

alferpro[®]





alferlight

LED-PROFILES

Lighten up the dark and ensure safety in a relaxed atmosphere.

With the ability to largely affect the mood of a room, lighting is the most important element to consider when designing a space. Flexibility is one natural benefit of smart lighting design. The new alferpro LED profiles with integrated controls and the ability to dim the light allow almost unlimited freedom of design. Also colour is one of the most important aspects in lighting and mood. What was once only known from the spa of a luxury hotel is now moving into private rooms.

The alferlight LED profiles not only create the right spatial effect, they also illuminate trip hazards and stairs. The LED profiles are installed like classic tile profiles when laying the tiles in the covering. Cables and power supply are hidden under plaster or drywall.

Our alferlight series combines design and functionality with the latest lighting technology. Eleven different profile types are perfectly suitable for any spatial context in the interior design. alferlight offers you a complete range to create lighting accents in different colours and brightness for a fascinating visual environment.

And the best: The control of light colour and brightness can also be controlled by the smart home system such as the Amazon® Alexa or the Google® Assistant.

Below you will find the relevant technical information for the right choice of bulbs and the installation of profiles and accessories.

**GUARANTEE:
3 YEARS ON ALL
LED PRODUCTS**

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LED profiles and accessories

alferlight - with seven different profile types you will find the right solution for every room.

Profiles and accessories are available in three anodised shades: silver, chrome brushed and titanium high gloss brushed.

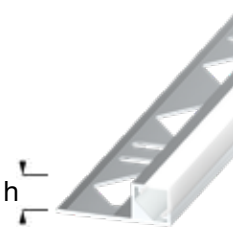
LED SQUARE EDGE PROFILE INCL. DIFFUSING DISC*

Aluminium anodised: silver, chrome brushed,
titanium high gloss brushed

Height: 11 mm

Length: 250 cm

*Not suitable for RGBW stripe



LED SQUARE END CAP





LED QUARTER CIRCLE PROFILE INCL. DIFFUSING DISC*

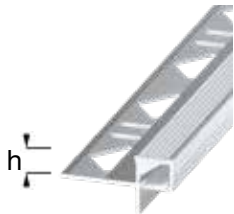
Aluminium anodised: silver, chrome brushed, titanium high gloss brushed
Height: 11 mm
Length: 250 cm

*Not suitable for RGBW stripe

LED OUTER CORNER QUARTER CIRCLE



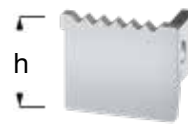
LED INNER CORNER QUARTER CIRCLE



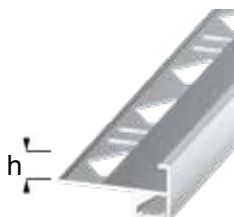
LED STEP EDGE PROFILE ALFERPROSTEP INCL. DIFFUSING DISC

Aluminium anodised: silver, chrome brushed, titanium high gloss brushed
Height: 10, 11, or 12,5 mm
Length: 250 cm

LED END CAP - LEFT SIDE ALFERPROSTEP



LED END CAP - RIGHT SIDE ALFERPROSTEP



LED STEP EDGE PROFILE ALFERSTEP INCL. DIFFUSING DISC

Aluminium anodised: silver, chrome brushed, titanium high gloss brushed
Height: 10, 11, or 12,5 mm
Length: 250 cm

LED END CAP - LEFT SIDE ALFERSTEP



LED END CAP - RIGHT SIDE ALFERSTEP



LED LISTELLI PROFILE INCL. DIFFUSING DISC

Aluminium anodised: silver, chrome brushed, titanium high gloss brushed
Height: 11 mm
Width: 20 mm
Length: 250 cm

LED LISTELLI PROFILE, INDIRECT LIGHTING 90° CORNER PIECE



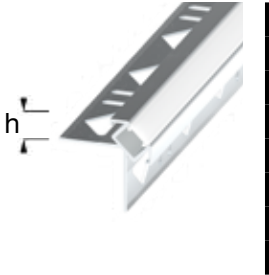
LED END CAP LISTELLI PROFILE





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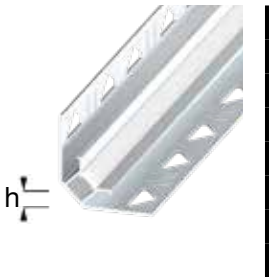
LED-PROFILES



