



Brightly beautiful
A new interpretation of light



Atmosphere with radiance. Light is an essential component of life and has always fascinated people. It brightens dark hours, provides comfort, and gives rooms a cosy ambience.



Lights with character

Elegant and efficient



01



02

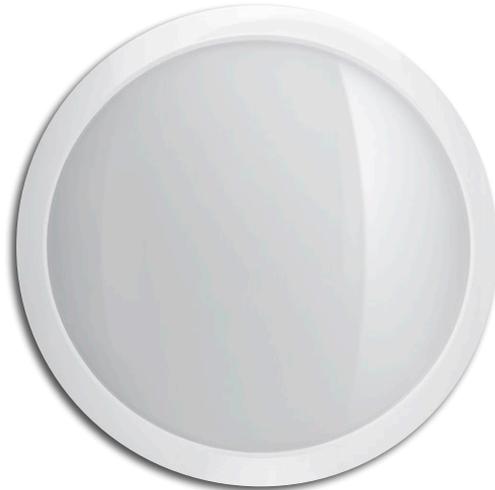


03

Always a bright spot of light. The innovative products of ABB / Busch-Jaeger give modern light design a new quality. Their attractive, rectilinear design emphasises the architecture and awakens emotions. The pleasant light lends each room an impressive atmosphere. And the high-quality technology makes them robust, long-lasting, and efficient. The versatile assortment opens up new perspectives in design, lighting, orientation, and the provision of information. Outdoors as well as inside. In both, the private and commercial area.



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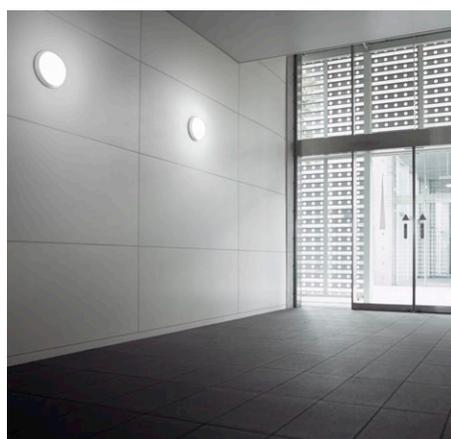
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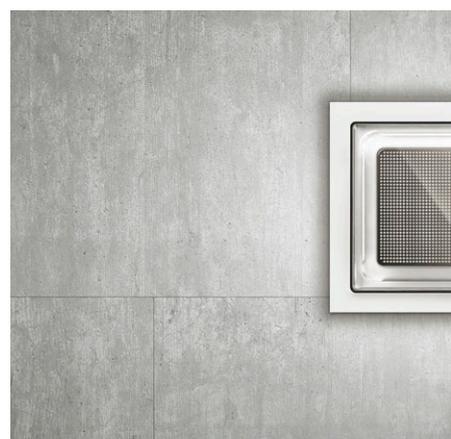
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01

Design





Design element by day Guide by night



Light inspires life. It brightens up the feelings and moods of people. It turns periods of time into unforgettable moments. And living space into a pleasant atmosphere. Yet light unfolds its special effect in the harmony with its surroundings. A totally new harmony of a stylish light source with high-quality architecture has been achieved.



- » Modern aesthetics
- » Efficient LED technology
- » Versatile functions

A shining example for exceptional design

- » Exclusive, award-winning design
- » High-quality materials
- » Harmonised with ABB-Welcome
and Busch-Watchdog

The art of staging technology. In addition to safety aspects, the innovative lamps of ABB / Busch-Jaeger also always offer contemporary, fascinating optics. And the highest level of technical quality. We are pleased that we have been able to win an expert of world rank for the creation of well-chosen highlights. The internationally famous star architect Hadi Teherani. With his concept for clear lines, he has created works of art for ABB / Busch-Jaeger that impressively prove that sophisticated technology and exciting design harmonise perfectly.



Design by
HADI TEHERANI

Inspiration in every detail

World-famous designer Hadi Teherani is one of the best in his profession. His special trademark is extremely high demands on himself and his objects. With his incomparable, rectilinear style, he lends technically high-quality products an innovative and emotional design. He has proven his talent for this spectacular design in the development of office furniture, sanitary objects, shops, and trade fair booths.

For ABB/Busch-Jaeger, he has designed and implemented impressive, award-winning products. Like the fascinating Busch-iceLight® LED lighting system, the elegant Busch-MasterLight® door entry lamp, and the intelligent

Busch-Watchdog movement detector. They harmonise perfectly with ABB-Welcome® and Busch-priOn®.

When looking at these excitingly designed works of art, one notices immediately that his concept of reduction fits in perfectly with the philosophy of ABB/Busch-Jaeger. The consistent and sensitive concentration on essentials creates unique objects that are integrated harmonically into modern living concepts. And with their high quality, they emphasise the special style of the company.

02

Comfort
Safety
Efficiency





Putting everything in the right light LED technology



Light for every situation. People who seek contemporary and demanding lives also wish to design the lighting according to their personal desires. So that every hour of the day becomes a special event. For every modern room design, light thus plays a central role. It shapes and contrasts. It sets the stage for the architecture. It creates an individual, cosy atmosphere. With their impressive light and exceptional optics, ABB / Busch-Jaeger LED lamps make every room particularly attractive. Thus the most beautiful moments become a bright joy comfortably and efficiently.



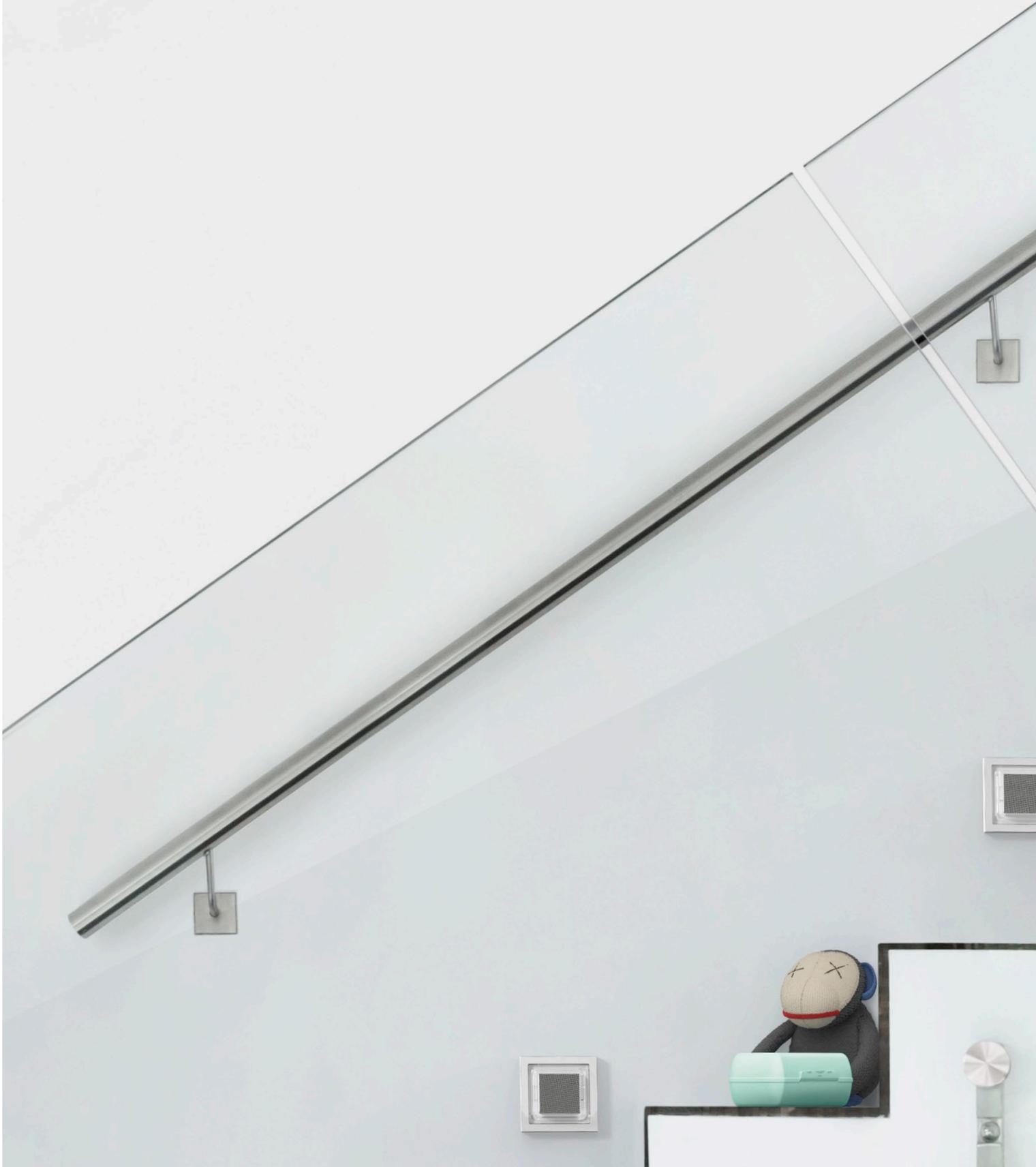
Valuable information about LEDs

LEDs (light-emitting diodes) do not function like incandescent or energy-saving lamps, but rather generate light from crystals. This trendsetting technology makes them impressively economical. LED lamps require only one-fifth of the electricity of the current conventional incandescent lamps, which convert most of the energy into heat. The light output of LEDs with a cold, white light colour, for example, lies at nearly 100 per cent. It barely converts energy into heat because it works differently. The light is generated by a semiconductor. Due to this resistance, the electrons lose energy. Thus the light does not arise from chemical or thermal processes as in the case of fluorescent or incandescent lamps.

In the case of this process, experts speak of luminescence radiation or cold light. An individual LED lights up in colour, usually blue. For white light, a lamp consists of two or three LEDs. Either blue and green or blue and yellow, as well as red. The eye interprets these combinations as white. In addition, the colour LEDs generate many other colour tones depending on composition. They are not subject to switching wear and thus persuade with a service life of up to 100,000 operating hours. They are insensitive against vibrations and do not have hollow bodies that can implode. In addition, they emit a monochrome light that illuminates very evenly.

