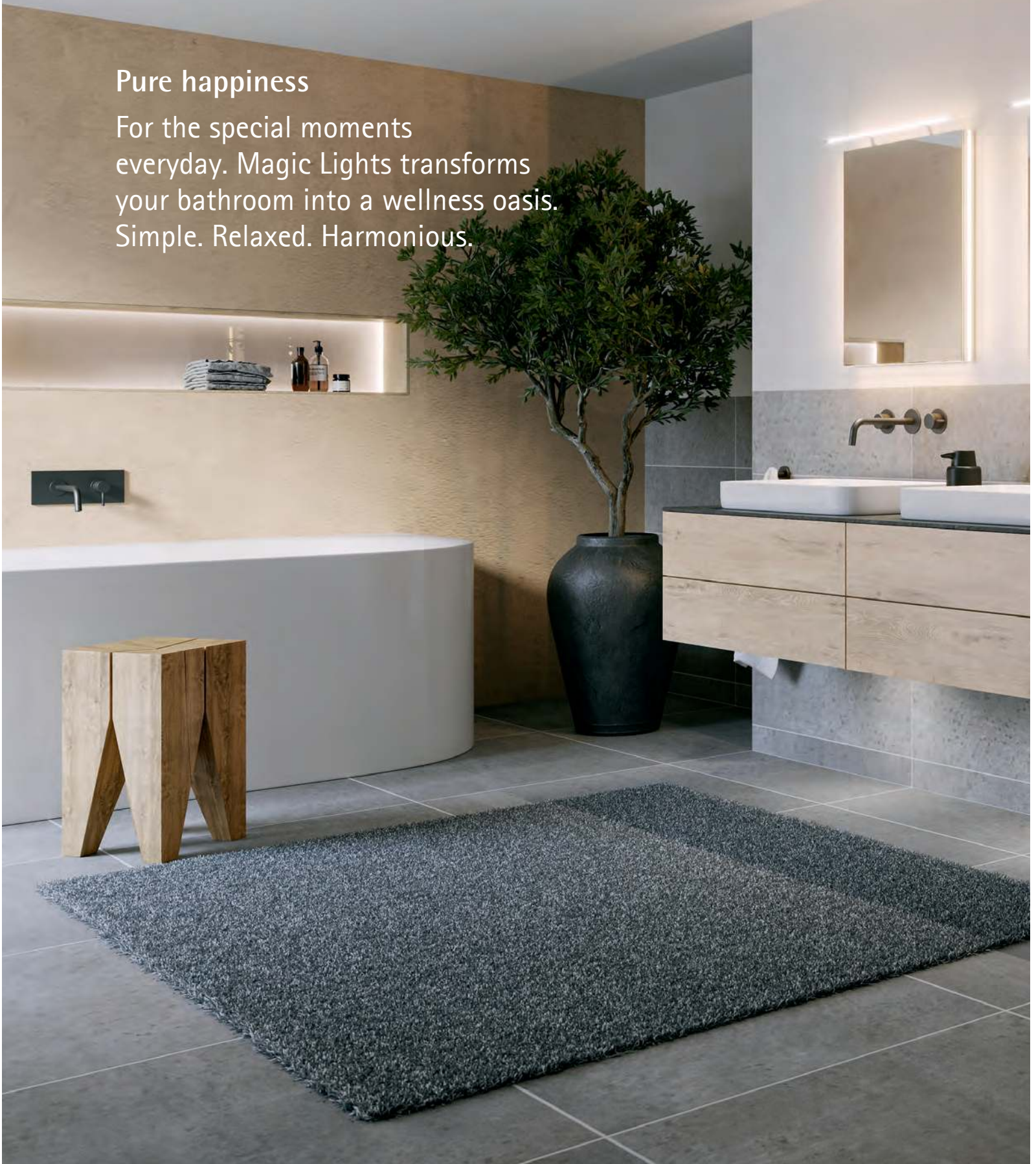
A feast for the eyes
Individual, classic, modern or rustic Magic
Lights is at home in any style.
Simple. Enjoyable. Beautiful.

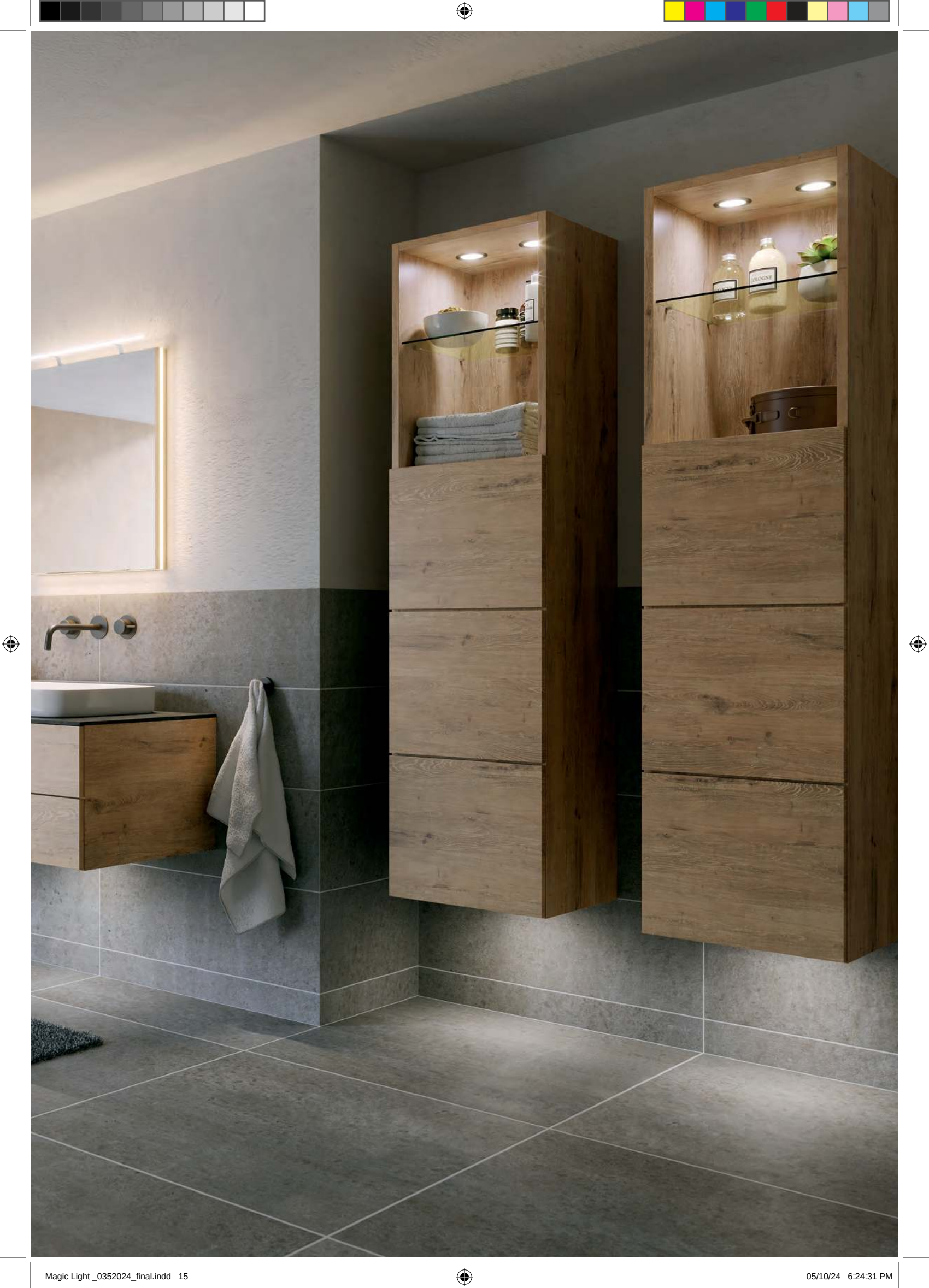




Pure happiness

For the special moments
everyday. Magic Lights transforms
your bathroom into a wellness oasis.
Simple. Relaxed. Harmonious.







Linear lights

Versa

means versatility. These LED strips are particularly flexible, they can be shortened and they are available in various light colours. The decorative Channelline profiles match them perfectly.





Linear lights

The choice is yours.
On the following pages
you will find:

- Ready-to-install linear luminaires that can be shortened for individual body dimensions
- LED strips and profiles can be shortened to the required dimension for the construction of an individual luminaire, from quantity 1



Icon "Saw" identifies products that
can be cut to size





Linear lights

Overview of Versa strips

Model	Versa Inside 80	Versa Inside 120	Versa Inside 160	Versa Linear (COB)
				
Voltage	12 V	12 V	12 V	12 V
Illuminance at a distance of 50 cm	360 lux	525 lux	700 lux	550 lux
Output per m	4.8 W/m	7.2 W/m	9.6 W/m	10 W/m
Luminous flux per m	600 lm/m	900 lm/m	1200 lm/m	1000 lm/m
Light source efficiency	125 lm/W	125 lm/W	125 lm/W	100 lm/W
Light colour*	WW NW	WW NW	WW NW MW	WW
Colour rendering/CRI	RA > 90 (R9 > 60)			RA > 90 (R9 > 60)
Strip length	5000 mm		3000 mm (12 Volt DC)	3000 mm
Max. length at a stretch	7000 mm	5000 mm	3750 mm (12 Volt DC)	3600 mm
LEDs per m	80	120	160	LED not visible
Can be cut every	50 mm	33 mm	25 mm (12 Volt DC)	25 mm
Direct connector	9315676 (1 piece) 9310032 (10 pieces)			9321363 (1 piece)
Flexible connector 50 mm	9315677(1 piece) 9310033 (10 pieces)			9321364 (1 piece)
Flexible connector 150 mm	9310240(1 piece) 9326308(10 pieces)			9321365 (1 piece)
Feeder for sections with clip connector			9310035 (12 Volt DC)	9321366
Width / Height	7.5 mm / 2 mm			8 mm / 2 mm
IP rating	IP 20			IP 20

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





Linear lights

Product range overview



Versa Inside 80
Page no. 20-21

12 V



Versa Inside 120
Page no. 22-23

12 V



Versa Inside 160
Page no. 24-25

12 V



Versa Linear
Page no. 26-27

12 V



Versa Up & Down 80
Page no. 28-29

12 V





Linear lights



Versa Inside 80

Advantages

- Uniform light distribution
- More efficient
- More light
- Less power consumption

Examples of use

- Universal application
- Accent lighting in the living area

Order information

- For selection see Versa & Channelline overview

Features

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

Article no.	Product description	Qty	Unit	PU	MRP
9335232	Versa Inside 80, 12VDC WW, L=5m, 4.8W/m, Lead 2x1.8m	1	Pc	1	5,450
9335231	Versa Inside 80, 12VDC NW, L=5m, 4.8W/m, Lead 2x1.8m	1	Pc	1	5,450

Accessories

Article no.	Product description	Qty	Unit	PU	MRP
9315676	Direct Connector (Max.36 Watt)	1	Pc	1	110
9315677	Flexible Connector, L=50mm (Max. 36 Watt)	1	Pc	1	240
9310240	Flexible Connector, L=150mm (Max. 36 Watt)	1	Pc	1	270
9310035	Feeder, L=1800mm (Max. 36 Watt)	1	Pc	1	340
9310032	Direct Connector (Max.36 Watt)	10	Pc	1	950
9310033	Flexible Connector, L=50mm (Max. 36 Watt)	10	Pc	1	2,450
9326308	Flexible Connector, L=150mm (Max. 36 Watt)	10	Pc	1	2,650

Technical details



Luminaire type: Surface-mounted light
Type of lighting: Accent lighting
Operating voltage: 12 V DC
Light colours: WarmWhite/
NeutralWhite

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, RoHS, Energy Star
Supply lead: 1800 mm
Plug connector: LED mini connector M1 (max. 36 W)
Protection rating: IP 20
Connection to: LED ballast

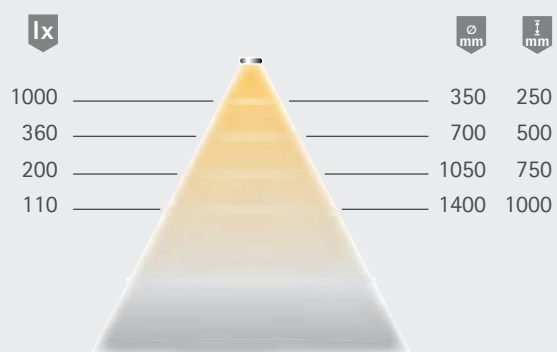
*WW : Warm White
NW : Neutral White





Linear lights

Light distribution diagram 70°

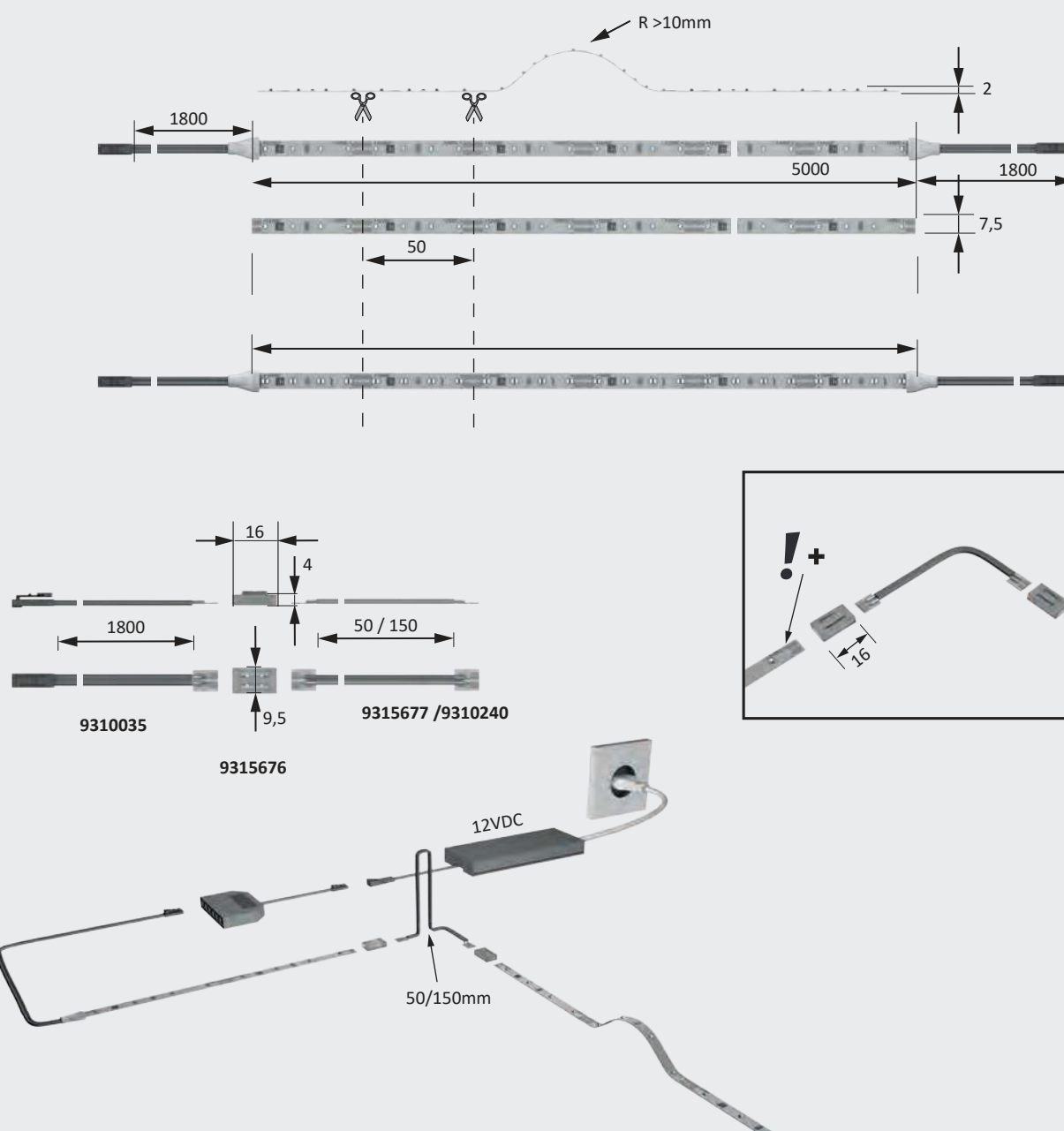


Light box



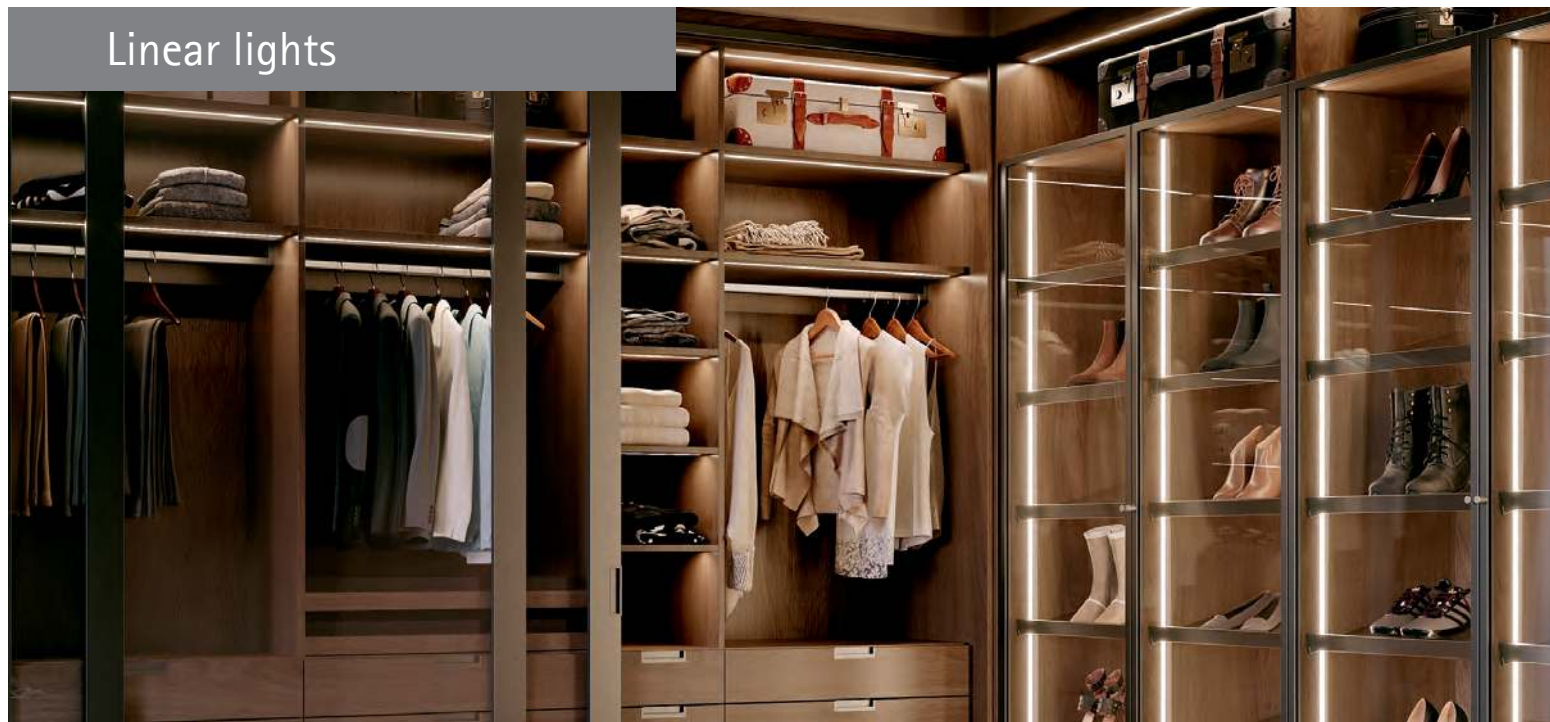
Dimensional drawing / installation

Can be individually cut to size





Linear lights



Versa Inside 120

Advantages

- ▶ Uniform light distribution
- ▶ More efficient
- ▶ More light
- ▶ Less power consumption

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

- ▶ For selection see Versa & Channelline overview

Technical details



Article no.	Product description	Qty	Unit	PU	MRP
9335234	Versa Inside 120, 12VDC WW, L=5m, 7.2W/m, Lead 2x1.8m	1	Pc	1	7,000
9335233	Versa Inside 120, 12VDC NW, L=5m, 7.2W/m, Lead 2x1.8m	1	Pc	1	7,000

Accessories

Article no.	Product description	Qty	Unit	PU	MRP
9315676	Direct Connector (Max.36 Watt)	1	Pc	1	110
9315677	Flexible Connector, L=50mm (Max. 36 Watt)	1	Pc	1	240
9310240	Flexible Connector, L=150mm (Max. 36 Watt)	1	Pc	1	270
9310035	Feeder, L=1800mm (Max. 36 Watt)	1	Pc	1	340
9310032	Direct Connector (Max.36 Watt)	10	Pc	1	950
9310033	Flexible Connector, L=50mm (Max. 36 Watt)	10	Pc	1	2,450
9326308	Flexible Connector, L=150mm (Max. 36 Watt)	10	Pc	1	2,650

Luminaire type:	Surface-mounted light
Type of lighting:	Functional lighting/ accent lighting
Operating voltage:	12 V DC
Light colours:	WarmWhite/ NeutralWhite
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   
Protection rating:	IP 20
Supply lead:	1800 mm
Plug connector:	LED mini connector M1 (max. 36 W)
Connection to:	LED ballast

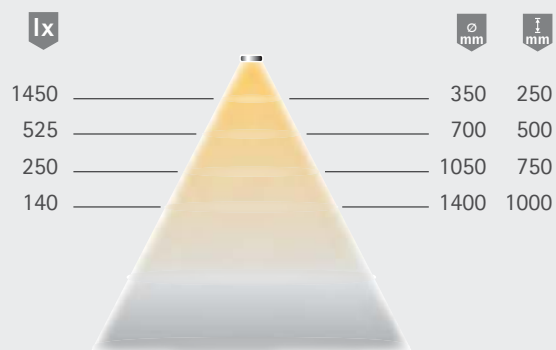
*WW : Warm White
NW : Neutral White





Linear lights

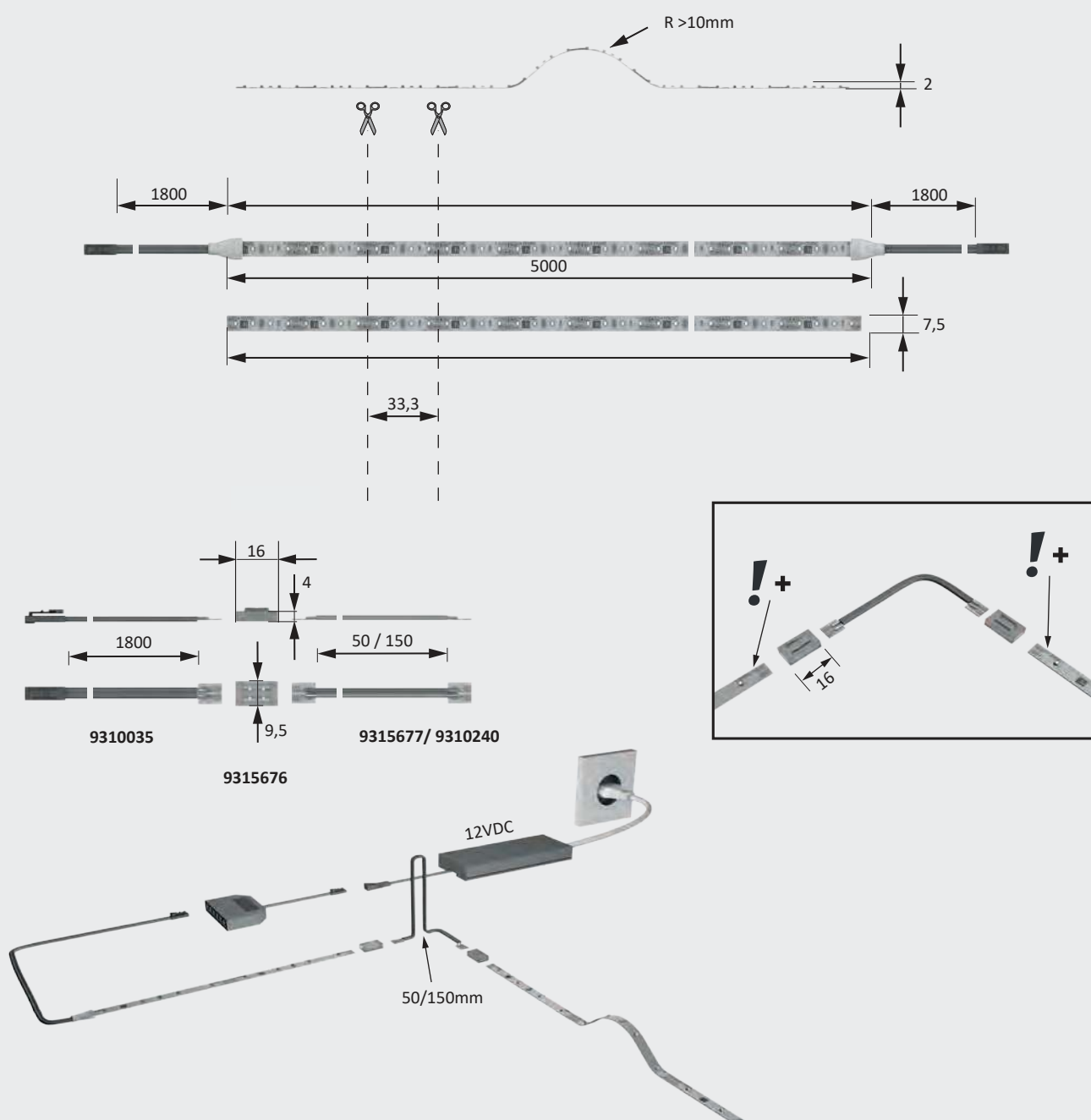
Light distribution diagram 70°



Light box



Dimensional drawing / installation





Linear lights



Versa Inside 160

Advantages

- Uniform light distribution
- More efficient
- More light
- Less power consumption

Examples of use

- Ideal for task and functional lighting

Order information

- For selection see Versa & Channelline overview

Features

- Lead on both sides for the 3000 mm length (one cut, two lights), see drawing

Technical details



Article no.	Product description	Qty	Unit	PU	MRP
9335237	Versa Inside 2x160, 12VDC MW ² , L=3.0m, 9.6W/m, Lead 2x1.8m	1	Pc	1	16,000
9335236	Versa Inside 160, 12VDC WW, L=3m, 9.6W/m, Lead 2x1.8m	1	Pc	1	8,000
9335235	Versa Inside 160, 12VDC NW, L=3m, 9.6W/m, Lead 2x1.8m	1	Pc	1	8,000

Accessories

Article no.	Product description	Qty	Unit	PU	MRP
9315676	Direct Connector (Max.36 Watt)	1	Pc	1	110
9315677	Flexible Connector, L=50mm (Max. 36 Watt)	1	Pc	1	240
9310240	Flexible Connector, L=150mm (Max. 36 Watt)	1	Pc	1	270
9310035	Feeder, L=1800mm (Max. 36 Watt)	1	Pc	1	340
9104773	LED extension M1, L=1800mm	1	Pc	1	440
9310032	Direct Connector (Max.36 Watt)	10	Pc	1	950
9310033	Flexible Connector, L=50mm (Max. 36 Watt)	10	Pc	1	2,450
9326308	Flexible Connector, L=150mm (Max. 36 Watt)	10	Pc	1	2,650

Luminaire type: Surface-mounted light
Type of lighting: Function lighting/ accent lighting
Operating voltage: 12 V DC
Light colours: WarmWhite/ NeutralWhite/ 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:    
Protection rating: IP 20
Supply lead: 1800 mm
Plug connector: LED mini connector M1 (max. 36 W)
Connection to: LED ballast

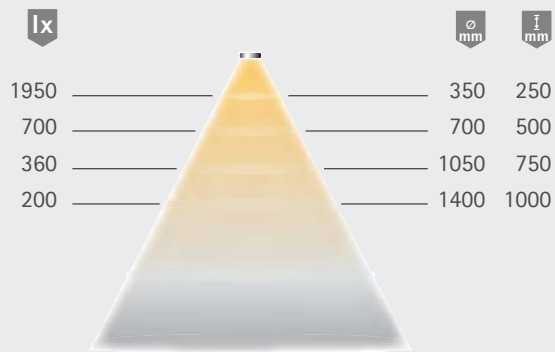
*WW : Warm White
NW : Neutral White
MW : Multi White





Linear lights

Light distribution diagram 70°

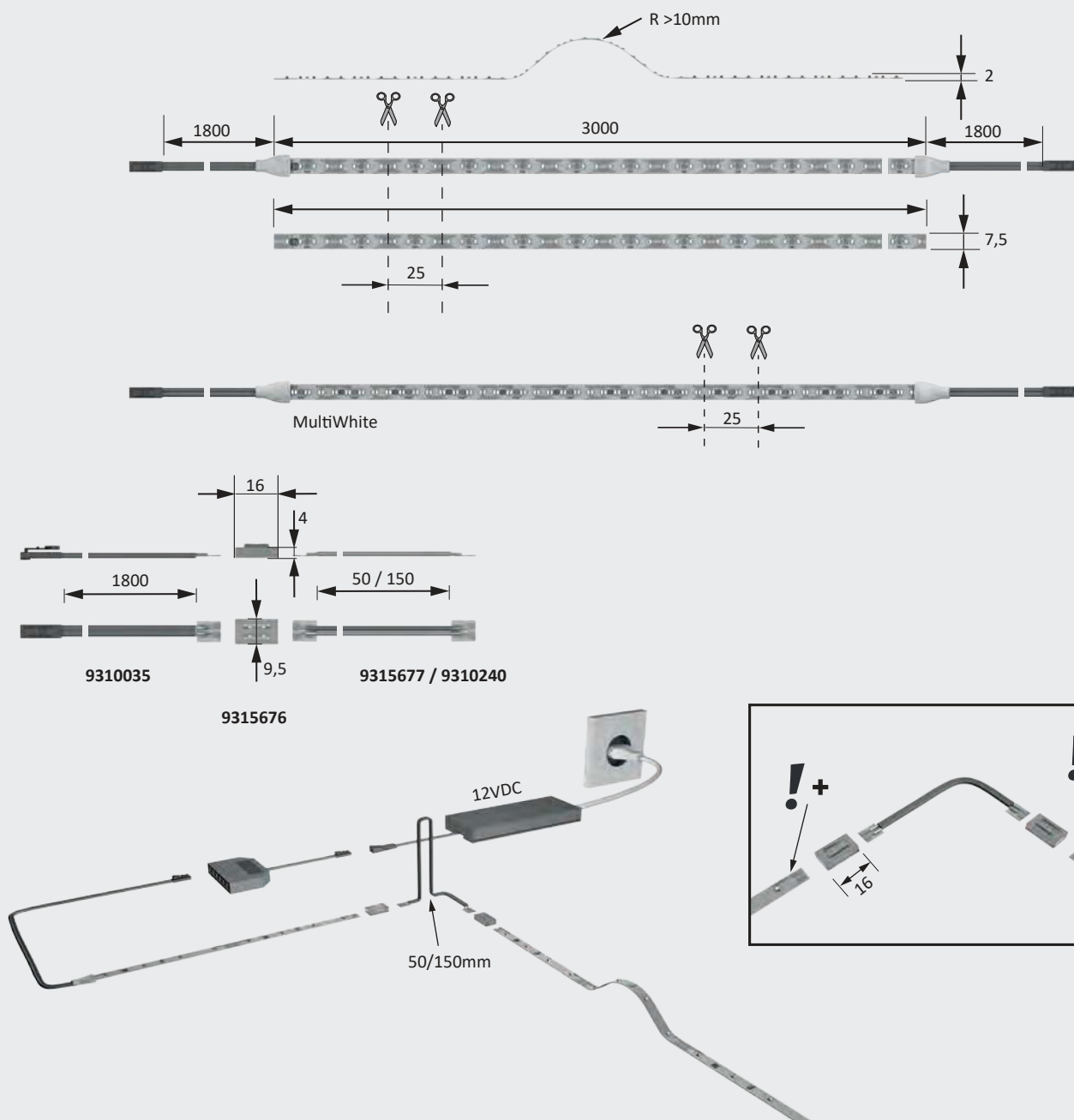


Light box



Dimensional drawing / installation

Can be individually cut to size





Linear lights



Versa Linear

Advantages

- ▶ Extremely uniform, homogeneous luminous surface
- ▶ Equally suited for functional 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 ChannelLine I, I2
- ▶ Suitable for applications where the light source is visible e.g. frame lighting on mirror cabinet

Order information

- ▶ Colour uniformity (chromaticity) may vary
- ▶ For selection see Versa & ChannelLine Overview

Article no.	Product description	Qty	Unit	PU	MRP
9335238	Versa Linear COB, 12VDC WW, L=3m, 10W/m, lead 2x1.8m	1	Pc	1	5,350

Accessories

Article no.	Product description	Qty	Unit	PU	MRP
9321363	Direct connector COB	1	Pc	1	220
9321364	Flexible Connector COB, L=50mm	1	Pc	1	560
9321365	Flexible Connector COB, L=150mm	1	Pc	1	560
9321366	Feeder COB, L=1800mm	1	Pc	1	560
9104773	LED extension M1, L=1800mm	1	Pc	1	440

Technical details



Luminaire type:	Surface-mounted light
Type of lighting:	Function lighting/ Accent lighting
Operating voltage:	12 V DC
Light colours:	WarmWhite
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
Protection rating:	IP 20
Supply lead:	1800 mm
Plug connector:	LED mini connector M1 (max. 36 W)
Connection to:	LED ballast

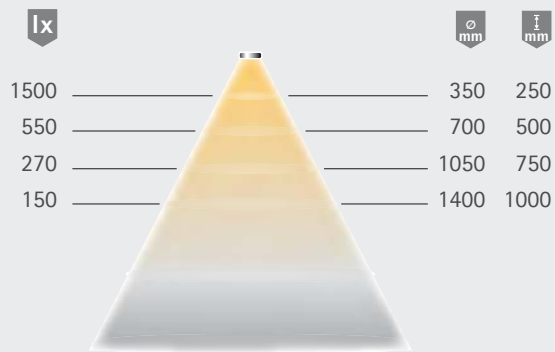
*WW : Warm White





Linear lights

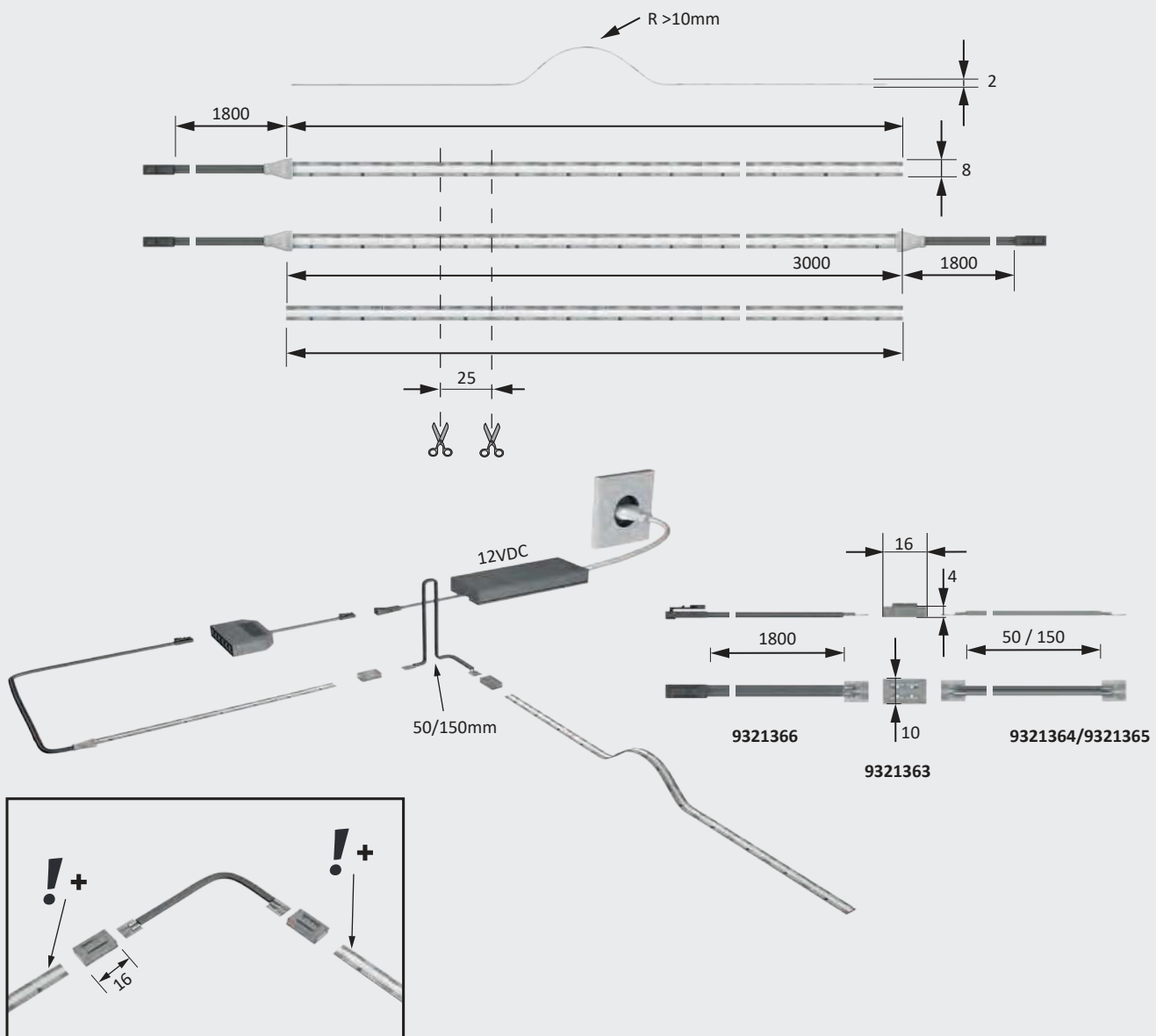
Light distribution diagram 70°



Light box

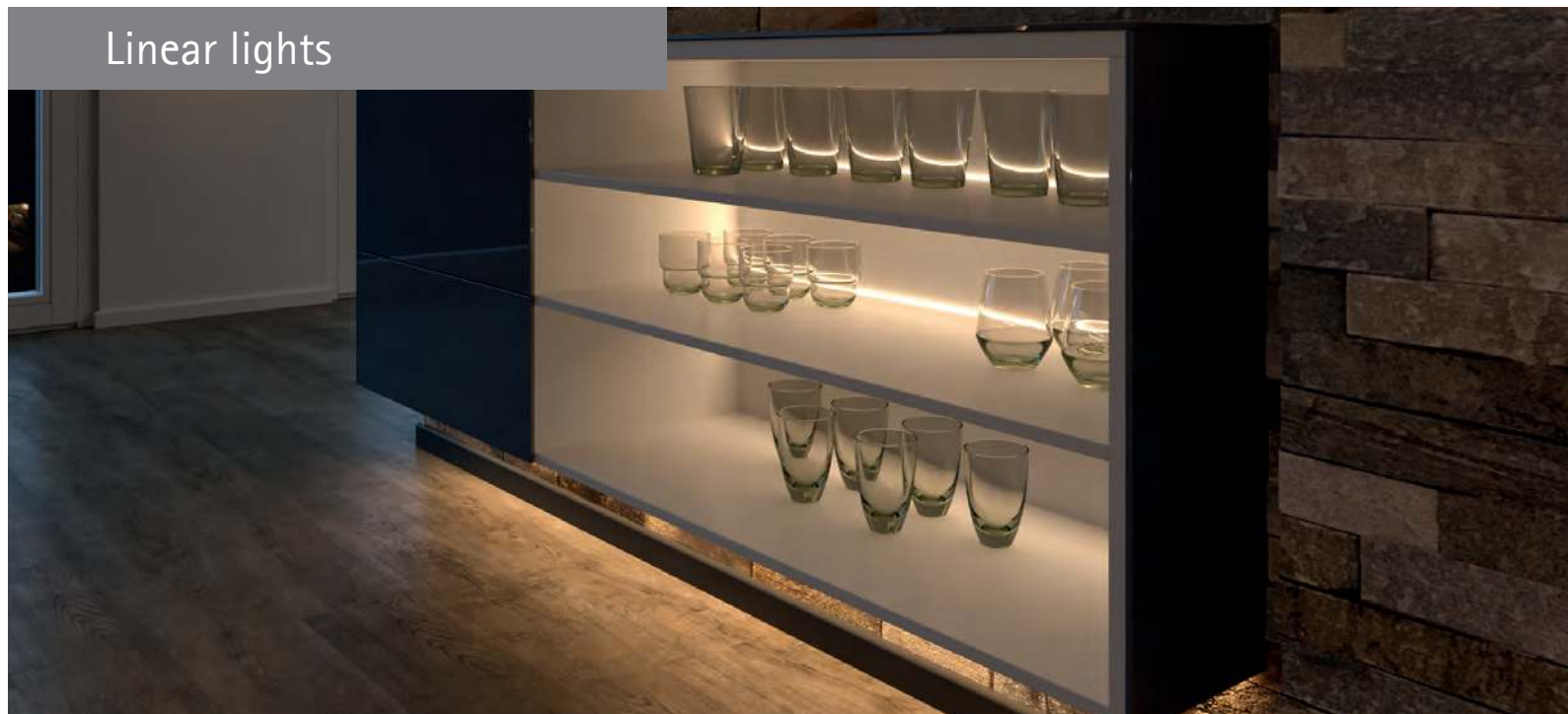


Dimensional drawing / installation Can be individually cut to size





Linear lights



Versa Up&Down 80

Advantages

- Needs hardly any distance to the back wall to create a strong light effect
- Ideal for upgrading finished furniture