LED WALL CORNER PROFILE INCL. DIFFUSING DISC

Aluminium anodised: silver, chrome brushed,
titanium high gloss brushed
Height: 11 mm
Length: 250 cm

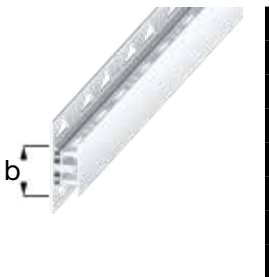
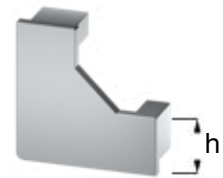
LED END CAP WALL CORNER PROFILE



LED WALL INSIDE CORNER PROFILE INCL. DIFFUSING DISC

Aluminium anodised: silver, chrome brushed,
titanium high gloss brushed
Height: 11 mm
Length: 250 cm

LED END CAP WALL INSIDE CORNER PROFILE



LED LISTELLI PROFILE, INDIRECT LIGHTING INCL. DIFFUSING DISC

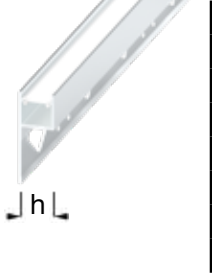
Aluminium anodised: silver, chrome brushed,
titanium high gloss brushed
Width: 40 mm
Length: 250 cm

**A PROFILE FOR
TILES FROM
6 - 12,5 mm**



LED SKIRTING BOARD INCL. DIFFUSING DISC

Aluminium anodized: silver
Height: 60mm
Length: 250cm



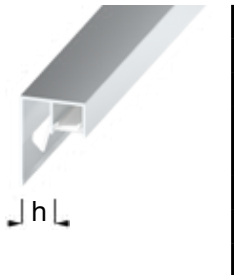
LED EDGING PROFILE, INDIRECT LIGHTING FOR CEILING INCL. DIFFUSING DISC

Aluminium anodized: silver, black, chrome brushed, titanium high gloss brushed
Height: 13mm
Length: 250cm

END CAP FOR CEILING LED EDGING PROFILE



LED EDGING PROFILE, INDIRECT LIGHTING FOR CEILING END CAP



LED EDGING PROFILE, INDIRECT LIGHTING FOR FLOOR INCL. DIFFUSING DISC

Aluminium anodized: silver, black, chrome brushed, titanium high gloss brushed
Height: 11mm
Length: 250cm

END CAP FOR FLOOR LED EDGING PROFILE



LED EDGING PROFILE, INDIRECT LIGHTING FOR FLOOR END CAP





IMPLEMENTATION AND TECHNICAL DETAILS

Brightness and colour

Depending on the desired mood you can use LED strips in warm white (3000 K), neutral white (4000 K) or dynamic (2700 – 5000 K). Reliable adherence to the colour temperature ensures excellent colour reproduction (CRI/Ra). By choosing the RGBW model the full colour spectrum can be controlled by radio signal, Bluetooth or DALI.

Smart home connectivity

The control of light colour and brightness can also be controlled by the Smart Home System (e.g. Amazon® Alexa or Google®). alferlight is compatible with ZigBee® and Philips® Hue.