03

Indoor





Uniqueness

With an infinitive number of bright spots



01

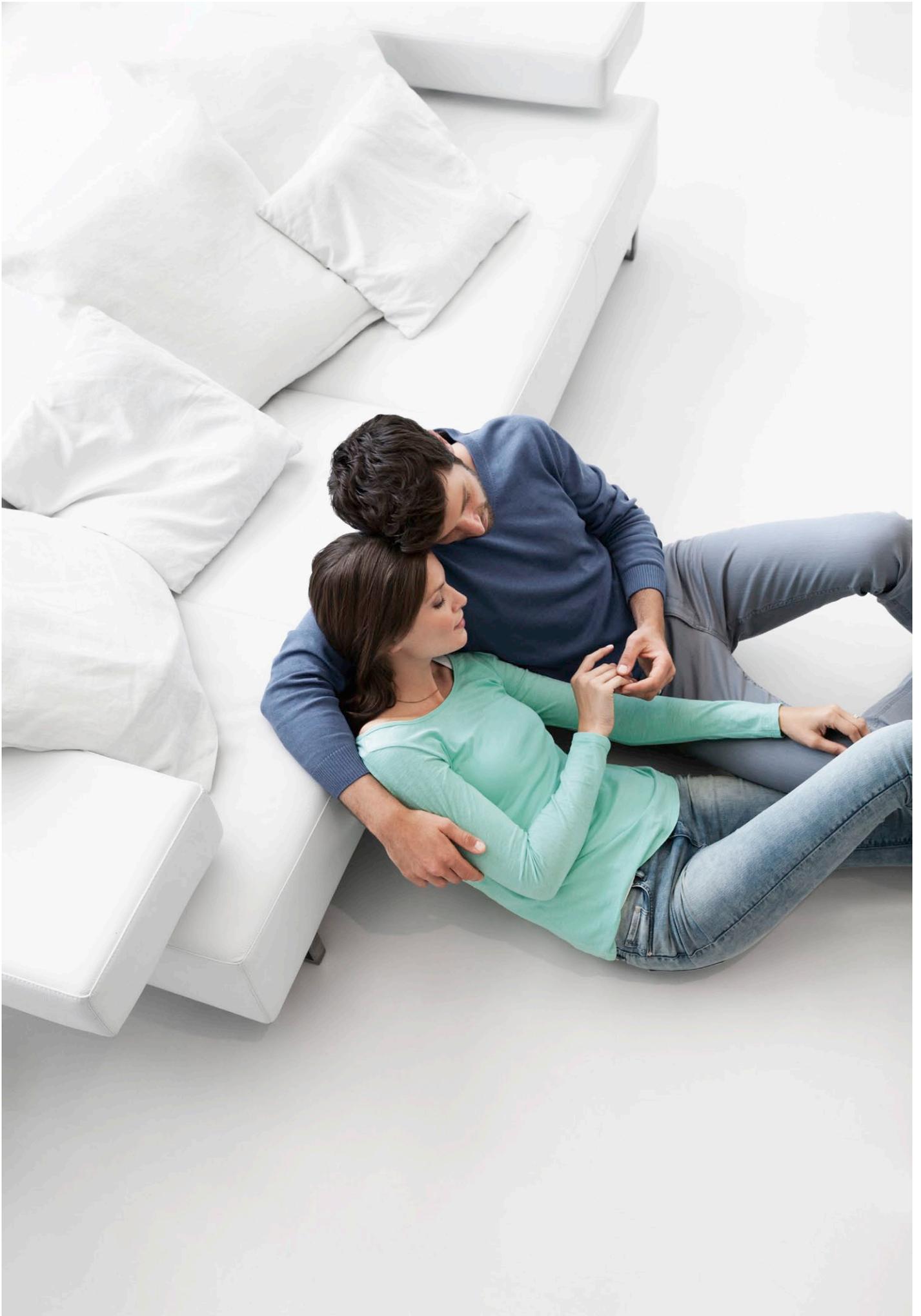


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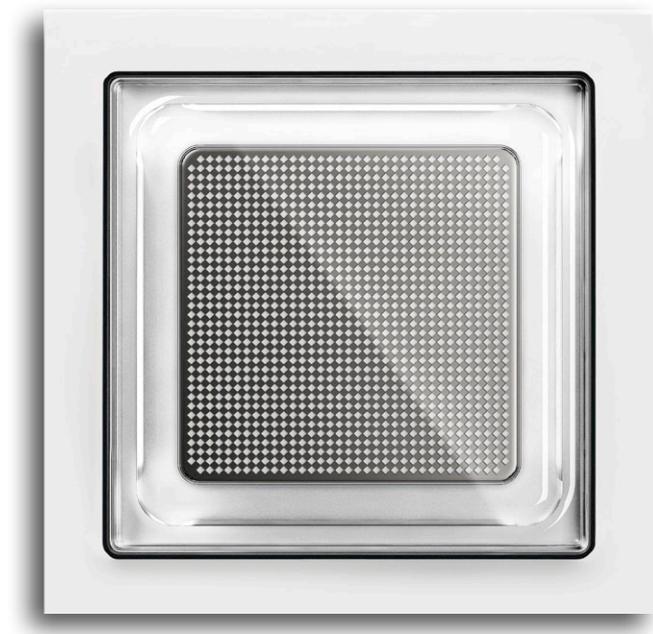
01 **Busch-iceLight®** – Wall module ambient

02 **Busch-iceLight®** – Ceiling module ambient

Light is more than brightness and darkness. It is multifaceted. This is because many factors influence its effect. The location of the light source and its intensity. The bundling and diffusion of the light rays and their colour temperature, as well as their reflection from surfaces. With its two variants, Busch-iceLight® offers many design possibilities. For wall and ceiling. And as a light for orientation. Each room thus obtains a personal touch.



Individual. To suit your mood. Busch-iceLight® – Wall module ambient



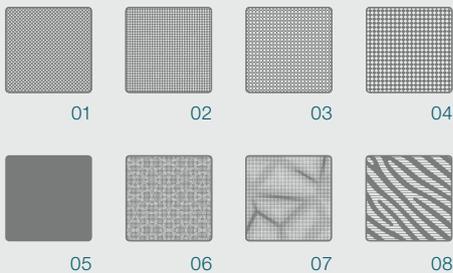
The dimensions of a room. They can be experienced through its walls. A special effect can be achieved by a light integrated into the wall. This is possible in many ways, it is up to your own imagination. With adjustable design covers. In this way, Busch-iceLight® – Wall module ambient creates a very personal atmosphere. And lends light a many-faceted character.



- » Innovative LED flush-mounted light system
- » High-quality materials
- » Design covers made of real metal
- » Eight grids/décors
- » Available with one light direction or four and five light directions

Visual nuances to suit personal taste.

High-quality inlays that fit the respective ambience are available for Busch-iceLight®. In eight different grids and décors. Simple geometric patterns. Structures that will remind you of crystals. Shapes inspired by nature.



- 01 Inlay, standard
- 02 Inlay, hole pattern, square
- 03 Inlay, hole pattern, net
- 04 Inlay, hole pattern, diamond

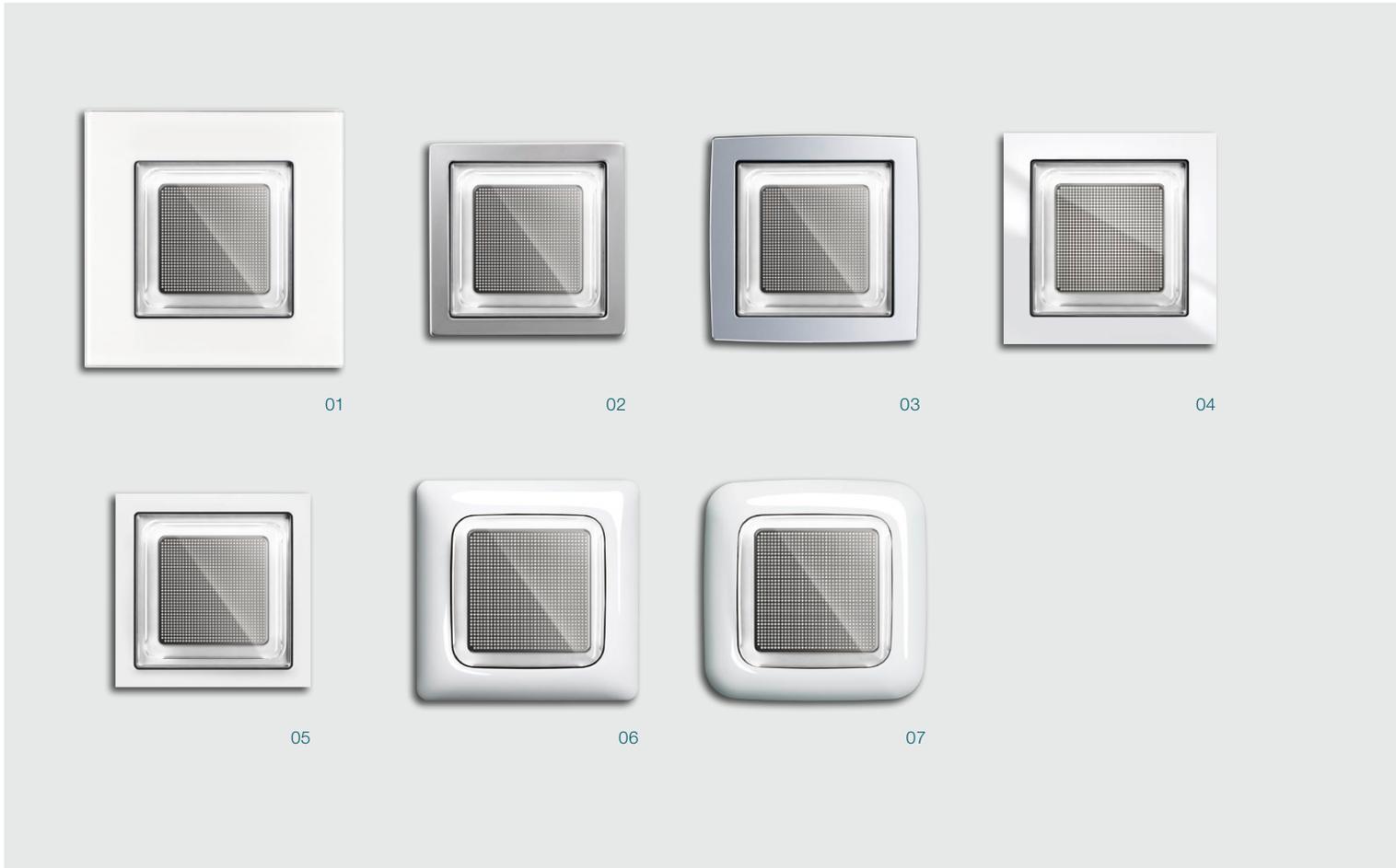
- 05 Inlay, closed
- 06 Inlay, Décor 21
- 07 Inlay, Décor 23
- 08 Inlay, Décor 24



One idea for more ideas

The illuminating effect of Busch-iceLight® can be easily multiplied within the room. Through arrangements and arrays. On wall or ceiling. The freedom of illumination knows no limits. From a plain series from wall to wall to geometrically complex patterns, everything is possible. Especially on large surfaces, spectacular stagings can be creatively implemented.