Features

- LED lights on both sides (see drawing)
- Lead on both sides for the 3000 mm length (one cut, two lights)
- Low installation height

Examples of use

- Back wall lighting in showcases or shelves

Article no.	Product description	Qty	Unit	PU	MRP
9335240	Versa up&down, 2x80, 12VDC WW, L=3m, 9.6W/m, Lead 2x1.8m	1	Pc	1	10,900
9335239	Versa up&down, 2x80, 12VDC NW, L=3m, 9.6W/m, Lead 2x1.8m	1	Pc	1	10,900

Accessories

Article no.	Product description	Qty	Unit	PU	MRP
9315676	Direct Connector (Max.36 Watt)	1	Pc	1	110
9315677	Flexible Connector, L=50mm (Max. 36 Watt)	1	Pc	1	240
9310240	Flexible Connector, L=150mm (Max. 36 Watt)	1	Pc	1	270
9310035	Feeder, L=1800mm (Max. 36 Watt)	1	Pc	1	340
9310032	Direct Connector (Max.36 Watt)	10	Pc	1	950
9310033	Flexible Connector, L=50mm (Max. 36 Watt)	10	Pc	1	2,450
9326308	Flexible Connector, L=150mm (Max. 36 Watt)	10	Pc	1	2,650

Technical details



Luminaire type: Surface-mounted light
Type of lighting: Accent lighting
Operating voltage: 12 V DC
Light colours: WarmWhite/
NeutralWhite

Colour rendering: RA >90
Luminous flux: 1000 lm/m
Light source efficiency: 104 lm/W
Life span: 40,000 h (L70)
Power consumption: 9.6 W/m
Max. length at a stretch: 3.7 m
Dimmable: Yes/PWM/Smart.home
Number of LEDs: 2 x 80/m
Beam angle: 2 x 90°
Half value angle: 2 x 70°
Test mark and symbols: CE, RoHS, Energy Star
Protection rating: IP 20
Supply lead: 2 x 1800 mm
Plug connector: LED mini connector M1 (max. 36 W)
Connection to: LED ballast

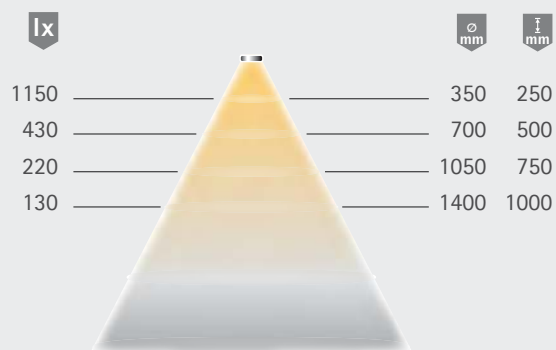
*WW : Warm White
NW : Neutral White



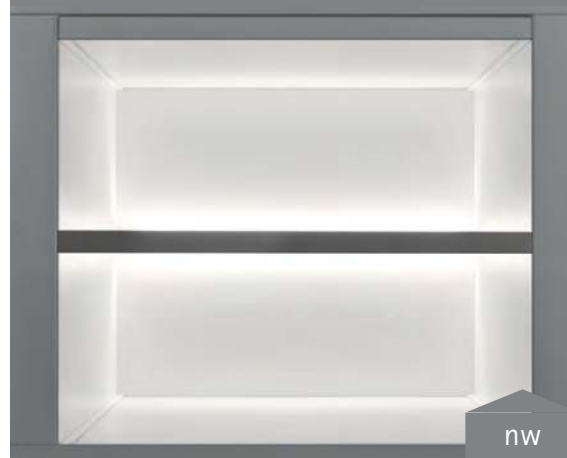


Linear lights

Light distribution diagram 2 x 70°

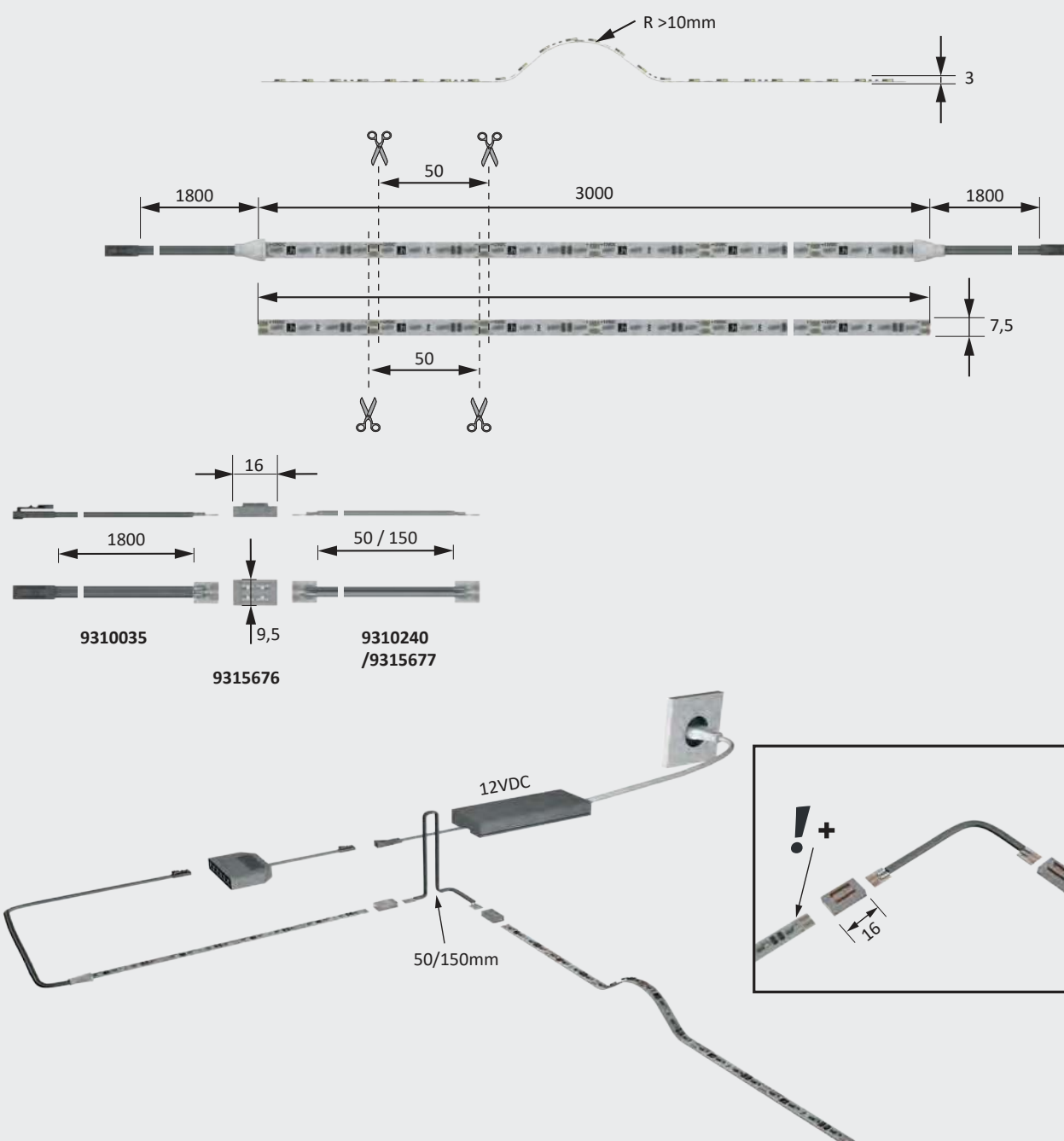


Light box



Dimensional drawing / installation

Can be individually cut to size





ChannelLine profiles





ChannelLine profiles

Description of the different cover profiles

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.





ChannelLine profiles

Recommended combinations of Versa strips in ChannelLine profiles

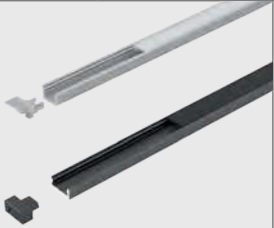
Model		ChannelLine A	ChannelLine B		ChannelLine C / D	
						
Cover		Opal	Opal		Opal	
Advantages		High quality recessed profile Homogeneous and glare-free light line Can be used at sight level	High quality deep recessed profile B with filigree profile trim D2 for flush mounting		High-quality flat recessed / surface-mounted profile C with filigree profile trim D for flush installation	
Applications / product features		Edge lighting for kitchen worktops backlighting	Interior cabinet lighting in the floor, Kitchen niches or top shelves, mirror frame lighting		Interior cabinet lighting in the floor Kitchen niche or top shelves, niches	
Half-value angle		90°	60°		60°	
Versa 80	Type of lighting	Accent light	Accent light		Accent light	
	Light point visibility	Invisible	low	Visible	Visible	
Versa 120	Type of lighting	Accent / functional light	Accent/ functional light	Accent light	Accent / functional light	Accent light
	Light point visibility	Invisible	Invisible	Invisible	Visible	Visible
Versa 160	Type of lighting	Functional light	Functional light	Accent light	Functional light	Accent light
	Light point visibility	Invisible	Invisible	Invisible	Visible	Invisible
Versa Linear (COB)	Type of lighting	Accent / functional light	Accent/ functional light	Accent light	Accent / functional light	Accent light
	Light point visibility	Invisible	Invisible		Invisible	Invisible





ChannelLine profiles

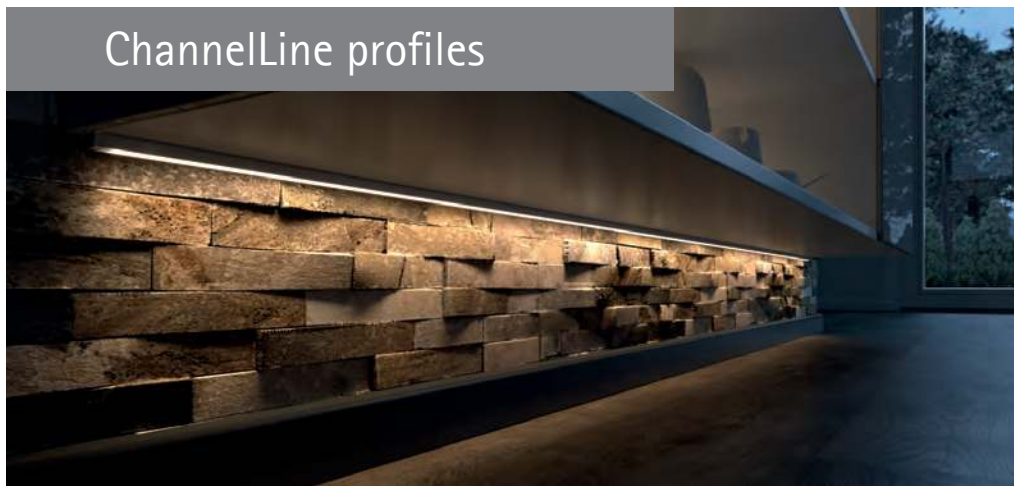
Recommended combinations of Versa strips in ChannelLine profiles

ChannelLine i / i2		ChannelLine G2		ChannelLine H	ChannelLine F
					
Opal		Opal		Opal	Opal
High-quality filigree recessed/ surface-mounted profile 2 with filigree profile trim I for flush mounting		Glare-free and angled light emission G2 with filigree profile trim for flush recessing		Mounting profile for the corner Almost rimless luminous surfaces wide light emission	Beam angle and homogeneity can be varied with the milling depth
Accent lighting in display cabinets or shelves, Staircase steps		Interior cabinet lighting Retrofitting in kitchen niches Product presentation on sales shelves		Furniture corners Kitchen niches	For milling into the wood
60°		Straight 60° Oblique 30°		70°	60°
Accent light		Accent light		Accent light	Accent light
WW		Low	Visible	Low	Low
Accent/functional light	Accent light	Accent/functional light	Accent light	Accent/functional light	Accent/functional light
Visible		Invisible	Low	Invisible	Invisible
Functional light	Accent light	Functional light	Accent light	Functional light	Functional light
Visible		Invisible	Invisible	Invisible	Invisible
Accent/functional light	Accent light	Accent/functional light	Accent light	Functional light	Accent/functional light
Invisible	Invisible	Invisible		Invisible	Invisible



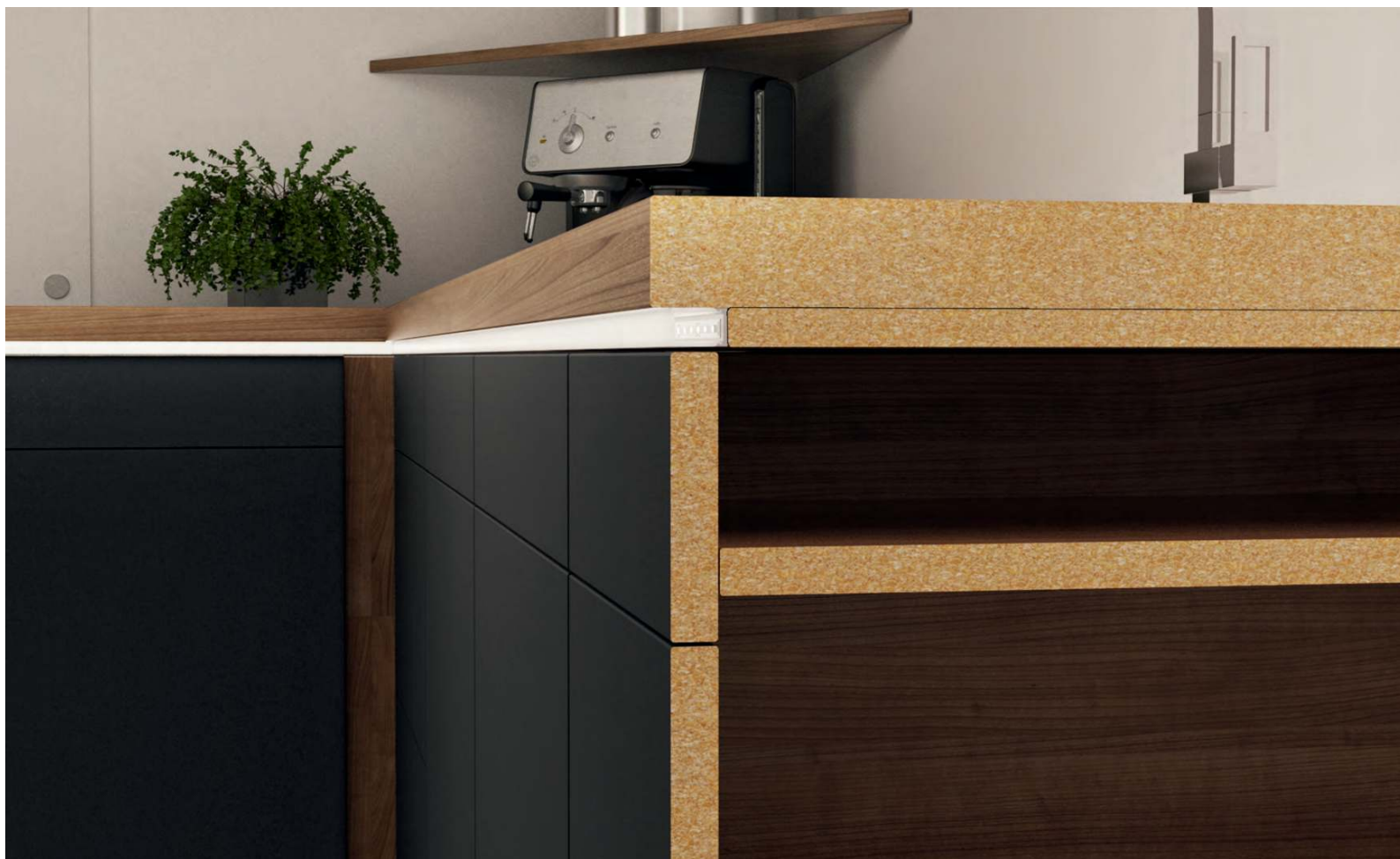


ChannelLine profiles



Versatile Profiles

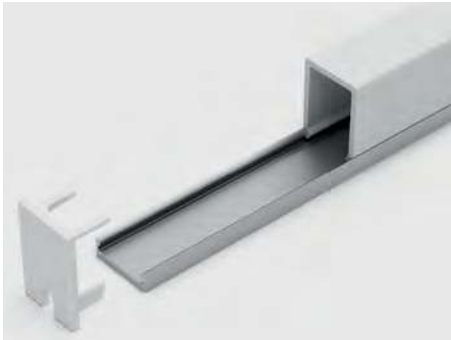
An exquisite
luminary companion





Channelline profiles

Product range overview



Channelline A
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Channelline B
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Channelline C
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Channelline D
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Channelline i
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Channelline i2
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Channelline G2
Page no. 42

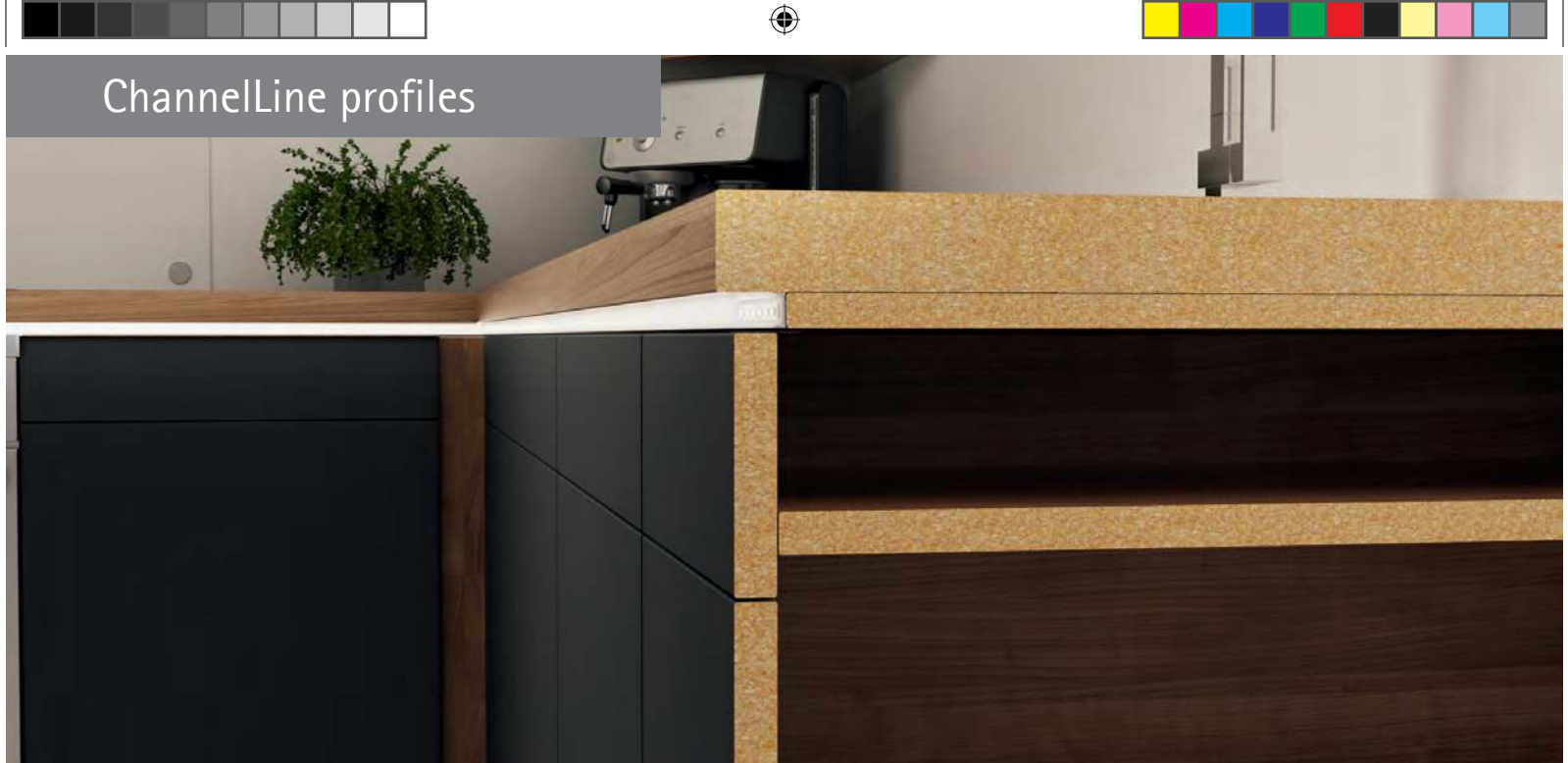


Channelline H
Page no. 43



Channelline F
Page no. 44





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

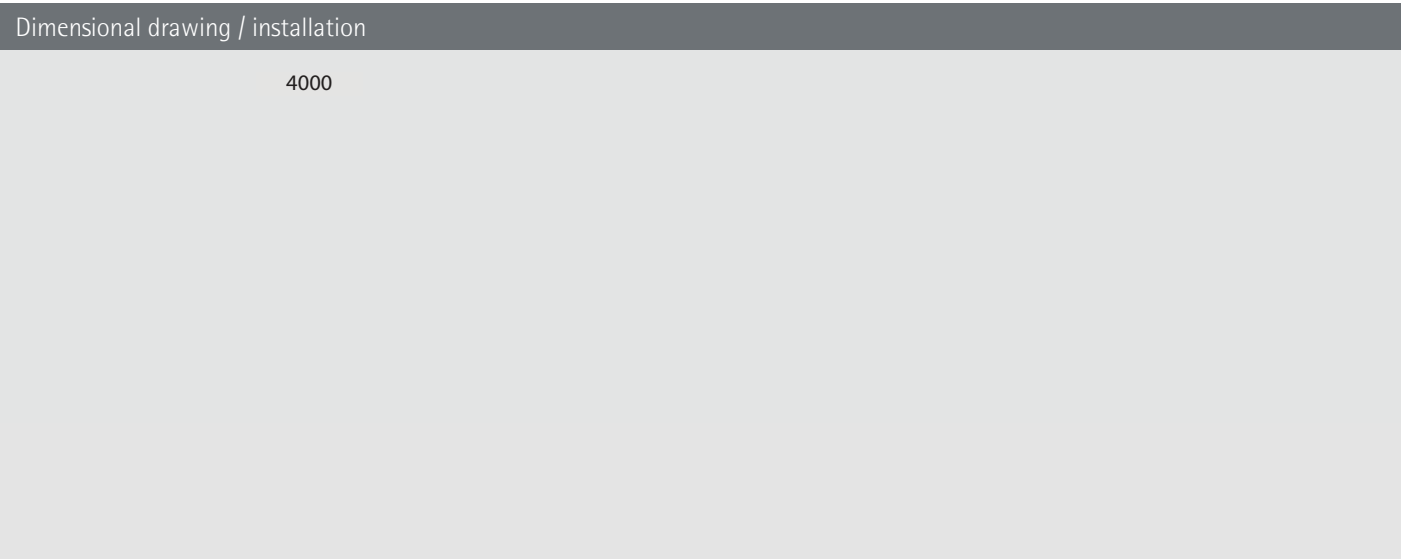
- ▶ Use of feeders and connectors possible in profile
- ▶ For selection see ChannelLine overview

Technical details



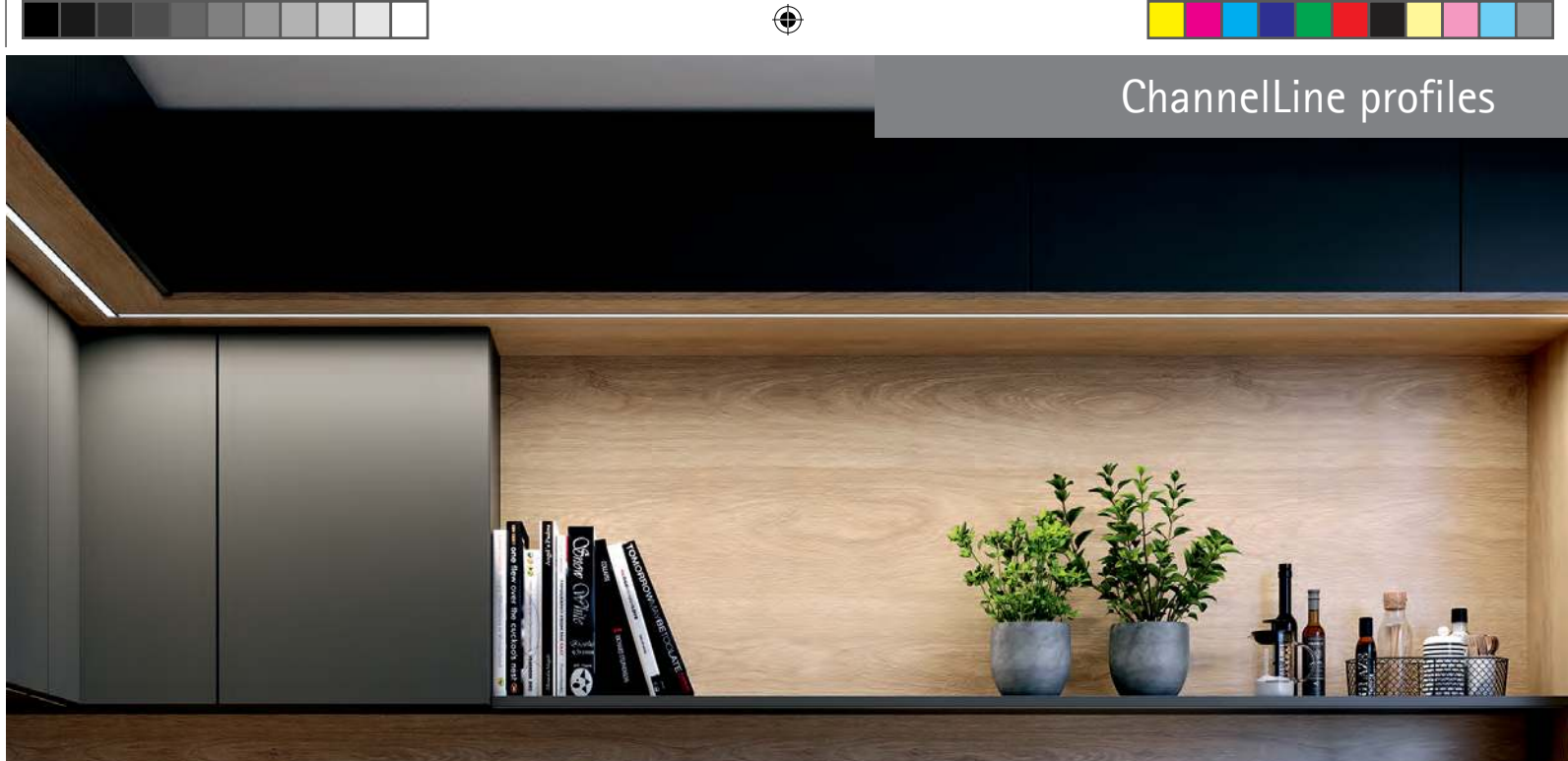
Recommended for:
Versa Inside 80
Versa Inside 120
Versa Inside 160
Versa Linear

Article no.	Product description	Qty	Unit	PU	MRP
9084267	ChannelLine A, L=4000 mm, Alu profile Et Opal Cover	1	Pc	1	9,350
9244246	ChannelLine A End cap (Set of 2 Pc)	1	Set	1	110



Dimensional drawing / installation

4000



Channelline profiles

Channelline B

Advantages

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

Features

- ▶ Homogeneous light line with Versa Inside from 120 LED/m
- ▶ Wide beam angle of approx. 100°

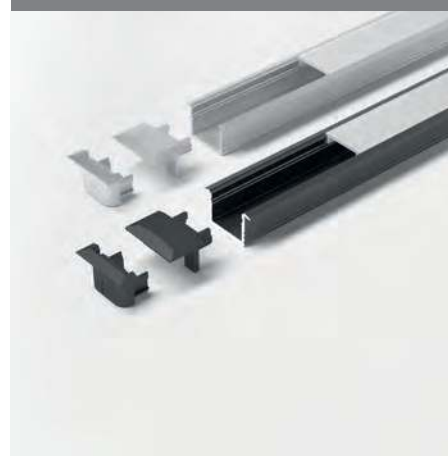
Examples of use

- ▶ 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

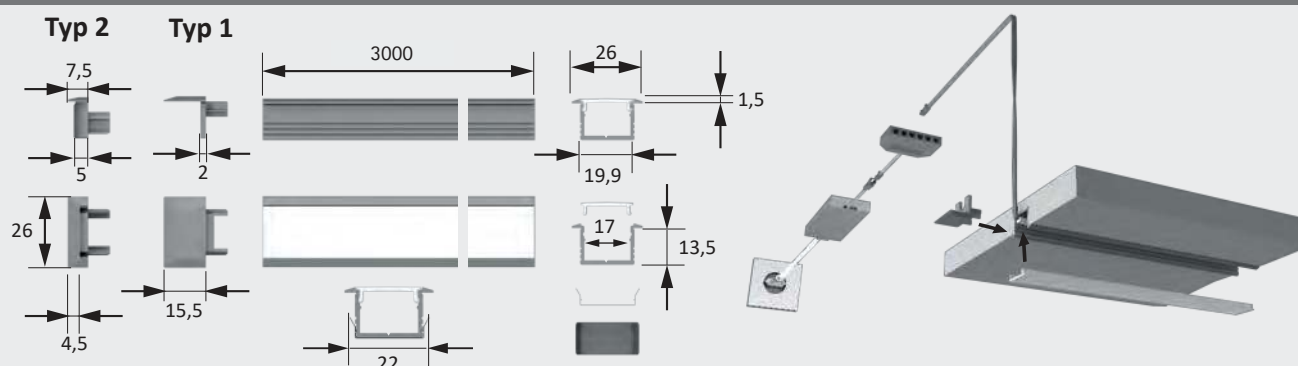
Technical details



Recommended for:
Versa Inside 120
Versa Inside 160
Versa Linear

Article no.	Product description	Qty	Unit	PU	MRP
9308463	Channelline B, L=3000 mm, Alu profile & Opal Cover	1	Pc	1	5,750
9310124	Channelline B End cap Type 2 (Set of 2 Pc), Alu	1	Set	1	190
9310125	Channelline B, L=3000 mm, Black Alu profile & Opal Cover	1	Pc	1	6,400
9310128	Channelline B End cap type 2 (Set of 2 Pc), Black	1	Set	1	190

Dimensional drawing / installation





ChannelLine profiles



ChannelLine C

Advantages

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

Features

- ▶ 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 possible
- ▶ To increase the luminosity, two Versa Inside can be attached side by side
- ▶ For selection see ChannelLine overview

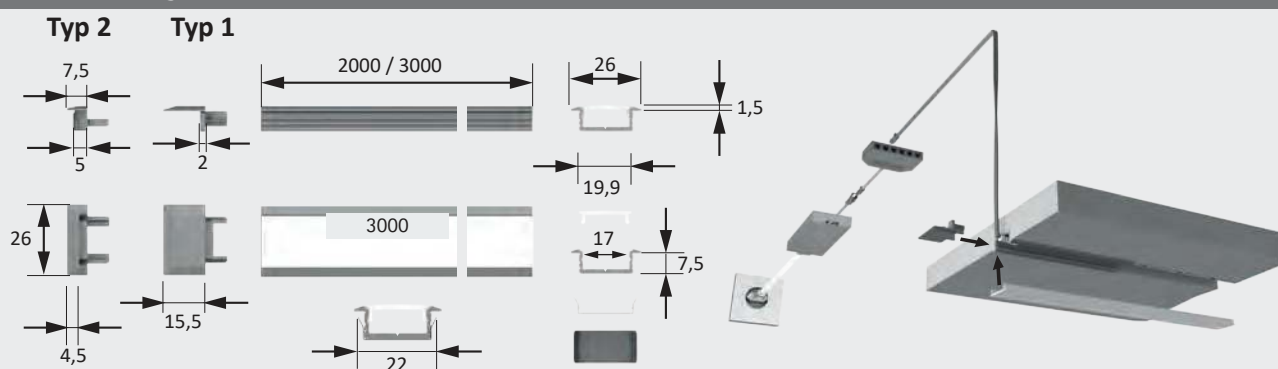
Technical details

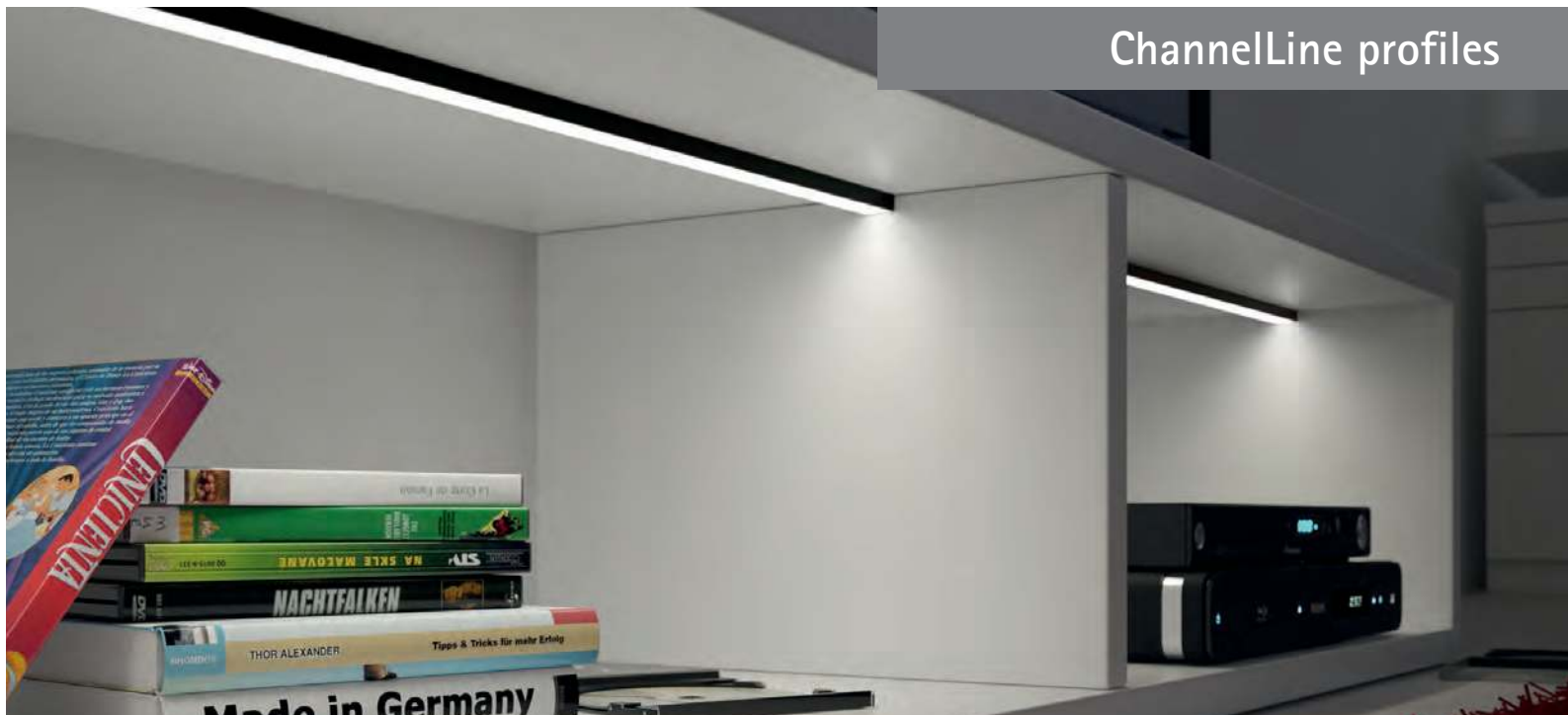


Article no.	Product description	Qty	Unit	PU	MRP
9310129	ChannelLine C, L=3000 mm, Alu profile & Opal Cover	1	Pc	1	5,250
9310130	ChannelLine C End cap Type 2 (Set of 2 Pc),Alu	1	Set	1	190
9310132	ChannelLine C, L=3000 mm, Black Alu profile & Opal Cover	1	Pc	1	6,400
9310135	ChannelLine C End cap type 2 (Set of 2 Pc), Black	1	Set	1	190

Recommended for:
Versa Inside 160
Versa Linear

Dimensional drawing / installation





ChannelLine profiles

ChannelLine D

Advantages

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

Features

- ▶ 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

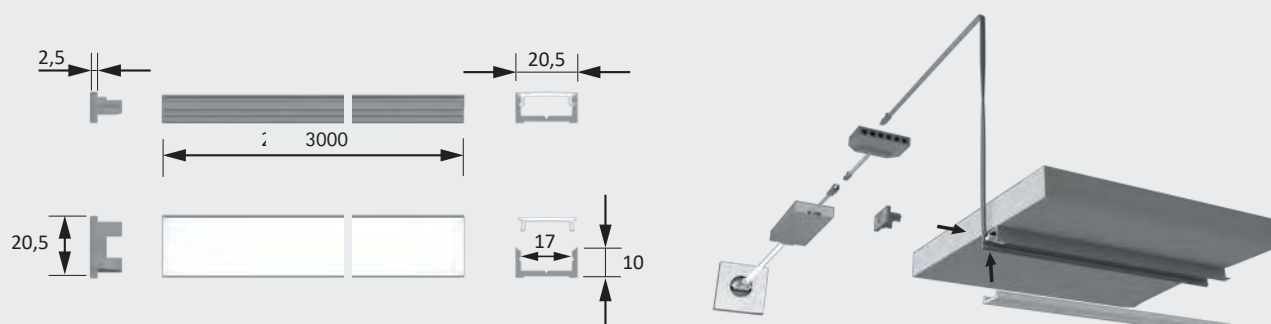
Technical details

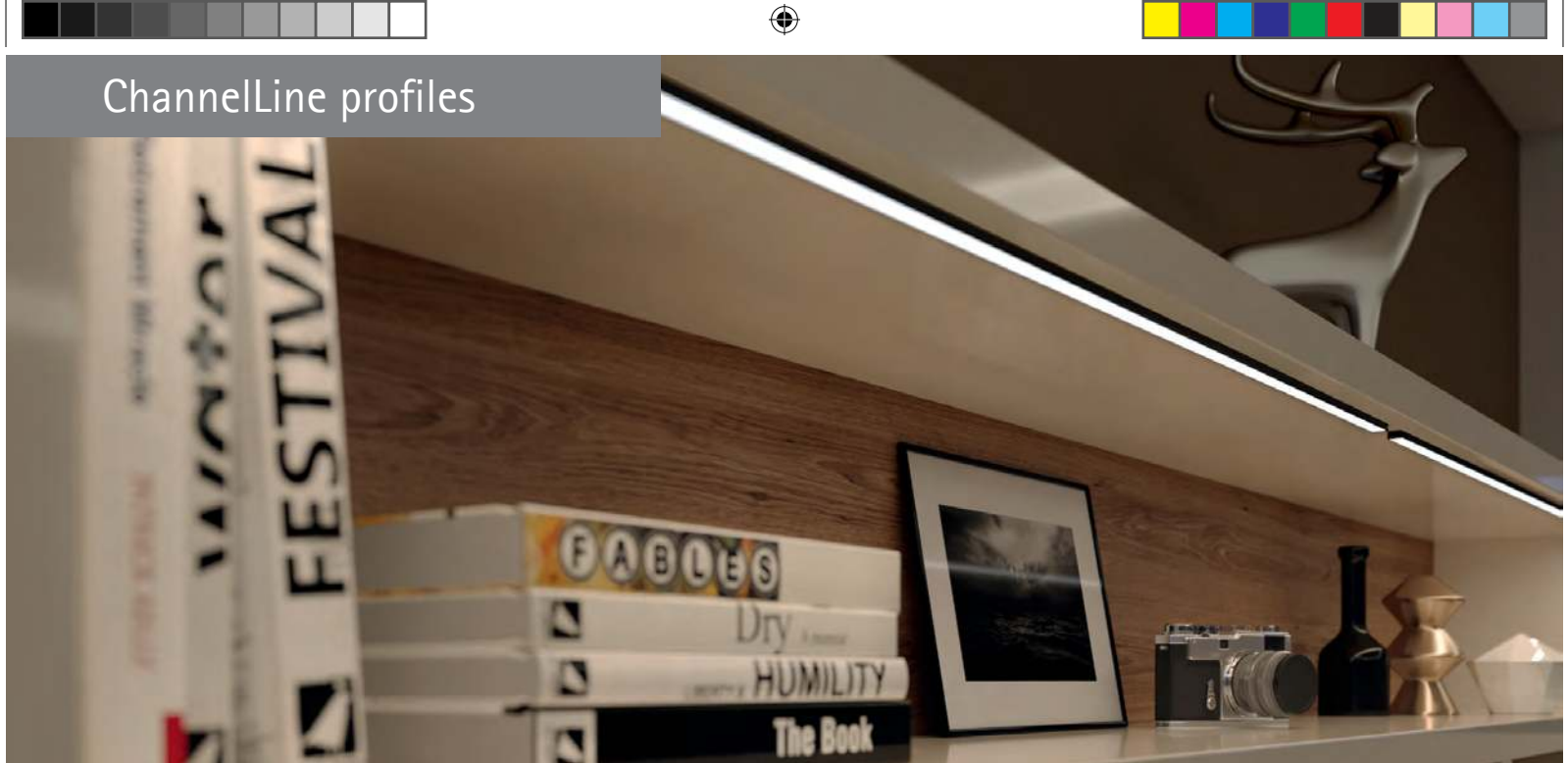


Recommended for:
Versa Inside 160
Versa Linear

Article no.	Product description	Qty	Unit	PU	MRP
9310137	ChannelLine D, L=3000 mm, Alu profile & Opal Cover	1	Pc	1	5,400
9244279	ChannelLine D End cap (Set of 2 Pc), Alu	1	Set	1	150
9310138	ChannelLine D, L=3000 mm, Black Alu profile & Opal Cover	1	Pc	1	5,950
9310139	ChannelLine D (End cap Set of 2 Pc), Black	1	Set	1	150