Easy installation

alferlight is supplied ready to use, no tools required. All parts are hooked up using connectors **without tools**. The power connection is a power supply pack using a standard socket. **An electrician is not necessary**. The operating voltage is 24 V in the low voltage range, the protection classes are IP 20 and IP 54. Therefore, the LED profiles with IP 54 can also be installed in bathrooms in Protection area 1 according to DIN VDE 0100-701.

alferlight convinces

Combinability

- Each controller can be connected with up to seven remote controls
- Each remote control can be connected with up to seven controllers
- Crossover or series connection possible
- Each transformer can be connected with multiple controllers.
However, the maximum wattage of the transformer must not be exceeded
- For more information, please refer to the enclosed assembly instructions of the product

Compatibility

- With standard motion detectors

Immediately usable

- Controller and respective remote control are already in delivery condition directly coupled with each other and immediately usable
- Additional controllers have to be programmed into the respective remote control. Please refer to the assembly instructions of the respective item





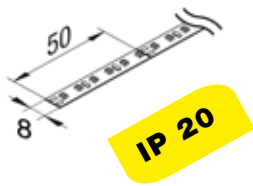
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LED-PROFILES

LED-STRIPES

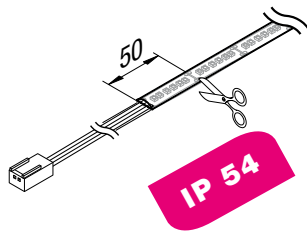
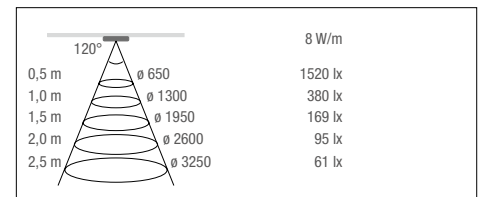
Find the right strip of the correct length for the desired profile. All strips are available in 150, 250 and 500 cm length and all of them are dimmable and are controllable via app. For more information please visit www.alferpro.com

- xw =** extra warm white (up to 3000K)
- ww =** warm white (from 3000K)
- nw =** neutral white (from 4000K)
- cw =** cold white (from 5000K)



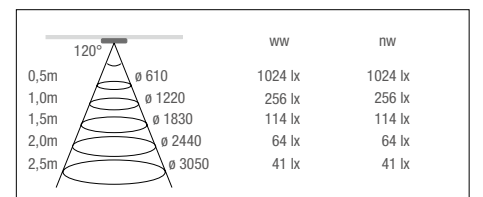
LED STANDARD STRIP 24 V DC

Luminous colour: 3000K – 4000K
8W/m Demand per metre
SL/S = 6m max. strip length per slot
Shortening possible every 50mm
 120 LED/m, 120 lm/W, CRI>95, L70/B10 ≥ 50.000 h
 1 Piece including connecting cable 250 cm and plug



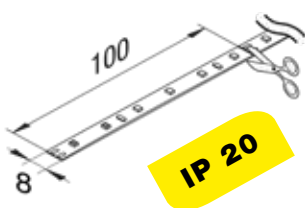
LED STANDARD SILICON STRIP

Luminous colour: 3000K – 4000K
8W/m Demand per metre
SL/S = 6m max. strip length per slot
Shortening possible every 50mm
 120 LED/m, 129 lm/W, CRI>85, L70/B10 ≥ 40.000 h
 1 Piece including connecting cable 250 cm and plug



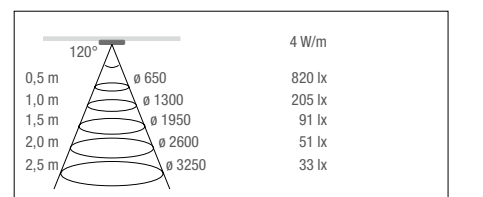
The silicone makes the light appear brighter. The Stripe should not be combined with the LED Standard Stripe 24 V DC, as otherwise colour differences are to be expected!

IP 68 is given if the soldering point of the strip is outside the wet area.