- » Modular system
- » Three colour temperatures
- » Can be integrated into many switch ranges



01 **Busch-iceLight®** – Wall module ambient, switch series **carat®**

02 **Busch-iceLight®** –Wall module ambient, switch series **pure stainless steel**

03 **Busch-iceLight®** – Wall module ambient, switch series **solo®**

04 **Busch-iceLight®** – Wall module ambient, switch series **Busch-axcent®**

05 **Busch-iceLight®** – Wall module ambient, switch series **future® linear**

06 **Busch-iceLight®** – Wall module ambient, switch series **Reflex SI Linear**

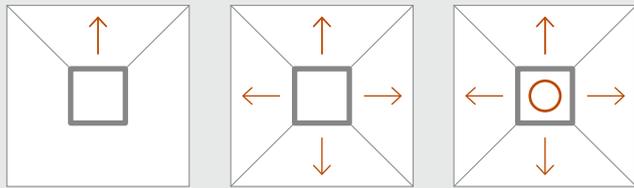
07 **Busch-iceLight®** – Wall module ambient, switch series **Reflex SI**

Design and style. Suitable for all room situations.

Unique and uniform. In every form. Because Busch-iceLight® is available in different designs – according to architecture and ambience. In the process, it fits perfectly in the Busch-Jaeger switch ranges. And thus expands the possibilities for design, lighting, orientation, and the provision of information. For a harmonic integration of light into living spaces.

Selectable light directions

The Busch-iceLight® LED lamp is as elegant as flexible. It is adapted completely to the desires of the inhabitants or the specific room situation. Two models are available. With one or four light directions to the left, right, top, and bottom. This model can also be converted to five light directions. In this case, one LED also lights at the front. Pictograms, for example, are thus particular good to see in the dark.



01

02

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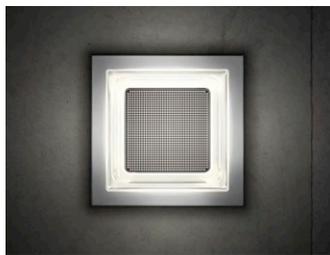
01 One light direction

02 Four light directions

03 Five light directions

More than next to each other. With each other.

Whether with socket outlets or light switches – the impression the Busch-iceLight® gives in its interaction is always positive. In each constellation the elegant reserve of the design always presents a pleasing appearance. With the surface and colour of the frame contrast or a visual uniformity can be given to an ensemble.



LED technology and durability

The elegant Busch-iceLight® was developed on the basis of state-of-the-art LED technology. LEDs are superior to conventional incandescent or halogen lamps in many cases. Their service life amounts to up to 100,000 operating hours, which means less maintenance. LEDs emit hardly any heat, are insensitive to shocks, and do not have hollow bodies that can implode. In addition, they generate a pleasant, even light. They are extremely efficient since they consume only one-fifth of the electricity of conventional lamps. If Busch-iceLight® were to be lit around the clock for 365 days, for example, and the current price would be 30 cents at an average price of 23 cents per kilowatt hour.*

* When using the nightlight module. For a calculation example, see page 58.

Light with a pure radiance Busch-iceLight® – Ceiling module ambient

- » For ambient lighting
- » Colourful or functional
- » One lighting direction: downward



Light can be more than the illumination of a room. When it emphasises the expression of the architecture. When it underlines the personal touch. Like Busch-iceLight® – Ceiling module ambient. Because it emits light in its purest form. From above. In the process, it can be integrated discreetly. Individually in small rooms or as a series across large ceiling surfaces. Functional for entry areas, corridors, or stairwells. Evocatively for the bathroom. Wherever it is used – the Busch-iceLight® radiates the essentials.



The elegant Busch-iceLight® – Ceiling module ambient persuades with rectilinear design. It lights up impressively from below and creates a cosy atmosphere in every room. In the bathroom, it can be used as soft, basic lighting for a relaxing bath.



Beautiful light becomes a reality

Busch-iceLight® – Ceiling module ambient has a soft and unobtrusive effect. Because its transparent cuboid combines clear light with a clear line that is continued with the light beam that is projected downward. This is how visual accents can be set in each living space.

Busch-iceLight® presents a multitude of options – whether as a light arranged selectively or in rows. During designing, Busch-iceLight® – Ceiling module ambient displays its inherent architectural qualities to an exceptional degree. Namely through its moderate design.

For everyone who wants even more discretion
 Busch-iceLight® – Ceiling module ambient is also available in a particularly flat design. It is installed like a flush-mounted light switch, bordering the frame in a flush manner. This particularly elegant and discreet ceiling module is available in switch series future® linear and Reflex SI.

Safety with hand and foot Busch-steplight® and flush-mounted emergency light

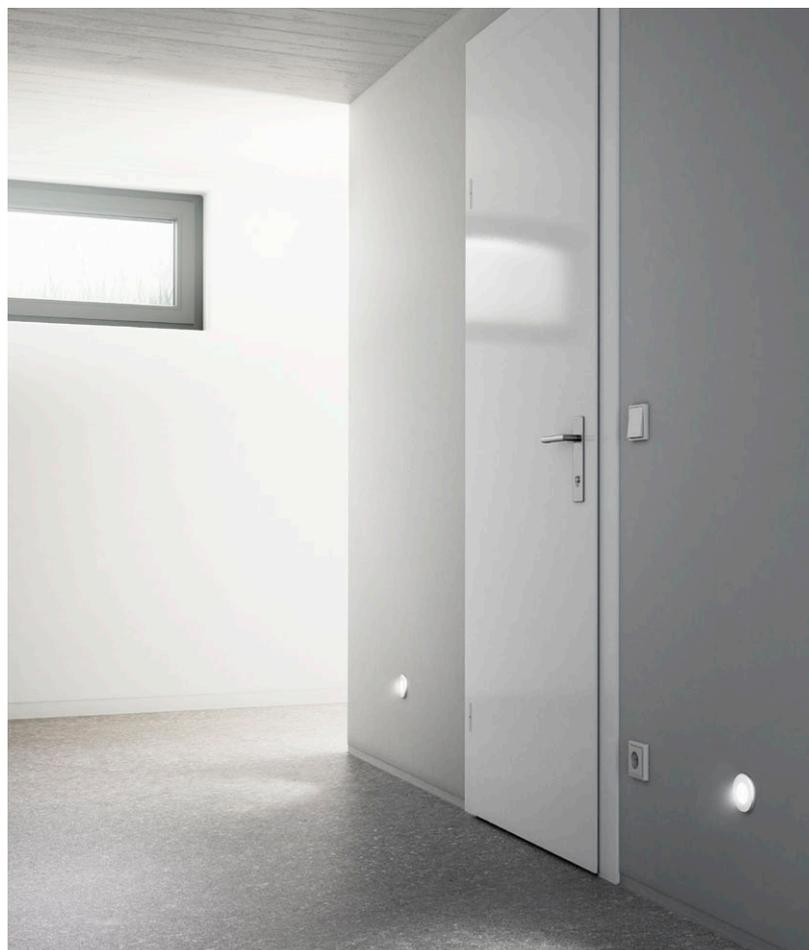


Safely on the move in the dark. Even during daylight, buildings, cellars, and underground car parks always have areas which are dark and unclear. Stairwells are particularly dangerous. With the permanently shining Busch-steplight® and the flush-mounted emergency light, one is always on the safe side at every turn.



Busch-steplight®

A socket outlet that safely shows the way in the dark with light on the ground and considerably simplifies orientation. Two LEDs create an easily visible cone of light, which shines vertically downwards out of the socket outlet centre plate. Upon desire, the light for orientation can be switched off at any time, independently of the socket outlet. It can be integrated into almost all ABB/Busch-Jaeger switch ranges (except for Decento® and impuls).



Flush-mounted emergency light

With a sufficient brightness (of 2 lux), this light is ideal for lighting special danger points in dark areas. Thus the flush-mounted emergency light is suited for both wall and ceiling mounting. Particularly comforting: in case of a power failure, it is switched over to battery operation for up to three hours. The LEDs then maintain the lighting. For example, in stairwells or in cellars.