Dimensional drawing / installation





ChannelLine profiles

ChannelLine i

Advantages

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

Features

- ▶ Homogeneous light line with Versa Linear
- ▶ 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

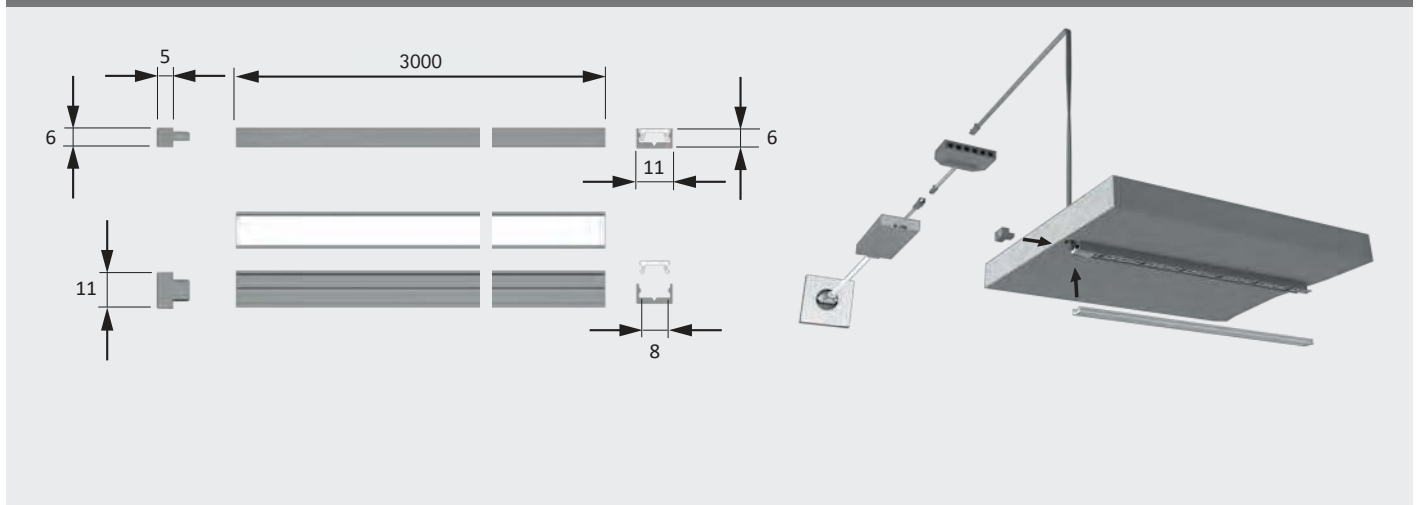


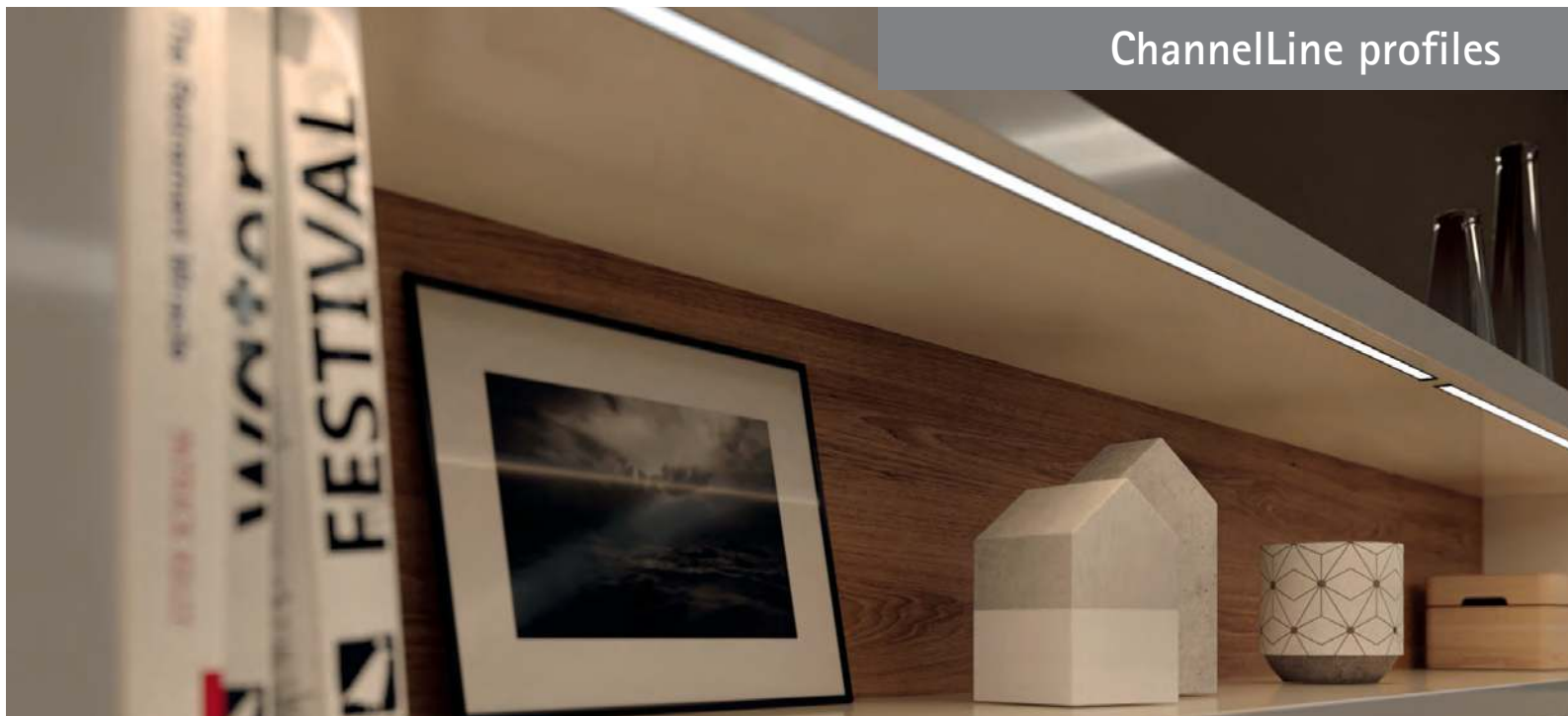
Article no.	Product description	Qty	Unit	PU	MRP
9310141	ChannelLine i, L=3000 mm, Alu profile & Opal Cover	1	Pc	1	4,700
9244281	ChannelLine i End cap (Set of 2 Pc),Alu	1	Set	1	110
9312166	ChannelLine i, L=3000 mm, Black Alu profile & Opal Cover	1	Pc	1	4,850
9312165	ChannelLine i End cap (Set of 2 Pc), Black	1	Set	1	110

Recommended for:
Versa Linear

Note: Direct Connector Not recommended for ChannelLine i

Dimensional drawing / installation





ChannelLine profiles

ChannelLine i2

Advantages

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

Features

- ▶ 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

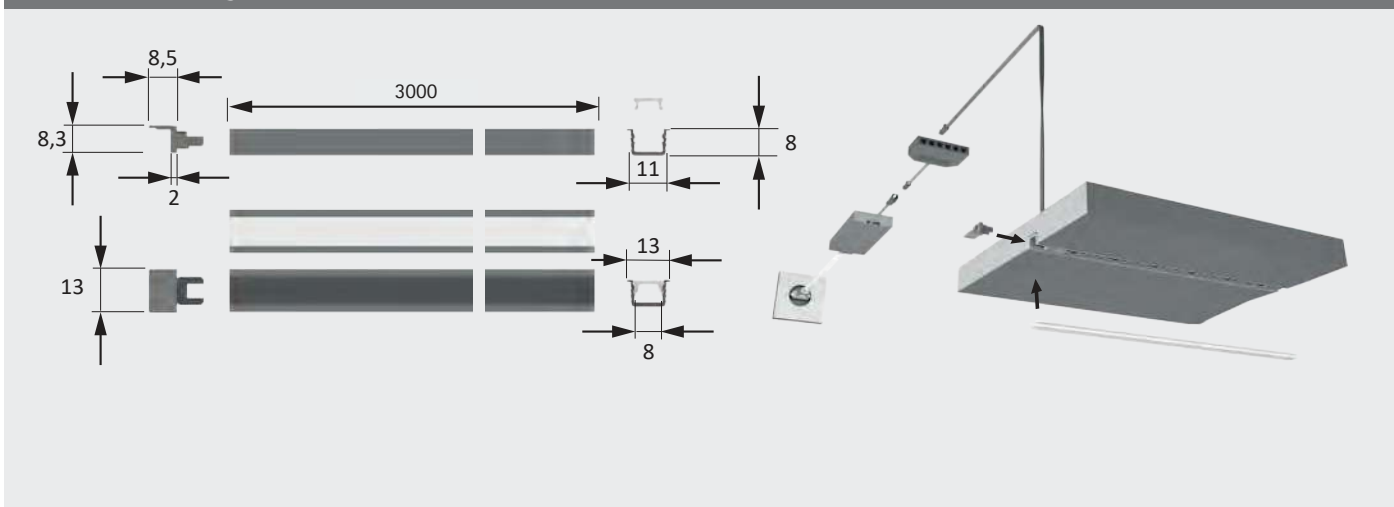


Recommended for:
Versa Linear

Article no.	Product description	Qty	Unit	PU	MRP
9321548	ChannelLine i2, L=3000 mm, Alu profile & Opal Cover	1	Pc	1	5,250
9321550	ChannelLine i2, End cap (Set of 2 Pc), Alu	1	Set	1	190
9321549	ChannelLine i2, L=3000 mm, Black Alu profile & Opal Cover	1	Pc	1	5,000
9321691	ChannelLine i2, End cap (Set of 2 Pc), Black	1	Set	1	110

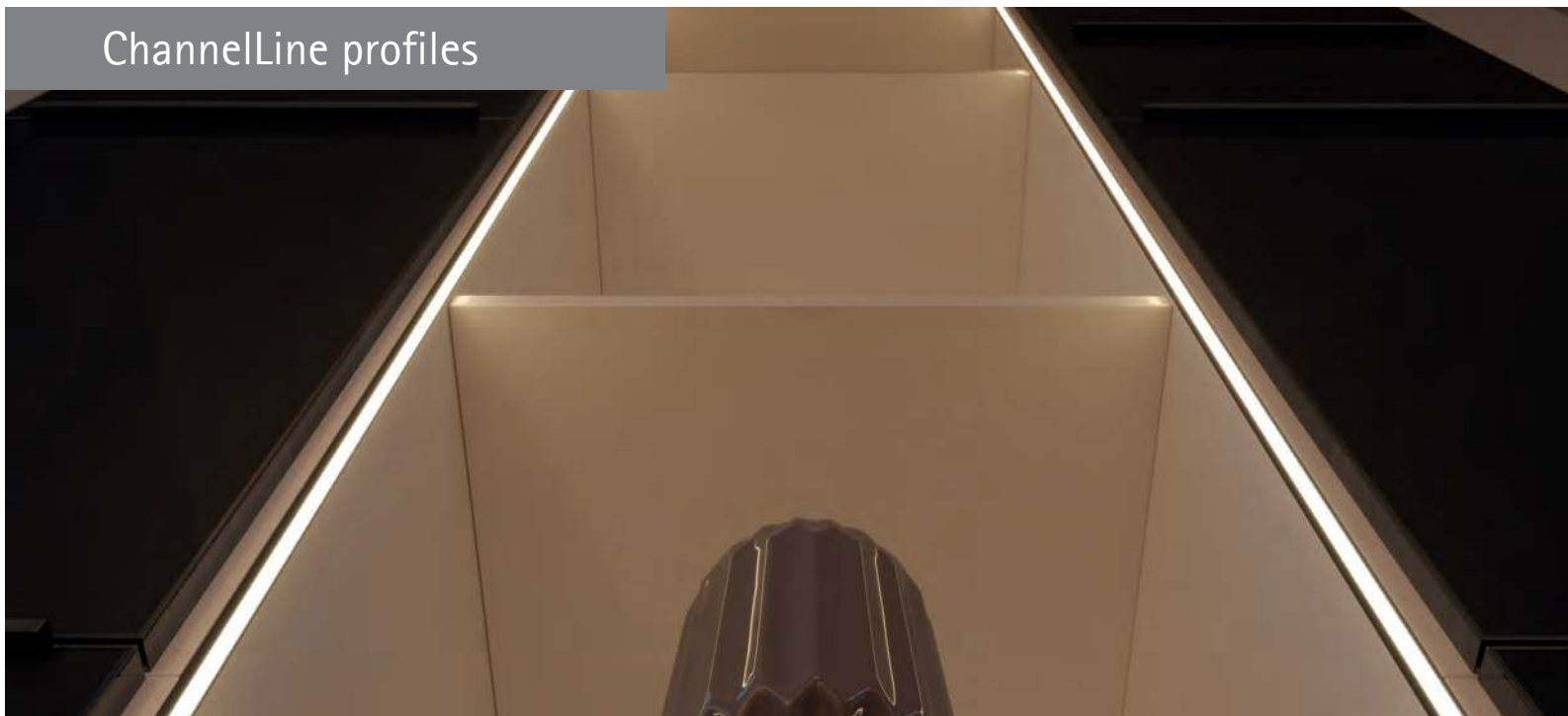
Note: Direct Connector Not recommended for ChannelLine i2

Dimensional drawing / installation





ChannelLine profiles



ChannelLine G2

Advantages

- ▶ Recessed/surface-mounted profile
- ▶ Glare-free and angled light emission
- ▶ With filigree profile trim

Features

- ▶ Homogeneous light line with Versa Inside from 120 LED/m with opal cover
- ▶ Angled beam angle of approx. 90°

Examples of use

- ▶ Cabinet interior lighting
- ▶ Kitchen midway sections
- ▶ Product presentation on sales shelf

Order information

- ▶ Two Versa Inside can be inserted one radiates diagonally and one radiates straight from within the profile
- ▶ For selection see ChannelLine overview

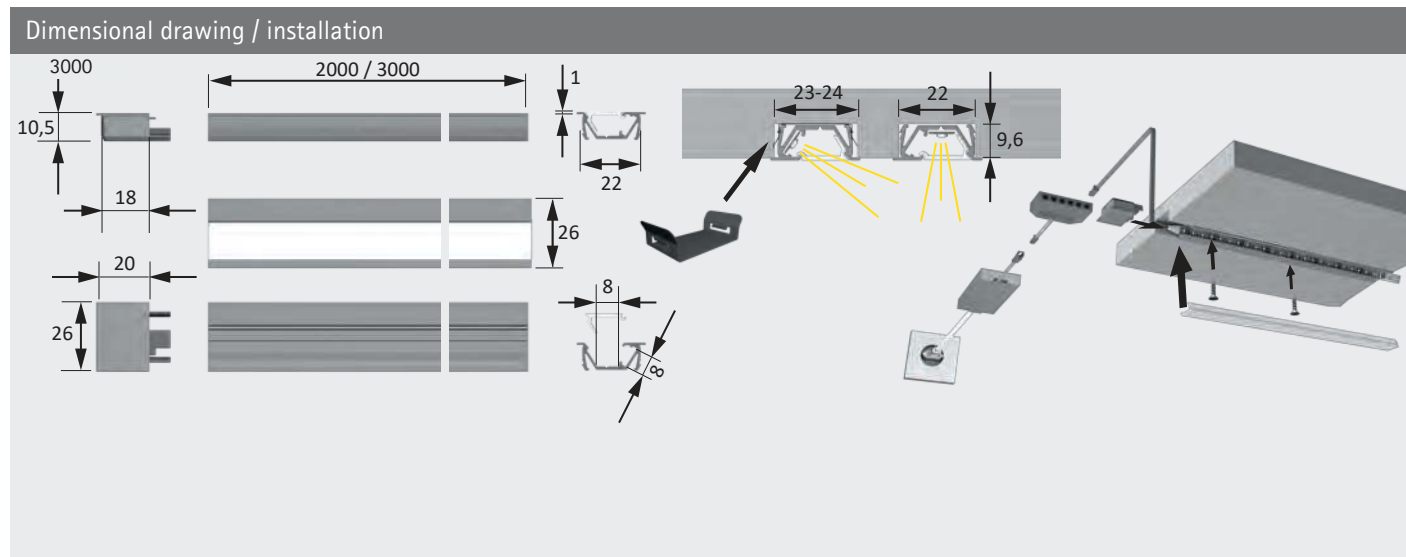
Technical details



Recommended for:
Versa Inside 160
Versa linear

Article no.	Product description	Qty	Unit	PU	MRP
9315697	ChannelLine G2, L=3000 mm, Alu profile & Opal Cover	1	Pc	1	6,550
9244283	ChannelLine G2 End cap (Set of 2 Pc), Alu	1	Set	1	140
9315698	ChannelLine G2, L=3000 mm, Black Alu profile & Opal Cover	1	Pc	1	6,200
9304152	ChannelLine G2 End cap (Set of 2 Pc), Black	1	Set	1	140

Note: Direct Connector Not recommended for ChannelLine G2





ChannelLine profiles



ChannelLine H

Advantages

- ▶ Surface-mounted profile for corner
- ▶ Almost rimless illuminated surface
- ▶ Round cover for wide light emission
- ▶ Can be screwed on both sides

Features

- ▶ Homogeneous light line with Versa Inside from 120 LED/m
- ▶ Very wide beam angle of approx. 90°

Examples of use

- ▶ Furniture corners
- ▶ Kitchen midway sections

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

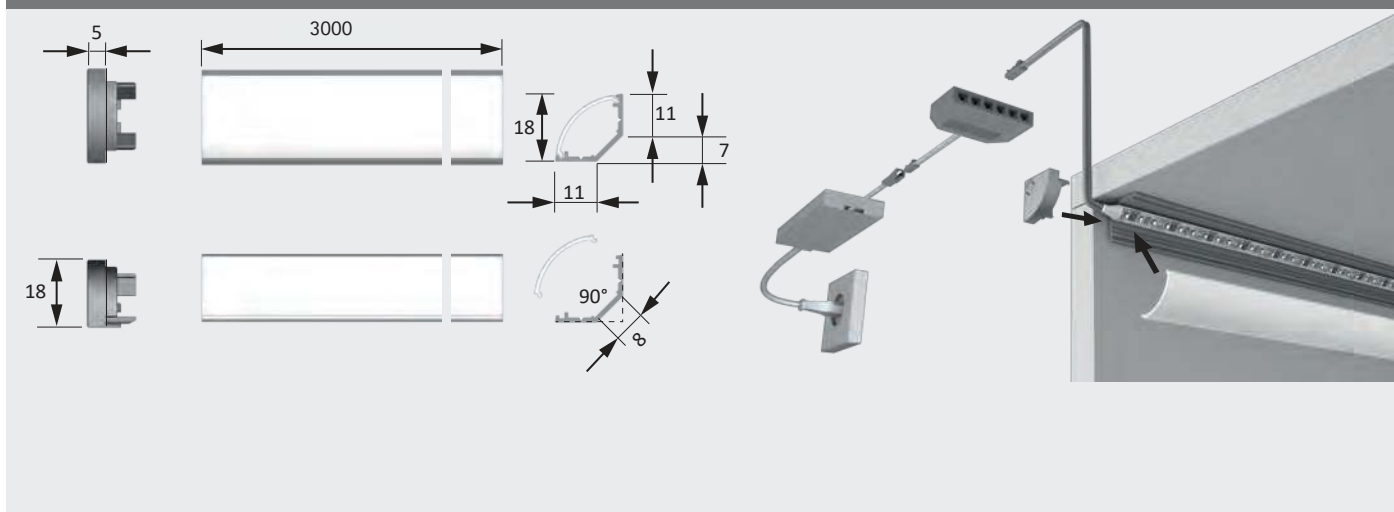


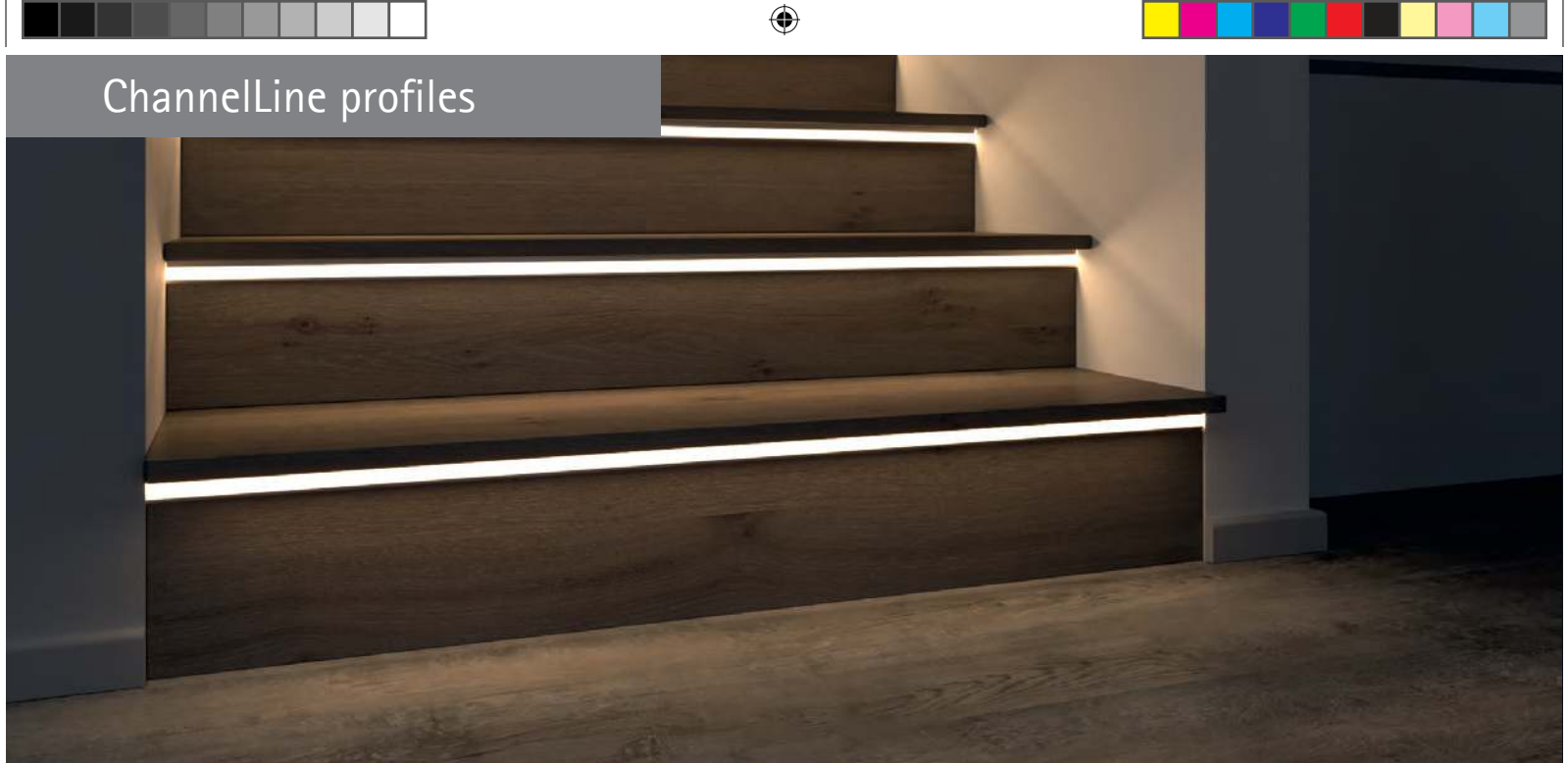
Recommended for:
Versa Inside 160
Versa Linear

Article no.	Product description	Qty	Unit	PU	MRP
9244566	ChannelLine H, L=3000 mm, Alu profile Et Opal Cover	1	Pc	1	5,250
9244567	ChannelLine H End cap (Set of 2 Pc)	1	Set	1	110

Note: Direct Connector Not recommended for ChannelLine H

Dimensional drawing / installation





ChannelLine profiles

ChannelLine F

Advantages

- Versatile use
- Entry-level price

Features

- Beam angle and homogeneity can be varied according to the milling depth

Examples of use

- For milling into the wood

Order information

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

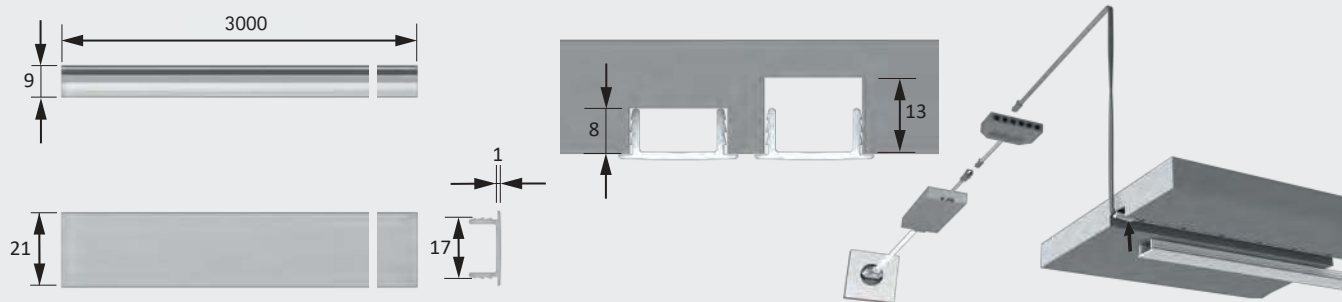
Technical details



Recommended for:
Versa Inside 120
Versa Inside 160
Versa Linear

Article no.	Product description	Qty	Unit	PU	MRP
9162630	ChannelLine F, L=3000 mm, Opal Cover	1	Pc	1	3,100

Dimensional drawing / installation

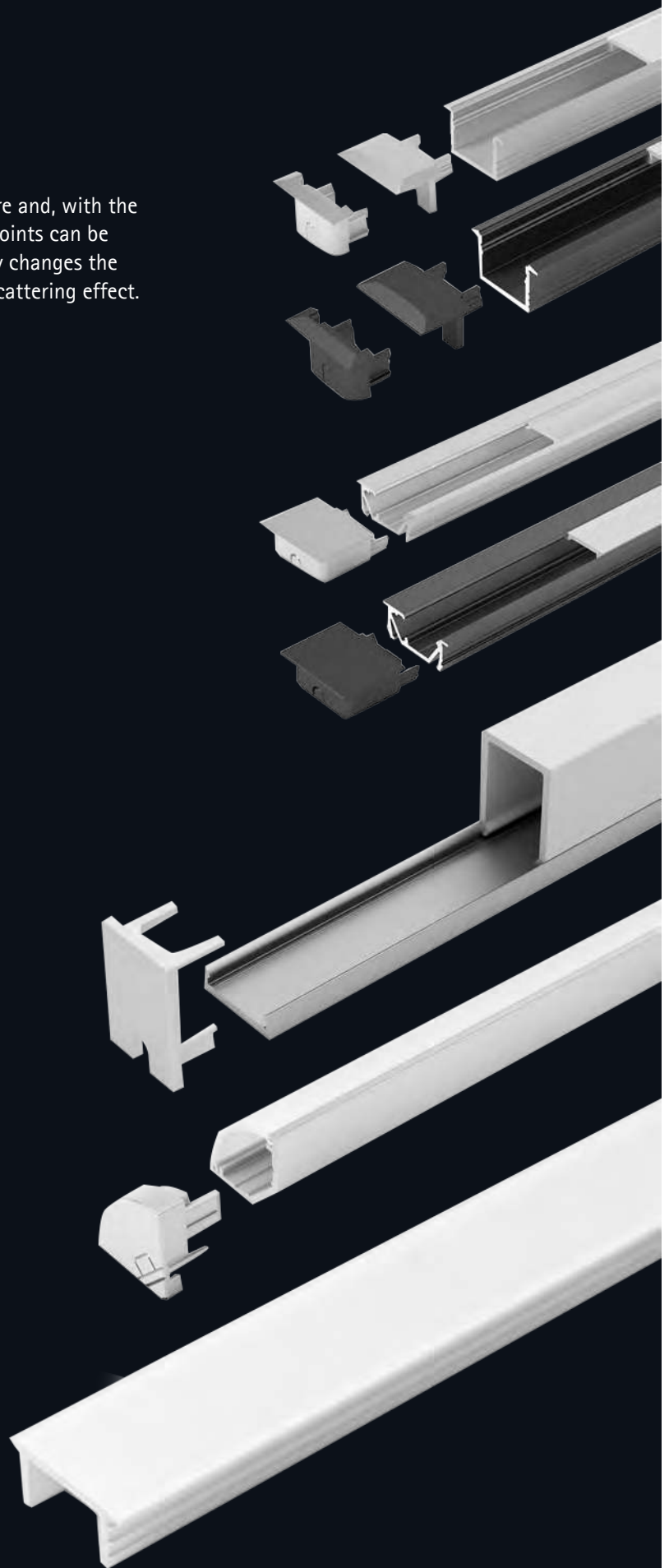




ChannelLine profiles

About cover profile

Opal cover: The light is scattered, which avoids glare and, with the right combination of profile and strip, no LED light points can be seen. The special material of the Magic covers hardly changes the light color of the LED. Brightness is lost due to the scattering effect.





Spotlights

Outwardly small, but big in luminosity

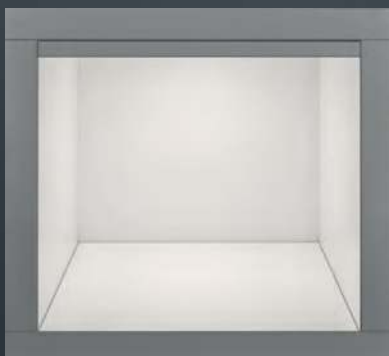
Our spotlights are small in size but big in performance: in relation to their size, they impress with excellent light output.

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



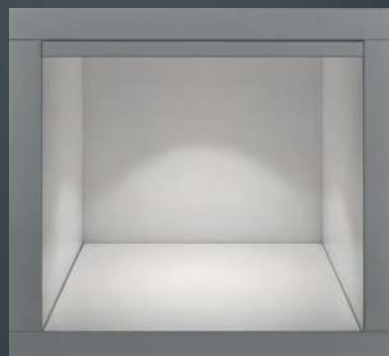
Wide beam LitePanel 68

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



PowerLite like halogen

The light of the PowerLite draws an aesthetic shadow on the back wall of the furniture.





Spotlights

Product range overview



SuperSpot eco Ø 78 mm
Page no. 48-49

12 V



LitePanel 68 Ø 68 mm
Page no. 50-51

12 V



MultiLite Flood Ø 58 mm
Page no. 52-53

12 V



PowerLite Plus Ø 58 mm
Page no. 54-55

12 V



EcoPower L Ø 68 mm
Page no. 56-57

12 V



Eco Spot Ø 58 mm
Page no. 58-59

12 V



SideSpot Ø 35 mm
Page no. 60-61

12 V





Spotlights



SuperSpot eco

Advantages

- Powerful furniture LED light
- Low installation depth

Features

- Robust metal housing
- Plug-in connection on housing
- Recessed light with 78 mm installed diameter

Examples of use

- Shelves
- Kitchen niches and top floors

Order information

- For a kitchen niche or top shelf
use at least two luminaires per meter

Article no.	Product description	Qty	Unit	PU	MRP
9335242	SuperSpot Eco WW, 12VDC, 4.2W, Stainless Steel	1	Pc	1	3,350
9335241	SuperSpot Eco NW, 12VDC, 4.2W, Stainless Steel	1	Pc	1	3,350

Accessories

Article no.	Product description	Qty	Unit	PU	MRP
9104773	LED extension M1, L=1800mm	1	Pc	1	440
9084272	6-way distributor M1, L=2000mm	1	Pc	1	560

Technical details



12 V

Luminaire type:	LED recessed light
Type of lighting:	Functional lighting
Surface finish:	Stainless steel look
Operating voltage:	12 V DC
Light colour:	WarmWhite/ NeutralWhite
Colour rendering:	RA>80
Luminous flux:	210 lm
Luminaire efficiency:	50 lm/W
Light source efficiency:	71 lm/W
Life span:	40,000 h (L70)
Power consumption:	max. 4.2 W
Dimmable:	Yes/PWM/Smart.home
Beam angle:	90°
Half value angle:	50°
Test mark and symbols:	CE
Protection rating:	IP 20
Installed diameter:	78 mm
Supply lead:	3000 mm
Plug connector:	LED mini M1 plug connector
Connection to:	LED ballast

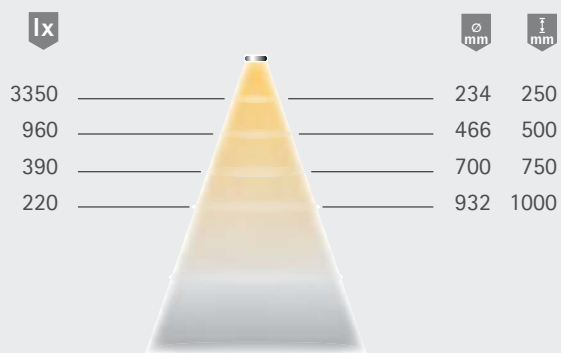
*WW : Warm White
NW : Neutral White



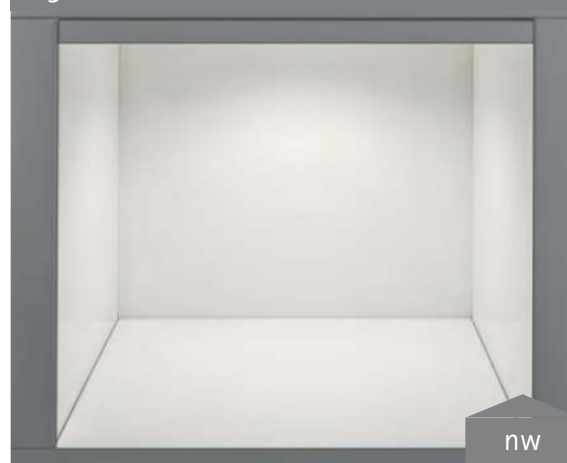


Spotlights

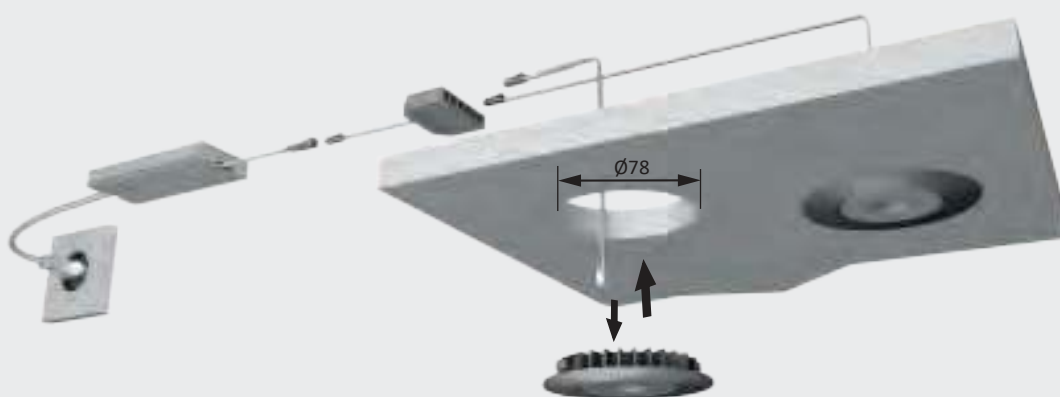
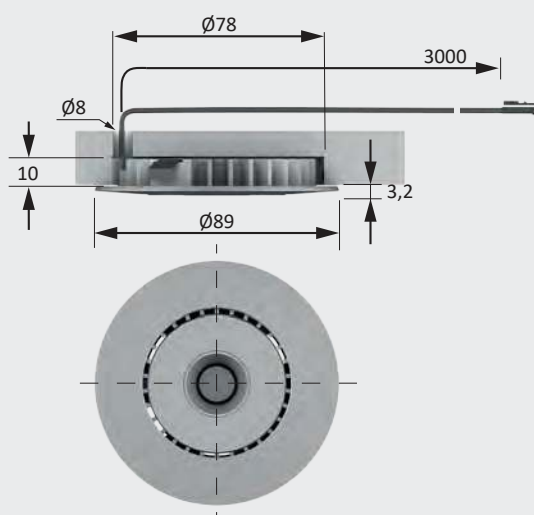
Light distribution diagram 50°



Light box



Dimensional drawing / installation





Spotlights



LitePanel 68

Advantages

- ▶ Modern luminaire in discreet design
- ▶ Low installation depth
- ▶ Homogeneous luminous surface

Features

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

Examples of use

- ▶ Shelves
- ▶ Display cabinets
- ▶ Kitchen midway sections

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

Article no.	Product description	Qty	Unit	PU	MRP
9335243	LitePanel 68 MW² 12VDC, 4.3W, Black	1	Pc	1	2,500

Accessories

Article no.	Product description	Qty	Unit	PU	MRP
9104773	LED extension M1, L=1800mm	1	Pc	1	440
9084272	6-way distributor M1, L=2000mm	1	Pc	1	560

Technical details



Luminaire type:	LED recessed light
Type of lighting:	Functional/ accent lighting
Surface finish:	Black
Operating voltage:	12 V DC
Light colour:	MultiWhite / Xtra Warm White
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
Protection rating:	IP 20
Installed diameter:	68 mm
Supply lead:	1800 mm
Plug connector:	LED mini M1 plug connector
Connection to:	LED ballast

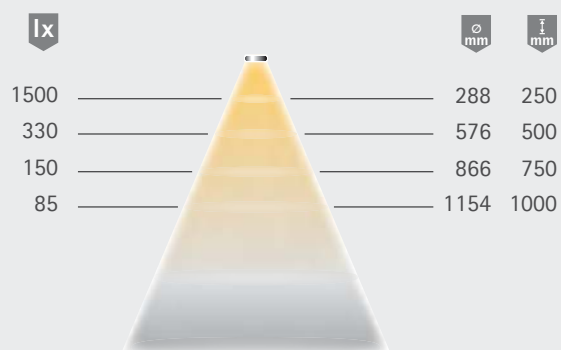
*MW : Multi White



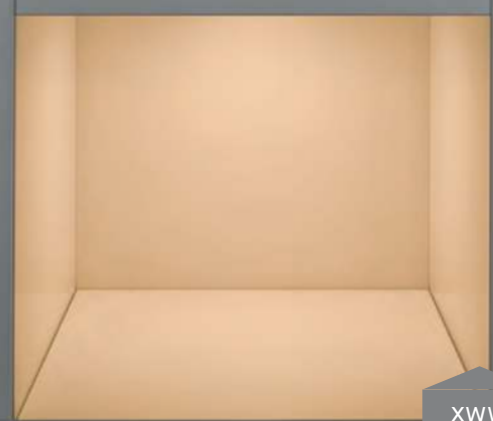


Spotlights

Light distribution diagram 60°

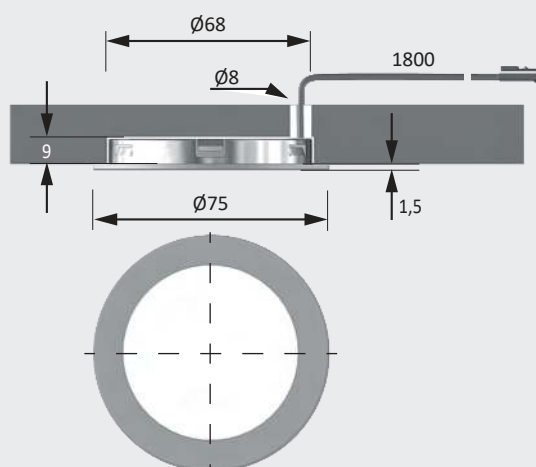


Light box



XWW

Dimensional drawing / installation



MultiWhite





Spotlights



MultiLite Flood

Advantages

- ▶ Available in many surfaces
- ▶ Evenly illuminated area
- ▶ Simple timeless design