LED STANDARD ACCENT STRIP

Luminous colour: 3000K – 4000K
4W/m Demand per metre
SL/S = 10m max. strip length per slot
Shortening possible every 100mm
 60 LED/m, 120 lm/W, CRI>95, L70/B10 ≥ 50.000 h
 1 Piece including connecting cable 250 cm and plug



		xw	nw	cw
0,5m	120° Ø 650	2672 lx	2848 lx	3008 lx
1,0m	Ø 1300	668 lx	712 lx	752 lx
1,5m	Ø 1950	297 lx	316 lx	334 lx
2,0m	Ø 2600	167 lx	178 lx	188 lx
2,5m	Ø 3250	107 lx	114 lx	120 lx

LED DYNAMIC STRIP

Luminous colour: 2700K – 5000K

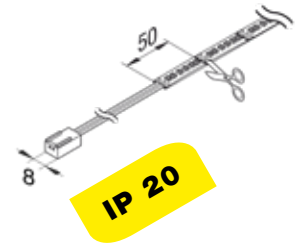
19W/m Demand per metre

SL/S = 3,12m max. strip length per slot

Shortening possible every 50mm

240 LED/m (120xw & 120nw), 129 lm/W, CRI>80, L70/B10 ≥ 50.000h

1 Piece including connecting cable 250 cm and plug



		R	G	B	RGB	xw
0,5m	120° Ø 650	200 lx	508 lx	124 lx	832 lx	728 lx
1,0m	Ø 1300	50 lx	127 lx	31 lx	208 lx	182 lx
1,5m	Ø 1950	22 lx	56 lx	14 lx	92 lx	81 lx
2,0m	Ø 2600	13 lx	32 lx	8 lx	52 lx	46 lx
2,5m	Ø 3250	8 lx	20 lx	5 lx	33 lx	29 lx

LED RGBW STRIP

Luminous colour: RGBW

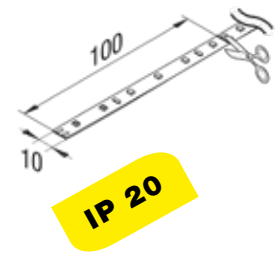
18W/m Demand per metre

SL/S = 2,84m max. strip length per slot

Shortening possible every 100mm

60 LED/m, 49 lm/W, CRI>90, L70/B10 ≥ 40.000 h

1 Piece including connecting cable 250 cm and plug



AREA LIGHT WITHOUT VISIBLE LED POINTS

		ww	nw
0,5m	160° Ø 690	480 lx	536 lx
1,0m	Ø 1380	120 lx	134 lx
1,5m	Ø 2070	53 lx	60 lx
2,0m	Ø 2760	30 lx	34 lx
2,5m	Ø 3450	19 lx	21 lx

LED COB-4 STRIPE

Luminous colour: 3000 – 4000K

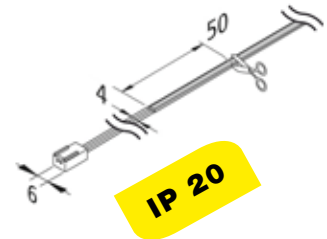
5W/m Demand per metre

SL/S = 10m max. strip length per slot

Shortening possible every 50mm

120lm/W, CRI>90, L70/B10 ≥ 35.000 h

1 Piece including connecting cable 250 cm and plug



		ww	nw
0,5m	135° Ø 670	1520 lx	1488 lx
1,0m	Ø 1340	380 lx	372 lx
1,5m	Ø 2010	169 lx	165 lx
2,0m	Ø 2600	95 lx	93 lx
2,5m	Ø 3350	61 lx	60 lx

LED COB-10 STRIPE

Luminous colour: 3000 – 4000K

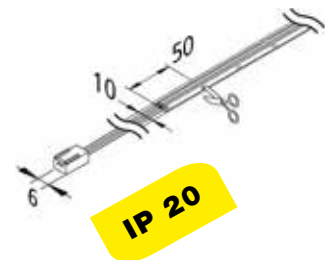
9,6W/m Demand per metre

SL/S = 5m max. strip length per slot

Shortening possible every 50mm

110lm/W, CRI>90, L70/B10 ≥ 40.000 h

1 Piece including connecting cable 250 cm and plug



LED PROFILE FOR FLOOR DESIGN

LED FLEXIBLE SET

Luminous colour: 3000 – 4000K

10W/m Demand per metre

SL/S = 5m max. strip length per slot

Shortening possible every 50mm

140 LED/m

1 Set consisting of tape and U-profile incl. connecting cable 250cm and plug

ALUMINIUM





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LED-PROFILES

- Smart home enabled
- Plug-and-play LED technology
- Atmospheric ambience and security
- Stepless control
- Diverse design options





THE RIGHT ACCESSORIES

Determine the required total length per strip

- By means of the required strip length, the appropriate transformer can be determined
- The transformers are generally suitable for all types of strips
- Connecting cables, clips and controllers have to be selected according to the type of strip

Choose the suitable transformer

- The required wattage is derived from the total length of the strip
- You can choose from different transformers with a wattage of 15 watts to 150 watts

How should the light be switched?