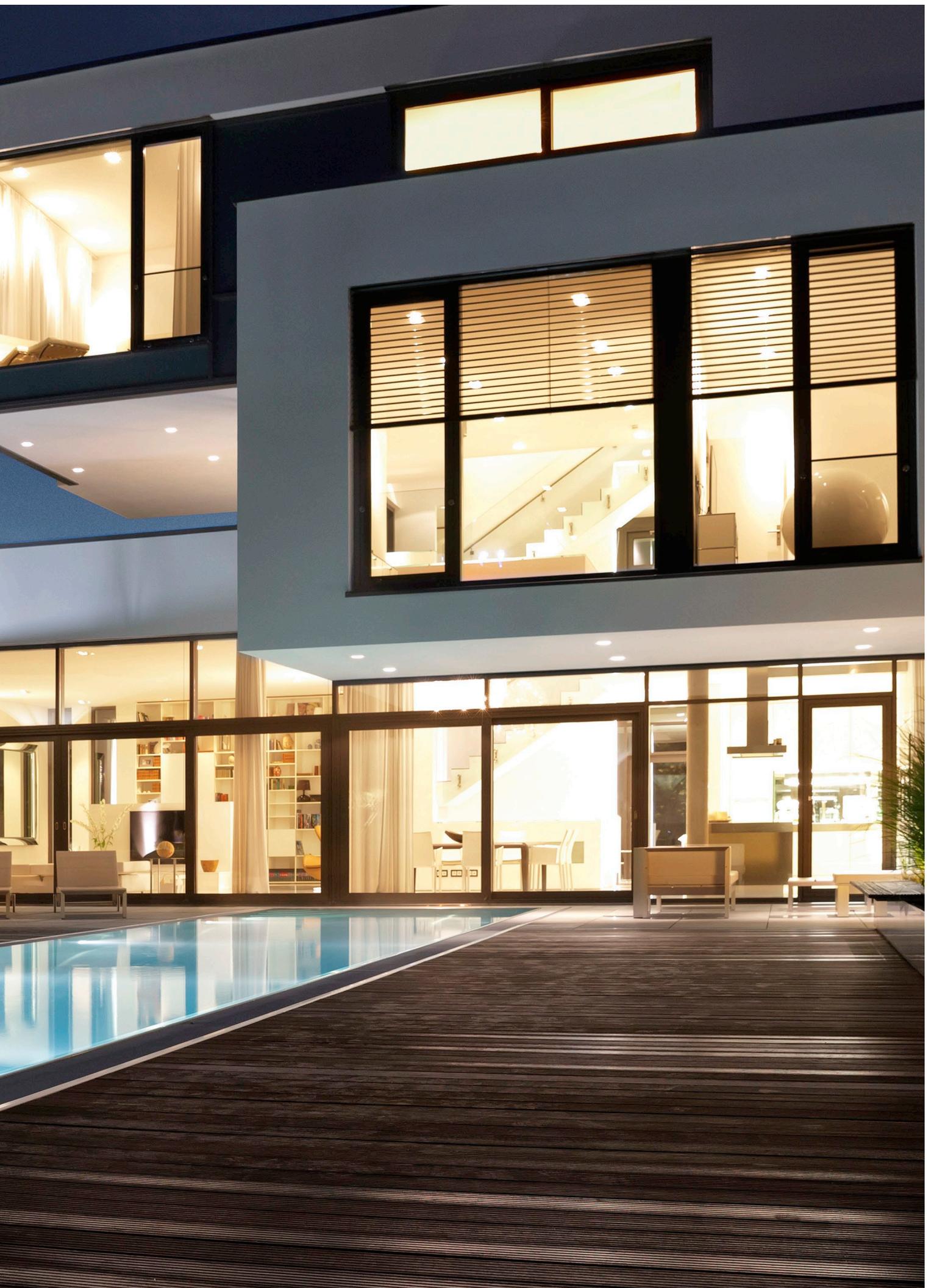
The colours of the flush-mounted emergency light

During battery operation, the four white LEDs are always activated to provide maximum brightness. In normal operation, the colour of the lighting can be freely selected and set using the potentiometer on the back side of the housing box (white/blue). For this purpose, one LED is available for lighting colour blue and four LEDs for lighting colour white.

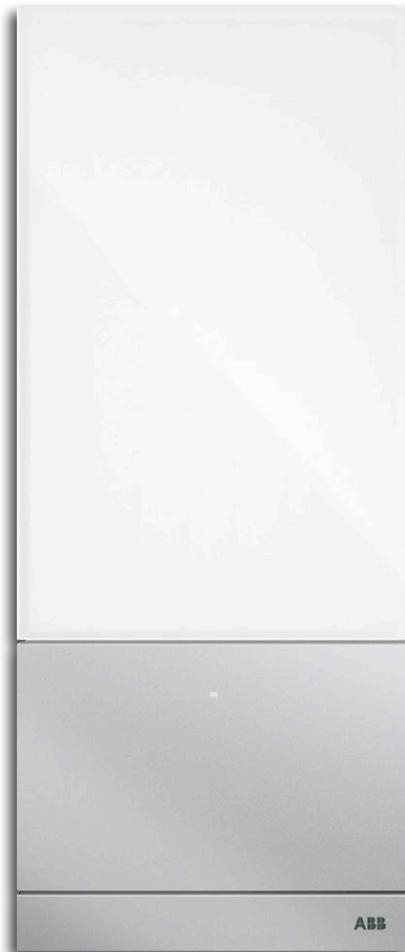
04

Outdoor





Signs of the time Busch-MasterLight®



Modern style, safety and elegance. The Busch-MasterLight® is much more than simply a light at the front door. It is the modern and aesthetic opportunity to show ones true colours. This innovative lamp enhances the individual style of the house and is the perfect supplement for the new Busch-Watchdog. It safely shows visitors the way. And with its innovative LED technology with 15 different colours, it is more variable and efficient than any other lamp.



Clear, elegant optics

The Busch-MasterLight® impresses with its aesthetic, inspiring design. And the white translucent luminary with specially developed optical fibre for uniform light distribution. In addition, the slim LED lamp, which is mounted flat on the wall, is only whole 33 millimetres deep. That is why it matches perfectly with the new Busch-Watchdog generation and the outdoor station of the ABB-Welcome range. This also ensures a uniform design in front of the house.

The Busch-MasterLight® presents itself in the colours white, anthracite, brown and silver metallic. In this way, this modern lamp, together with its clear shape, adapts itself harmoniously to all imaginable facade colours. It can be also mounted precisely on uneven stonework. Thanks to a level adjustment, a special soft component on the rear of the wall connection box.

Exemplary efficiency

The Busch-MasterLight® is particularly economical due to its innovative LED technology. Nine LED lamps provide a minimum power consumption at a high luminosity. The luminous efficiency of the LEDs corresponds approximately to a 40 watt incandescent lamp. This ensures adequate illumination for the entrance area of the house if it is mounted close to the door. When twilight falls, the LED switches the light on with approximately 15 per cent of the maximum brightness value. The brightness can also be automatically switched to 100 per cent using a push-button. For example, when a Busch-Watchdog detects a person approaching the house. In addition, the push-button acts as a panic button to activate the alarm function when required; the lamp then conspicuously flashes red and white.

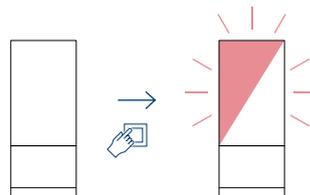


House number included

When twilight falls, the LED switches the light on with approximately 15 per cent of the maximum brightness value. This enables strangers – whether taxi drivers, rescue services or delivery people – to clearly read the house number. It can be easily fixed to the luminous area with self-adhesive numbers and letters which also match the design.

Precise and straight

The Busch-MasterLight® has a 3-point rear panel made of aluminium. It can thus be precisely mounted onto uneven surfaces.



Alarm function

The alarm function is activated by pressing an auxiliary switch. The lamp in this case flashes red and white. This alerts the neighbours, passersby and the rescue services to the site of an emergency. Even without knowing its function the rescue services are definitely made aware of the flashing light. They recognize the house number sticker and quickly find the right direction. A new press of the push-button cancels the alarm function.

- » Modern design
- » Adjustable light colours
- » Dusk light
- » Emergency-call signal



Illuminatingly different

With Busch-MasterLight®, 15 different colours can be set, for example, to match the facade or to make a special accent. This is made possible due to the different colours of the LEDs. The desired colour of the light can be set via the extension unit input in the house with the push-button. The Busch-MasterLight® uses five white LEDs and four LEDs with adjustable colours. The mixing of white, red, green and blue light results in new shades of colour. This is another advantage of the innovative LED technology, in addition to energy efficiency.



A matter of personal taste

The Busch-MasterLight®. It invites to a game with colours and always shines anew on request. 15 different shades of colour are available for selection, which can be varied according to wish and mood. This allows you to keep the entrance area atmospheric over and over again.