Features

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

Examples of use

- ▶ Shelves
- ▶ Display cabinets
- ▶ Kitchen midway sections

Order information

- ▶ Luminaire and cover ring must be ordered separately
- ▶ For a kitchen niche use at least two luminaires per meter

Article no.	Product description	Qty	Unit	PU	MRP
9335244	MultiLite Flood WW, 12VDC, 4W, round, without ring	1	Pc	1	2,000

Accessories

Article no.	Product description	Qty	Unit	PU	MRP
9245072	MultiLite Flood cover ring, Alu Look	1	Pc	1	320
9245073	MultiLite Flood-cover ring, Chrome Matt	1	Pc	1	320
9245077	MultiLite Flood-cover ring, Stainless Steel look	1	Pc	1	470
9254413	MultiLite Flood-cover ring, Gold coloured	1	Pc	1	370
9254414	MultiLite Flood-cover ring, Bronze look	1	Pc	1	170
9279478	MultiLite Flood-cover ring, Black	1	Pc	1	470
9104773	LED extension M1, L=1800mm	1	Pc	1	440
9084272	6-way distributor M1, L=2000mm	1	Pc	1	560

Technical details



Luminaire type:	LED recessed light
Type of lighting:	Functional/ accent lighting
Surface finish:	Aluminium look/ chrome
Operating voltage:	12 V DC
Light colour:	WarmWhite
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
Protection rating:	IP 44
Installed diameter:	58 mm
Supply lead:	2000 mm
Plug connector:	LED mini M1 plug connector
Connection to:	LED ballast

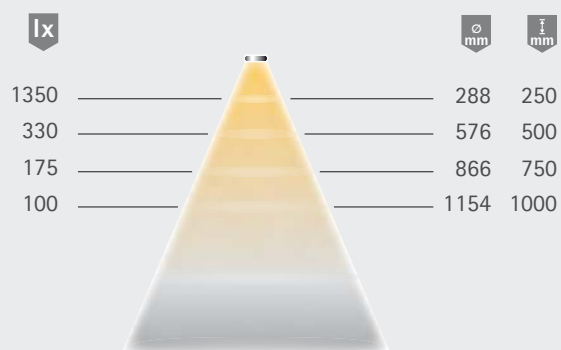
*WW : Warm White





Spotlights

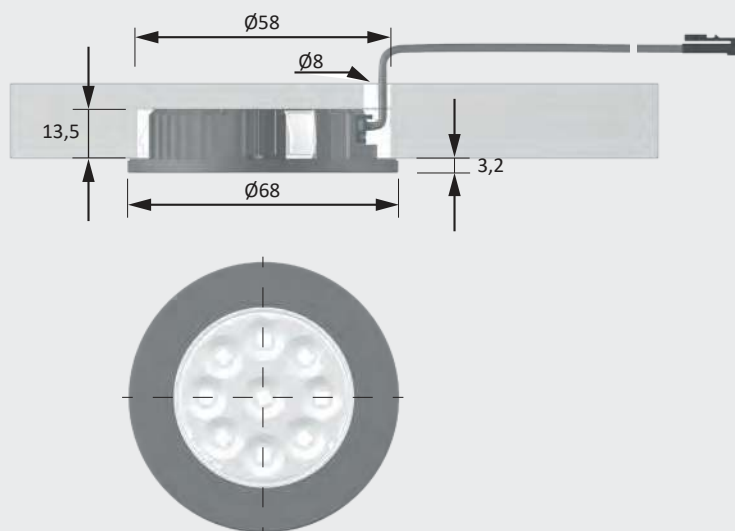
Light distribution diagram 60°



Light box

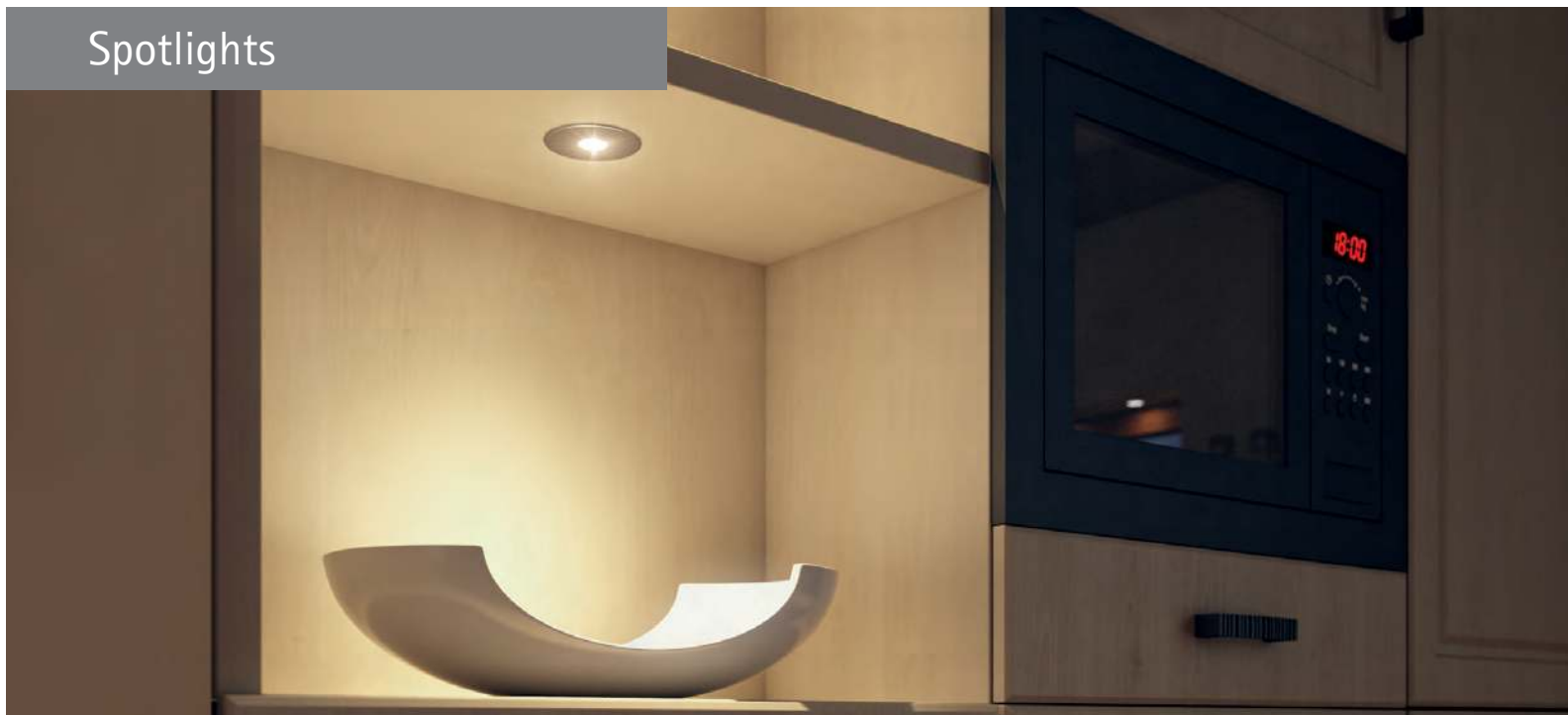


Dimensional drawing / installation





Spotlights



PowerLite Plus

Advantages

- ▶ Cone of light like halogen spot
- ▶ High-quality metal housing
- ▶ Bright versatile luminaire

Features

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

Examples of use

- ▶ Kitchen niches and top floors
- ▶ Shelves
- ▶ Display cabinets

Article no.	Product description	Qty	Unit	PU	MRP
9335247	PowerLite WW, 12VDC, 3.5W, Stainless Steel	1	Pc	1	2,550
9335246	PowerLite NW, 12VDC, 3.5W, Stainless Steel	1	Pc	1	2,550

Accessories

Article no.	Product description	Qty	Unit	PU	MRP
9104773	LED extension M1, L=1800mm	1	Pc	1	440
9084272	6-way distributor M1, L=2000mm	1	Pc	1	560

Technical details



Luminaire type:	LED recessed light
Type of lighting:	Functional/ accent lighting
Surface finish:	Stainless steel look
Operating voltage:	12 V DC
Light colour:	WarmWhite/ NeutralWhite
Colour rendering:	RA >85
Luminous flux:	160 lm
Luminaire efficiency:	45 lm/W
Light source efficiency:	60 lm/W
Life span:	40,000 h (L70)
Power consumption:	3.5 W
Dimmable:	Yes/PWM/Smart.home
Beam angle:	90°
Half value angle:	50°
Test marks and symbols:	CE   
Protection rating:	IP 44
Installed diameter:	56-58 mm
Supply lead:	3000 mm
Plug connector:	LED mini M1 plug connector
Connection to:	LED ballast

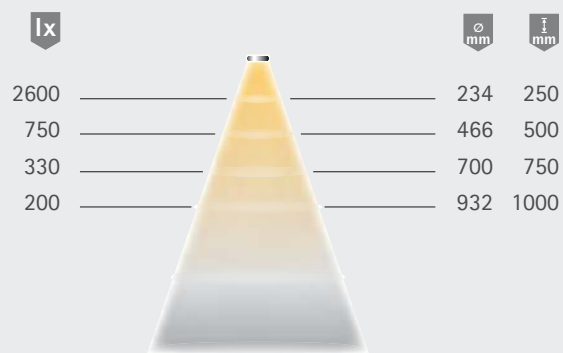
*WW : Warm White
NW : Neutral White



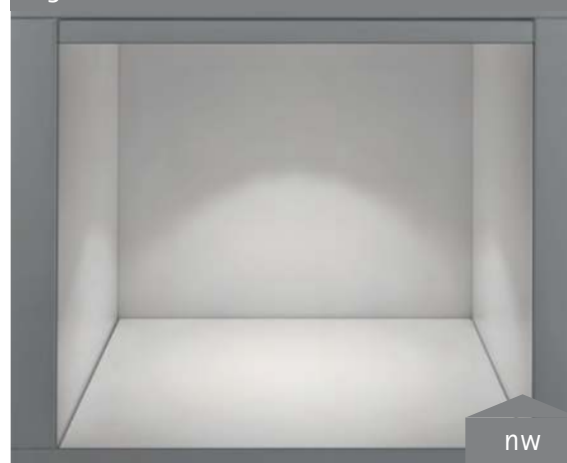


Spotlights

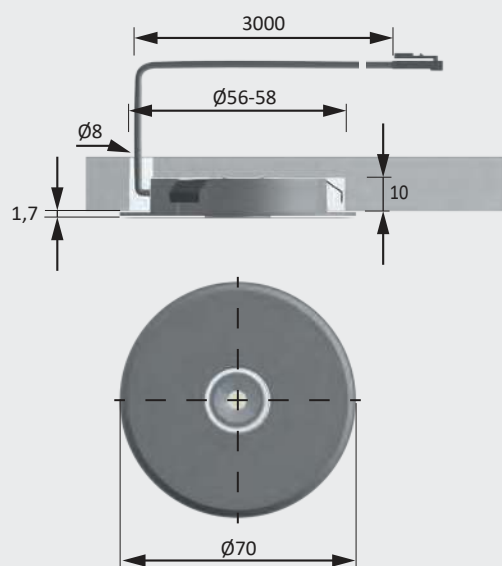
Light distribution diagram 50°



Light box



Dimensional drawing / installation





Spotlights



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

Article no.	Product description	Qty	Unit	PU	MRP
9335248	Eco Power L WW, 12VDC, 3.2W, Stainless Steel	1	Pc	1	1,750
9335249	EcoPower L WW, 12VDC, 3.2W, Black	1	Pc	1	1,600

Accessories

Article no.	Product description	Qty	Unit	PU	MRP
9104773	LED extension M1, L=1800mm	1	Pc	1	440
9084272	6-way distributor M1, L=2000mm	1	Pc	1	560

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
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   
Protection rating:	IP 44
Installed diameter:	68 mm
Supply lead:	1800 mm
Plug connector:	LED mini M1 plug connector
Connection to:	LED ballast

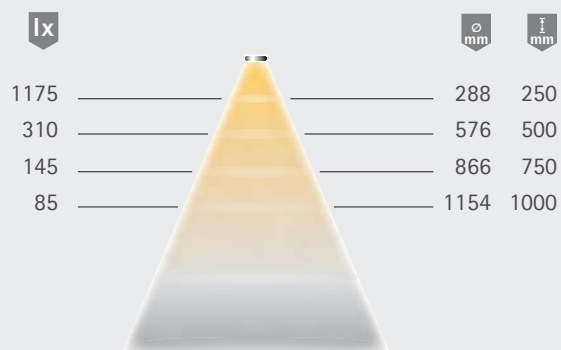
*WW : Warm White





Spotlights

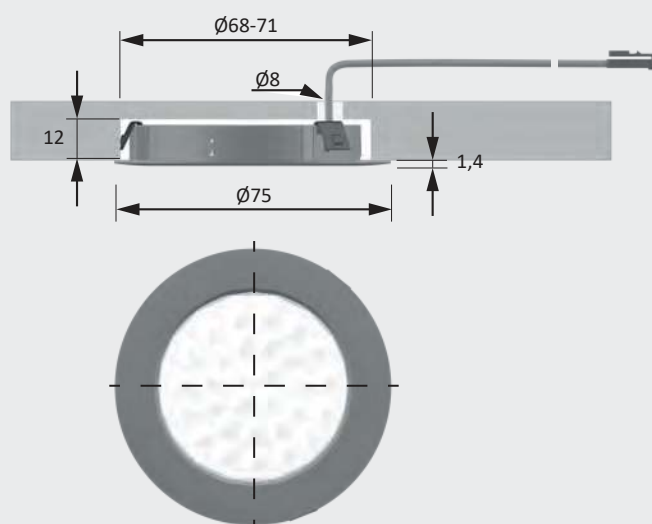
Light distribution diagram 60°



Light box

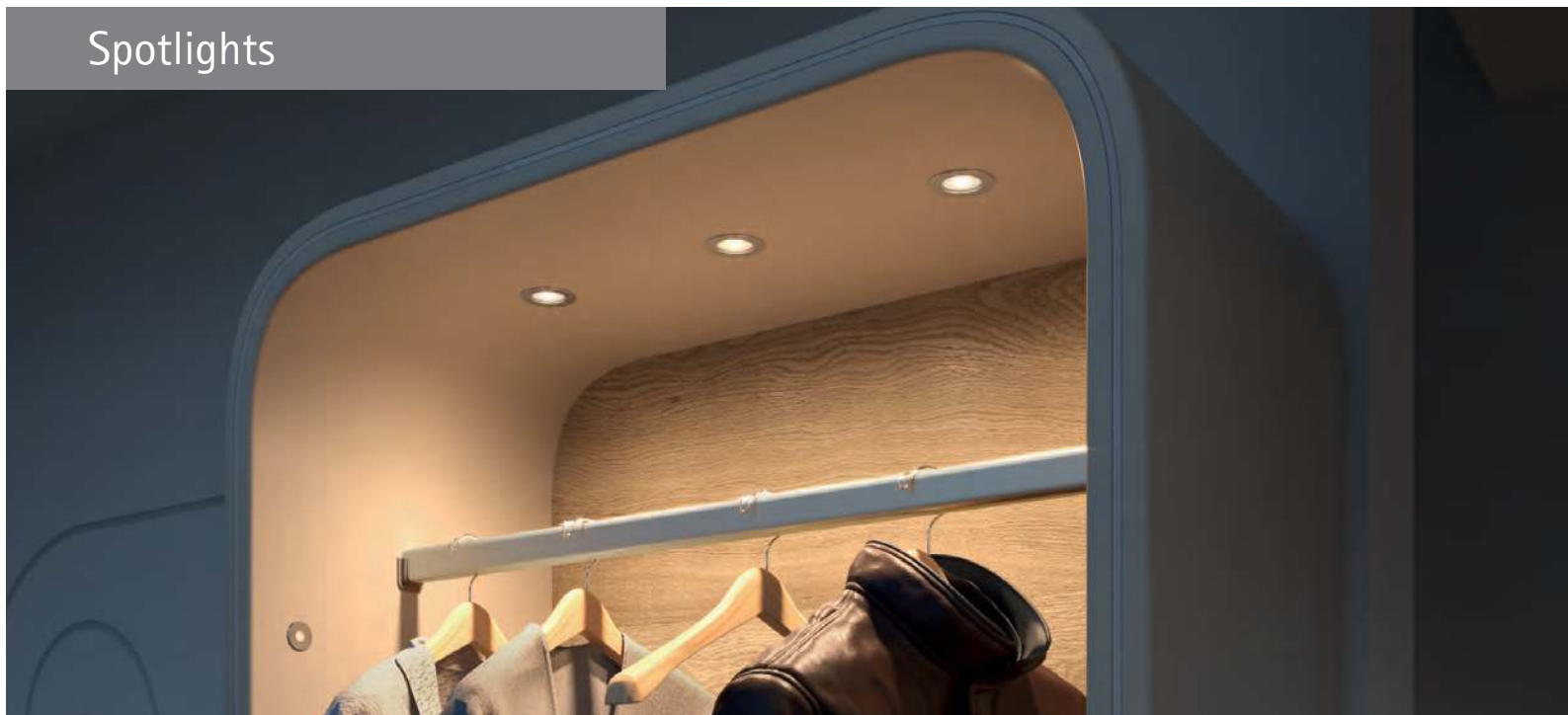


Dimensional drawing / installation





Spotlights



Eco Spot

Advantages

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

Features

- ▶ For 58 mm mounting diameter
- ▶ Wide beam without shadows

Examples of use

- ▶ Shelves
- ▶ Display cabinets

Article no.	Product description	Qty	Unit	PU	MRP
9335250	Eco Spot WW, 12VDC, 1.5W, Stainless Steel	1	Pc	1	1,100

Accessories

Article no.	Product description	Qty	Unit	PU	MRP
9104773	LED extension M1, L=1800mm	1	Pc	1	440
9084272	6-way distributor M1, L=2000mm	1	Pc	1	560

Technical details



Luminaire type:	LED recessed light
Type of lighting:	Functional/ accent lighting
Surface finish:	Stainless steel look
Operating voltage:	12 V DC
Light colour:	WarmWhite/
Colour rendering:	RA >80
Luminous flux:	110 lm
Luminaire efficiency:	73 lm/W
Light source efficiency:	87 lm/W
Life span:	40,000 h (L70)
Power consumption:	1.5 W
Dimmable:	Yes/PWM/Smart.home
Beam angle:	90°
Half value angle:	60°
Test mark and symbols:	CE   
Protection rating:	IP 20
Installed diameter:	58 mm
Supply lead:	1800 mm
Plug connector:	LED mini M1 plug connector
Connection to:	LED ballast

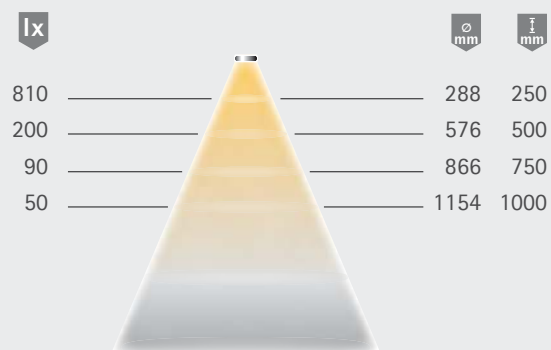
*WW : Warm White



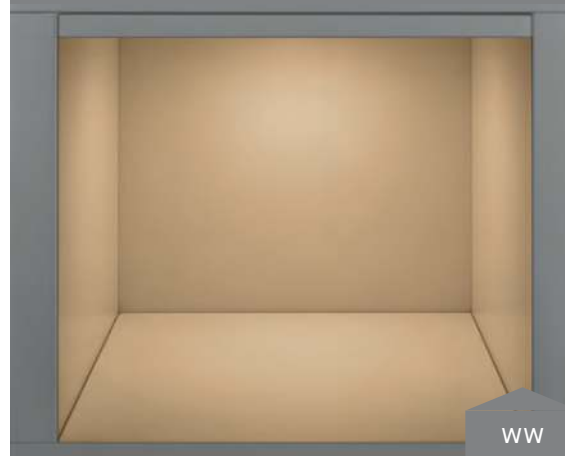


Spotlights

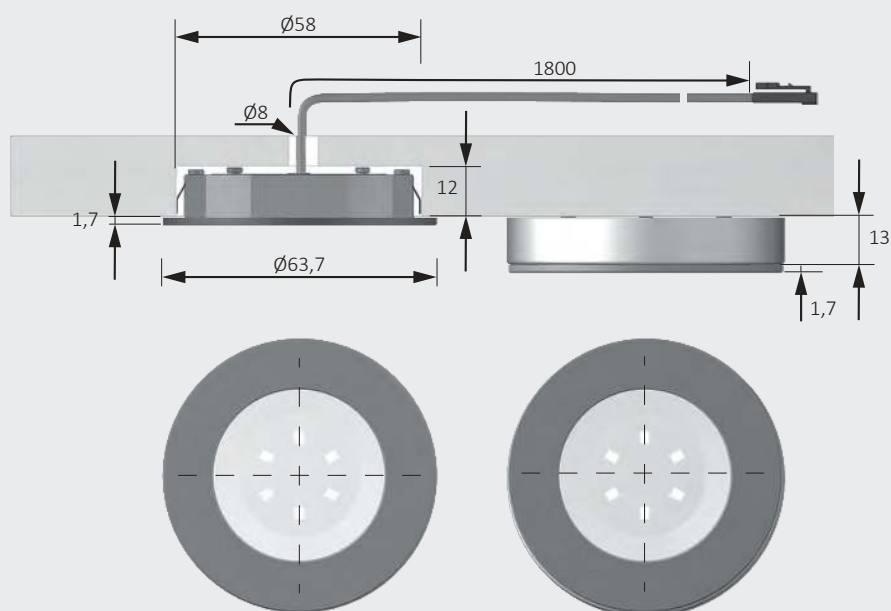
Light distribution diagram 60°



Light box



Dimensional drawing / installation





Spotlights



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

Article no.	Product description	Qty	Unit	PU	MRP
9335251	Side Spot, Extra WW, 12VDC, 1.4W, Black	1	Pc	1	1,350

Accessories

Article no.	Product description	Qty	Unit	PU	MRP
9104773	LED extension M1, L=1800mm	1	Pc	1	440
9084272	6-way distributor M1, L=2000mm	1	Pc	1	560

Technical details



Luminaire type:	LED recessed light
Type of lighting:	Functional/ accent lighting
Surface finish:	Black
Operating voltage:	12 V DC
Light colour:	XtraWarmWhite
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   
Protection rating:	IP 20
Installed diameter:	35 mm
Supply lead:	800 mm
Plug connector:	LED mini M1 plug connector
Connection to:	LED ballast

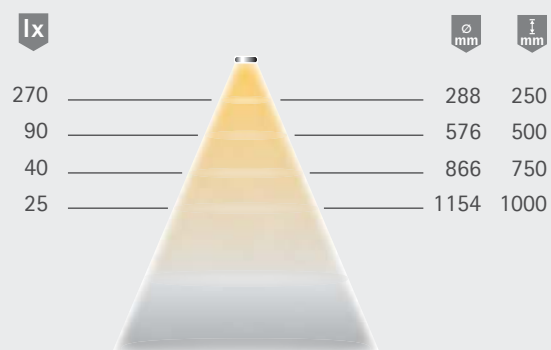
*XWW : Extra Warm White



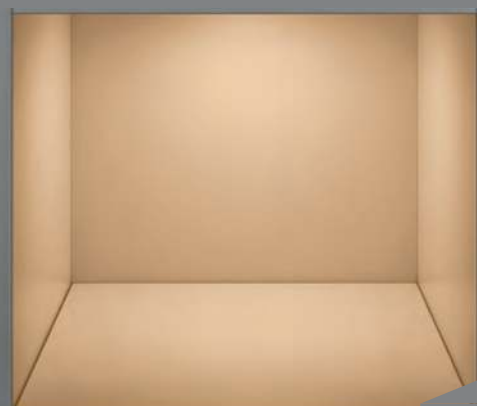


Spotlights

Light distribution diagram 60°

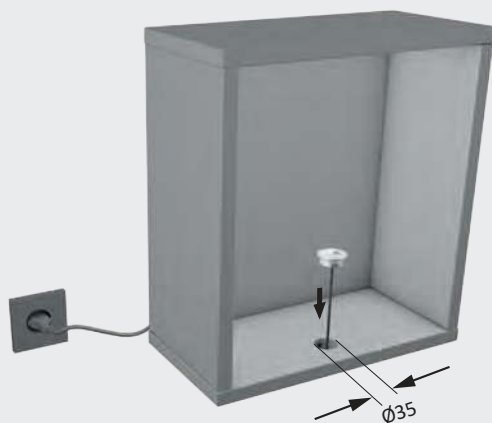
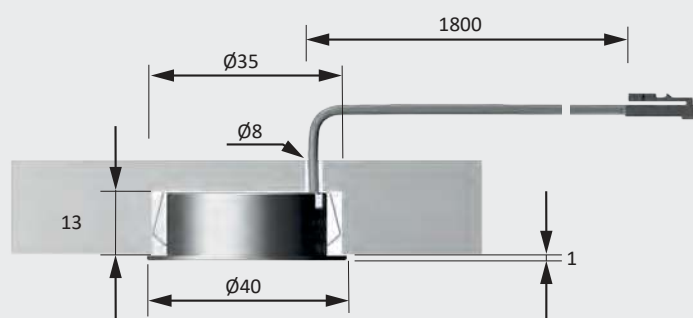


Light box



XWW

Dimensional drawing / installation





Special lights



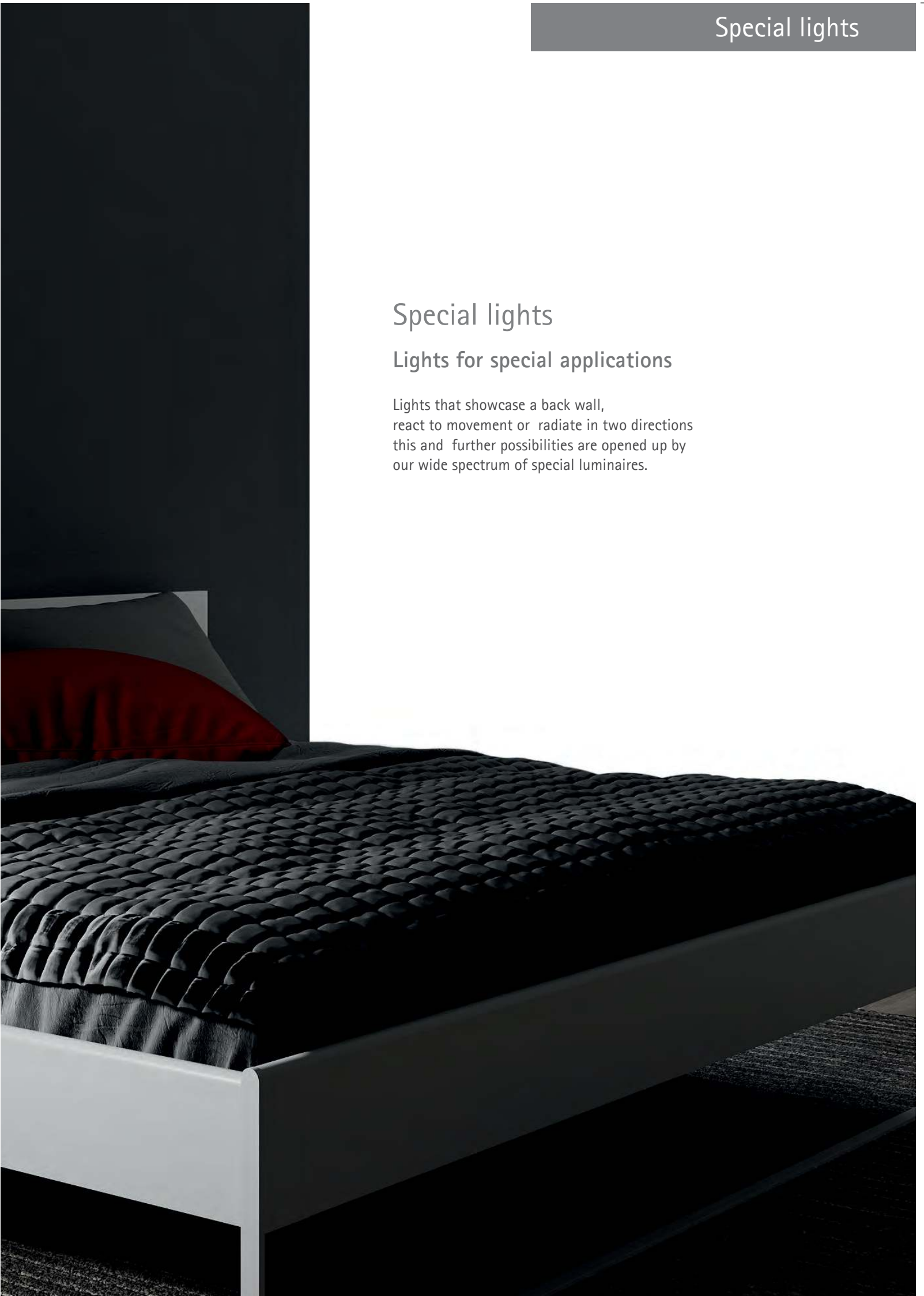


Special lights

Special lights

Lights for special applications

Lights that showcase a back wall,
react to movement or radiate in two directions
this and further possibilities are opened up by
our wide spectrum of special luminaires.





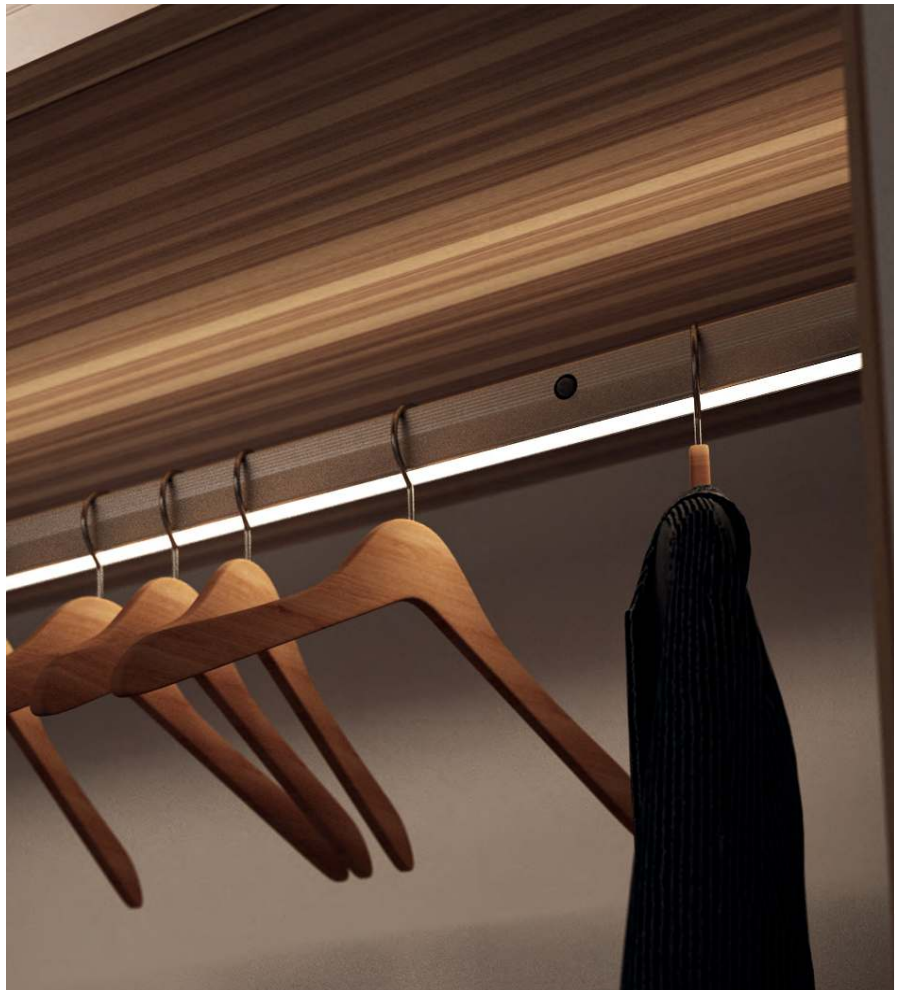
Special lights



Light whets the appetite.



Light guides.





Special lights

Product range overview



HandleLine
Page no. 66-67

12 V



LitePipe
Page no. 68-69

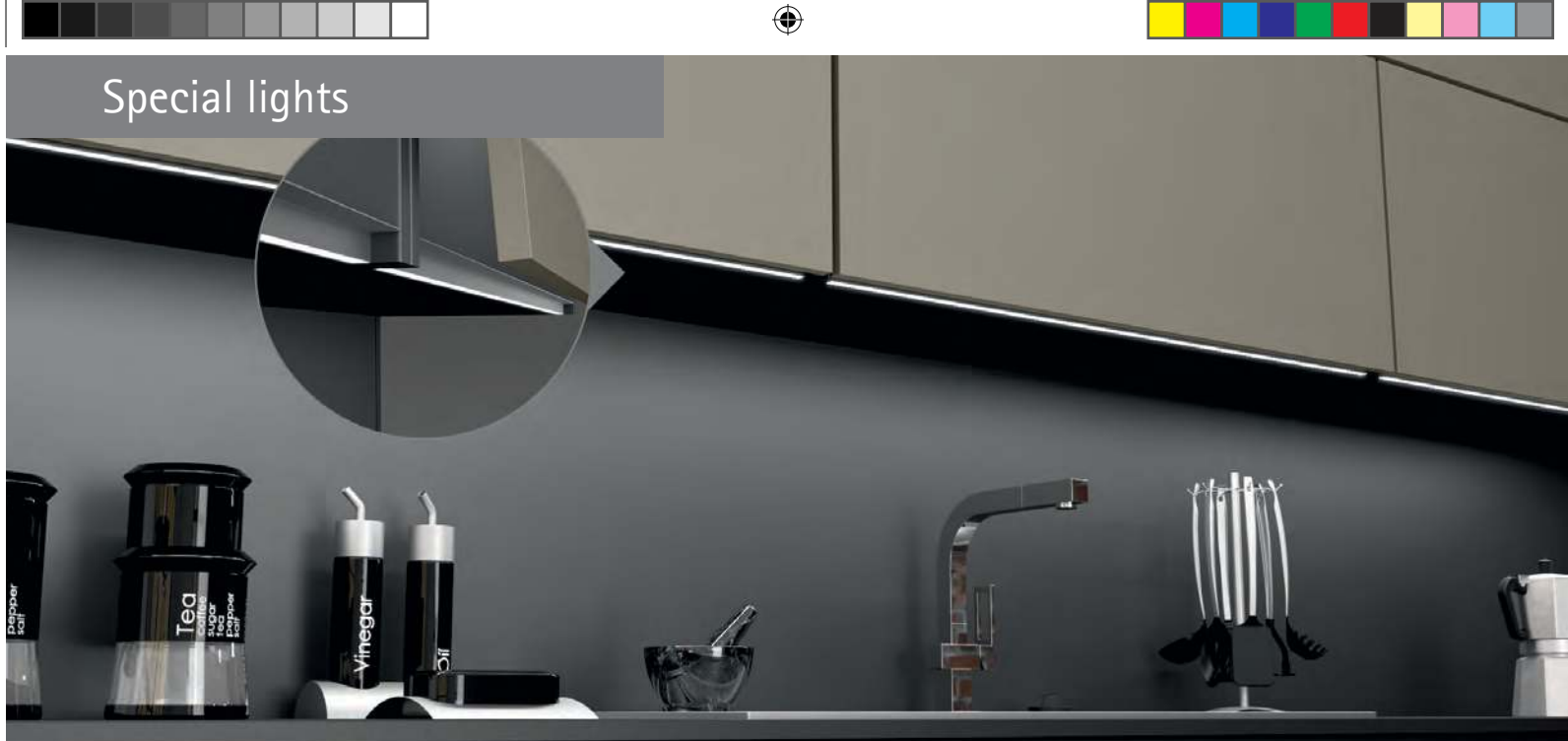
12 V



InnoLine Plus
Page no. 70-71

12 V





Special lights

HandleLine

Advantages

- ▶ High-quality aluminium profile light
- ▶ Can be individually cut to size
- ▶ Handle strip and niche lighting in one Profile combined

Examples of use

- ▶ Handleless fronts in the kitchen
- ▶ Wall cabinet with door

Features

- ▶ Fits perfectly on 16 mm thick panel
- ▶ When connected directly to an electronic ballast, the light colour is XtraWarmWhite (2700K)

Technical details



Article no.	Product description	Qty	Unit	PU	MRP
9335192	HandleLine i MW ² Stainless Steel, 567mm, 12VDC, max. 5.3W	1	Pc	1	3,000
9335193	HandleLine i MW ² Stainless Steel, 867mm, 12VDC, max. 8.2W	1	Pc	1	4,350
9335194	HandleLine i MW ² Stainless Steel, 967mm, 12VDC, max. 9.2W	1	Pc	1	4,550
9335195	HandleLine i MW ² Stainless Steel, 1167mm, 12VDC, max. 11.1W	1	Pc	1	5,650
9335196	HandleLine i MW ² blackopal 567mm, 12VDC, max. 5.3W	1	Pc	1	4,810
9335197	HandleLine i MW ² blackopal 867mm, 12VDC, max. 8.2W	1	Pc	1	4,550
9335198	HandleLine i MW ² blackopal 967mm, 12VDC, max. 9.2W	1	Pc	1	4,750
9335199	HandleLine i MW ² blackopal 1167mm, 12VDC, max. 11.1W	1	Pc	1	5,800

Accessories

Article no.	Product description	Qty	Unit	PU	MRP
9335263	LED ballast, 12VDC, 20W, 200-240V L=2m, M1x6 (6-Way distributor)	1	Pc	1	2,400
9104773	LED extension M1, 12VDC, L=1800mm, black	1	Pc	1	440
9084272	6-way distributor M1, 12VDC, L=2000mm, black	1	Pc	1	560

Luminaire type:	LED recessed light
Type of lighting:	Functional lighting
Surface finish:	Stainless steel look/Black
Operating voltage:	12 V DC
Light colour:	MultiWhite
Colour rendering:	RA >90; R9 >60
Luminous flux:	560 lm/m
Luminaire efficiency:	60 lm/W
Light source efficiency:	90 lm/W
Life span:	40,000 h (L70)
Power consumption:	see ordering chart
Dimmable:	Yes/PWM/Smart.home
Beam angle:	90°
Half value angle:	60°
Test marks and symbols:	CE ENEC VDE
Protection class:	IP 20
Supply lead:	1900 mm
Plug connector:	LED mini M1 plug connector
Connection to:	LED ballast MultiWhite control unit