Depending on the strip model, there are six different control options. The dimming controller that suits your selected LED strip can be found in the following overview of accessories on pages 15 and 16.

Complete your product selection with the accessories you need

Based on your installation drawing or circuit diagram, you can calculate the need for connecting cables and clips for corner joints or extending the strips. You should also plan in advance where you can hide the transformers. We recommend that you ensure access to the transformers at all times. Examples of where the transformers can be placed can be found in the following chart on page 18.

ACCESSORIES	LED STANDARD STRIP	LED DYNAMIC STRIP	LED RGBW STRIP
Transformer, 12 distribution boxes Power : 150 W, 100 W, 60 W, 30 W or 15 W	✓	✓	✓
Extension cable Transformer to strip, cable length: 250 cm	✓	✓	
Connecting cable Clip to strip, plug to transformer, cable length: 250 cm	✓	✓	✓
Connecting clips Clips between two strips	✓	✓	✓
Connection cable Between two strips, cable length: 15, 20, 50 or 250 cm	✓	✓	✓
DIMMING CONTROLLER			
Installed radio with 12-way distributor / max. 80 W/75 W Dynamic Stripe	✓	✓	
Mounted radio with 12-way distributor / max. 80 W/75 W Dynamic Stripe	✓	✓	
Sonar / max. 48 W The installation of the sonar switch works with every non-metallic material up to a strength of 40 mm.	✓		
Bluetooth with 12-way distributor / max. 120 W	✓	✓	✓
Controller including flush mounted touch module / max. 80 W/75 W Dynamic Stripe	✓	✓	
1 channel with 7-way distributor / max. 120 W			✓



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- **Built-in radio with 12-way distributor:** Perfectly suitable for retrofitting, as the switch can be clipped into the socket opening. Alternatively, the controller can also be wall-mounted by using the supplied bracket.
-



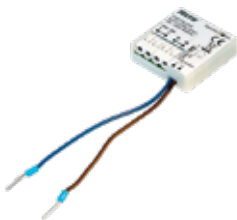
- **Radio extension with 12-way distributor:** The remote control can be wall-mounted with the supplied bracket.
-



- **Sonar controller:** Touch-controlled, without visible switch; the sonar module is installed directly in the wall or fitting. The circuit is an adaptive system and adjusts to the movements of its users.
-



- **Bluetooth with 2-way distributor:** The smart control tool allows a comfortable circuit of up to 12 lights within the controller's transmitter radius. The control app can be downloaded for free via Google® Play (Android™) or the Apple App Store (iOS).
-



- **Flush-mounted touch module:** The controller can be integrated directly into the button and wall-mounted. The high-voltage connection must be carried out by authorised specialist personnel only.
-



- **1-channel with 7-way distributor:** With this controller, you control up to seven independent LED strips at the same time.
-

GENERAL INFORMATION

Maximum strip length:

Depending on the model the strips can be shortened every 50 or 100 mm. For each strip type, there is a max. strip length per slot; see table below.

Maximum wattage per slot:

A maximum of 60 watts may be connected per slot.

Maximum wattage/transformer = Total wattage:

The total wattage must not be exceeded (15 W / 30 W / 60 W / 100 W / 150 W).