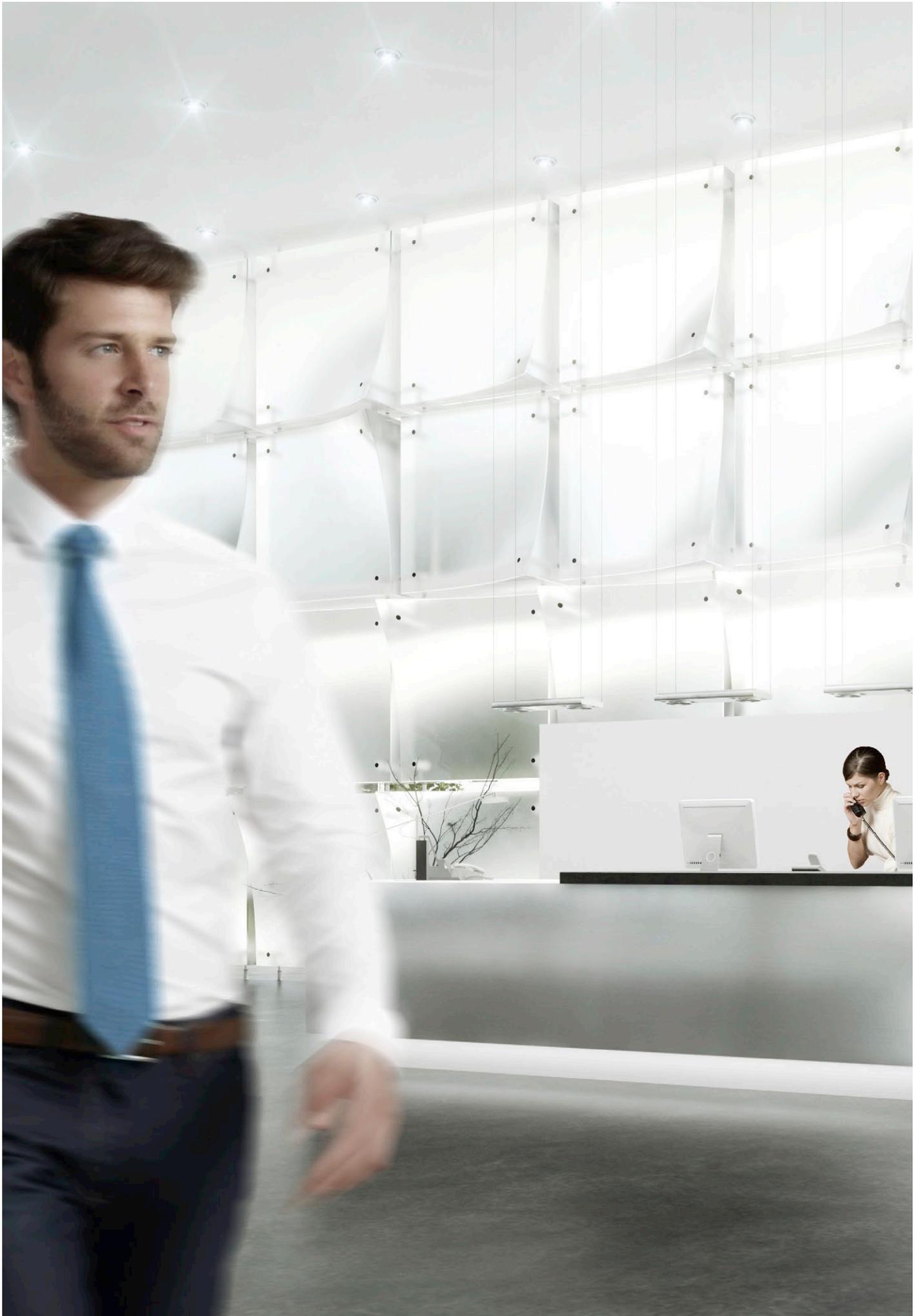
05

Industry solutions

U3 →

A photograph of a modern hallway. The wall is composed of large, light grey panels. A horizontal band of blue panels runs across the middle of the wall. On this blue band, the text 'U3' is written in large, white, sans-serif font, followed by a white arrow pointing to the right. The ceiling is also made of light grey panels and features two circular recessed lights. The floor is made of dark grey square tiles.

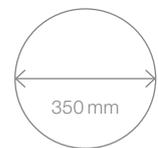




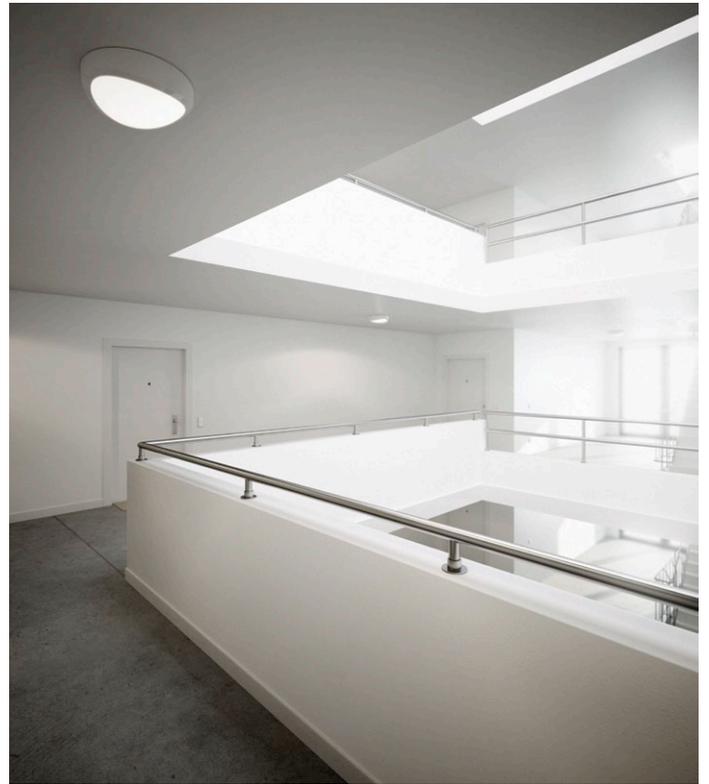
Innovative and economical Commercial light concepts

Modern companies value a good working atmosphere and elegant, functionally equipped rooms. Topics like layout, safety, sustainability, and economic efficiency thus have priority in the design. The innovative LED lamps of ABB / Busch-Jaeger fulfil these requirements and create a high-quality, contemporary ambience in commercial facilities. The Busch-IKLight® models for the continuous lighting of dark areas are not only optically attractive, but also economical and particularly robust. With clearly understandable pictograms, the fascinating Busch-iceLight® orientation guides users to their destination without diversions.

Hard shell, reliable core Busch-IKLight® Sextan



Efficient and long-lasting. In public buildings and commercial facilities, there are many areas that have to be lit continuously. This is both convenient and safe for visitors and employees who do not have to constantly turn on the light in corridors or stairwells. The requirements on a lamp for this hard, continuous use are economic efficiency, longevity, and robustness. The elegant Busch-IKLight® Sextan LED lamp combines all these criteria into one technically high-quality object, which is also a shining example for attractive design.



- » Very low energy consumption due to LED technology
- » Low-maintenance
- » Easy mounting
- » Long-lasting and safe against vandalism
- » Impact-resistant polycarbonate
- » Synthetical and metallic design

Economical, low-maintenance, and robust

The robust Busch-IKLight® Sextan is an energy-saving, low-maintenance LED lamp. Ideal for permanent lighting in public buildings and commercial facilities, such as pedestrian tunnels, parking garages, corridors, outdoor areas, or the locker rooms of sporting facilities.

Due to the innovative LED technology, it requires little electric power. Not only the CO₂ balance, but also the operating costs are reduced. Because of the lamp cover, specially developed for LED operation, it is still very powerful. Through a light current of 1,500 lumen, it lights up as strongly as two 75-watt incandescent lamps. In addition, it is extremely long-lasting and low-maintenance. The service life amounts to about 50,000 operating hours.

The Busch-IKLight® Sextan is suited for wall and ceiling mounting. After the mounting of the luminaire, the cover

can be easily installed using a special interlocking system. It can also be used very well together with Busch-Watchdog movement detectors. This is because the light intensity is immediately at 100 per cent at activation. And that even at low surrounding temperatures, for example, in warehouses or pedestrian tunnels. The special design of the cover and the robust materials like aluminium and polycarbonate offer a high resistance against impacts with an intensity of up to 20 joule (IK 10). Unauthorised disassembly is prevented by special screws. The appropriate tool for these screws can be found in the scope of delivery.

The long-lasting, robust Busch-IKLight® Sextan is available in two material variants. The synthetical design is available in the colours alpine white and grey. The metallic design in painted aluminium presents itself in alpine white, anthracite, aluminium silver, and stainless steel.

Extremely tough Busch-IKLight® Option



Robust and economical. Especially in areas that are publicly accessible, but not always busy, a luminaire must provide special characteristics. Facilities such as parking garages, train stations, pedestrian tunnels, or industrial property must rely on special models that are guaranteed to always work. The high-quality Busch-IKLight® Option LED lamp is the specialist for such challenges. It is extremely impact-resistant, consumes hardly any power in continuous operation, and has an impressively long service life. And its clear, contemporary design makes it even optically to a true bright spot.



- » Very low energy consumption due to LED technology
- » Low-maintenance
- » Easy mounting
- » Long-lasting and safe against vandalism
- » Impact-resistant polycarbonate

LED technology for efficient continuous operation

The robust Busch-IKLight® Option LED lamp consists of extremely impact-resistant polycarbonate and is available in the colours alpine white or black. Its great advantage is its security against vandalism. Even hard impacts of up to 20 joules (IK 10) have no effect. In addition, it cannot be dismantled by unauthorised persons. This is reliably prevented by special screws. The appropriate tool for these screws can be found in the scope of delivery.

A lamp for continuous operation makes sense only if it is exemplarily economical. In this point, Busch-IKLight® Option will impress you. Despite the minimum energy consumption, it lights up intensively, which lies on the specially developed lamp cover for the LED technology. Due to a light current of 900 lumens, it is comparable with a 100-watt incandescent

lamp. Even the particular longevity with about 50,000 operating hours and the almost maintenance-free technology provide a noticeable reduction in the operating costs.

In addition, Busch-IKLight® Option harmonises perfectly with Busch-Watchdog movement detectors since the full light intensity of 100 per cent is available immediately when the lamp is activated. Even at cold temperatures.