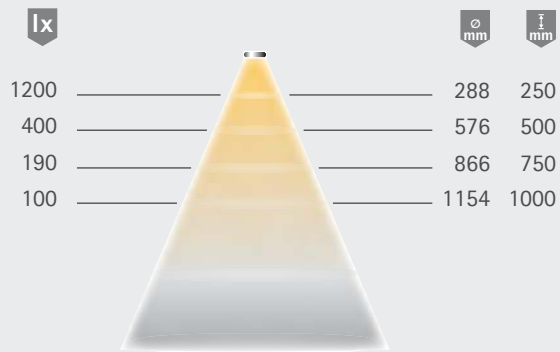
*MW : Multi White



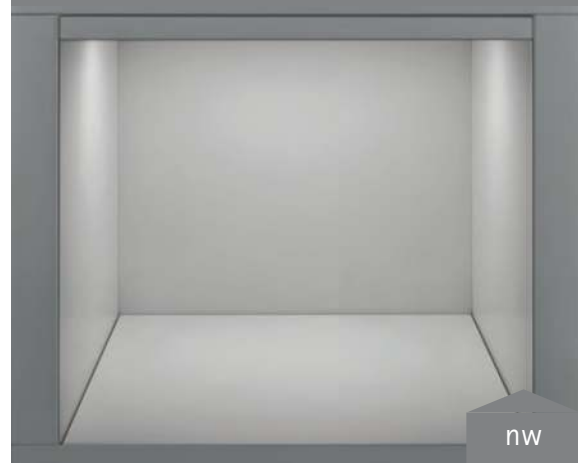
Special lights

Light distribution diagram 60°

Type STS/Opal – other combinations may vary

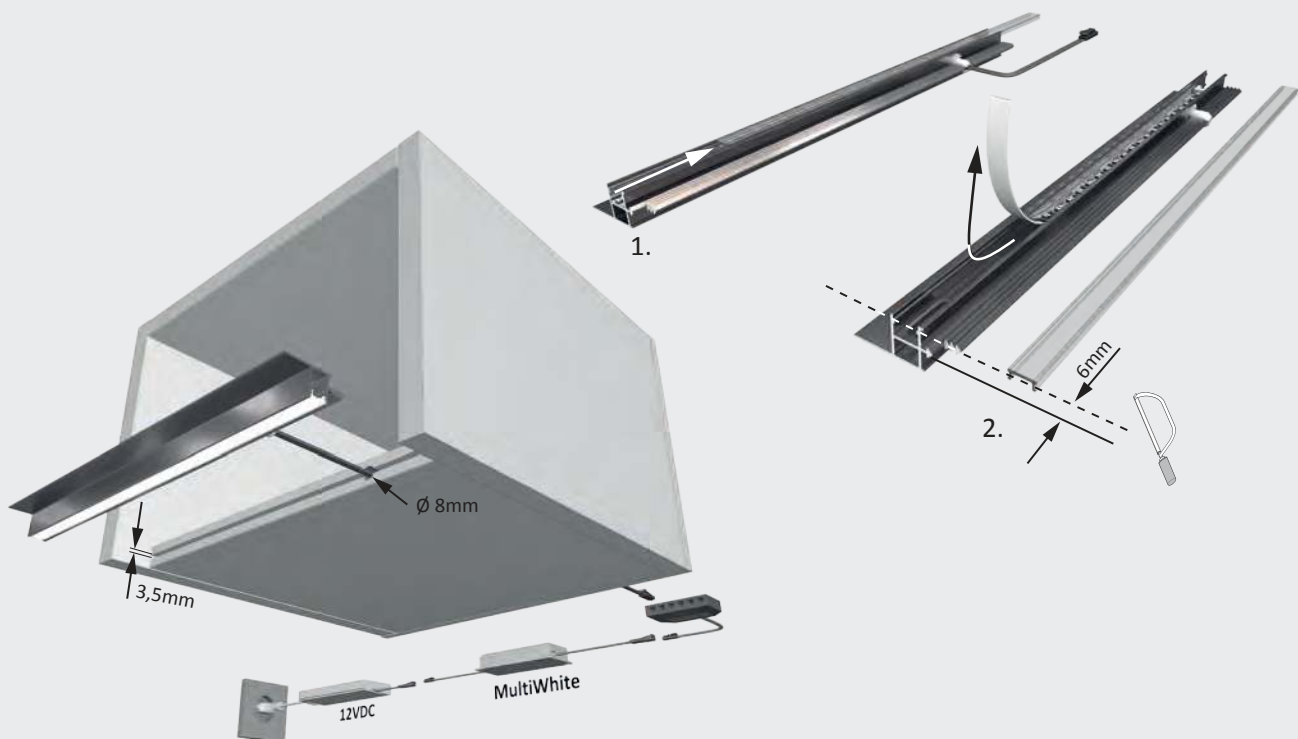
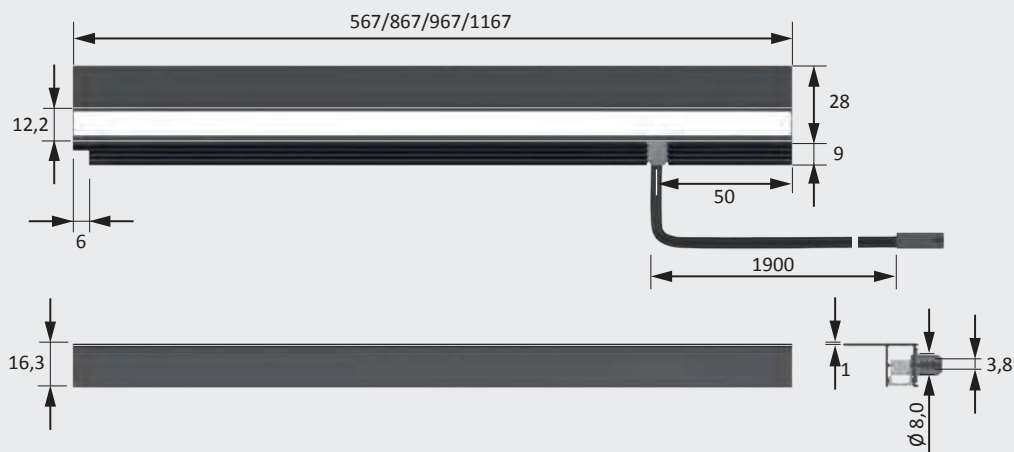


Light box



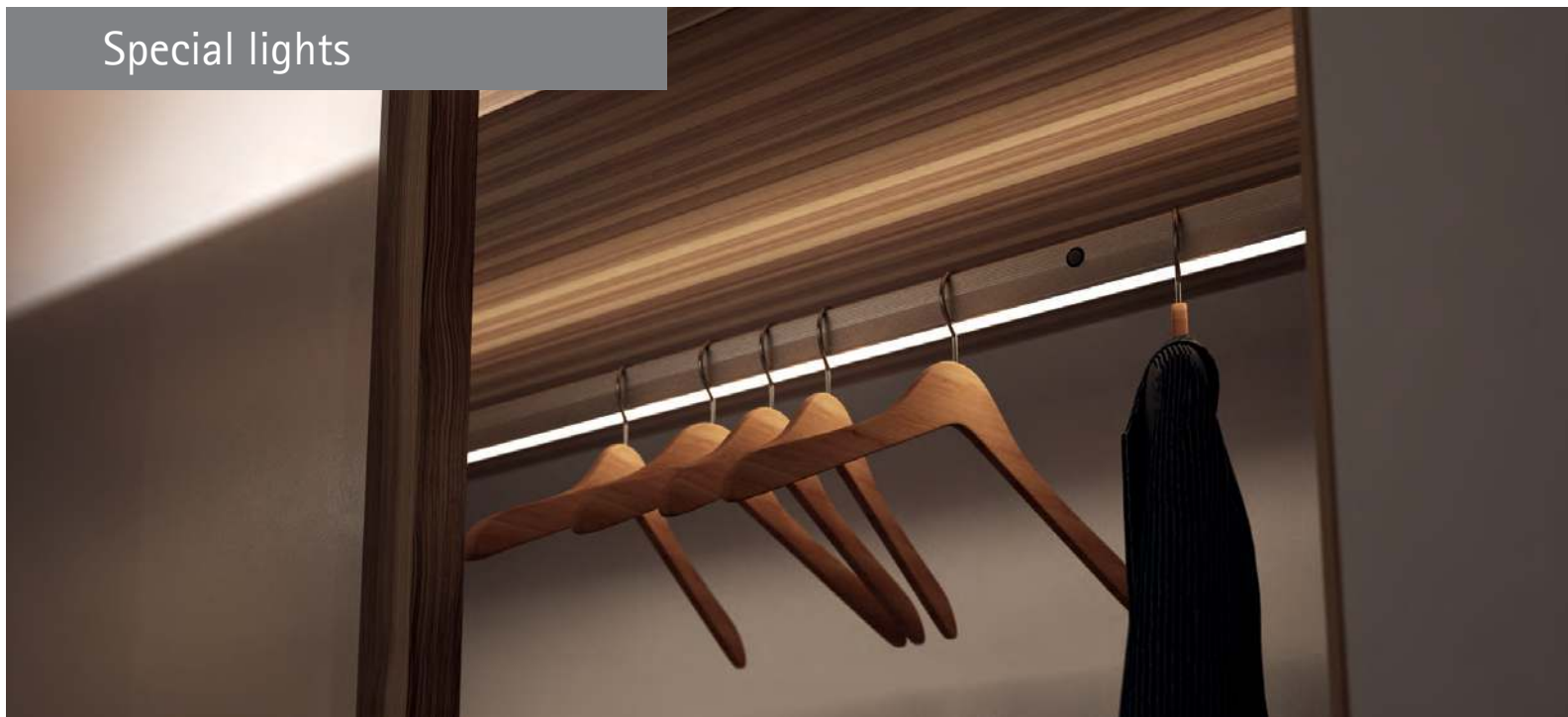
Dimensional drawing / installation

Can be individually cut to size





Special lights



LitePipe

Advantages

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

Examples of use

- ▶ Wardrobes
- ▶ Cloakrooms

Features

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

Technical details



Article no.	Product description	Qty	Unit	PU	MRP
9335255	Lite Pipe, 1000mm, Alu, WW, 12VDC, 5.0W	1	Pc	1	10,450
9335254	Lite Pipe, 1200mm, Alu, WW, 12VDC, 5.5W	1	Pc	1	11,420
9335253	Lite Pipe, 1000mm, Alu, NW, 12VDC, 5.0W	1	Pc	1	10,450
9335252	Lite Pipe, 1200mm, Alu, NW, 12VDC, 5.5W	1	Pc	1	11,420

Accessories

Article no.	Product description	Qty	Unit	PU	MRP
9335263	LED ballast, 12VDC, 20W, 200-240V L=2m, M1x6 (6-Way distributor)	1	Pc	1	2,400
9104773	LED extension M1, L=1800mm	1	Pc	1	440
9084272	6-way distributor M1, L=2000mm	1	Pc	1	560

Luminaire type:	Wardrobe rail LED light
Type of lighting:	Functional lighting
Surface finish:	Aluminium
Operating voltage:	12 V DC
Light colour:	WarmWhite/ NeutralWhite

Colour rendering:	RA >80
Luminous flux:	220 lm/m
Luminaire efficiency:	44 lm/W
Light source:	80 lm/W
Life span:	30,000 h (L70)
Power consumption:	max. 5.5 W
Dimmable:	No
Beam angle:	90°
Half value angle:	60°
Test marks and symbols:	CE   
Protection rating:	IP 20
Supply lead:	2000 mm
Motion sensor	
Detection angle:	60°
Reach:	2 m
Stay-'ON' time:	40 seconds
Plug connector:	LED mini M1 plug connector
Connection to:	LED ballast

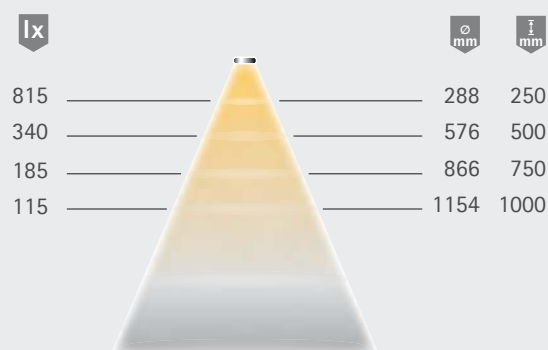
*WW : Warm White
NW : Neutral White



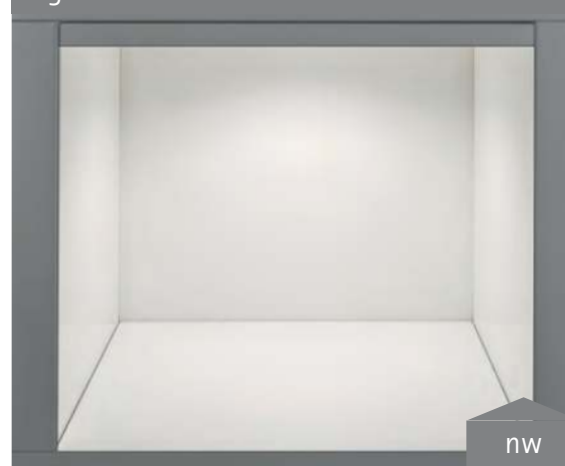


Special lights

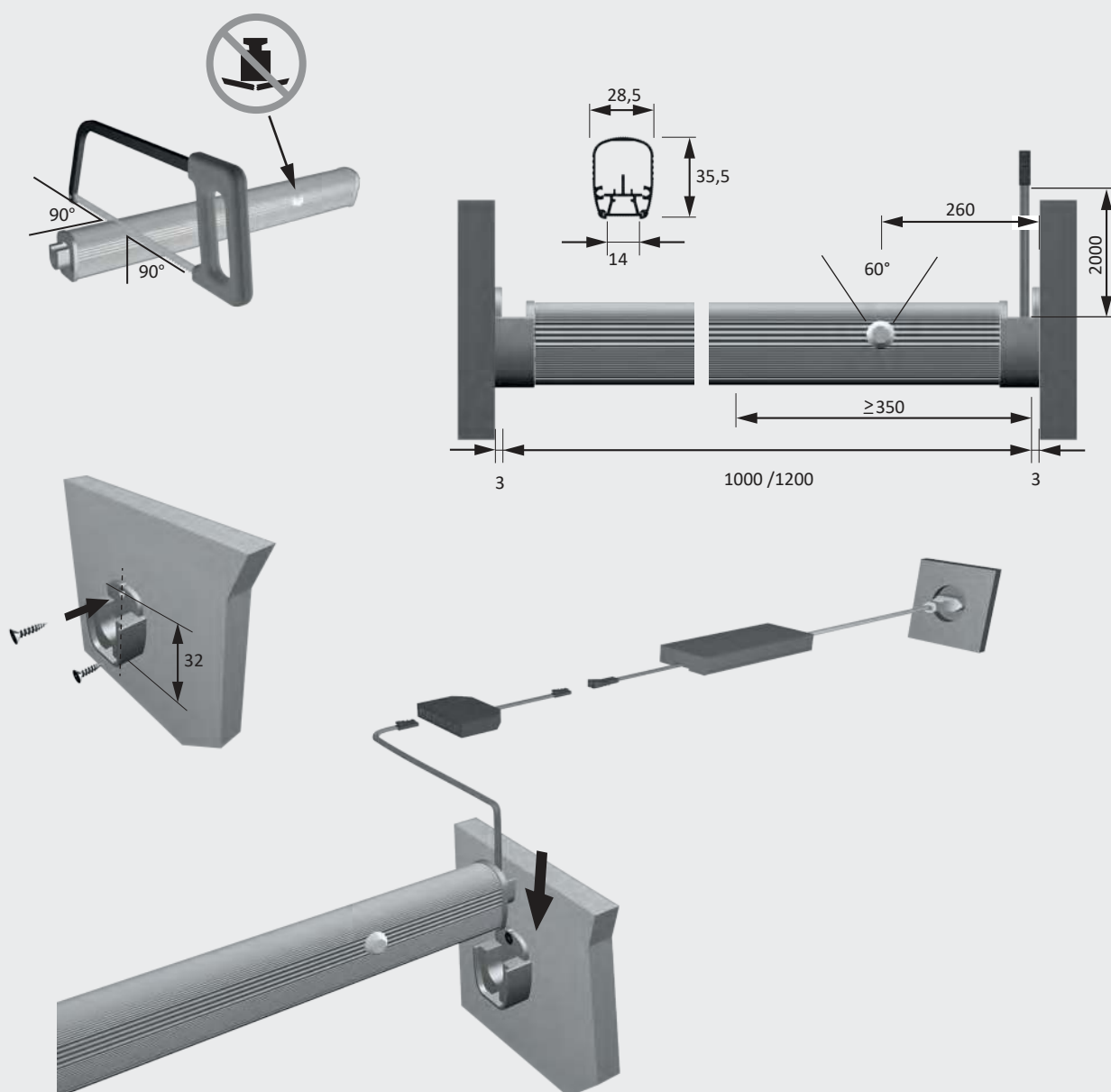
Light distribution diagram 60°

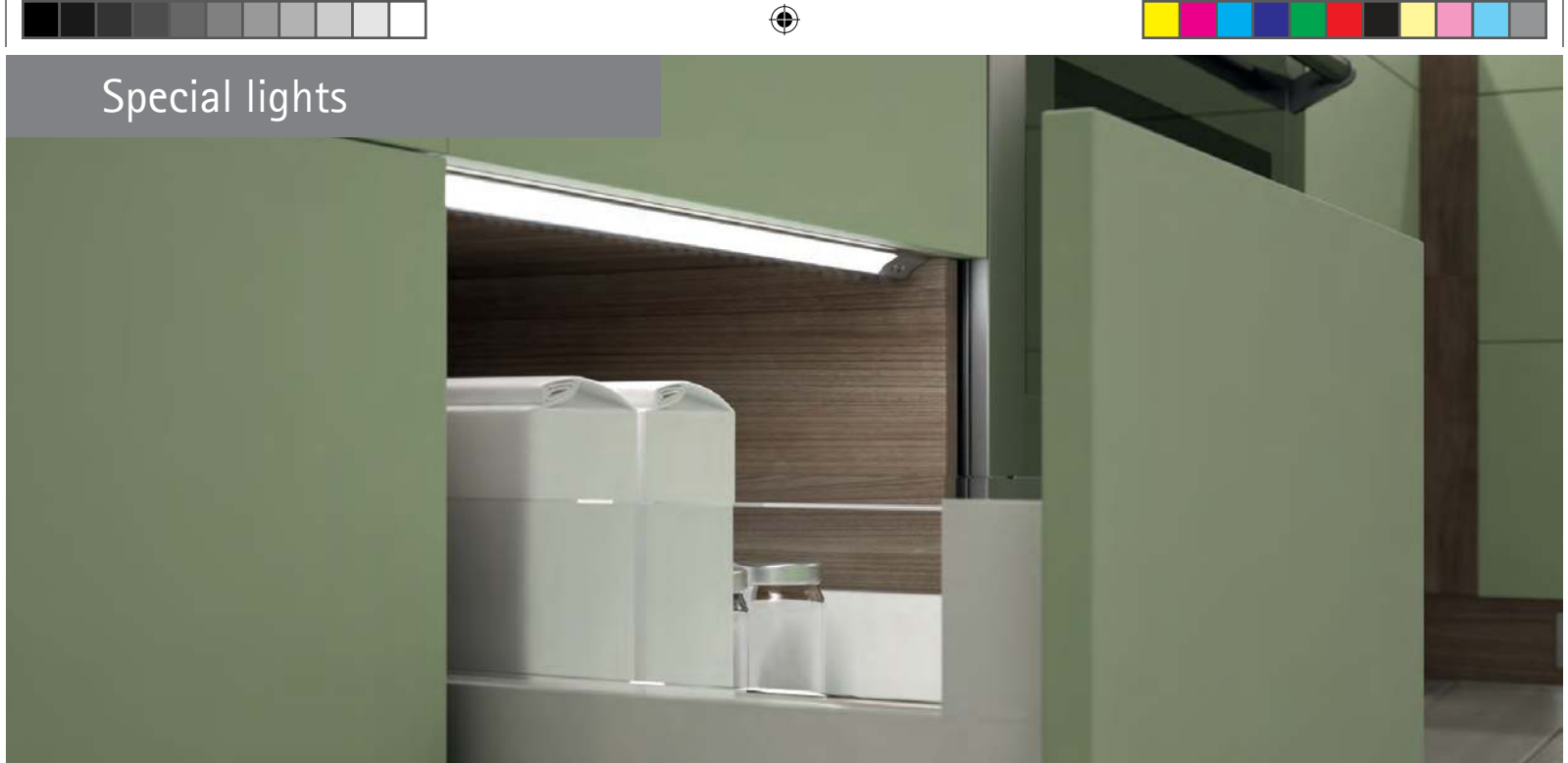


Light box



Dimensional drawing / installation





Special lights

InnoLine Plus

Advantages

- ▶ Drawer lighting
- ▶ No dark zones
- ▶ Integrated infrared sensor switch

Features

- ▶ Can be retrofitted into furniture

Examples of use

- ▶ In drawers

Order information

- ▶ When ordering, specify article number and interior body dimension in mm

Technical details



Article no.	Product description	Qty	Unit	PU	MRP
9335256	InnoLine Plus, NW, 12VDC, 2.3W, L=401-500mm, IR Sensor	1	Pc	1	5,320
9335257	InnoLine Plus, NW, 12VDC, 2.8W, L=501-600mm, IR Sensor	1	Pc	1	4,900
9335258	InnoLine Plus, NW, 12VDC, 4.2W, L=801-900mm, IR Sensor	1	Pc	1	6,500
9335259	InnoLine Plus, NW, 12VDC, 4.7W, L=901-1000mm, IR Sensor	1	Pc	1	6,500
9335260	InnoLine Plus, NW, 12VDC, 5.7W, L=1101-1200mm, IR Sensor	1	Pc	1	7,500

Accessories

Article no.	Product description	Qty	Unit	PU	MRP
9104773	LED extension M1, L=1800mm	1	Pc	1	440
9084272	6-way distributor M1, L=2000mm	1	Pc	1	560

Luminaire type: Surface-mounted light
Type of lighting: Functional lighting
Surface finish: Aluminium
Operating voltage: 12 V DC
Light colour: NeutralWhite

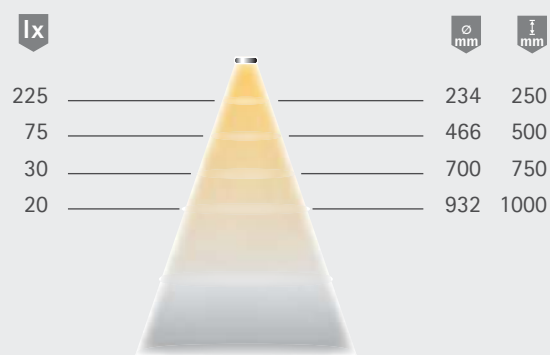
Colour rendering: RA >80
Luminous flux: 158 lm/m
Luminaire efficiency: 34 lm/W
Light source efficiency: 70 lm/W
Sensor range: 3-50mm
Life span: 30,000 h (L70)
Power consumption: see ordering chart
Dimmable: No
Beam angle: 90°
Half value angle: 50°
Test marks and symbols: CE  
Protection rating: IP 20
Supply lead: 2400 mm
Plug connector: LED mini
M1 plug connector
Connection to: LED ballast

*NW : Neutral White

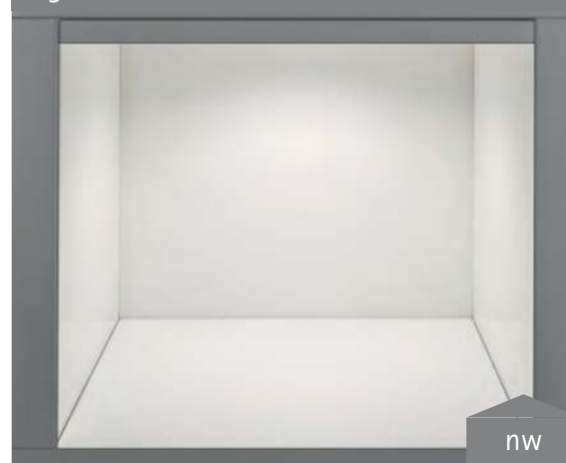


Special lights

Light distribution diagram 50°



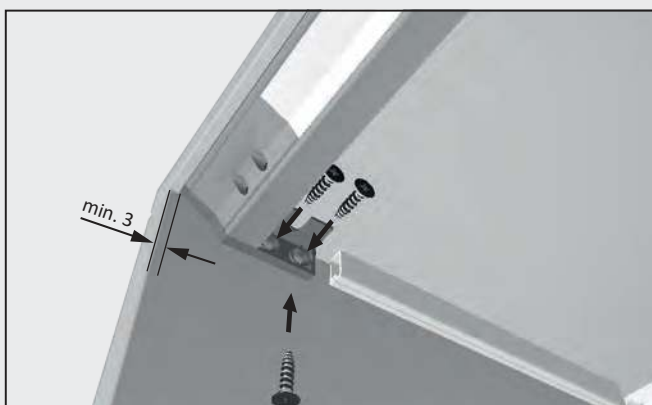
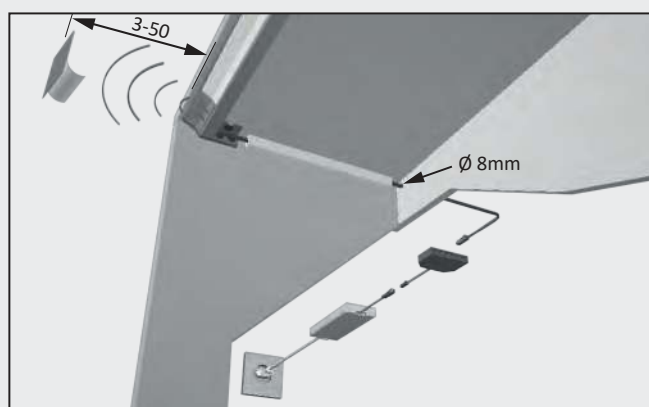
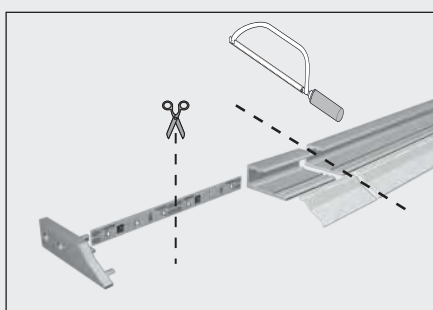
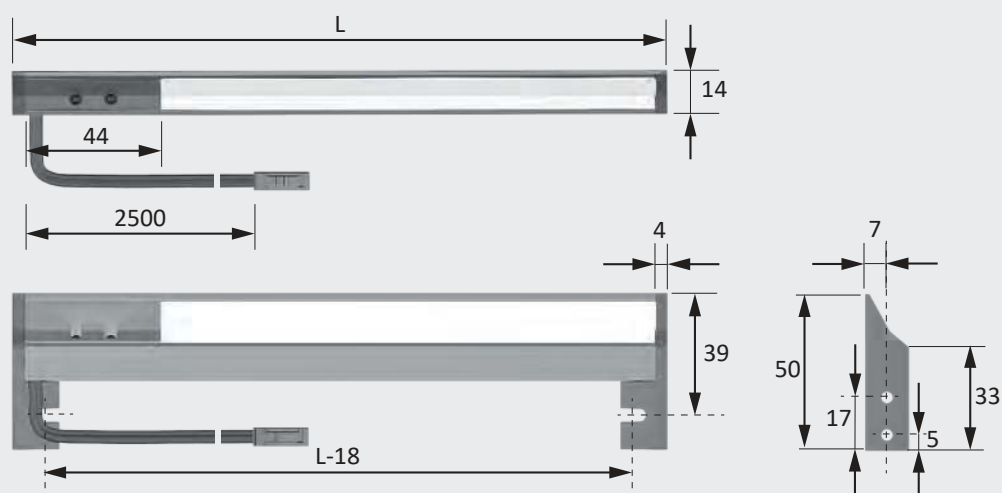
Light box



Dimensional drawing / installation

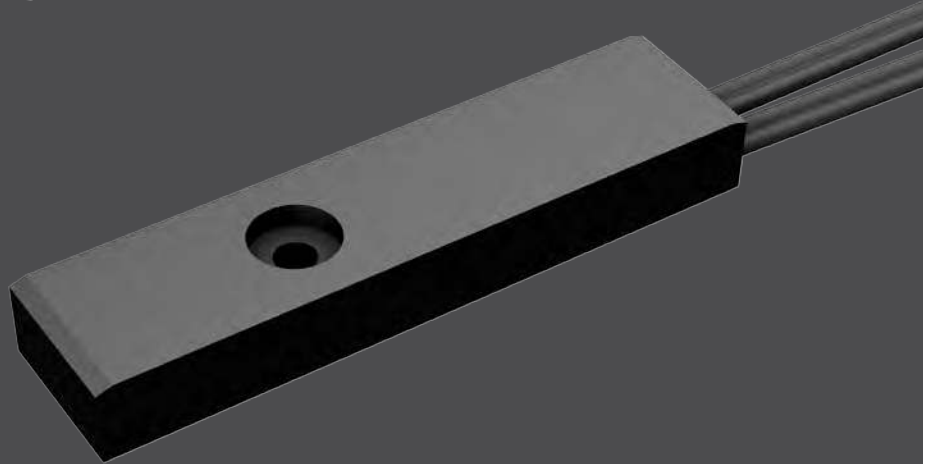
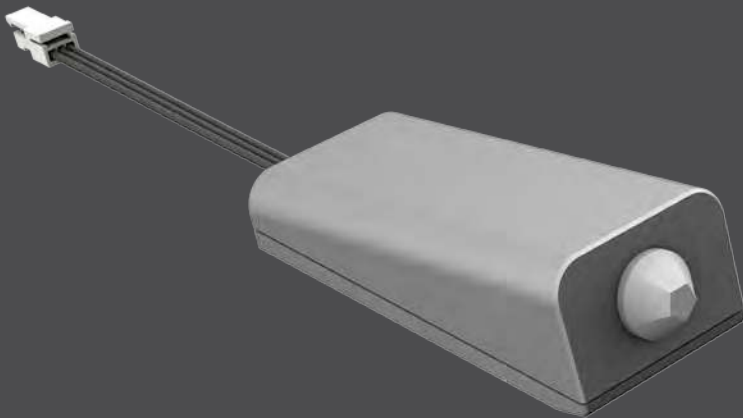
Can be individually cut to size

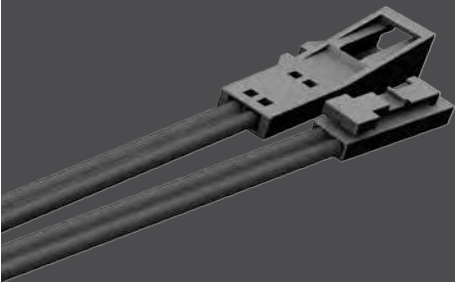
Light can be made to measure





Switch systems





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.

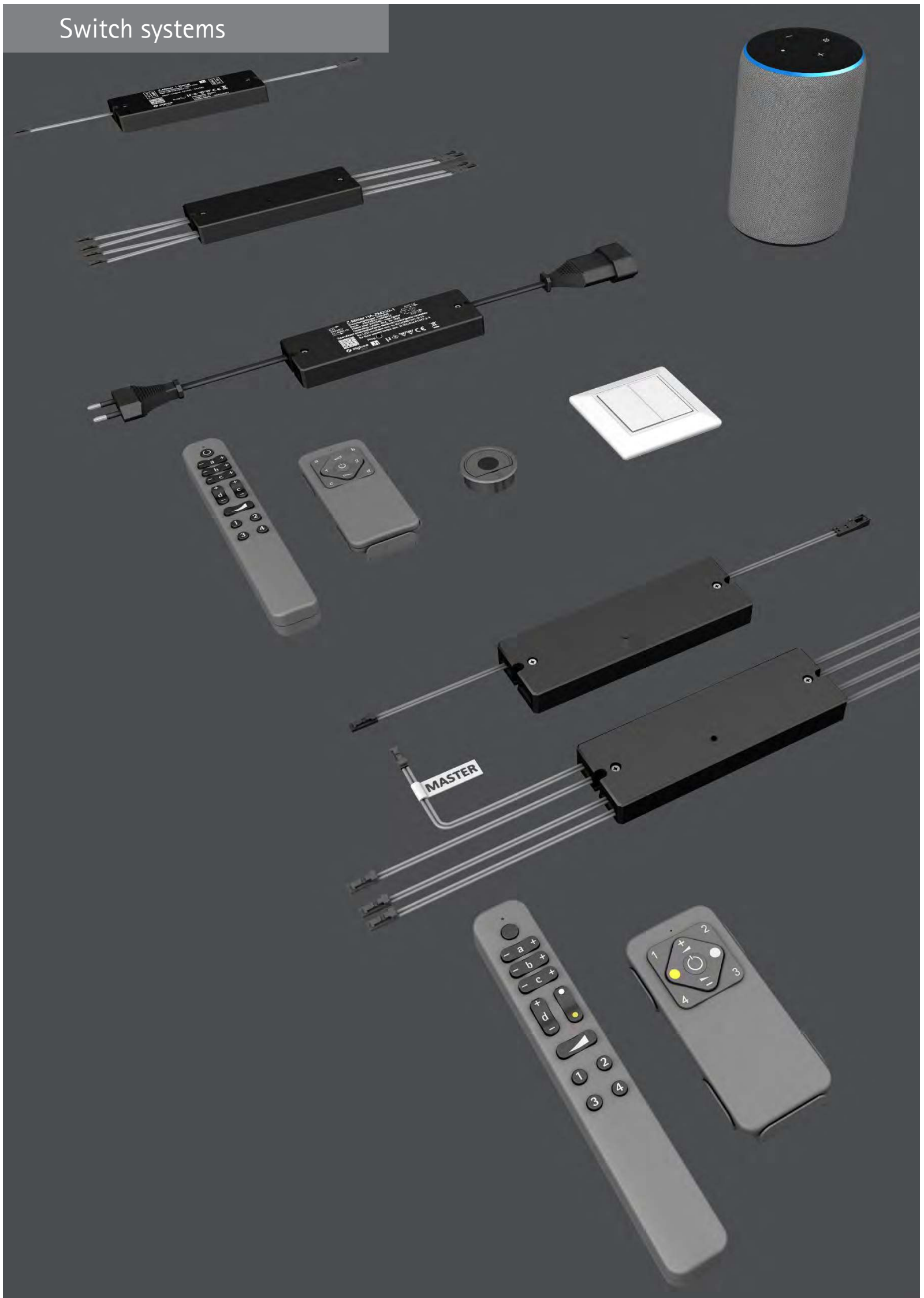
Of course, they can also be operated with the push of a button.

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





Switch systems





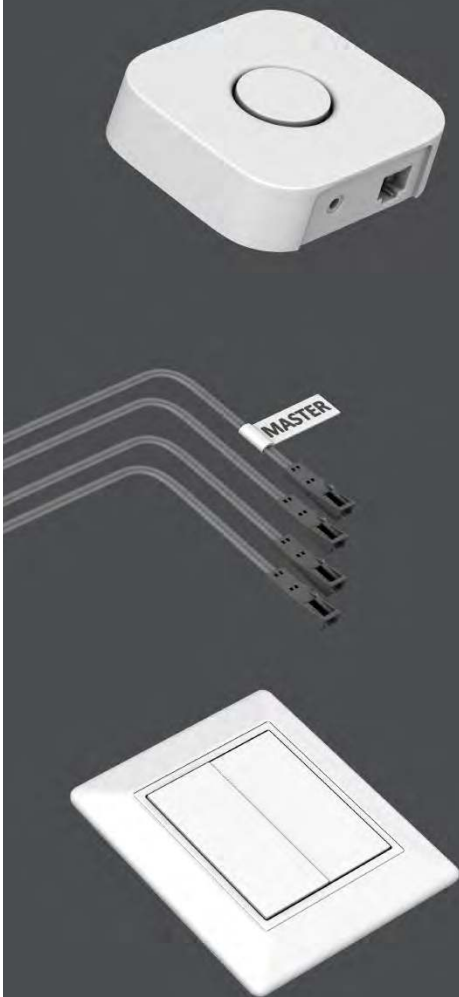
Smart receiver

Simply switch smart – in every situation

Our Smart receivers enable simple and intelligent lighting control. They work independently with 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 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





Switch systems

Product range overview



X-Mitter
Page 78-79

12V



S-Mitter
Page 80-81

12V



4-Mitter
Page 82-83

12V



MultiSwitch² PIR
Page 94-95

12V



Repeater
Page 96-97

12V



IR Door Switch
Page 98

12V



Products are Zigbee compatible





Switch systems

Product range overview



S-Mitter MultiWhite
Page 86-87

12 V



S-Mitter Basic MultiWhite
Page 88-89

12 V



MultiSwitch² Contact
Page 92-93

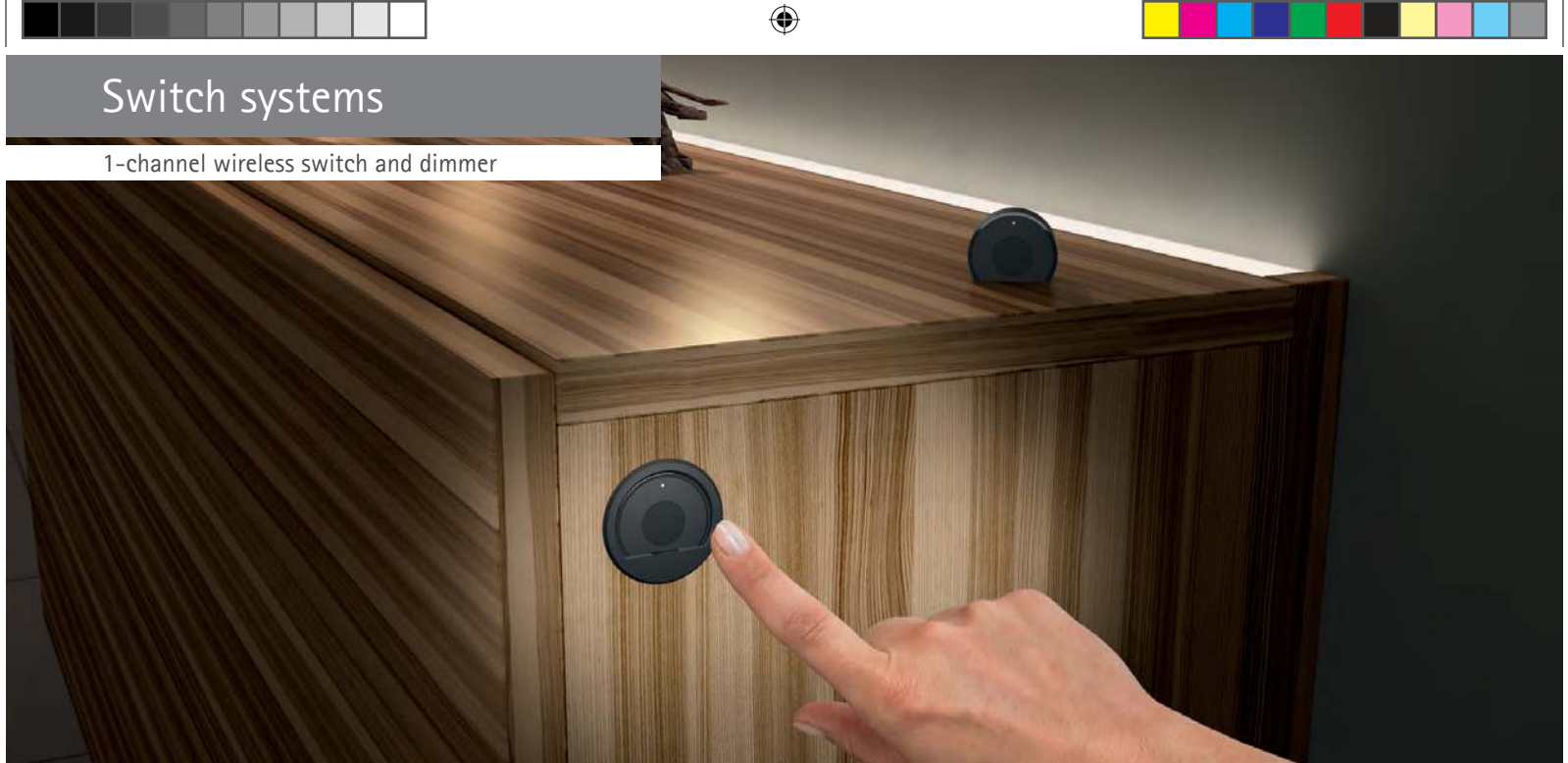
12 V



LED motion sensor
Page 99

12 V





Switch systems

1-channel wireless switch and dimmer

X-Mitter

Advantages

- ▶ 1-channel wireless switch and dimmer
- ▶ Comfortable light switching
- ▶ Can be integrated in a smart home

Features

- ▶ Memory function for power failure
- ▶ Set works independently or in the smart home network
- ▶ Remote control and smart receiver are programmed in the set

Order information

- ▶ The Smart.home overview shows how our switch systems can be combined with each other and with third party providers

Article no.	Product description	Qty	Unit	PU	MRP
9326539	X-Mitter Smart Remote control incl. Mounting Ring	1	Pc	1	3,850

Accessories

Article no.	Product description	Qty	Unit	PU	MRP
9326532	Smart Receiver 12VDC, Max.36W	1	Pc	1	5,250
9326538	Extension set, 12VDC (Smart Receiver Max. 36 watt & 60W Ballast, M1x9)	1	Set	1	13,500

Technical details



Transmitter surface: soft lacquer black
Receiver housing: black
Max. switching power: 12 Volt DC-36 W

Test mark and symbols: CE, ENEC, VDE
Line lengths: see drawing
Standby receiver HV: <0.5 W
Standby receiver NV: <0.3 W
Plug connector: LED connector M1