Maximum extension:

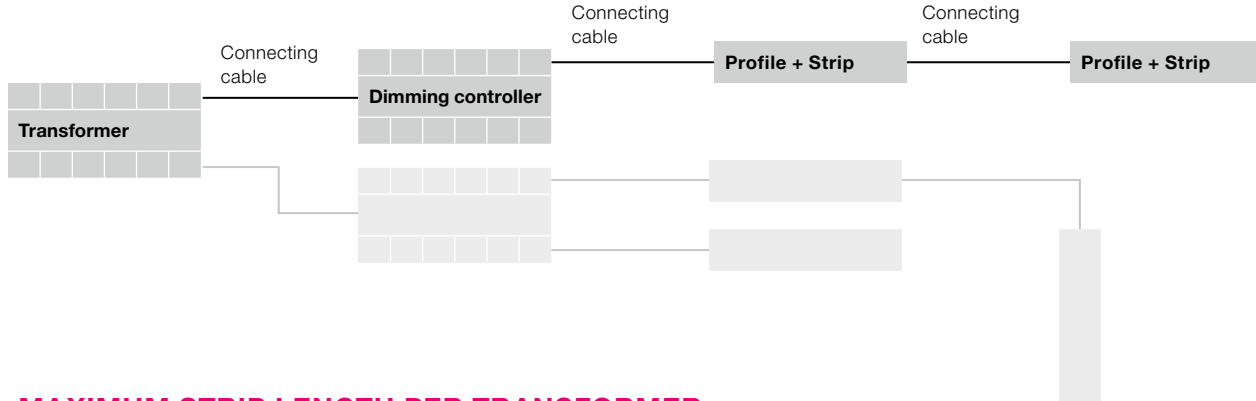
The connection cable (except Dynamic and RGBW) between the stripe and transformer or controller may be extended to a maximum length of 7.5m (connection cable + 2 extensions).



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LED-PROFILES

SCHEMATIC DIAGRAM



MAXIMUM STRIP LENGTH PER TRANSFORMER SEE THE OVERVIEW

	TRANSFORMER 150 W (LED T150)	TRANSFORMER 100 W (LED T100)	TRANSFORMER 60 W (LED T60)	TRANSFORMER 30 W (LED T30)	TRANSFORMER 15 W (LED T15)
LED STANDARD STRIP 24 V DC Max. 7,5 m/slot Max. 60 W/slot Approx. 8 W/m	18,75m total But only max. 7,5m/slot	12,5m total But only max. 7,5m/slot	7,5m total	3,75m total	1,87m total
LED STANDARD SILICON STRIP Max. 7,5 m/slot Max. 60 W/slot Approx. 8 W/m	18,75m total But only max. 7,5m/slot	12,5m total But only max. 7,5m/slot	7,5m total	3,75m total	1,87m total
LED STANDARD ACCENT STRIP Max. 15 m/slot Max. 60 W/slot Approx. 4 W/m	37,5m total But only max. 15m/slot	25m total But only max. 15m/slot	15m total	7,5m total	3,75m total
LED DYNAMIC STRIP Max. 3,15m/slot Max. 60 W/slot Approx. 19 W/m	7,8m total But only max. 3,15m/slot	5,26m total But only max. 3,15m/slot	3,15m total	1,57m total	0,78m total
LED RGBW STRIP Max. 5 m/slot Max. 120 W/controller Max. 90 W/slot Approx. 17,6 W/m	8,52m total But only max. 5 m/slot	5,68m total But only max. 5 m/slot	3,4m total	1,70m total	0,85m total
LED FLEXIBLE SET Max. 5 m/slot Max. 60 W/slot Approx. 10 W/m	15m total But only max. 6m/slot	10m total But only max. 6m/slot	6m total	3m total	1,5m total
LED COB-4 STRIPE Max. 10 m/slot Max. 60 W/slot Approx. 5 W/m	30m total But only max. 12m/slot	20m total But only max. 12m/slot	12m total	6m total	3m total
LED COB-10 STRIPE Max. 5 m/slot Max. 60 W/slot Approx. 9,6 W/m	15,62m total But only max. 6m/slot	10,41m total But only max. 6m/slot	6,25m total	3,12m total	1,56m total



dream love





PROTECTION CLASSES AND ICONS




The use of LED profiles in humid environments also has to meet different safety standards. For example, in the ceiling area from a height of 2.25 m, LEDs with a protection class of IP 20 and higher are permitted to be used continuously. However, in wet areas around showers or bathtubs, strips with IP 54 must be installed. These LED strips are protected against dust and splash water.