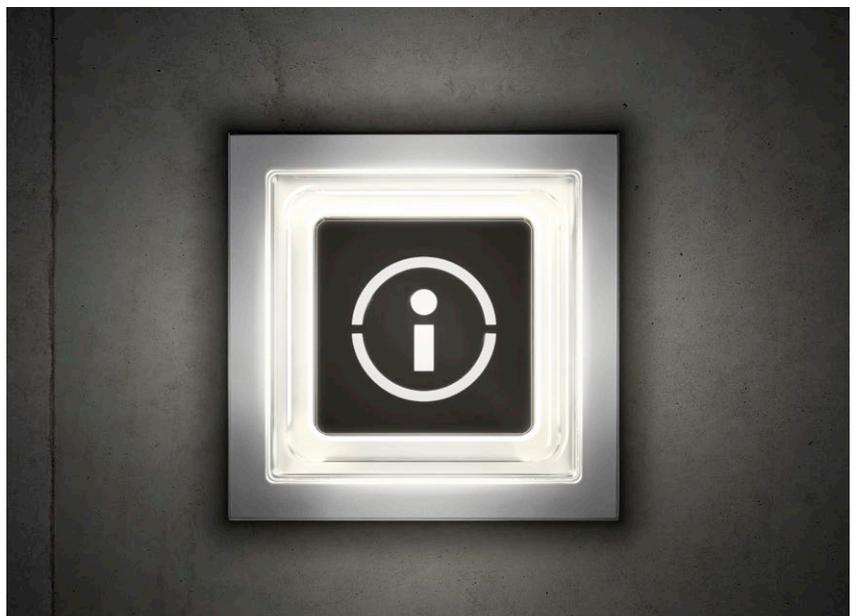
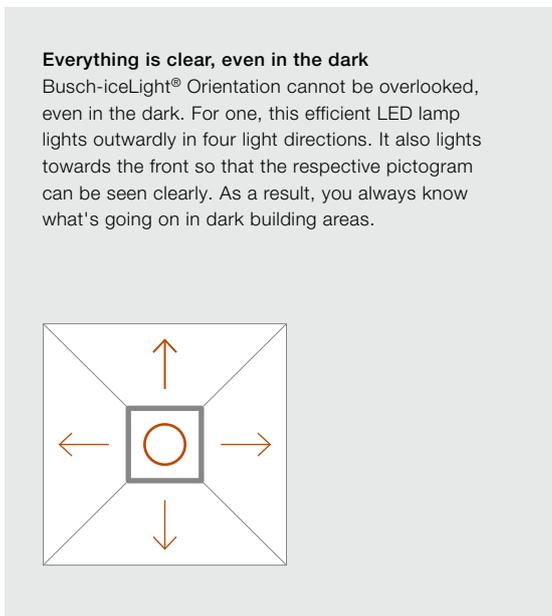
After the mounting of the luminaire, the cover can be easily installed using a special interlocking system. A robust and particularly energy-saving lamp that is excellently suited for permanently lit areas in public buildings and commercial facilities.

Light with labels

Busch-iceLight® – Orientation



Whether for one's path or one's destination – orientation is necessary. This is especially so in a world that is getting even more complex. And it should appeal at the very first glance. Because this enables people to move safely on unfamiliar terrain. Especially in buildings with public traffic is clear communication important. Also as an identifying sign of high-quality architecture. Here Busch-iceLight® Orientation gladly takes the lead.



Conspicuous due to its modest style

Busch-iceLight® Orientation is ideal for fast orientation and provides information clearly and distinctly. The high-contrast symbols can also be well detected from afar. Currently 30 versions are available – for almost all requirements in the commercial or semi-public places.

- » Fast orientation
- » Clear information
- » Design covers made of real metal
- » Easily legible
- » Five light directions

06

Range

Illuminating arguments for better light. The versatile range of ABB / Busch-Jaeger persuades due to interesting solutions for contemporary design and the control of light concepts in the private and commercial sector. With economical and long-lasting products and state-of-the-art technology, whose high quality and timeless optics thrill the observer again and again.



Light as desired For a comfortable feeling

Cosy ambience. Two basic factors take modern living concepts to a special level. The individual and creative design of the rooms. And intelligent house technology. For example, convenient and efficient light control. In every situation, it creates the right atmosphere, supports you when working at home, or provides security indoors and outside.



Always the perfect light. Busch-Dimmer®

The innovative Busch-Dimmer® is the perfect addition to modern LED lamps. This is because they provide particularly convenient and efficient light control. Whether during a relaxing bath, dinner, or a cosy evening in front of the television – Busch-Dimmer® puts every situation in the right light through a soft reduction of the luminous energy. It always creates a special ambience.

Busch-Dimmer® was especially developed for dimming modern Philips retrofit LEDs. With them it produces the same results as with incandescent lamps. The cooperation of ABB/Busch-Jaeger with Philips – the market leader of LED lamps – guarantees trouble-free functioning for future LED lamps as well. The dimmer can, of course, also be used with other lamps – such as incandescent lamps, 230 V halogen lamps, 230 V halogen energy-saving lamps, low-voltage halogen lamps on inductive transformers, and electronic LC transformers.

The high-quality dimmer range of ABB/Busch-Jaeger offers a large selection of models for every application. For individual lighting moods which you can perfectly design the way you desire.



- » Modern design
- » Intelligent light control
- » Safety and efficiency

Wide awake day and night. Busch-Watchdog

The innovative movement detector of ABB/Busch-Jaeger makes your life more comfortable and efficient due to its modern, intelligent technology. It knows when light is needed. And when it is no longer needed, it switches off the lighting automatically again. In this way, it provides comprehensive security around the clock in addition to being especially efficient.



Outdoor movement detector

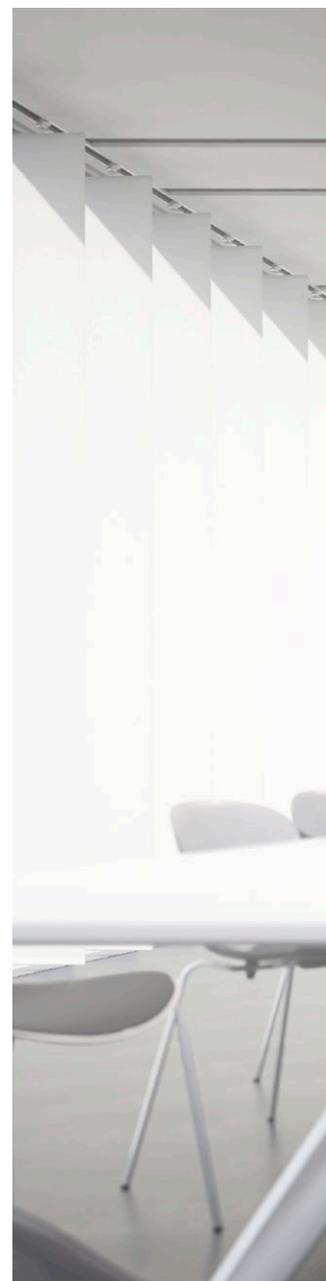
For outdoor use, the Busch-Watchdog MasterLINE models monitor security and efficiency. According to the version used, they offer special functions and detection ranges for all kinds of tasks. Whether being used on narrow terraced houses or for monitoring commercial facilities. With these modern, high-quality movement detectors, automatic light control is both easy and convenient.

Indoor movement detector

The models of the Busch-Watchdog 180 flush-mounted series are ideal for stairwells, foyers, and large, unclear rooms. They switch on the light as soon as they detect movement or a change in temperature due to body heat. And when no one is left in the room, they pay attention to efficiency and switch off the light again. The elegant Busch-Comfort switch, the ideal movement detector for living spaces, looks like a normal light switch. It can be switched contactless, manually or timer-controlled. The integrated sensor is not noticeable due to its extremely flat construction.

Modern light management

Busch-Watchdog Presence tech



01



02



03



04

Saving costs with innovation. Not only lighting systems but heating systems and air-conditioning systems can be controlled intelligently and efficiently with presence detectors. The choice of the right model depends on the height of the ceiling, the size of the room, the installation situation and the type of movement to be detected. This is because there are other detection situations in corridors or break room used by a lot of people than in offices in which employees are concentrating on their work.

01 Busch-Watchdog Presence tech

02 Busch-Watchdog Presence tech BasicLINE Corridor

03 Busch-Watchdog Presence tech BasicLINE

04 Busch-Watchdog Presence tech BasicLINE mini



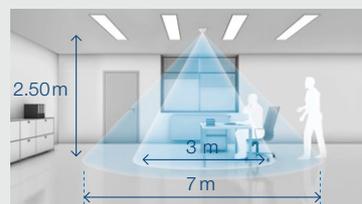
Everything under control. Comfortable and efficient.

Busch-Watchdog Presence tech movement detectors are like good employees – alert, reliable, and efficient. They are used for daylight-dependent lighting control, for example, and thus keep the necessary lighting intensity constant at the workstation or in break rooms. This is not only safe and comfortable, but also efficient. In addition, these innovative movement detectors always guarantee that connected devices are always available when they are needed. And if they are not needed, they are switched off automatically. Without having to

pre-define individual habits of use or work processes. During use, you don't miss a thing. The detection system consisting of four sensors and mirrors is far superior to conventional movement detectors. Even the smallest movement is reliably detected and triggers a response. Four technically and optically high-quality models always offer the right selection for applications in all areas.

Efficiency at the workplace

Busch-Watchdog Presence tech



| Products | Busch-Watchdog Presence tech BasicLINE mini | Busch-Watchdog Presence tech BasicLINE |
|---|---|--|
| Article number | 6811 EB | 6814 U |
| Incandescent lamps | 2,000 W | 2,000 W |
| Halogen load and fluorescent lamp | max. 1,000 W/VA ³ | max. 1,000 W/VA ³ |
| Compact fluorescent lamp | 7 W – 400 W | 7 W – 400 W |
| IR remote control ⁴ | – | – |
| External push-button input | – | X |
| Detection LED ¹ | X | X |
| Operation mode ⁵ | A | A/HA |
| Detection range ² | 5 m | 7 m ¹⁰ |
| Max. mounting height | 5 m | 4 m |
| Protection class | IP 20 | IP 40 |
| Sensitivity of inner cones ⁸ | High | High |
| Sensitivity of outer cones ⁸ | Medium | Medium |
| Ceiling mounting without VDE box | X | X |
| Surface-mounting box | – | – |
| Recommended zones according to EnEV | 15, 16, 17 | 15, 16, 17, 19 |

¹ Only in test mode

² Detection range (2.50 m mounting height)

³ CFL 7 W – 400 W

⁴ IR remote control to be ordered separately

⁵ A = automatic mode, M = manual mode, ZA = automatic time control, HA = semi-automatic

⁶ With the following flush-mounted inserts: 6401 U-102 (2.300 W/VA, 3-wire connection system) /