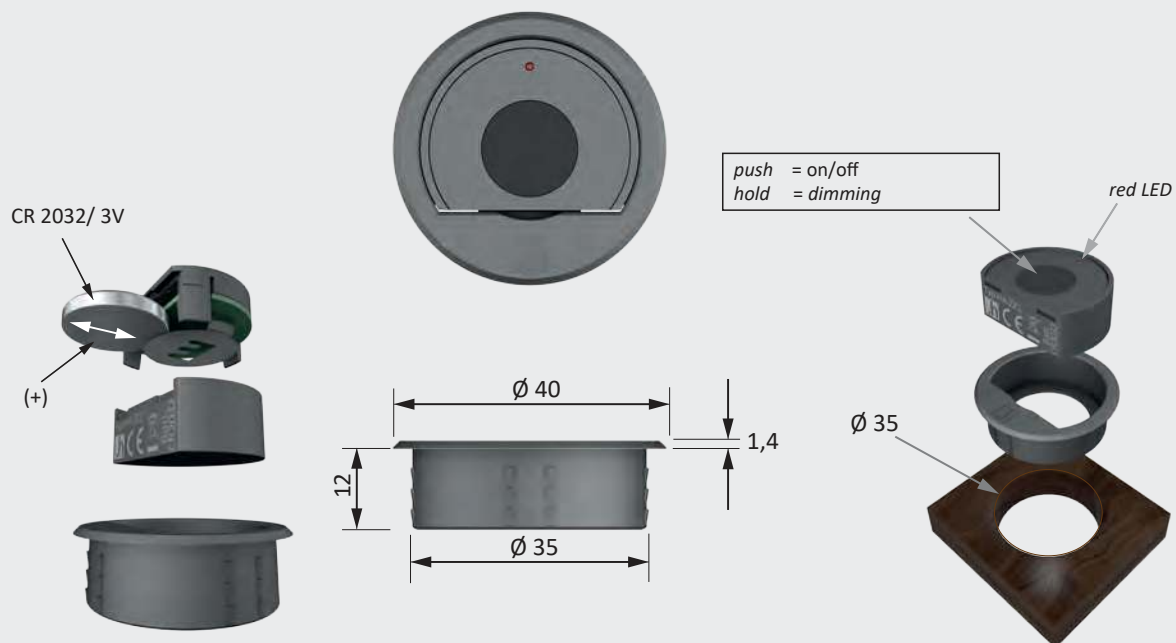


Zigbee controller for controlling lights

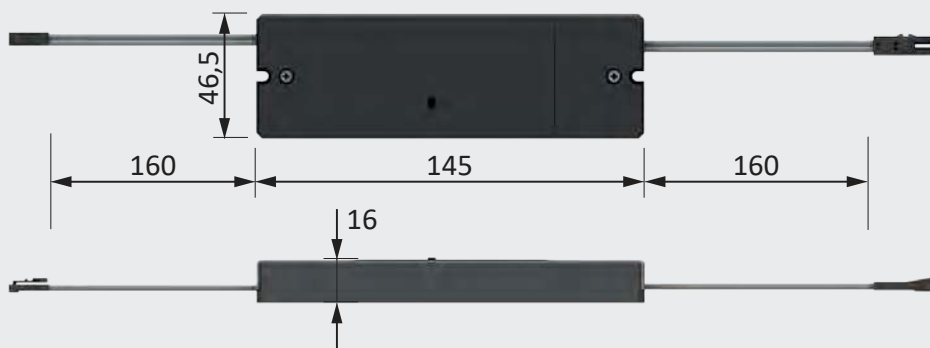
- Uses the Zigbee 3.0 protocol
- Supports Zigbee TouchLink
- Adding devices to the self-configuring Zigbee Touchlink network possible
- Compatible with Zigbee Gateway universal products
- Compatible with Zigbee universal remote controls

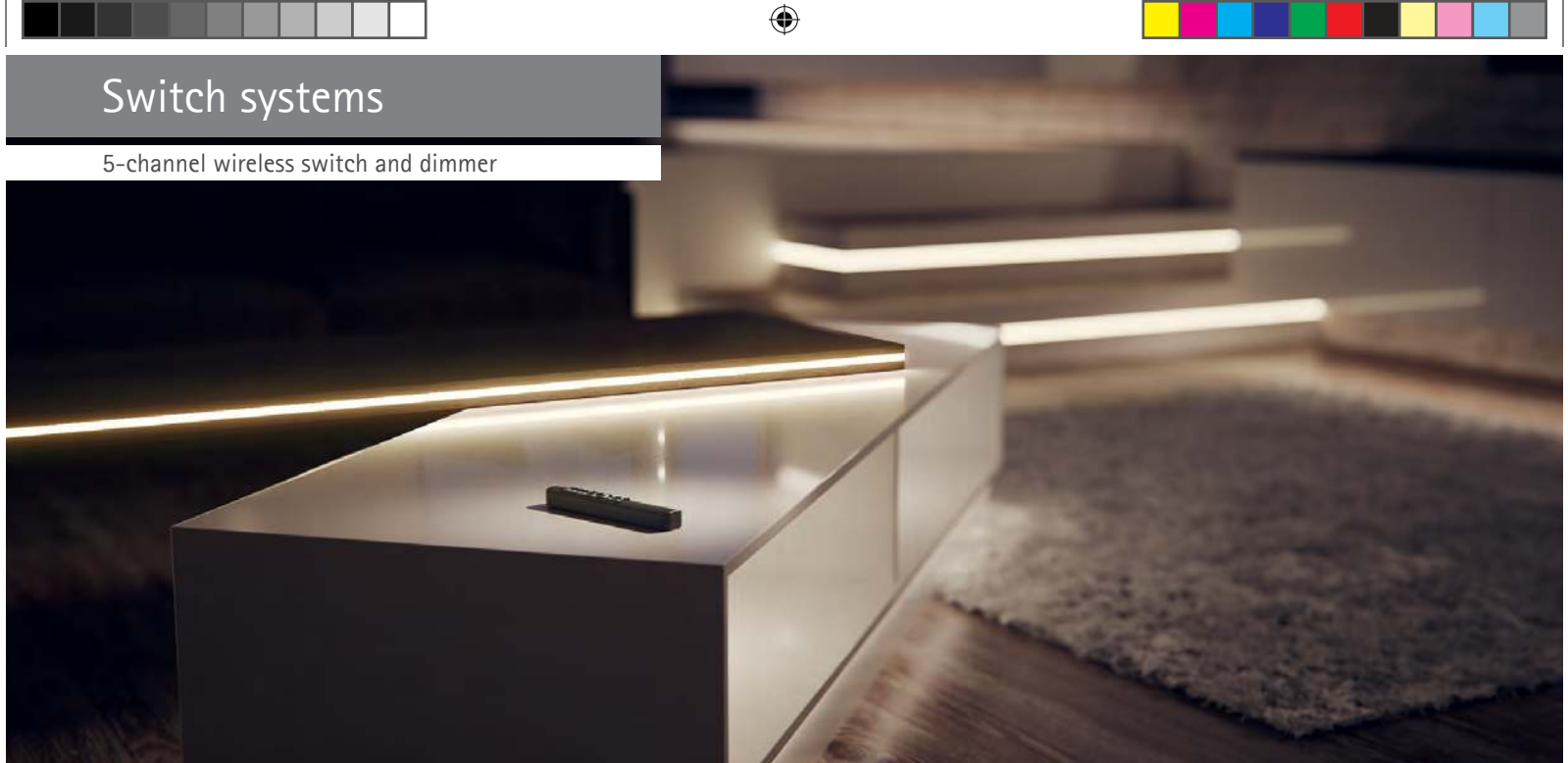


Dimensional drawing / installation



smartreceiver 12VDC





Switch systems

5-channel wireless switch and dimmer

S-Mitter

Advantages

- ▶ 5-channel wireless switch and dimmer
- ▶ Comfortable light switching
- ▶ Can be integrated in a smart home

Features

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

Order information

- ▶ The Smart.home overview shows how our switch systems can be combined with each other and with third party providers

Article no.	Product description	Qty	Unit	PU	MRP
9326542	S-Mitter Smart set, 12VDC (5-channel smart remote control and Smart Receiver,Max 36 Watt)	1	Set	1	10,600
9326545	S-Mitter Smart Remote control	1	Pc	1	4,050

Accessories

Article no.	Product description	Qty	Unit	PU	MRP
9326532	Smart Receiver 12VDC, Max.36W,	1	Pc	1	5,250
9326538	Extension set, 12VDC (Smart Receiver Max. 36 watt & 60W Ballast, M1x9)	1	Set	1	13,500

Technical details



Transmitter surface: soft lacquer black
Receiver housing: black
Max. switching power: 12 Volt DC-36 W

Test mark and symbols:   
Line lengths: see drawing
Standby receiver HV: <0.5 W
Standby receiver NV: <0.3 W
Plug connector: LED
Plug connector M1

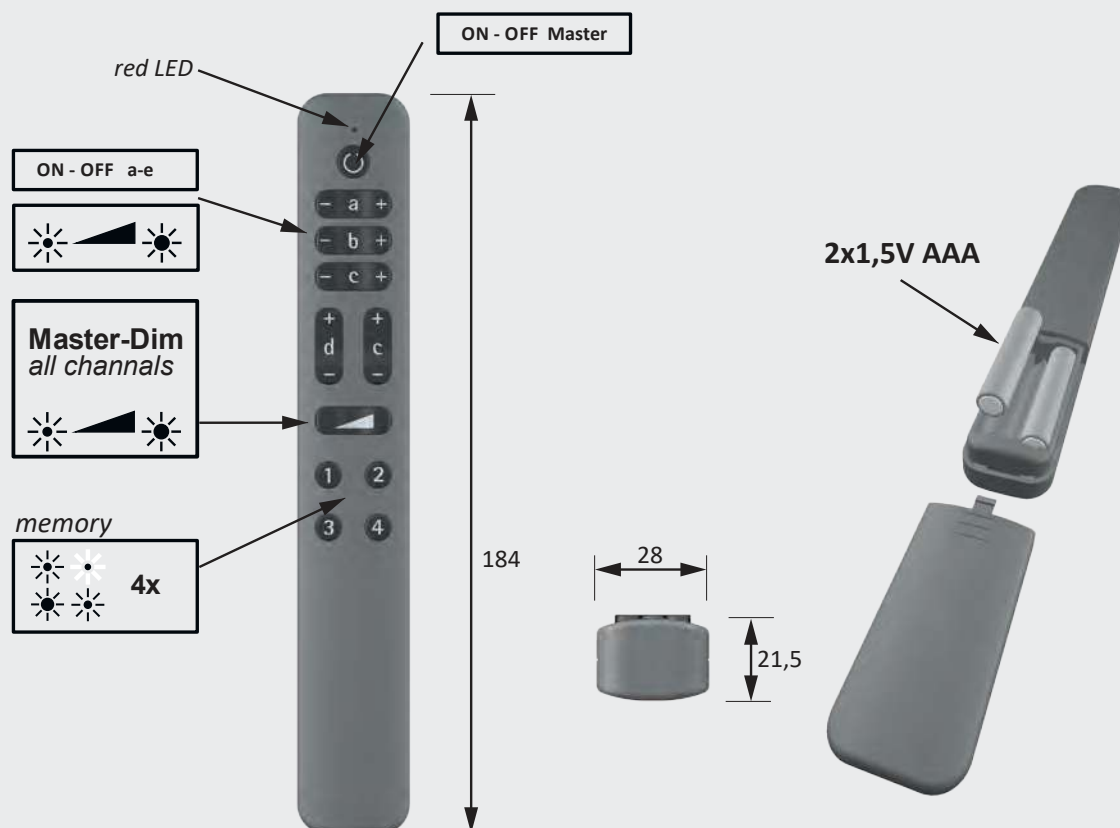


Zigbee controller for controlling lights

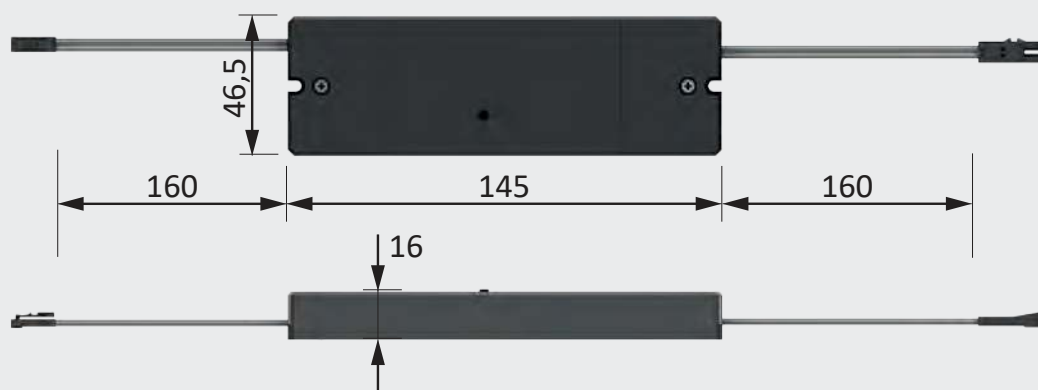
- Uses the Zigbee 3.0 protocol
- Supports Zigbee TouchLink
- Adding devices to the self-configuring Zigbee Touchlink network possible
- Compatible with Zigbee Gateway universal products
- Compatible with Zigbee universal remote controls

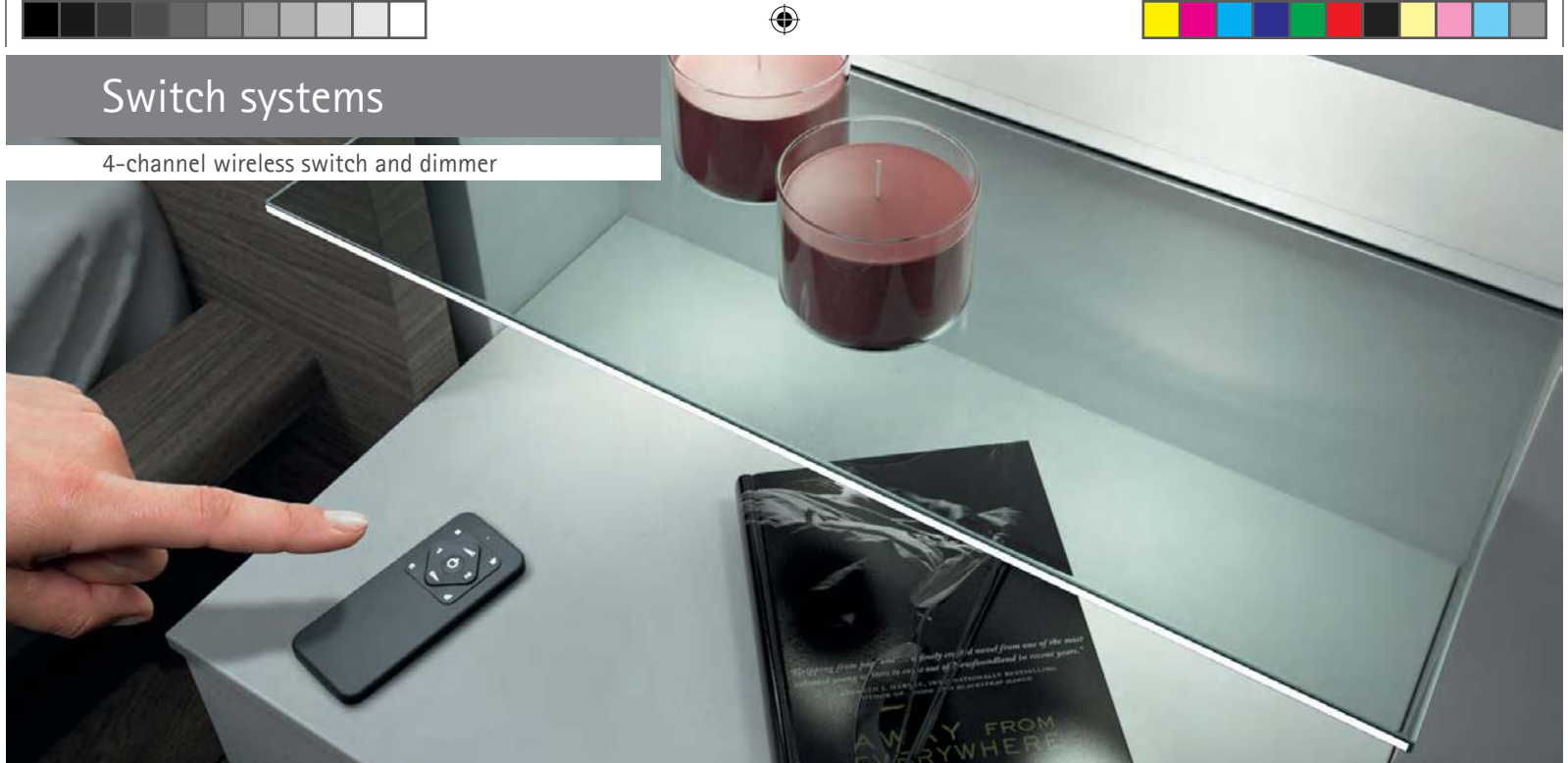


Dimensional drawing / installation



smartreceiver 12VDC





Switch systems

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

- ▶ The Smart.home overview shows how our switch systems can be combined with each other and with third party providers

Article no.	Product description	Qty	Unit	PU	MRP
9312046	4-Mitter Smart Set 12VDC, (4-channel remote control and smart receiver, Max. 4x36 Watt)	1	Set	1	12,500

Technical details



Transmitter surface: Soft lacquer black
Receiver housing: Black
Max. switching power: 12 Volt DC-4*36W

Test marks and symbols: CE, RoHS, WEEE, Energy Star
Supply lead: 160 mm
Switching lead: 160 mm
Standby receiver: <0.3 W
Plug connector: LED
Plug connector M1

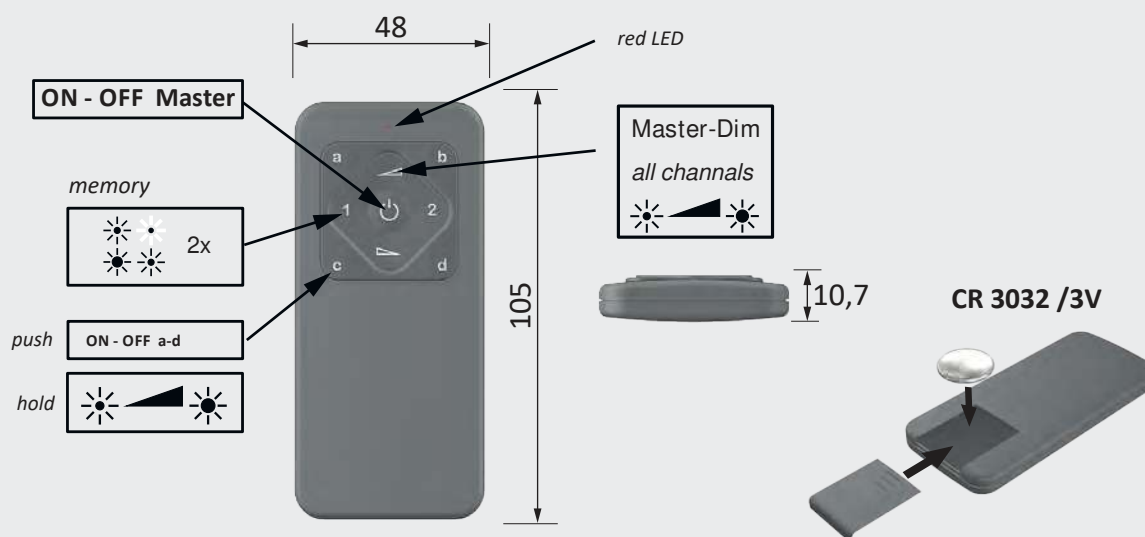


Zigbee controller for controlling lights

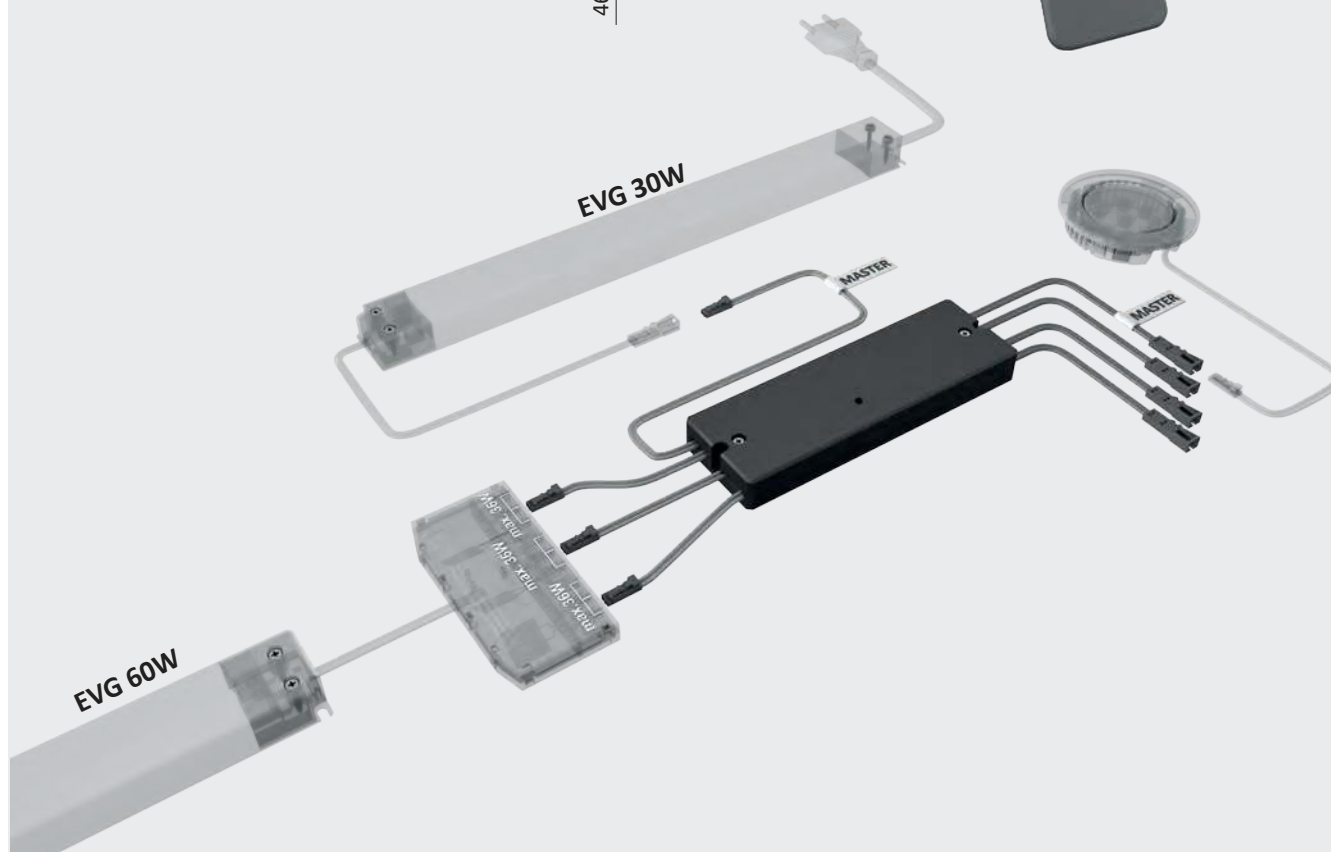
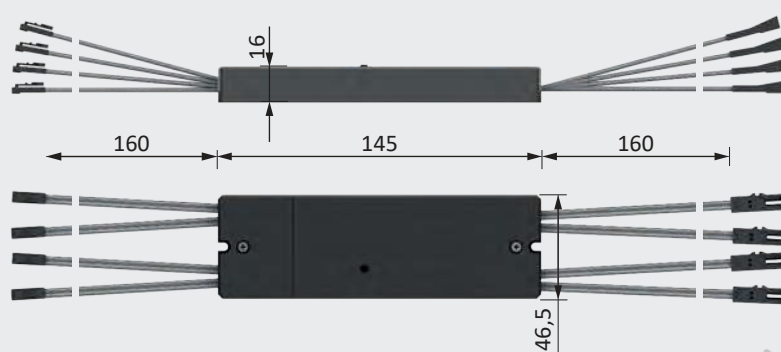
- Uses the Zigbee 3.0 protocol
- Supports Zigbee TouchLink
- Adding devices to the self-configuring Zigbee Touchlink network possible
- Compatible with Zigbee Gateway universal products
- Compatible with Zigbee universal remote controls



Dimensional drawing / installation

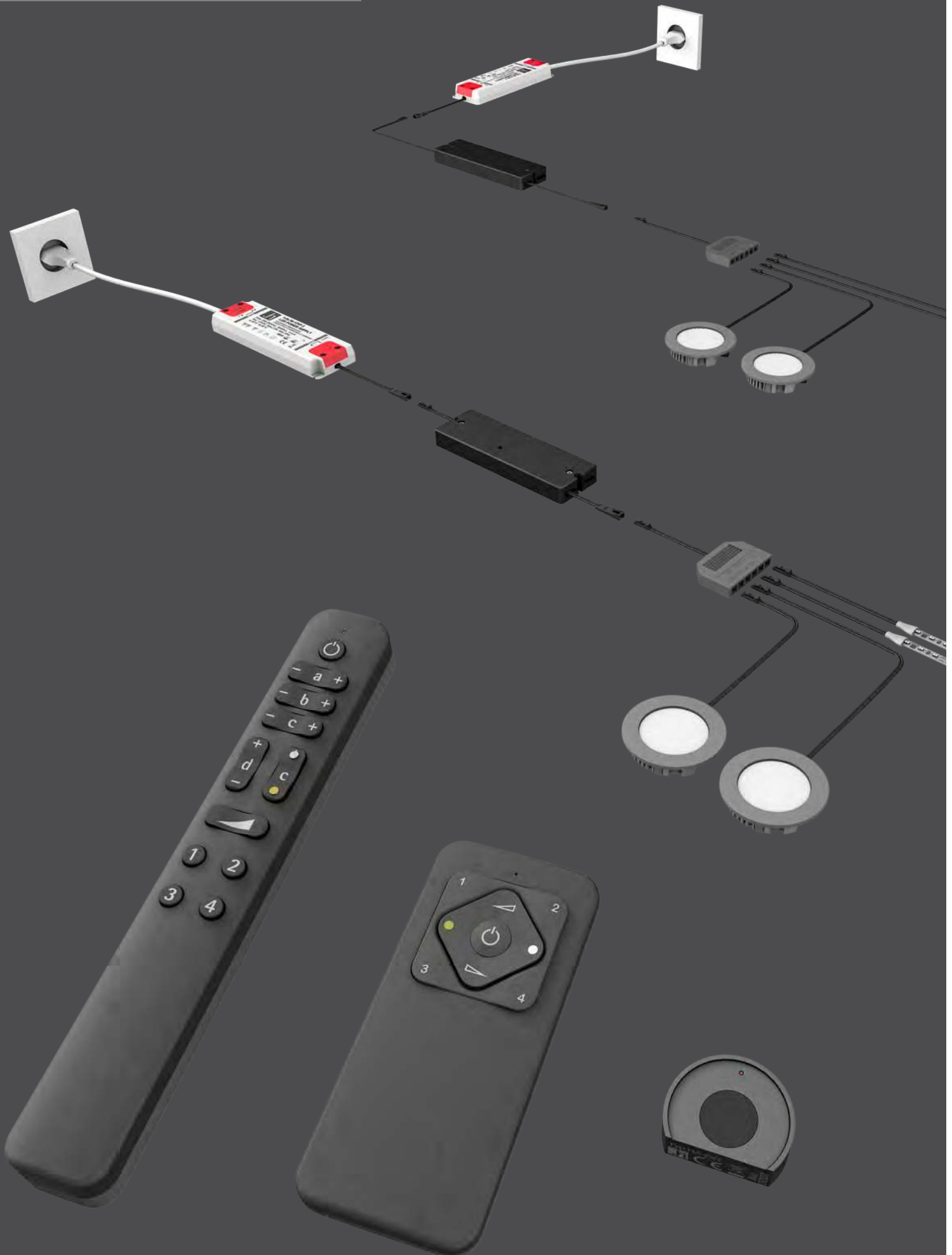


smartreceiver 12VDC





Switch systems





MultiWhite

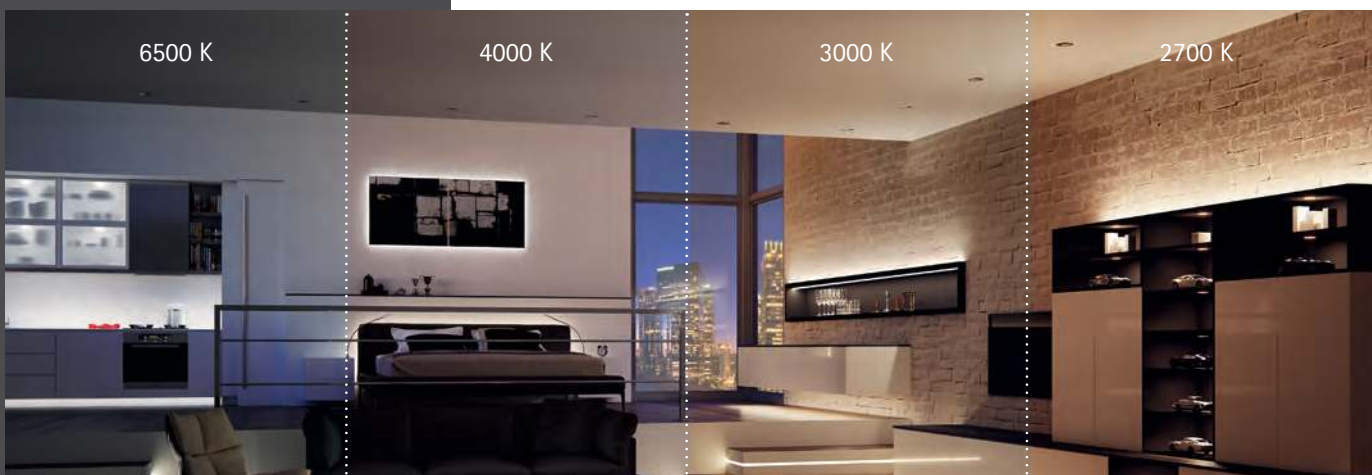
Always the right light colour

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.

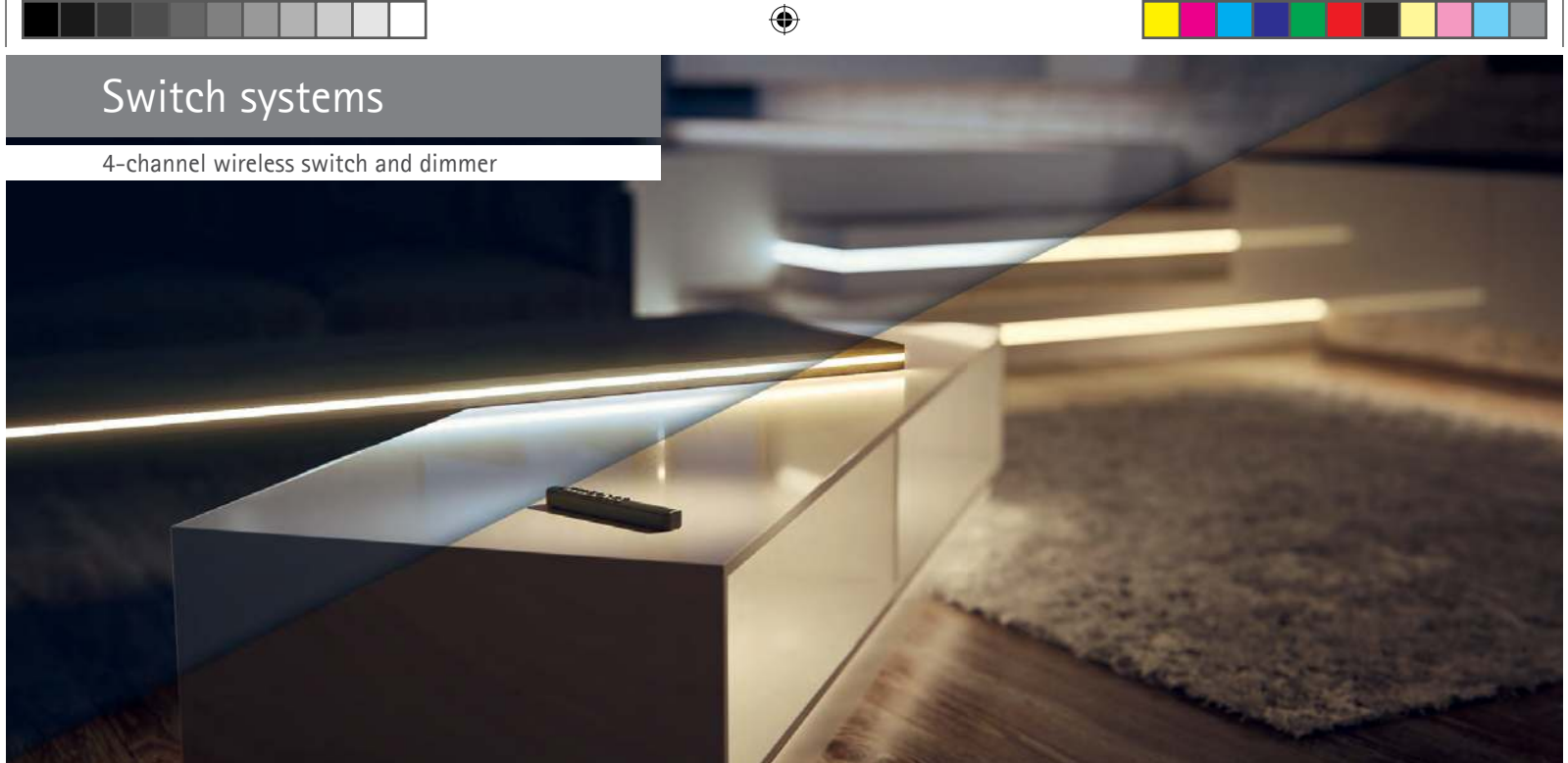
By choosing MultiWhite, you're always on the safe side. If customer wishes or requirements change, you can react completely flexibly with the product.

MultiWhite can also be easily adapted to existing luminaires.



From ExtraWarmWhite to CoolWhite – MultiWhite is always the right choice





Switch systems

4-channel wireless switch and dimmer

S-Mitter MultiWhite

Advantages

- ▶ 4-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

- ▶ The Smart.home overview shows how our switch systems can be combined with each other and with third-party suppliers

Article no.	Product description	Qty	Unit	PU	MRP
9326546	S-Mitter MW ² Smart Remote control	1	Pc	1	4,050

Accessories

Article no.	Product description	Qty	Unit	PU	MRP
9312158	Smart Receiver MW ² , 1- Channel, Max.36W	1	Pc	1	5,250
9312160	Extension Set 12VDC (Smart Receiver & 60 W Ballast, M1x9)	1	Set	1	15,000

Technical details



For use with:

MultiWhite
LED lights
soft lacquer black
black
12 Volt DC-
36 W

Transmitter surface:

Receiver housing:

Max. switching power:

Test marks and symbols:

Supply lead:

Switching lead:

Standby receiver:

Plug connector:

CE   
160 mm
160 mm
<0.3 W
LED mini
connector M1

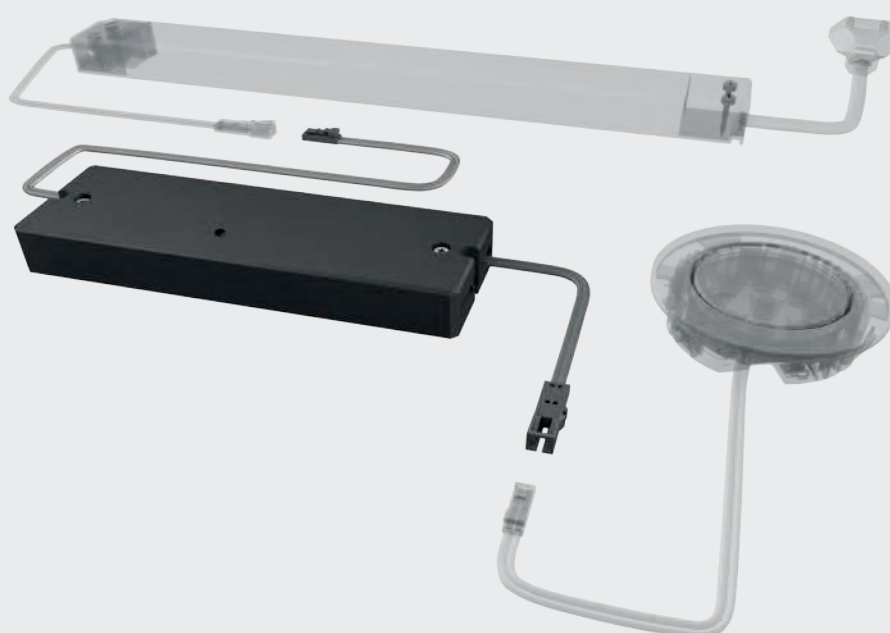
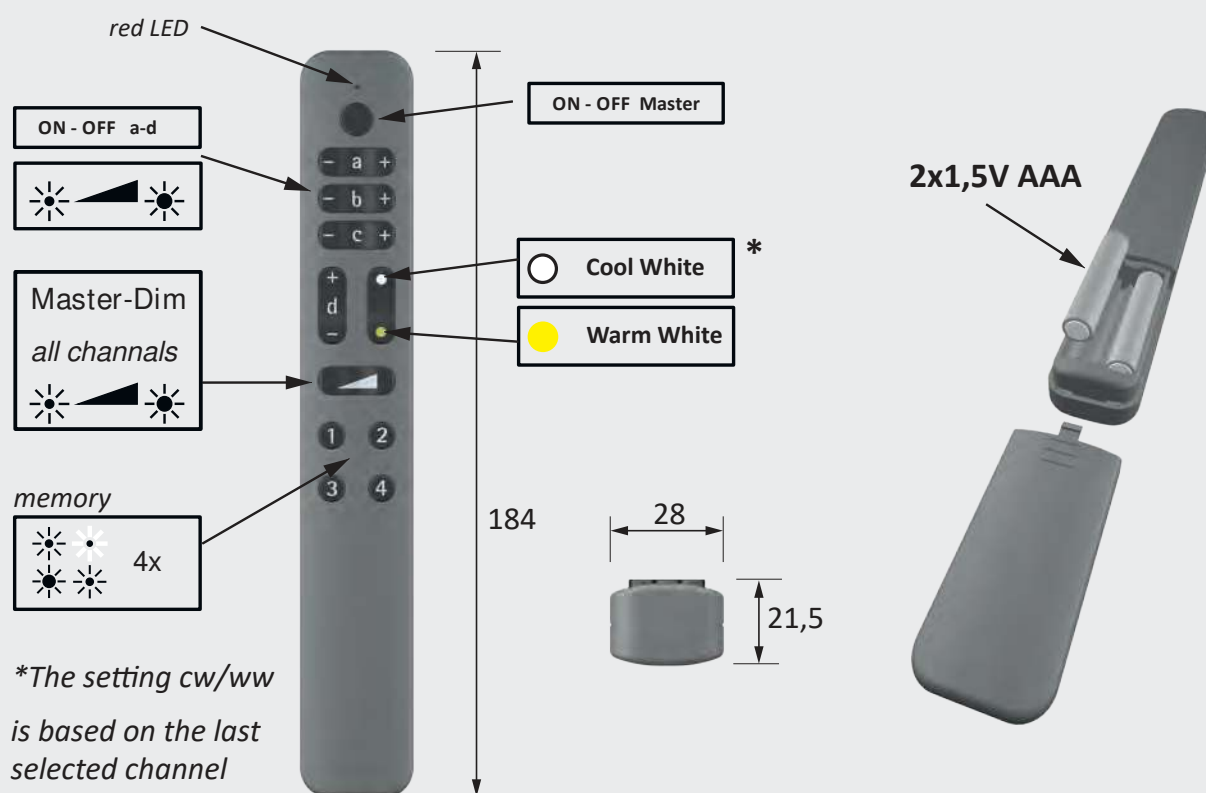