■ IP 20 or IP 54

■ IP 54

If installed correctly (the solder joints must be outside the wet area) you will also attain the higher protection IP 68 with the IP 54-strips.




ICON PROTECTION CLASSES

	Protection class I		Protection class II		Protection class III
Protective earthing, protective conductor on the housing of the equipment		Protective insulation		Protective low voltage, <50 V, for lights and transformers for lights	

TYPES OF PROTECTION

	Meaning of number 1:	Meaning of number 2:
<p>The protection class designation consists of the letters IP, followed by two digits.</p> <p>Number 1: Protection of persons from touching or approaching live parts as well as from touching moving parts inside the housing as well as protection of the device against ingress of foreign bodies.</p> <p>Number 2: Protection of equipment within the housing against harmful ingress of water.</p>	<p>0 unprotected</p> <p>1 protected against solid foreign bodies larger than 50 mm (back of the hand)</p> <p>2 protected against solid foreign bodies larger than 12 mm (fingers)</p> <p>3 protected against solid foreign bodies larger than 2.5 mm (tool)</p> <p>4 protected against solid foreign bodies larger than 1 mm (wire)</p> <p>5 protected from dust</p> <p>6 dust-proof</p>	<p>0 unprotected</p> <p>1 protected against dripping water (vertical)</p> <p>2 protected against dripping water (below 15°)</p> <p>3 protected against water spray (below 60°)</p> <p>4 protected against water spray (from any direction)</p> <p>5 protected against jet water</p> <p>6 protected against strong jet water</p> <p>7 protected against the consequences of immersion (30 minutes to 1 metre depth)</p> <p>8 protected against submersion (longer/deeper than 7, by agreement between manufacturer and user)</p> <p>9 protected against water for high-pressure or steam jet cleaning</p>

MOUNTING ICONS

	Mounting sign I		Mounting sign II		Mounting sign III
<p>Applies to lights with discharge lamps and lights for incandescent lamps for installation in and on furnishings (furniture). It means that these lights may be installed in the specified type of installation on furnishings which correlate in their fire behaviour with non-flammable, hard or normally flammable materials under DIN 4102, even if they are coated, lacquered or veneered, but also on materials, whose fire behaviour is unknown.</p>		<p>Applies to lights with discharge lamps for installation in and on furnishings (furniture). It means that these lights may be installed in the specified type of installation on furnishings that correlate in their fire behaviour with non-combustible, difficult or normal flammable building materials under DIN 4102, even if they are coated, painted or veneered.</p>		<p>Applies to discharge lamps. It means that these lights may be mounted directly on non-combustible, heavy or normally flammable building materials under DIN 4102.</p>	