6402 U (2.300 W/VA, 3-wire) 6804 U-101 (60 – 420 W/VA, 2-wire connection system) /

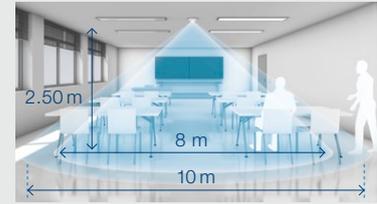
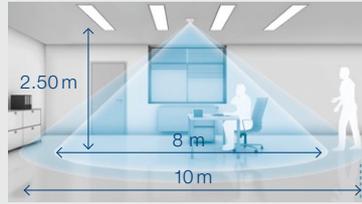
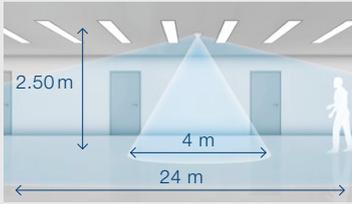
6593 U (60 – 420 W/VA universal dimmer), and 6550 U-101 (700 W/VA, 1 – 10 V DC, max. 50 mA DC for ballast)

⁷ Dependent on flush-mounted insert 6401 U-102 (2.300 W/VA, 3-wire connection system) / 6402 U (2.300 W/VA, 3-wire connection system) / 6812 U-101 (700 W/VA 3-wire connection system) / 6804 U-101 (60 – 420 W/VA, 2-wire connection system) / 6593 U (60 – 420 W/VA universal dimmer) and 6550 U-101 (700 W/VA, 1 – 10 V DC, max. 50 mA DC for ballast)

⁸ Sensitivity of detection: very high = movement of hand, high = movement of arm, medium = walking movement

⁹ Use with surface-mounted housing 6888, * Busch-Watchdog Presence tech DualLINE

¹⁰ The detection range with a central approach is reduced



**Busch-Watchdog Presence tech
BasicLINE Corridor**

**Busch-Watchdog Presence tech
Busch-Watchdog Presence tech DualLINE**

**Busch-Watchdog Presence tech KNX
Busch-Watchdog Presence tech DualLINE KNX**

| | | |
|---|--|---|
| 6818 U | 6813-101 / 6813/11-xx | 6131/10 / 6131/11 |
| 2,000 W | max. 2,300 W ⁷ | - |
| max. 1,000 W/VA ³ | max. 2,300 W/VA ⁷ | - |
| 7 W – 400 W | 7 W – 500 W / max. 20 pieces ⁷ | - |
| 6843 | 6010-25 | -/6010-25* |
| X | X ⁶ | - |
| X | - | - |
| A | A/AHA | A, ZA, HA, M |
| 24 m | 8 m | 8 m |
| 3 m | 8 m | 8 m |
| IP 40/54 ⁹ | IP 20 | IP 20 |
| High | Very high | Very high |
| Medium | High | High |
| X | - | - |
| IP 54 with surface-mounted housing (6888) | IP 20 (6885-xxx) | IP 20 (6885-xxx) |
| 19, 32 with surface-mounted housing (IP 54) | 1 to 42 (constant light control can be integrated) | 1 to 42 (constant light control is integrated in 6131/11) |

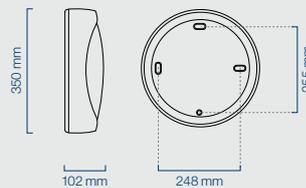
| Mounting height | detection diameter | | | | | KNX | |
|-----------------|------------------------------|---------------------------------------|---|--|---|------------------------------|---------------------------------------|
| | Busch-Watchdog Presence tech | Busch-Watchdog Presence tech DualLINE | Busch-Watchdog Presence tech BasicLINE mini | Busch-Watchdog Presence tech BasicLINE | Busch-Watchdog Presence tech BasicLINE Corridor | Busch-Watchdog Presence tech | Busch-Watchdog Presence tech DualLINE |
| | 6813-101-500 | 6813/11-500 | 6811 EB-500 | 6814 U-500 | 6818 U-500 | 6131/10-500 | 6131/11-500 |
| 2 m | 6 m | 6 m | 4 m | 6 m | 20 m | 6 m | 6 m |
| 2,5 m | 8 m | 8 m | 5 m | 7 m | 24 m | 8 m | 8 m |
| 3 m | 10 m | 10 m | 6 m | 8 m | 20 m | 10 m | 10 m |
| 3,5 m | 12 m | 12 m | 7 m | 9 m | | 12 m | 12 m |
| 4 m | 14 m | 14 m | 8 m | 10 m | | 14 m | 14 m |
| 4.5 m | 16 m | 16 m | 9 m | | | 16 m | 16 m |
| 7.5 m | | | | | | 20 m | 20 m |

Quality in every detail Busch-IKLight® Sextan



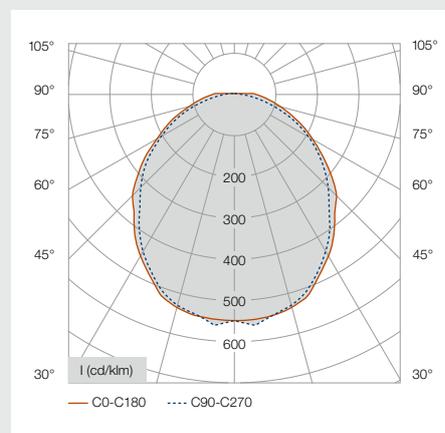
Robust, efficient, and long-lasting

The Busch-IKLight® Sextan LED lamp is an extremely robust lamp made of polycarbonate or polycarbonate and aluminium. Its service life amounts to about 50,000 hours. Due to a special interlocking system, it is easy to mount. It offers a high resistance to the effect of impacts of up to 20 J (IK 10). Ideal for hard to reach mounting sites and permanently lit applications in public buildings.



Photometric curve

The lamp efficiency of the most highly efficient Busch-IKLight® Sextan LED lamp amounts to 77 %. It provides a luminous efficiency of 71 lm/W at a luminous flux of the overall lamp of 1,500 lm.



- » Material: Polycarbonat e/ aluminium
- » Service life: About 50,000 operating hours
- » Lamp efficiency: 77%
- » Luminous efficiency 71 lm/W
- » Luminous flux of overall lamp: 1,500 lm

An overview of the details

The following table provides information on the most important technical, mechanical, and electronic details of the Busch-IKLight® Sextan LED lamp.

Technische data

| | |
|-----------------------|----------------------------------|
| Light source | LED module |
| Luminous flux | 1,850 lm |
| Luminous flux of lamp | 1,500 lm |
| Colour index | > 80 (colour rendering index 1B) |
| Efficiency | 71 lm/W |
| Service life of lamp | About 50,000 h |
| Colour temperature | 4,000 K |

Mechanical data

| | |
|---------------------|---|
| Housing material | Polycarbonate |
| Cover | Polycarbonate, opal |
| Frame material | Polycarbonate or aluminium |
| Colour | Alpine white, grey (polycarbonate) or alpine white, anthracite, aluminium silver, stainless steel (aluminium) |
| IK protection class | IK 10 |
| Protection type | IP 55 |
| Glow-wire test | 850° C |

Electronic data

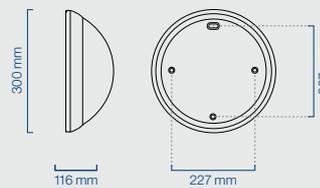
| | |
|----------------------|--------------------|
| Power supply voltage | 230 V / 50 – 60 Hz |
| Class | Class II |
| Total consumption | 21 W |
| Temperature range | -20° C to 35° C |
| Ballast | LED driver |

Convincing technology Busch-IKLight® Option



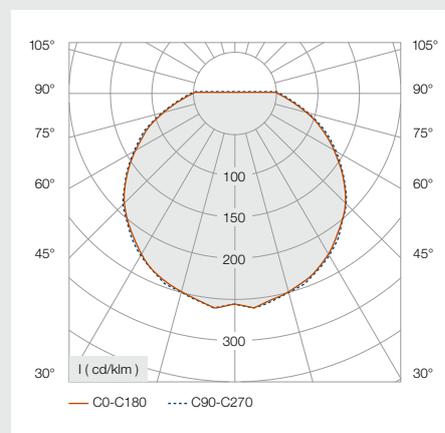
Sustainable, reliable, and robust

The Busch-IKLight® Option LED lamp is especially robust and long-lasting due to its construction from high-quality polycarbonate. Even a strong mechanical effect of up to 20 J (IK 10) intensity does not affect it. For this reason, it is ideal for hard to reach mounting sites and permanently lit applications in public buildings. Its service life amounts to about 50,000 hours. In addition, it can be installed easily using a special interlocking system.



Photometric curve

The lamp efficiency of the most highly efficient Busch-IKLight® Option LED lamp amounts to 70 %. It provides a luminous efficiency of 43 lm/W at a luminous flux of the overall lamp of 900 lm.



- » Material: Polycarbonate
- » Service life: About 50,000 operating hours
- » Lamp efficiency: 70%
- » Luminous efficiency 43 lm/W
- » Luminous flux of overall lamp: 900 lm

Everything important at a glance.

The following table provides information on the most important technical, mechanical, and electronic details of the Busch-IKLight® Option LED lamp.