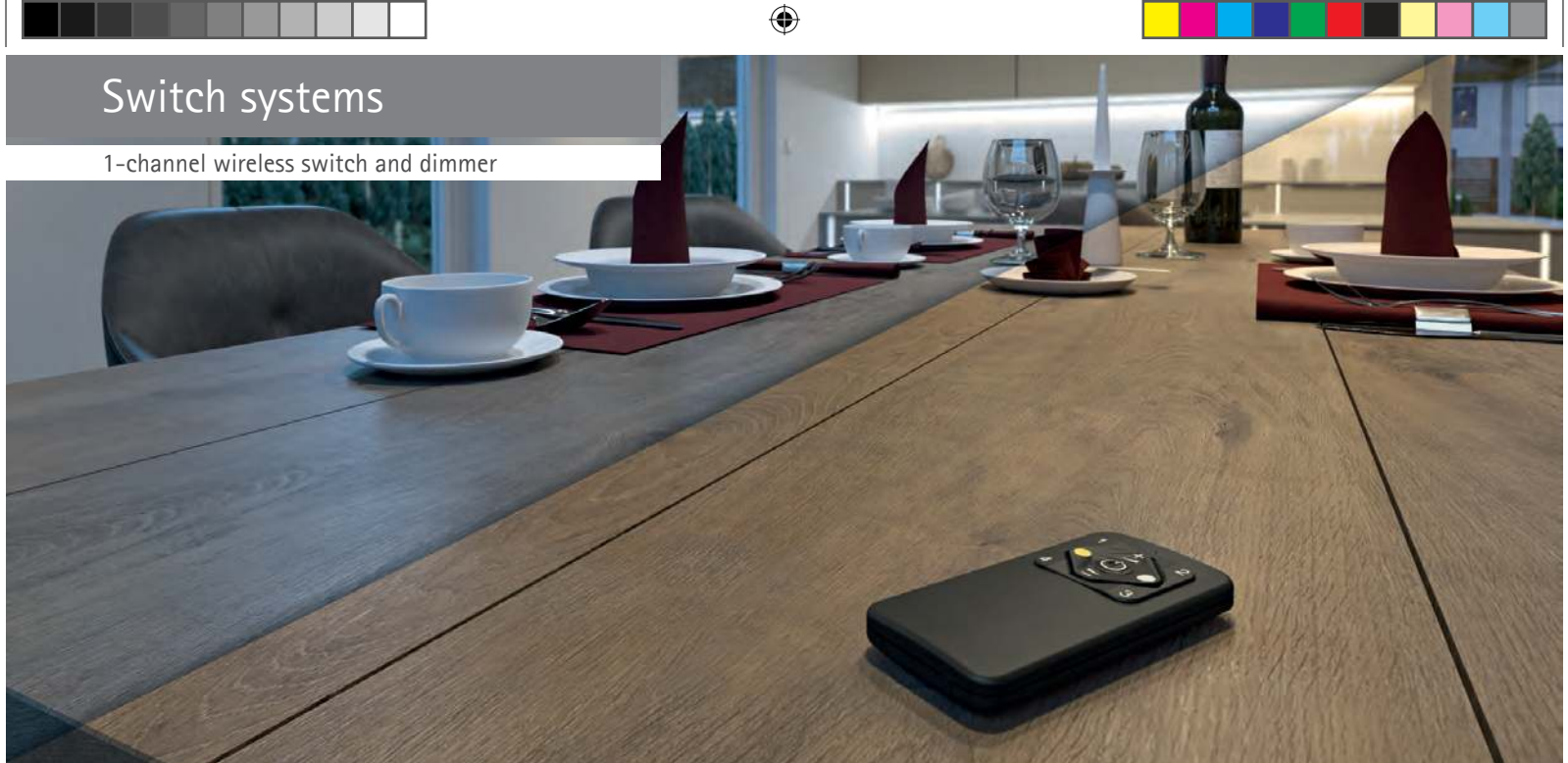
ZigBee controller for the control of MultiWhite lights via 2-wire system

- 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





Switch systems

1-channel wireless switch and dimmer

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

- ▶ The Smart.home overview shows how our switch systems can be combined with each other and with third-party suppliers

Article no.	Product description	Qty	Unit	PU	MRP
9312157	S-Mitter Basic MW ² Remote control	1	Pc	1	3,850

Accessories

Article no.	Product description	Qty	Unit	PU	MRP
9312158	Smart Receiver MW ² , 1- Channel, Max.36W	1	Pc	1	5,250
9312160	Extension Set 12VDC (Smart Receiver Max. 36 watt & 60 W Ballast, M1x9)	1	Set	1	15,000

Technical details



For use with:
Transmitter surface: LED lights
Receiver housing: soft lacquer black
Max. switching power: 12 Volt DC-
36 W

Test marks and symbols:    

Supply lead: 160 mm
Switching lead: 160 mm
Standby receiver: <0.3 W
Plug connector: LED
M1 plug connector

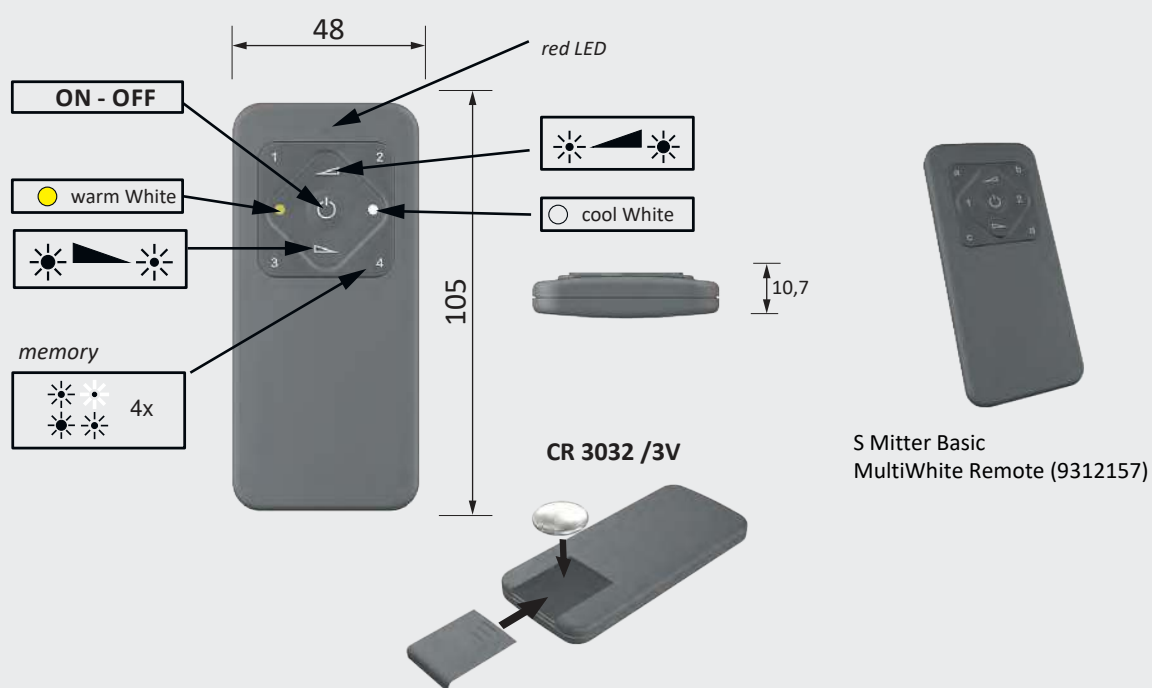


ZigBee controller for the control of MultiWhite lights via 2-wire system

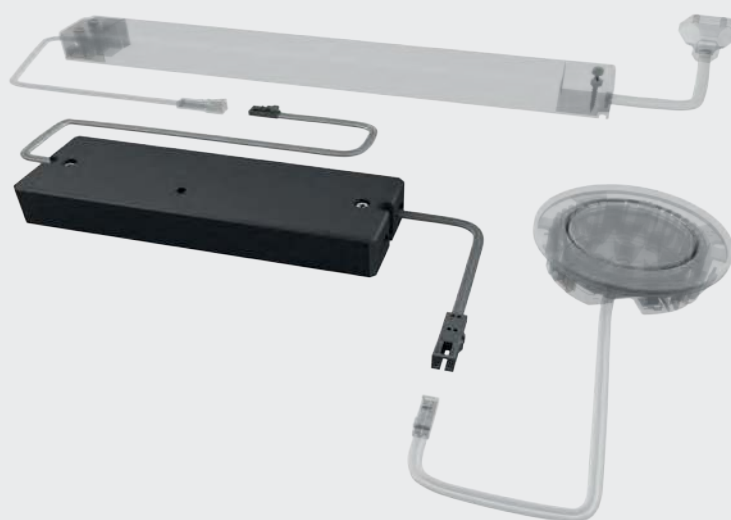
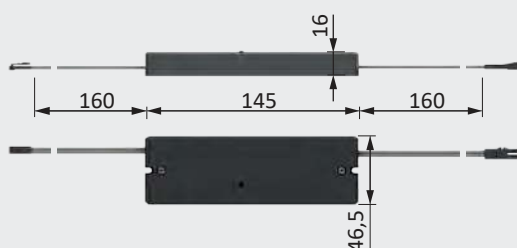
- Uses the Zigbee 3.0 protocol
- Supports Zigbee TouchLink
- Adding devices to the self-configuring Zigbee Touchlink network possible
- Compatible with Zigbee Gateway universal products
- Compatible with CCT Zigbee universal remote controls



Dimensional drawing / installation

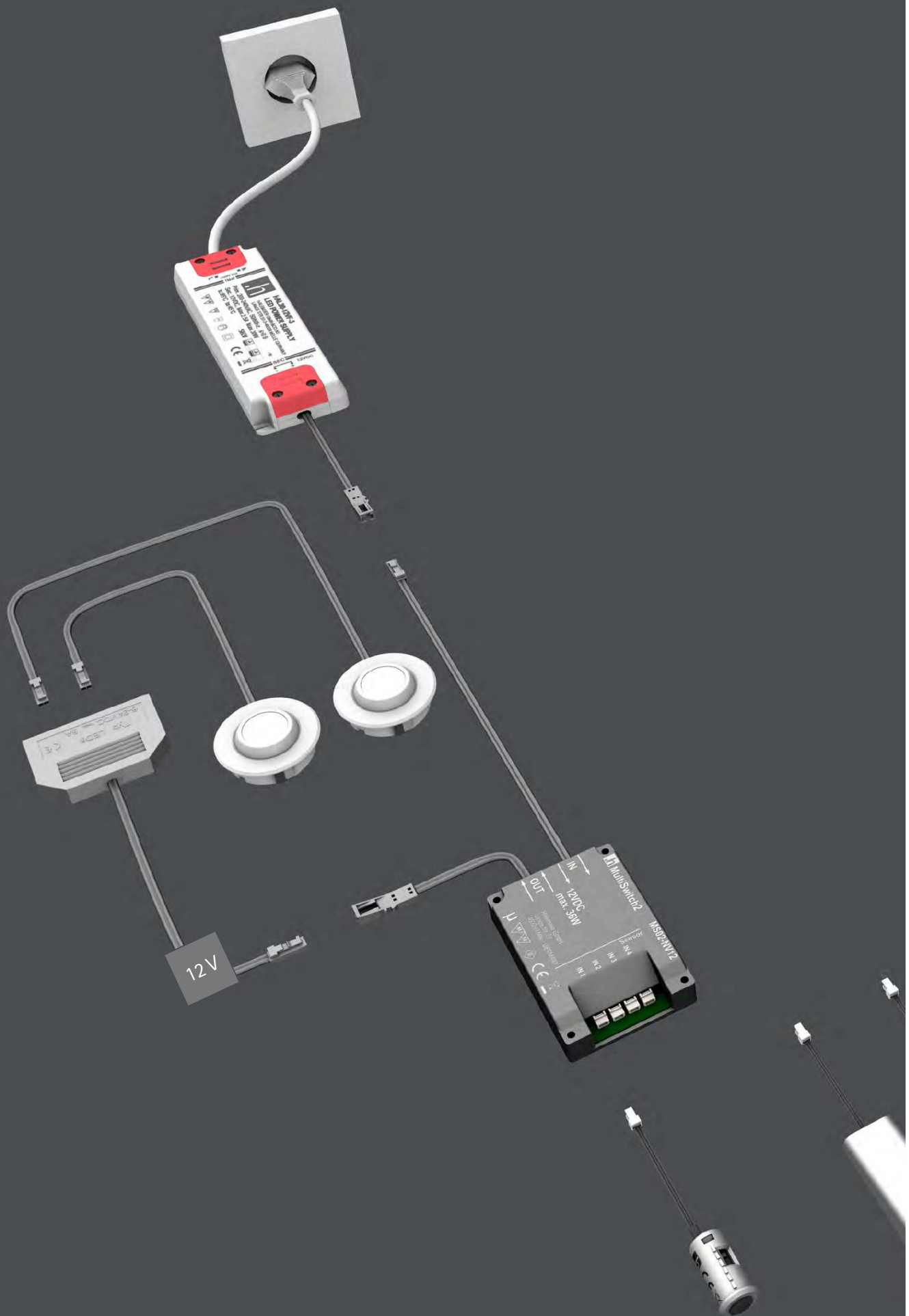


Smart Receiver (9312158)





Switch systems





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.

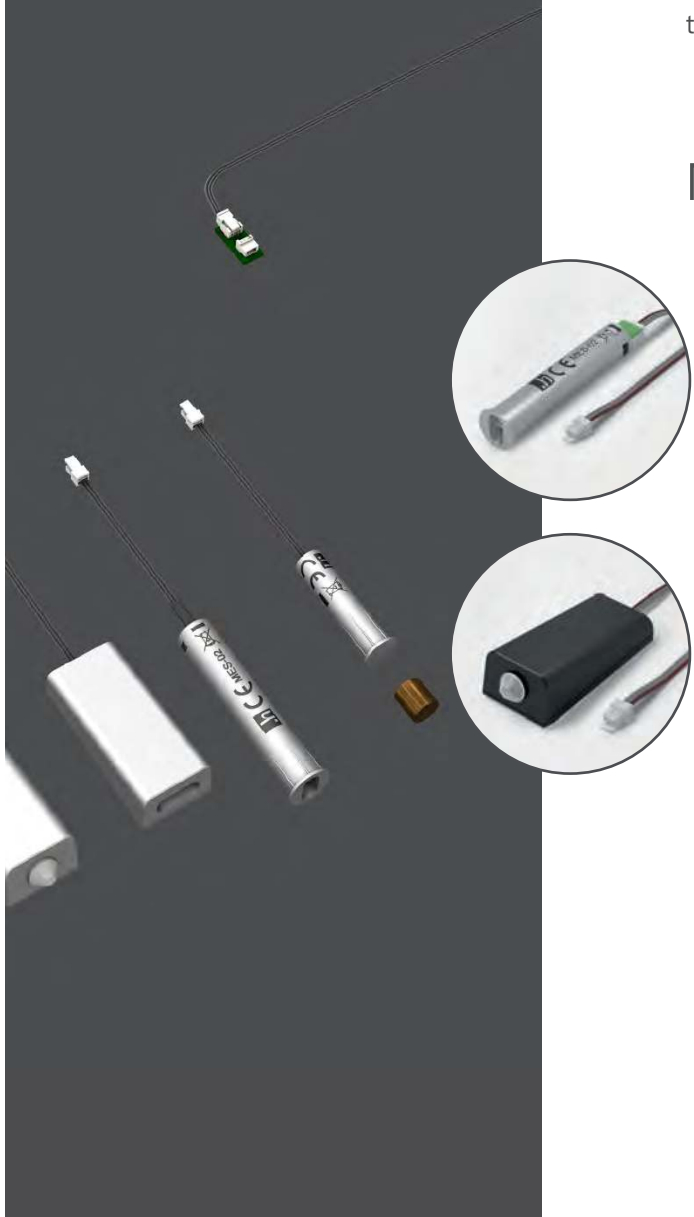
The overall smaller plug-in system is space-saving and the intelligent sensor system prevents faulty switching.

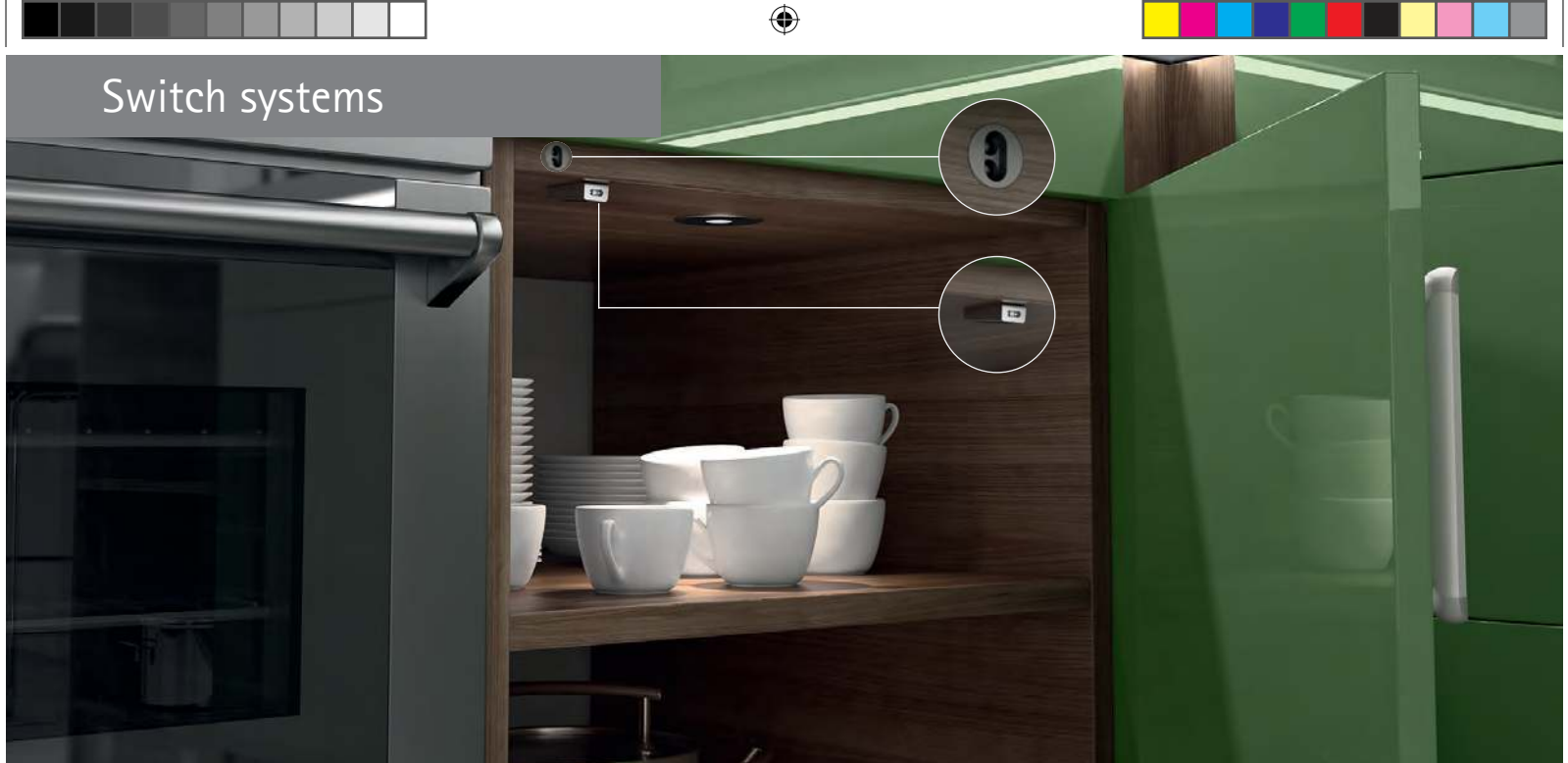
In addition, the sensors are now also available in the trendy colour black.

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)





Switch systems

MultiSwitch² Contact

Advantages

- ▶ Infrared sensor for drill-hole or surface mounting
- ▶ 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 Volt DC)
- ▶ Memory function for power failure
- ▶ Not compatible with dimmers
- ▶ The sensor has two settings switch and doorcontact

Examples of use

- ▶ Door contact switch
- ▶ Non-contact sensor switch (infrared sensor for screwing on)

Article no.	Product description	Qty	Unit	PU	MRP
9308466	MultiSwitch² drill in sensor (IR door contact switch, Aluminium.)	1	Pc	1	1,750
9312193	MultiSwitch² drill in sensor (IR door contact switch, Black)	1	Pc	1	1,600
9309582	MultiSwitch² IR surface mounted Door, (IR sensor or door contact switch, Aluminium.)	1	Pc	1	1,900
9312192	MultiSwitch² IR surface, (IR sensor or door contact switch, Black)	1	Pc	1	1,750
9326517	MultiSwitch² Master 230-240V, AC, 500 W, 3m Euro Plug 150mm, Jack	1	Pc	1	5,300
9308462	MultiSwitch² Master 12VDC, Max.36W	1	Pc	1	3,000

Accessories

Article no.	Product description	Qty	Unit	PU	MRP
9246079	Repeater for 12VDC, Max.36W	1	Pc	1	1,700
9315711	Extension MultiSwitch² 3000mm	1	Pc	1	370

Technical details



For use with: LED lights
Max. switching power: 12 Volt DC-36 W
230 V AC-500 W

Test marks and symbols: CE, WEEE, RoHS
Switching distance: see drawing
Sensor lead: 3000 mm

Master unit
Supply lead: HV 3000 mm
LV 2000 mm

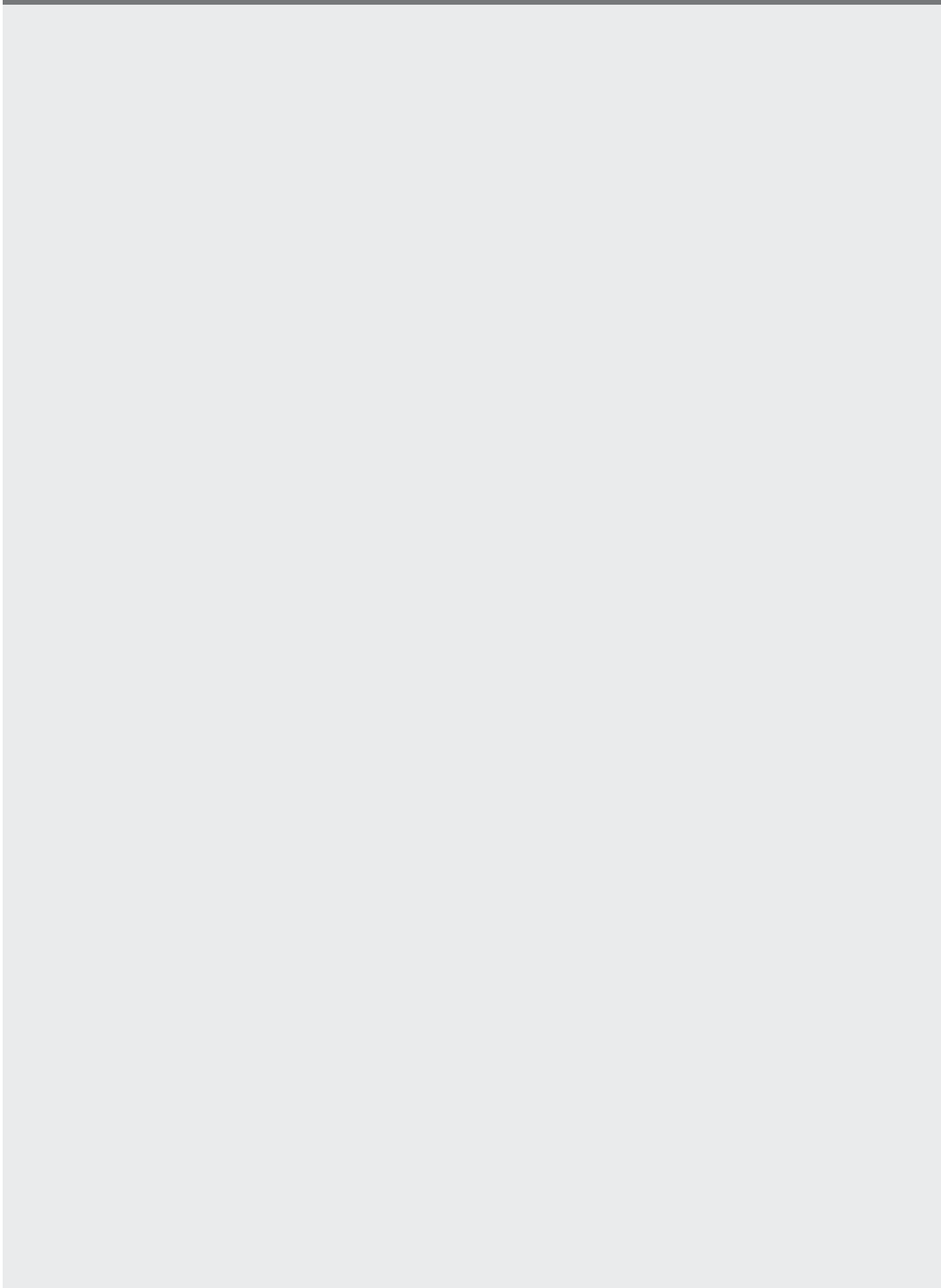
Switching lead: HV 150 mm
LV 300 mm

Standby: <0.5 W

Plug connector: LED connector
M1/MP2/
Euroflat



Dimensional drawing / installation





Switch systems



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 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

Article no.	Product description	Qty	Unit	PU	MRP
9312194	MultiSwitch ² PIR sensor for surface mounting (motion sensor), Aluminium	1	Pc	1	1,800
9312195	MultiSwitch ² PIR sensor for surface mounting (motion sensor), Black	1	Pc	1	1,600
9326517	MultiSwitch ² Master 230-240V AC 500 W, 3m Euro Plug 150mm, Jack	1	Pc	1	5,300
9308462	MultiSwitch ² Master 12VDC, Max.36W	1	Pc	1	3,000

Accessories

Article no.	Product description	Qty	Unit	PU	MRP
9246079	Repeater for 12VDC, Max.36W	1	Pc	1	1,700
9315711	Extension MultiSwitch ² 3000mm	1	Pc	1	370

Technical details



12 V

For use with: LED lights
Max. switching power: 12 Volt DC-36 W
230 V AC-500 W

Test marks and symbols:  

Motion sensor
Sensing angle: 120°
Range: 2 m
Stay-'ON' time: 30 seconds
Sensor lead: 3000 mm
Master unit
Supply lead: HV 3000 mm
LV 2000 mm

Switching lead: HV 150 mm
LV 300 mm

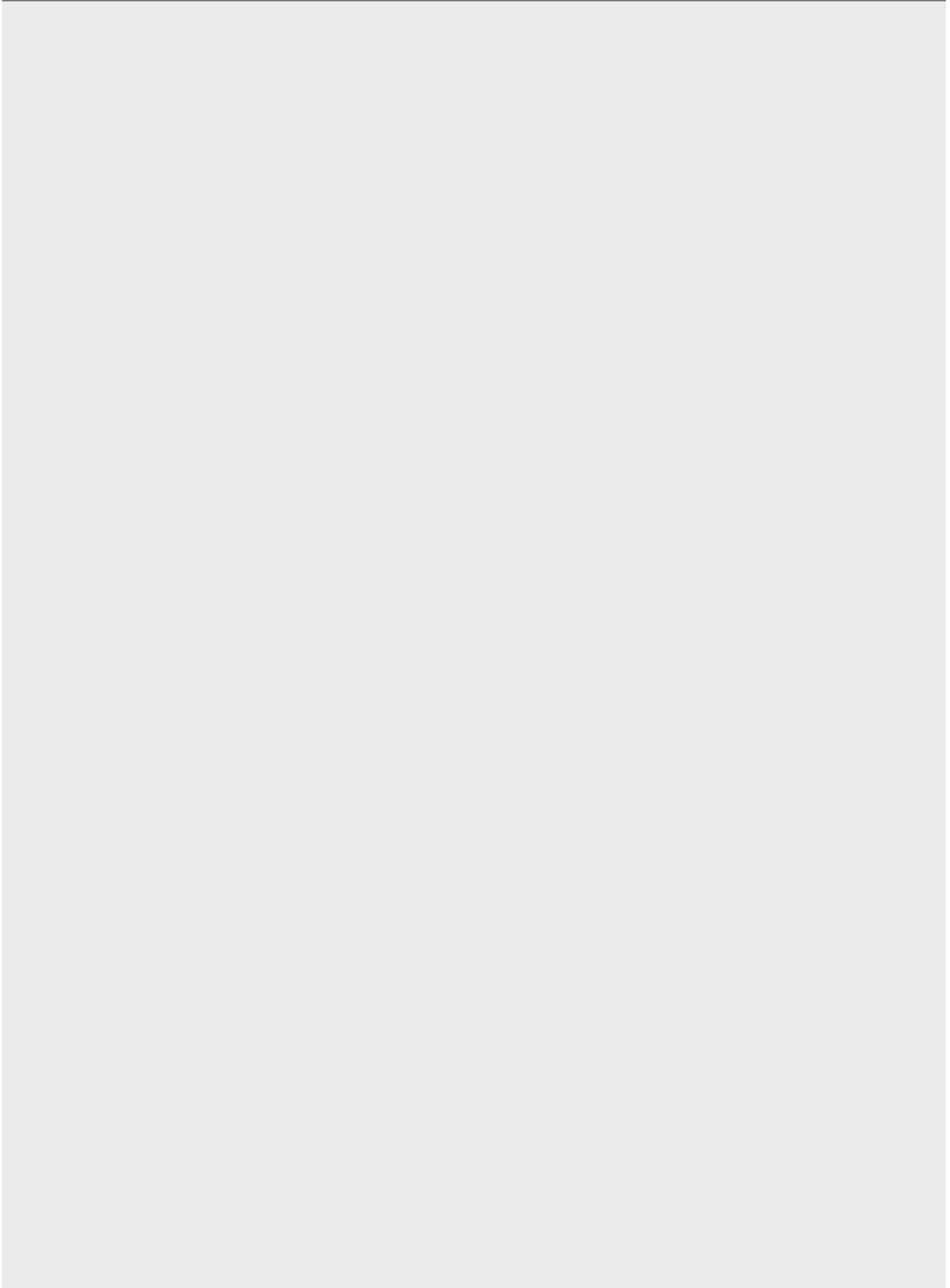
Standby: <0.5 W - Master unit
sensors included





Switch systems

Dimensional drawing / installation





Switch systems



Repeater

Advantages

- Inexpensive control of large outputs
- Easy to install
- Can be combined with many different remotes and dimmers

Features

- Any number of repeaters can be connected in parallel in order to achieve the desired overall performance . Each repeater requires a control signal from the dimmer/switch and sufficient balast power to control the connected luminaires

Order information

- Works with all Hettich PWM dimmers
- Works with MultiSwitch²
- Not combinable with dimmable electronic ballast
- Not combinable with Smart.home

Article no.	Product description	Qty	Unit	PU	MRP
9246079	Repeater for 12VDC, Max.36W	1	Pc	1	1,700

Technical details



12 V

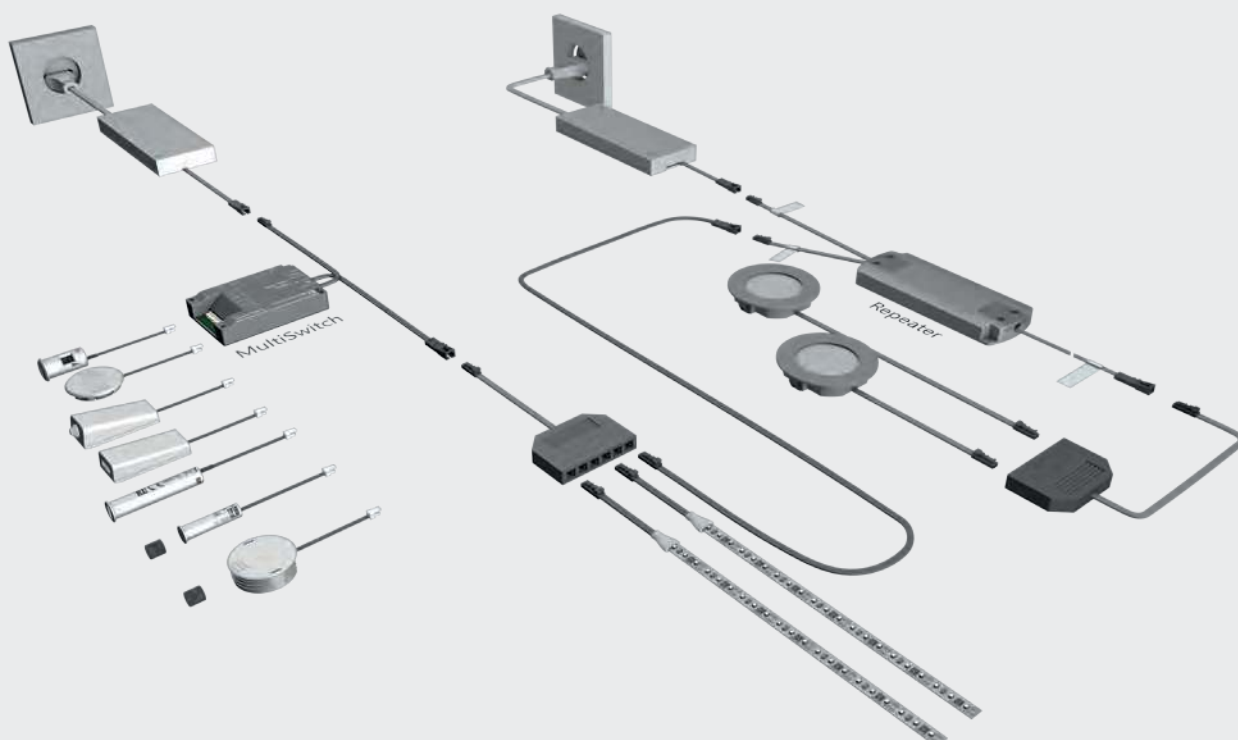
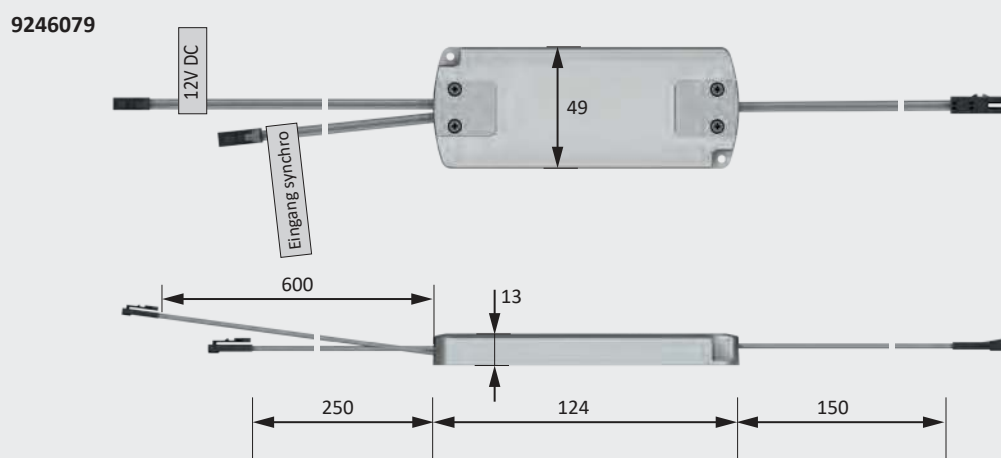
For use with: LED lights
Max. switching power: 12 Volt DC-36 W

Test mark and symbols: CE   
Line lengths: see drawing





Dimensional drawing / installation





Switch systems



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

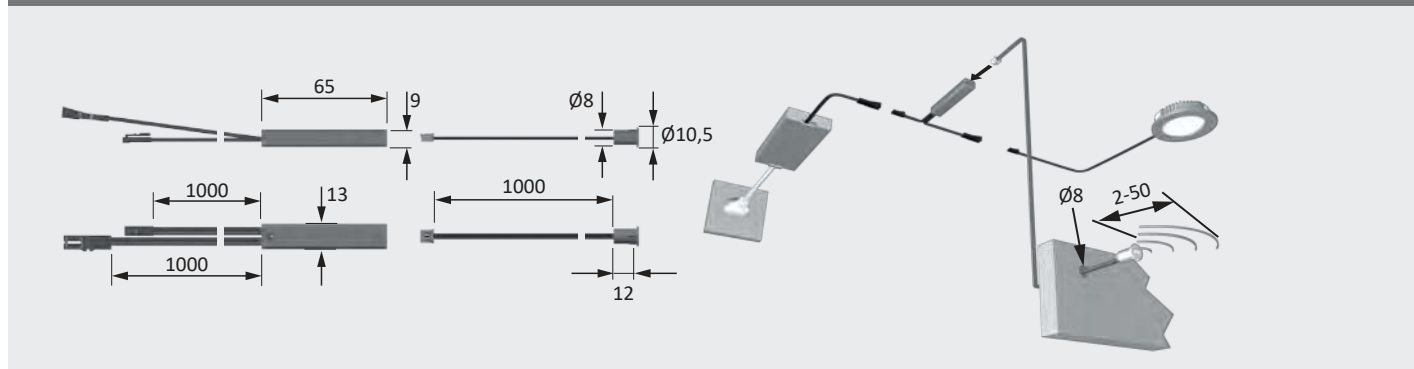
Technical details



Article no.	Product description	Qty	Unit	PU	MRP
9267112	IR Door Switch 12VDC, Max. 36W, Lead M1	1	Pc	1	1,950

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

Dimensional drawing / installation





Switch systems

LED motion sensor

Advantages

- Motion sensor for drilling into place
- Responds to heat and movement

Features

- As on/off switch
- Not compatible with dimmers

Examples of use

- As motion sensor (PIR sensor)

Technical details

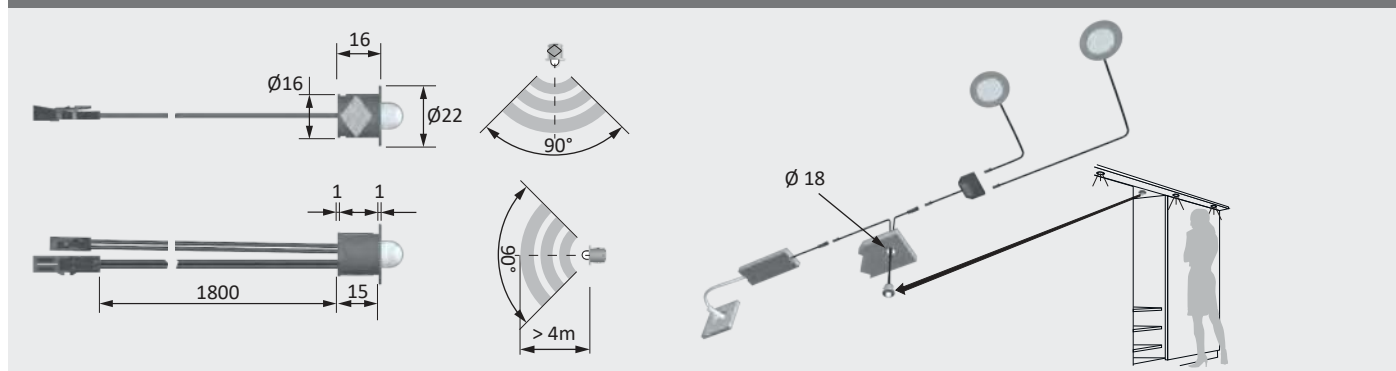


12 V

Article no.	Product description	Qty	Unit	PU	MRP
9267111	LED Motion sensor 12VDC max. 36W, Lead M1	1	Pc	1	1,350

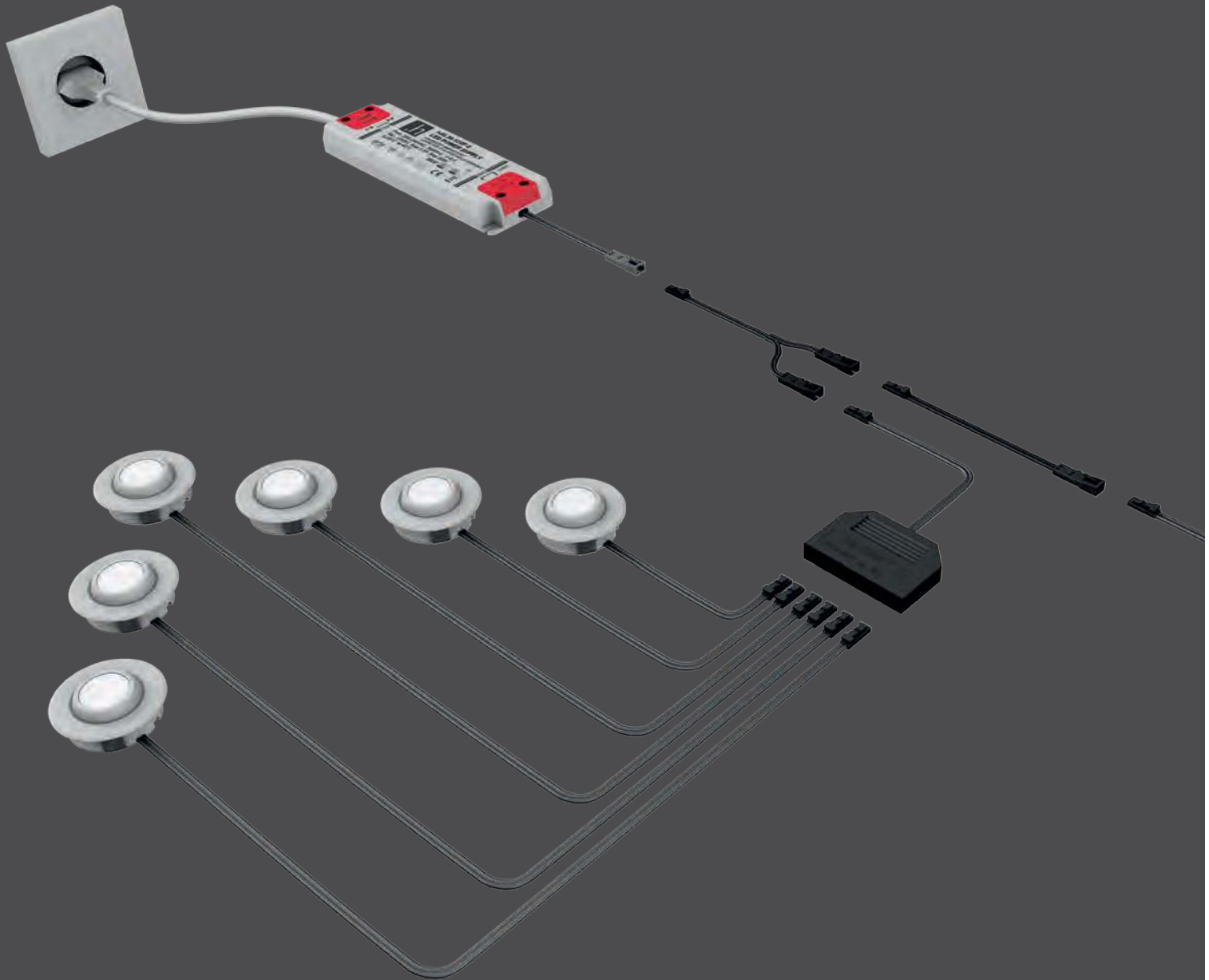
For use with: LED lights
Surface finish: Grey
Max. switching power: 12 Volt DC-36 W
Test marks and symbols:   
Motion sensor
Sensing angle: 90°
Range: 4 m
Stay-'ON' time: 30 seconds
Supply lead: 1800 mm
Switching lead: 1800 mm to light
Standby: <0.01 W

Dimensional drawing / installation





Ballasts & leads



Electronic ballast	SuperSpot eco	LitePanel 68	MultiLite Flood	PowerLite Plus	EcoPower L	Eco Spot	SideSpot
	4.2 W	4.3 W	4.0 W	3.5 W	3.2 W	1.5 W	1.4 W
6 W	1x	1x	1x	1x	1x	4x	4x
10 W	2x	2x	2x	2x	3x	6x	7x
15 W	3x	3x	3x	4x	4x	10x	10x
20 W	4x	4x	5x	5x	6x	13x	14x
30 W	7x	7x	7x	8x	9x	20x	21x
60 W	14x	13x	15x	17x	18x	33x	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.