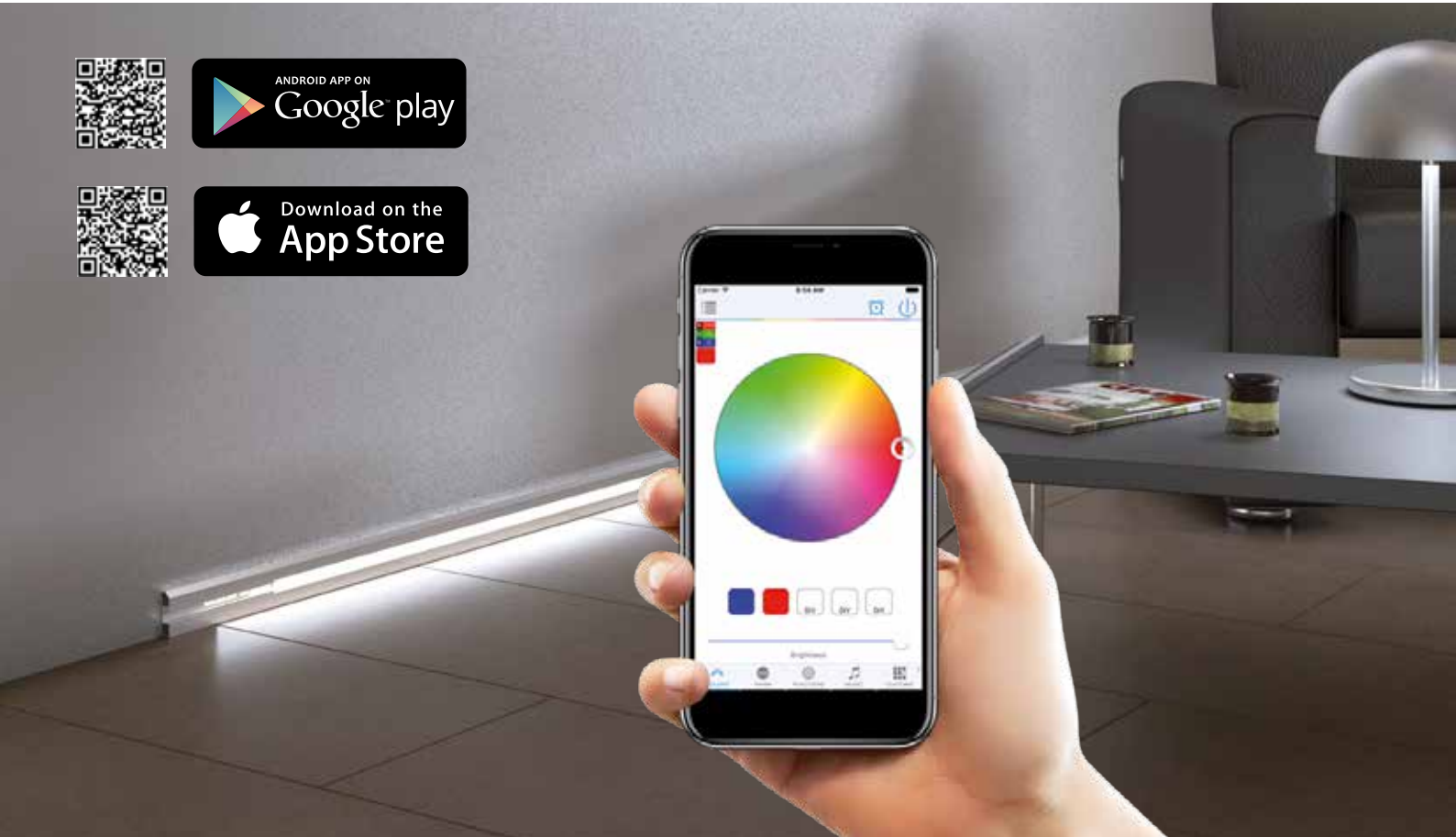


CONCEALING CABLES AND ACCESSORIES

In general, the cables can be laid directly into the joints thanks to their high degree of flexibility. Kinking the cables must be avoided at all costs, otherwise this could lead to cable breaks. We recommend checking the functionality before gluing the cables. The length of the connecting cables should not exceed 5 m.

Possible areas for housing the accessories (marked blue in the picture):

- in suspended ceilings
- in the door frame
- in the base of the bathtub
- in the structure behind the bathtub
- in the washstand
- behind the mirror
- in the wall behind the mirror
- in a cavity under a tile



SMART HOME CAPABILITY

One of the best things about alferlight is its smart home capability.

And this is how it works:

You need the Meshle-app which you can download for free via Google® Play (Android™) or the Apple App Store (iOS). With the help of the app you can control the bluetooth controller.

The controller can be controlled via Bluetooth or integrated into the smart home system via the Meshle gateway over the Internet. With the smart home capable products of alferlight it doesn't matter if you forgot to turn off the lights at home. You simply do it out of your office, the car or even when you're on vacation. By connecting via Bluetooth, the lighting can be controlled via smartphone even without integration into the in-house network.

After installing the app, a wide range of light colours and brightness levels can be set. Whether switching on or off, dimming or changing the colour – everything works steplessly via the app.

Every LED-strip of the alferlight assortment can be controlled this way.



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