Technische Daten

| | |
|-----------------------|----------------------------------|
| Light source | LED |
| Luminous flux | 1,300 lm |
| Luminous flux of lamp | 900 lm |
| Colour index | > 80 (colour rendering index 1B) |
| Efficiency | 43 lm/W |
| Service life of lamp | 50,000 hours |
| Colour temperature | 4,000 K |

Mechanical data

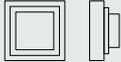
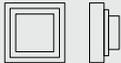
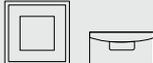
| | |
|---------------------|---------------------|
| Housing material | Polycarbonate |
| Cover | Polycarbonate, opal |
| Frame material | aluminium. |
| Colour | White or black |
| IK protection class | IK 10 |
| Protection type | IP 44 |
| Glow-wire test | 650 °C |

Electronic data

| | |
|----------------------|--------------------|
| Power supply Voltage | 230 V / 50 – 60 Hz |
| Class | Class II |
| Total consumption | 21 W |
| Temperature range | -20° C to 35° C |
| Ballast | LED driver |

The new standard for designing Busch-iceLight®

Modules and luminous intensity distribution

| Module | Dimensions (H x W x D) | Application | Inlays |
|---|--|---|--|
| Wall module One light direction  |  80 mm x 80 mm x 26 mm | <ul style="list-style-type: none"> » For ambient and orientation lighting » Light outlet upward or downward » To take up decorative inlays » Standard inlays premounted by delivery | Dimensions 43.3 mm x 43.3 mm Material Metal, anti-fingerprint  |
| Wall module Five light directions/ Infolight   |  80 mm x 80 mm x 26 mm | <ul style="list-style-type: none"> » For ambient and orientation lighting and Infolight » Light outlet on all four sides and forward » To take up decorative inlays and pictograms » Standard inlays premounted by delivery | Dimensions 43.3 mm x 43.3 mm Material Metal, anti-fingerprint  |
| Ceiling module One light direction.  |  86 mm x 86 mm x 45 mm | <ul style="list-style-type: none"> » For ambient lighting » Light outlet downward | |

Energy consumption:

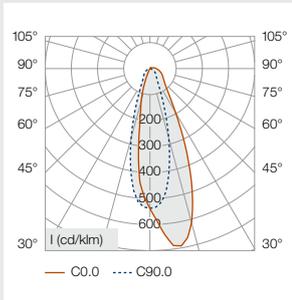
Example calculation, nightlight module insert

$$0.15 \text{ W} \times \frac{24 \text{ h}}{\text{Day}} \times \frac{365 \text{ days}}{\text{year}} = 1.314 \frac{\text{Wh}}{\text{year}} = 1.314 \frac{\text{kWh}}{\text{year}} \quad 1.314 \frac{\text{kWh}}{\text{year}} \times 0.23 \frac{\text{€}}{\text{kWh}} \approx 0.30 \frac{\text{€}}{\text{year}}$$

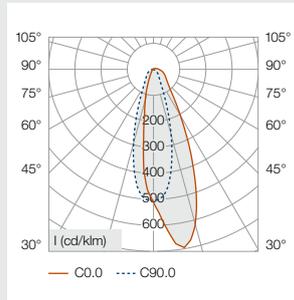
Distribution of light intensity, power module

The direction and intensity of light with the Busch-iceLight® exhibits a certain luminous intensity distribution curve. This can be used to plan the required number of lamps and their distribution in the room. The results are related to 100 per cent luminous intensity (source: DIAL).

One light direction

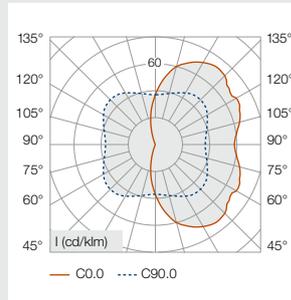


Warm white

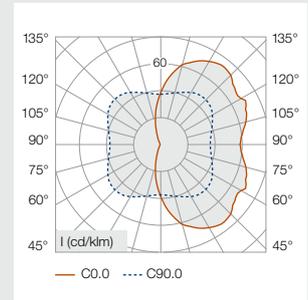


Neutral white

Five light directions



Warm white



Neutral white

Overview of inserts

| Modules | Switchover between 100% and 25% via slide switch | | Current consumption: | | | | Colour temperature | | | | Can be combined with | | | |
|---|--|---|----------------------|-------|--------------------|--------------------|-----------------------|--------------------|---------------------------------|-----------------------------------|----------------------|--|--|--|
| | | | 350 mA | 40 mA | Warm white 2,700 K | Warm white 3,000 K | Neutral white 4,000 K | Cold white 6,500 K | Wall module One light direction | Wall module Five light directions | Ceiling module | | | |
|  | | | | | | | | | 2068/11-84 | 2068/14-84 | 2068/21 | | | |
| | | | | | | | | | 2068/11-214 | 2068/14-214 | | | | |
| Power module 2067/11 U | X | X | - | X | - | - | - | X | X | X | | | | |
| Power module 2067/12 U | X | X | - | - | - | X | - | X | X | X | | | | |
| Night light 2067/13 U | - | - | X | - | X | - | - | X | X | X | X* | | | |
| Night light 2067/14 U | - | - | X | - | - | - | X | X | X | X | X* | | | |

* Combination possible; however, not practical due to the low luminosity

Shapes and colours

Overview of product range



01 02 03 04

01 **Busch-iceLight®** – Wall module ambient*

02 **Busch-iceLight®** – Orientation*

03 **Busch-iceLight®** – Ceiling module ambient

04 **Busch-iceLight®** – Ceiling module ambient**



05

05 **Busch-stepLight®***



06 07

06 Flush-mounted emergency light – zinc die-casting coated, anthracite

07 Flush-mounted emergency light – zinc die-casting coated, silver



08 09 10 11

08 **Busch-MasterLight®**, white

09 **Busch-MasterLight®**, anthracite

10 **Busch-MasterLight®**, brown

11 **Busch-MasterLight®**, silver metallic

* Products available in almost all switch ranges

** Product available in switch ranges future® linear and Reflex SL.



12



13



14



15

12 **Busch-IKLight®** Sextan, aluminium alpine white

13 **Busch-IKLight®** Sextan, aluminium anthracite

14 **Busch-IKLight®** Sextan, aluminium aluminium silver

15 **Busch-IKLight®** Sextan, aluminium stainless steel



16



17

16 **Busch-IKLight®** Sextan, polycarbonate alpine white

17 **Busch-IKLight®** Sextan, polycarbonate grey



18

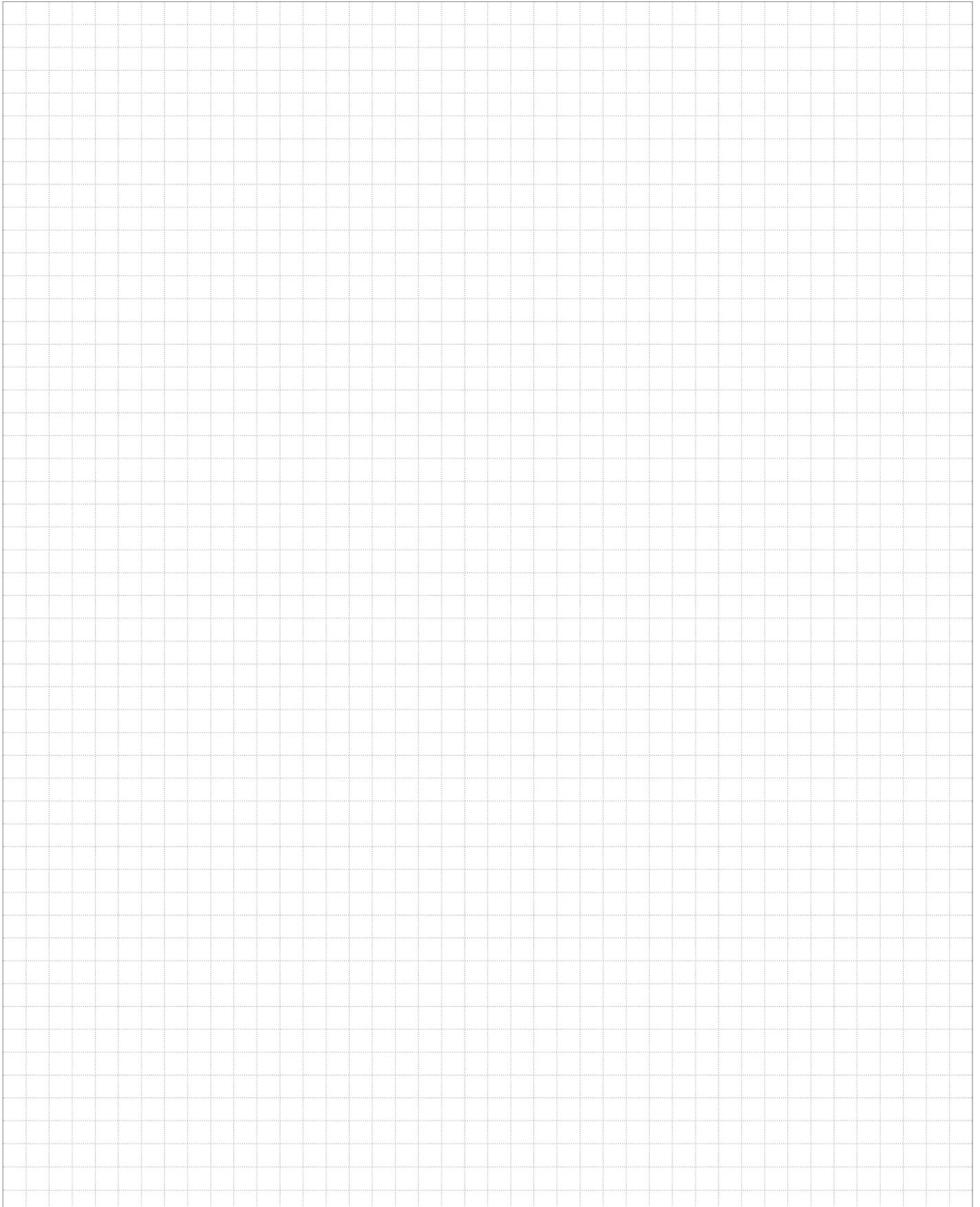


19

18 **Busch-IKLight®** Option, alpine white

19 **Busch-IKLight®** Option, black

Notes



Additional information

All details

Find out more detailed information regarding the functions and products of Busch-Jaeger. Detailed information worth knowing can be ordered as printed versions under www.busch-jaeger.de/de/service/prospekte.asp. Or just scan the service QR code and receive the desired brochure digitally as an e-paper.



Light Switches VDE Standard

Part number: 0001-0-1215



Light switches BS Standard

Part number: 0001-0-1073



Safety with comfort Busch-Watchdog

Part number: 0001-0-1363



A new home experience ABB-Welcome

Part number: 0001-0-1269



ABB i-bus® KNX Building System Technology.

Part number: 0001-0-0888



Experience the new living. ABB i-bus® KNX home and building control.

Part number: 0001-0-1232



The new switching freedom. WaveLINE RF solutions.

Part number: 0001-0-1334



Busch-AudioWorld® Multiroom Sound System

Part number: 0001-0-1126



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