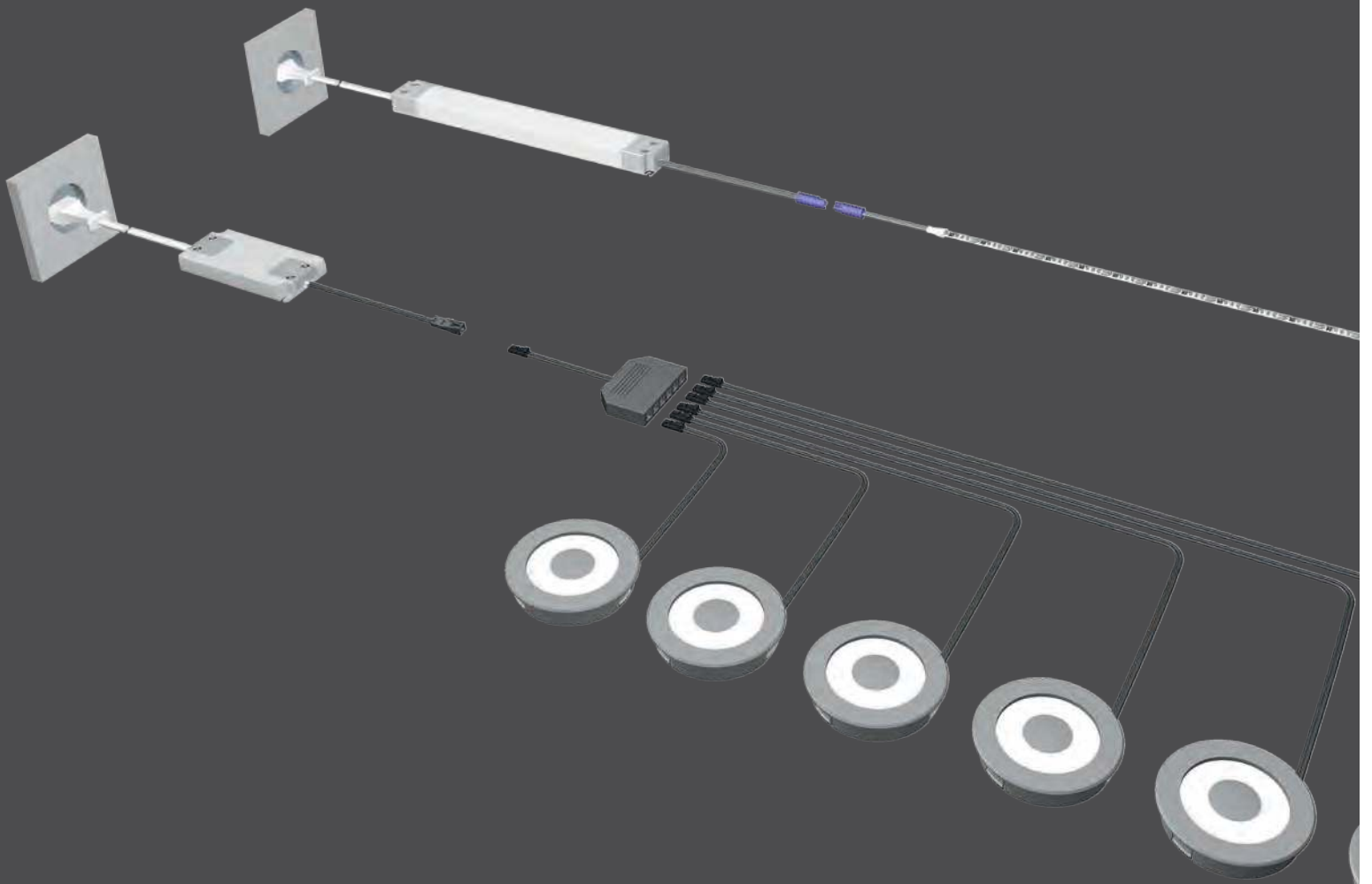
All electronic ballasts, called ballast for short, have overload protection, temperature protection, short-circuit resistance and are explicitly designed for use with LED luminaires and for use in furniture.

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





Ballasts & leads





Ballasts & leads

Product range overview



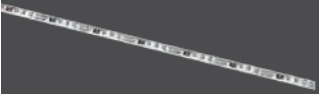
Electronic ballasts 12 Volt DC
Page 104-105

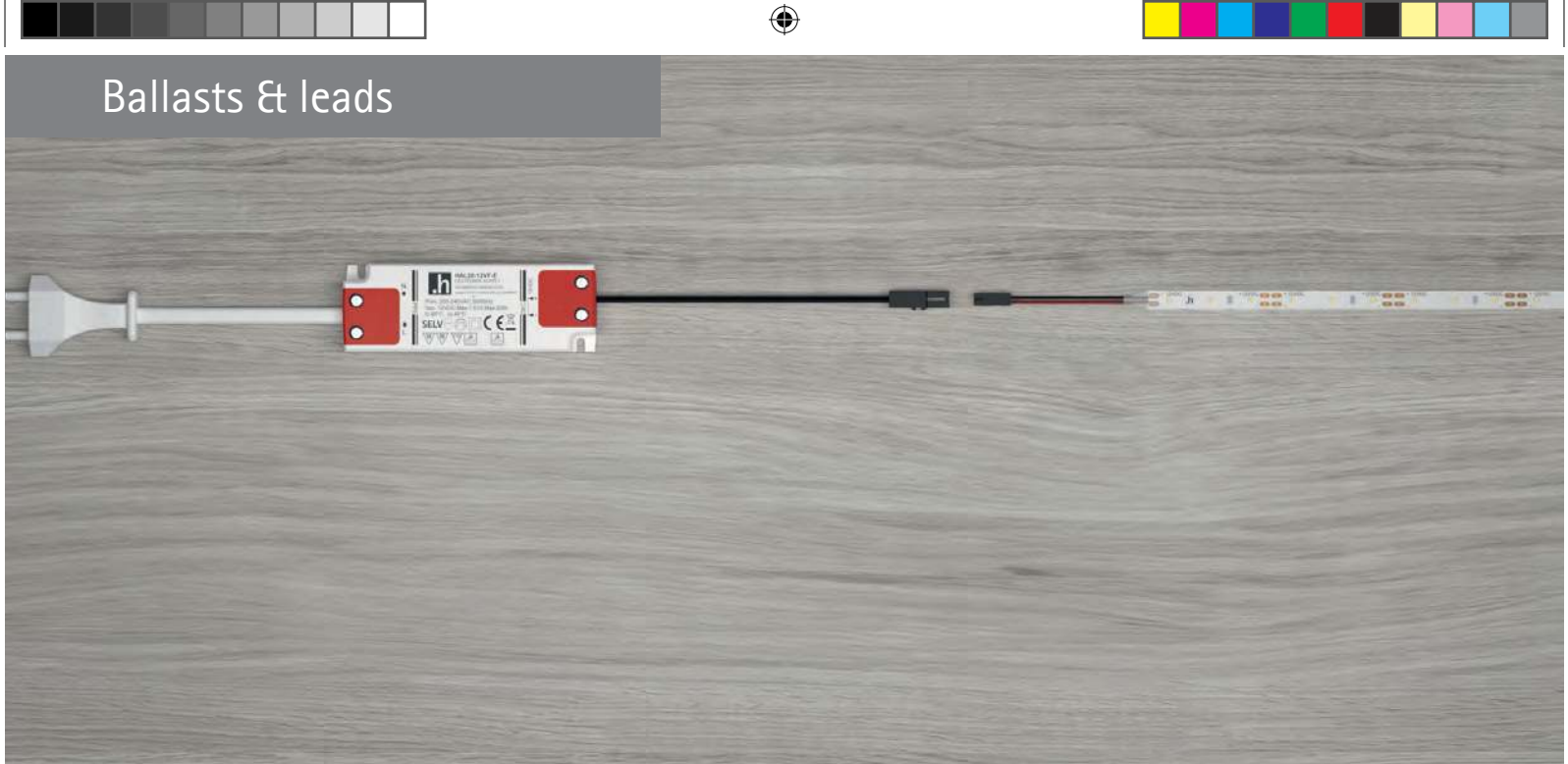
12 V



Leads 12 Volt DC
Page 106

12 V





Ballasts & leads

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



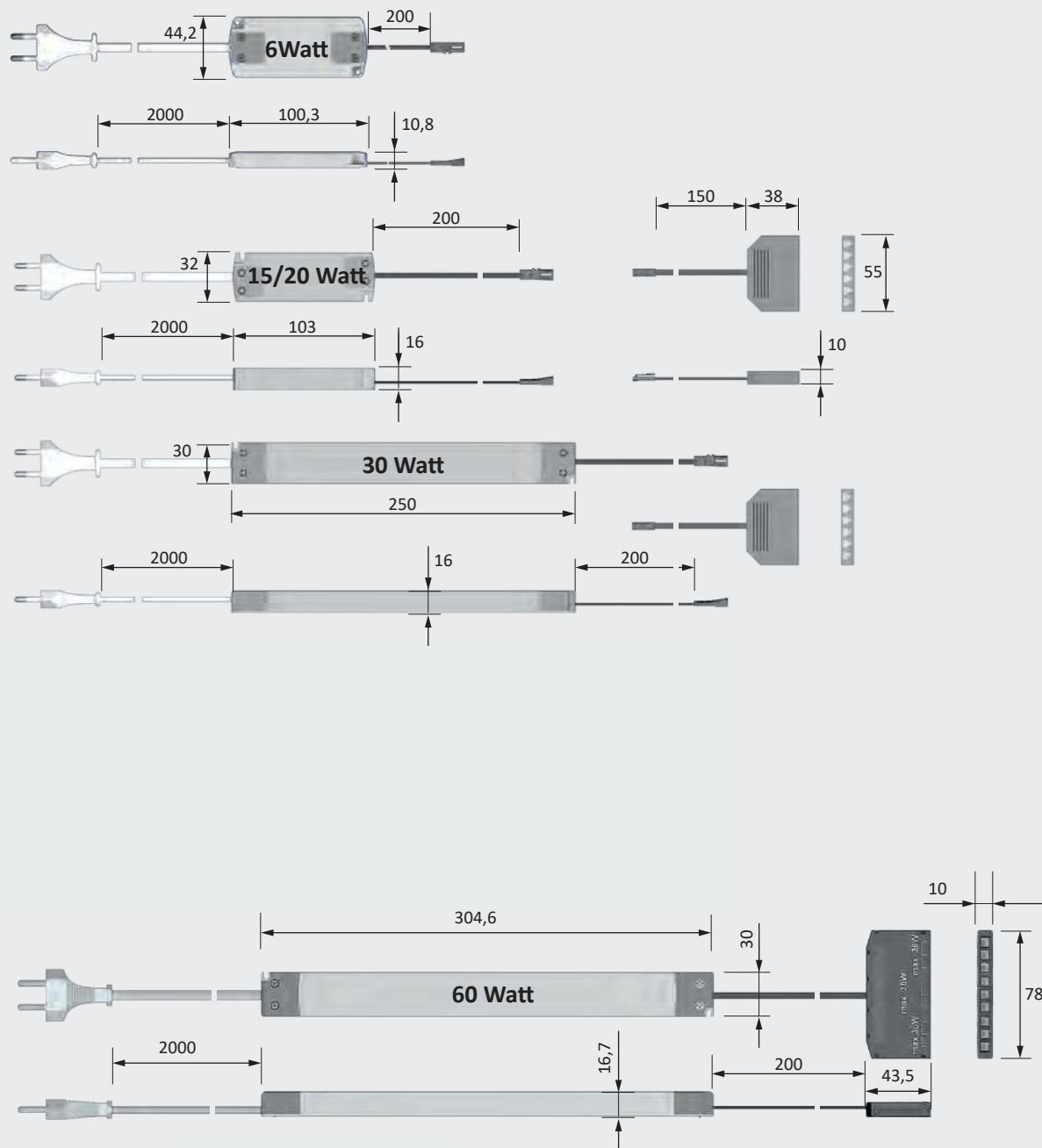
Article no.	Product description	Qty	Unit	PU	MRP
9335261	LED ballast 12VDC, 6W , Europlug M1x1	1	Pc	1	2,300
9335262	LED ballast 12VDC, 15W, 200-240V, 2m EFS 0.2m, M1+0.15m, M1x6 (6-Way Distributor)	1	Pc	1	2,300
9335263	LED ballast.12VDC, 20W,200-240V, 2m EFS 0.2m, M1+0.15m, M1x6 (6-Way Distributor)	1	Pc	1	2,400
9335264	LED ballast. 12VDC, 30W,200-240V, 2m EFS 0.2m, M1+0.15m, M1x6 (6-Way Distributor)	1	Pc	1	4,500
9335265	LED ballast. 12VDC, 60W, 2m EFS 0.15m, M1x9	1	Pc	1	6,150

For use with: LED lights
Surface finish: white
Operating voltage: 100 V DC
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 Euro plug
LED Mini M1 plug connector



Ballasts & leads

Dimensional drawing / installation





Ballasts & leads



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

Technical details

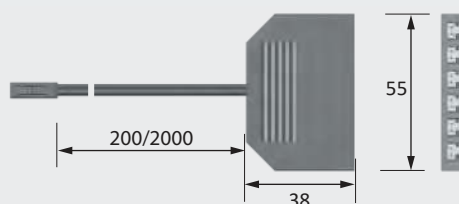
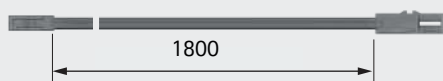


Type:
Connected load:
Surface finish:
Plug connector:

Plug system
max. 3 A (36 W)
black
LED Mini
M1 plug connector

Article no.	Product description	Qty	Unit	PU	MRP
9104773	LED extension M1 12VDC, L=1800mm, Black	1	Pc	1	440
9246083	LED 6-way Distributor M1, 12VDC, L=200mm, Black	1	Pc	1	270
9084272	LED 6-way distributor M1, 12VDC, L=2000mm, Black	1	Pc	1	560

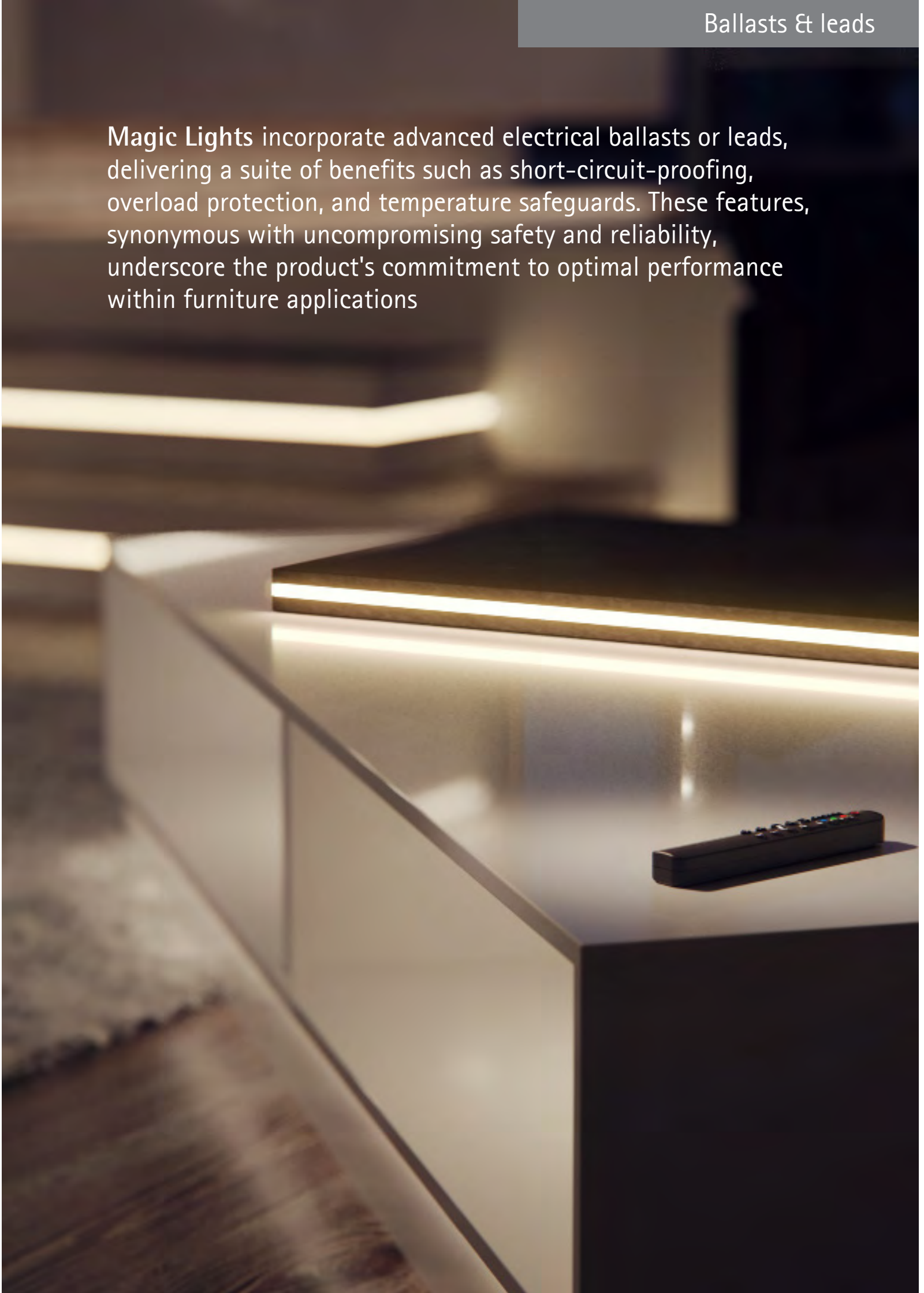
Dimensional drawing / installation





Ballasts & leads

Magic Lights incorporate advanced electrical ballasts or leads, delivering a suite of benefits such as short-circuit-proofing, overload protection, and temperature safeguards. These features, synonymous with uncompromising safety and reliability, underscore the product's commitment to optimal performance within furniture applications





Types of lighting

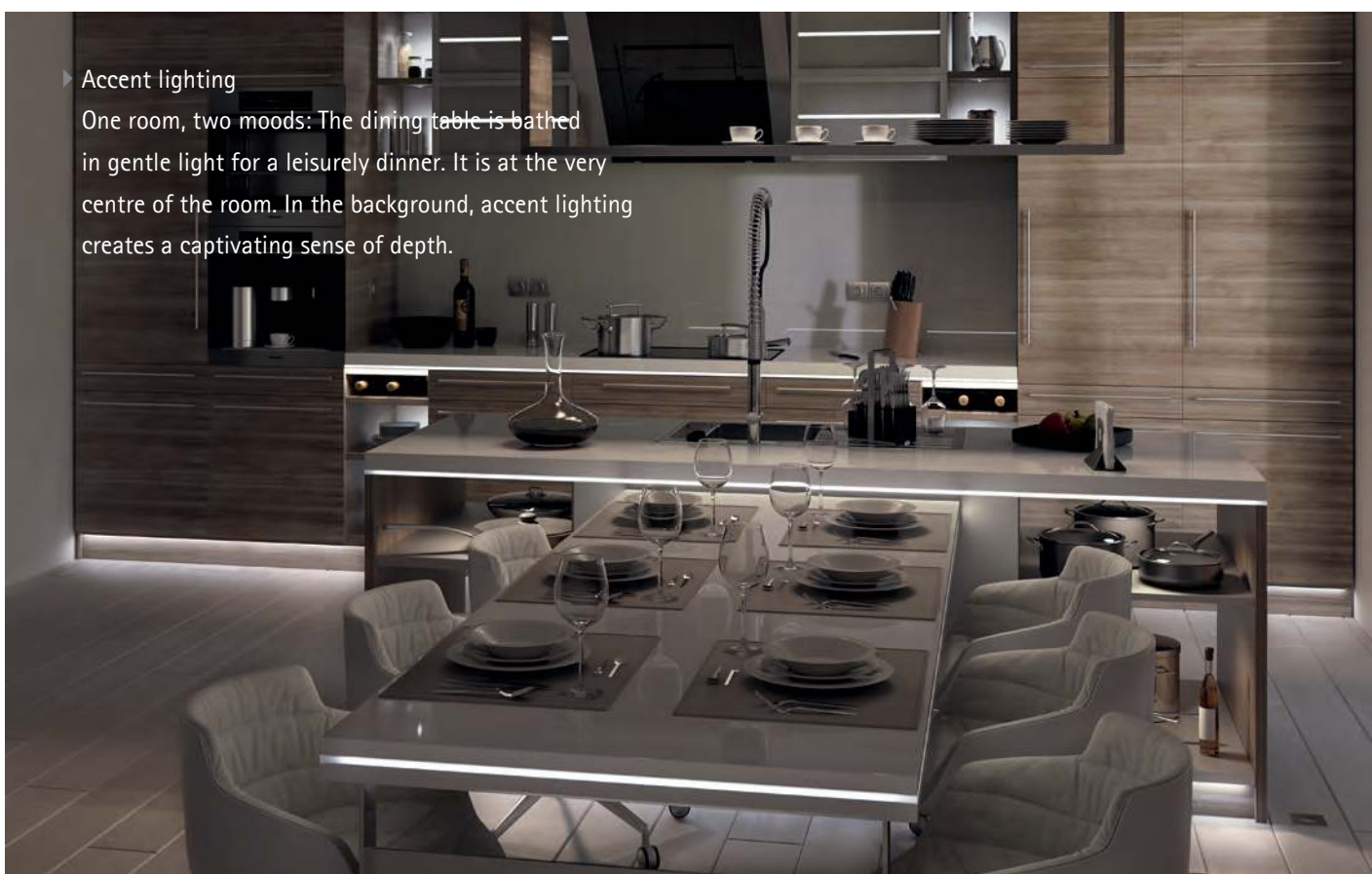
Types of lighting

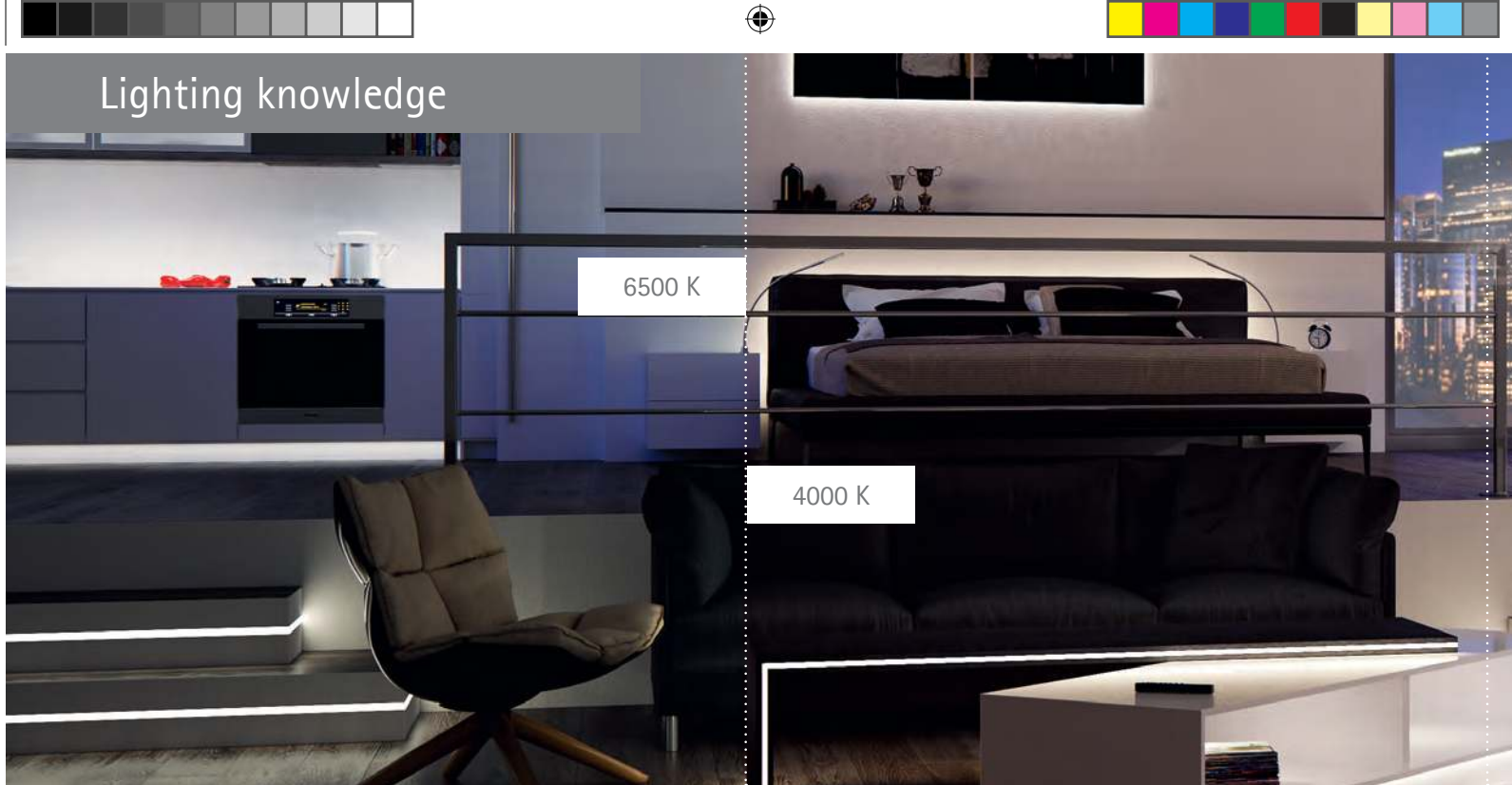
Light can shape, change and move.





Types of lighting





Illuminating facts about light

We bring light into the darkness

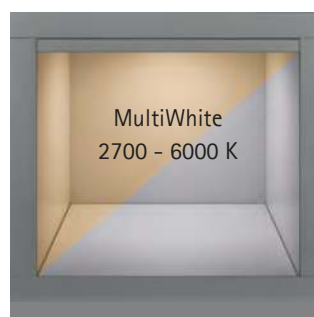
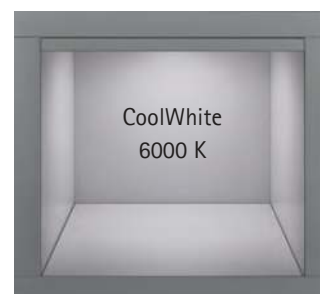
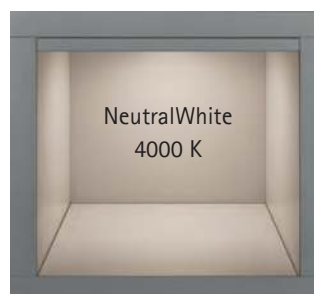
Lux, lumen and kelvin, warm white, cool white and neutral white: although the terminology of lighting systems is all around us, it is not always clear to us. We would like to bring light into the dark with a few explanations.

► 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.





Lighting knowledge

► Luminous lux

Luminous lux 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 lux on a defined surface, measured in lux (lx).



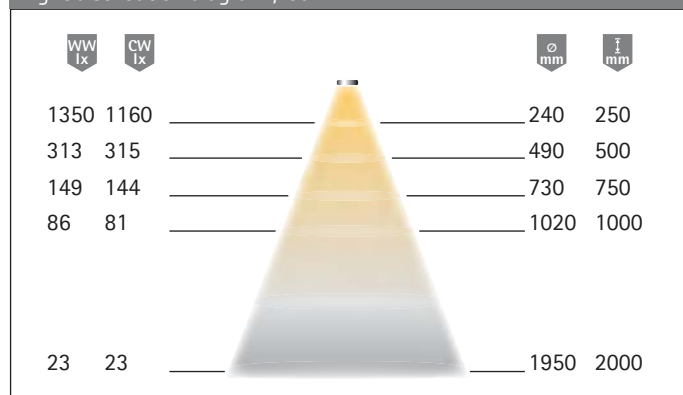
► Light distribution diagrams

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





► BIS Mark



► ENEC



► VDE-GS mark



► EMC



► CE



► F mark



► MM mark
► Temperature-protected electronic transformer



► Short-circuit-proof safety transformer



► Independent electronic transformer

$t_{a_{max}}$

► Maximum permissible ambient temperature

t_c°

► Temperature reference point

SELV

► Protective extra-low voltage



► Safety class 1 – Devices with earth conductor connection



► Protection class 2 – devices without protective earth connection



► Protection class 3 – Devices with protective extra- low voltages

IP codes

► Protection against foreign bodies / water



► Use only in dry rooms



► 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

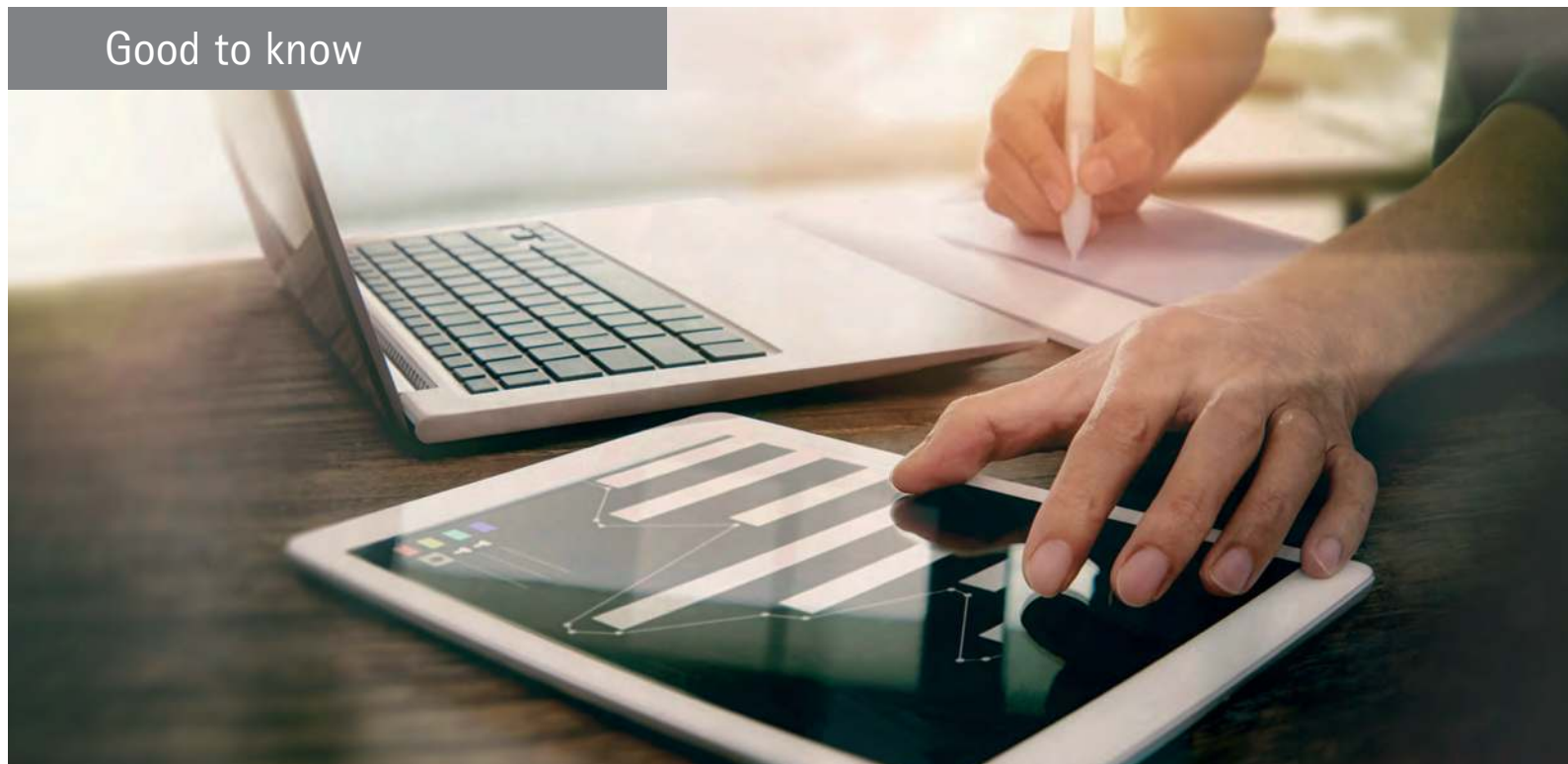


► Zigbee is the complete solution for the majority of major smart home solutions.





Good to know



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.

► 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 $\pm 10\%$, 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, 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.





Good to know



Optimisation of transport routes

A well-functioning supply chain management contributes to reducing the ecological footprint. At our Berlin plant, for example, we have completed two major optimisation projects since 2018: By rationalising transport routes as well as packaging and goods handling processes, we have reduced annual CO2 emissions by a total of 126,000 kilograms.

Mobility Management

The often great physical distance to our customers as well as to major projects requires our company vehicle fleet. The Hettich Mobility Team has set itself the task of using the vehicle fleet more effectively and environmentally friendly in the future through redesign and - where appropriate - electrification. The first tests on the topic of e-mobility in the vehicle pool were carried out as early as 2015, and additional participation in a scientific study led to further tasks after the data were evaluated: The next step was to install a paperless, digital Car-Sharing system to manage the pool vehicles.

In 2019, the vehicle pool included three electric vehicles and, as company cars four electric vehicles and one plug-in hybrid vehicle. Currently the fleet has already been expanded by four plug-in hybrid vehicles and one electric vehicle. At Kirchlegern site, an e-scooter is used for internal plant traffic.

In addition to the use of electric vehicles including home charging solutions for company car users and the establishment of an electric charging infrastructure, the Hettich Company Car Directive was also revised in 2019 with regard to CO2 emissions and drive technology, thus creating further incentives for more climate-friendly mobility behaviour: The mobility budget now offers the possibility to use the unspent budget for other offers, such as bicycle leasing.

Currently, a car-sharing exchange for the formation of carpools is being integrated into the digital Car-Sharing system of the pool vehicles. With corporate benefits such as the offer of discounted tickets on public transport (Jobticket) or the possibility of bicycle

leasing through deferred compensation (JobRad), we support environmentally friendly mobility behaviour among our colleagues.

Other activities to make mobility management more environmentally friendly are being planned, such as a motivation leasing scheme or a fuel-saving competition.

Sustainable travel planning

In order to avoid unnecessary travel in advance, we have expanded our travel policy to include the aspect of sustainable travel planning: Before every business trip, we check whether it can be replaced by telephone or video conferences, thus completely avoiding traffic-related CO2 emissions.

If a business trip is indispensable, we want to take both economic and ecological aspects into account, for example by combining dates that are geographically close to each other, dispensing with domestic flights or using rail instead of car.

Energy and resource management

Own energy generation – Kirchlegern
To implement our energy concept, we are further expanding the share of combined heat and power generation. In addition to the existing combined heat and power plants at the Kirchlegern site, the combined heat and power plant in the new building B7 was put into operation at the end of 2018.

Three heat pumps were also installed in B7: Two water-to-water heat pumps use the waste heat from the cooling system for heating processes. One air-to-water heat pump is used for cooling and heating processes depending on the weather conditions.

In 2019, the amount of heat obtained via combined heat and power generation -including used waste heat - amounted to 6,408 MWH at the Kirchlegern site.





LIGHTS UP HOMES WITH MAGIC.



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Hettich

Registered & Head Office:

Hettich India Private Limited
302, Durolite House,
Opp. SAB TV, New Link Road,
Andheri (West), Mumbai - 400 053
Phone: +91 22 2674 3289/3356/4089

Hettich India Private Limited
A-26/4, 1st floor,
Mohan Co-operative Industrial Estate,
New Delhi - 110 044
Phone: +91 11 4889 4000, 4889 4005

Manufacturing Sites:

Vadodara:
Hettich India Private Limited
Plot No. 304, Dhanora,
Nandesari Road,
Near ECPL,
Village - Dhanora - 391 346
Dist. - Vadodara, Gujarat

Indore:
Hettich India Private Limited
Plot No 1, Sector 5,
Mhow - Neemuch Road,
Opp Lupin Ltd, Pithampur Industrial,
Pithampur - 454 774
Madhya Pradesh

Application Centres:

New Delhi:
61, Punchkuian Road,
Near RK Ashram Metro,
Opposite Pillar No 4,
New Delhi -110001
Ph. No. : +91 11 4750 8320

Mumbai:
Ground Fl./302, Durolite House, Opp. SAB TV,
New Link Road, Andheri (West),
Mumbai - 400 053
Ph.No. : +91 22 2639 9707

Kolkata:
2nd Floor, Unit Number 2A,
Tirumala 22, East Topsia Road,
At Topsia Tangra Crossing
Kolkata - 700 046
Ph. No. : +91 98310 12054

Chennai:
"Heavitree", Ground Floor,
47, Spur Tank Road,
Chetpet, Chennai - 600 031
Ph. No. : +91 44 4263 7227

Bengaluru:
Adventz Center, Ground Floor 28,
Cubbon Road, Shivaji Nagar,
Bangalore - 560 001
Ph. No. : +91 98679 38199

Kochi:
41/2062D, 2nd Floor
Palarivattom signal
junction, NH 47 By-pass,
Kochi - 682 028
Ph. No. : +91 48 4402 8242

Hyderabad:
"Sai Krishna"
797 - A, 2nd Floor,
Road No. 36, Jubilee Hills,
Hyderabad - 500 034
Ph. No. : +91 40 2355 8994

Chandigarh:
2nd Floor, Sanjeev Tower, Plot no. 55,
Industrial & Business park, Phase 1,
Chandigarh - 160 002
Ph. No. : +91 172 5012 347

Gurugram:
Global Business Park, Tower - A, 5th Floor,
Mehrauli-Gurgaon Rd, Sikanderpur,
Sector 26, Gurugram, Haryana 122 002.
Ph. No. : +91 124 4221670

Ahmedabad:
1st Floor, Unit No. 102,
Safal Pegasus, Anand Nagar,
Ahmedabad - 380 015
Ph. No. : +91 79 4032 2824
+91 84 4838 5318

Indore:
Ground Floor & 1st Floor,
Asteria Pride, Plot No.86,
Scheme no. - 114-II,
AB Road, (Near Doshi Honda)
Indore, Madhya Pradesh 452010.
Ph. No. : +91 96 9168 4480

Pune:
Server Spacer ,
Survey No. 127/1A,
Plot No. 8, Off. ITI Road, Aundh,
Pune - 411 007
Ph. No : +91 72 0847 6557

Nepal:
Liasion Office Nepal
Hariharbhawan-03, Pulchowk,
Lalitpur 44600

Training Centres:

Faridabad:
Hettich Poddar WoodWorking Institute
Plot No.2, 1st Floor,
DLF Industrial Estate-1
Near NHPC Metro Station,
Faridabad - Haryana- 121003
Ph: +91 129 4203888
Email: information@hpwwi.com

Mumbai:
Hettich Poddar WoodWorking Institute
Gala no. 3 Gopal Estate,
Devi Dayal Compound, L.B.S. Marg,
Bhandup (West),
Mumbai - 400 078,
Maharashtra
Email: information@hpwwi.com

Enquiry & Customer Services:

Toll Free : 1800 209 2096 (office hours)
Email: sales_enquiry@in.hettich.com
customer_services@in.hettich.com
Website: www.hettich.com

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