Feel good

Innovations for your well-being –

B.E.G. Brück Electronic GmbH

We at B.E.G. made energy saving, comfort, flexibility and safety in buildings our mission early on. Many of our products have already become an integral part of everyday life. They work fully automatically and almost invisibly for the well-being of all building users.

The history of house construction is closely linked to the history of mankind. Buildings have always offered protection from the wind, weather and outside access. They convey a sense of safety and security. Today, the climate crisis, new work structures and rapid digitalisation are changing the way we live. Innovative solutions for saving energy are finding their way into buildings. The fundamental task remains the same: Creating space to feel good.


Feel go

od through

building automation

What do you think of when you read “Wellbeing in buildings”? Relaxing at home on the sofa, a good book, a glass of wine and evenings by the fire? Feeling good at home seems easy. But what about well-being at your workplace, in the office, in an industrial hall, in hospitals or residential homes, daycare centres, schools or other public buildings? We spend many hours there every day. Everyone should feel comfortable there as well.

At B.E.G., we automate buildings. We promote comfort, switch the lighting automatically, focus on biodynamic light and good air quality. We put the building user at the centre. To this end, we develop sensors that improve your life and promote well-being in buildings.

Feel good with lighting that creates comfort and safety

To conserve our natural resources, lighting is only switched on when it makes sense, i.e. where people are present or where permanent lighting is required for well-being and safety reasons. Motion detectors and occupancy detectors recognise movement and the natural infrared radiation of our bodies.

Feel good with B.E.G. motion detectors

Getting home safely on illuminated paths - not stumbling, recognising whether someone was approaching in the dark – was not always a matter of course.

Today, motion detectors belong on every house wall and also provide good service in corridors and stairwells.
B.E.G. has been a sensor specialist since the 1980s. Even the first motion detectors, the predecessors of our popular classic RC-plus next N, brought a whole new level of convenience to buildings: light, always where it is needed.

B.E.G. focusses on quality. Our high-quality B.E.G. motion detectors have a wide range of setting options, such as anti-creep protection, blinds to restrict the detection area and adjustment of overtravel times, so that they can be customised to suit any situation.

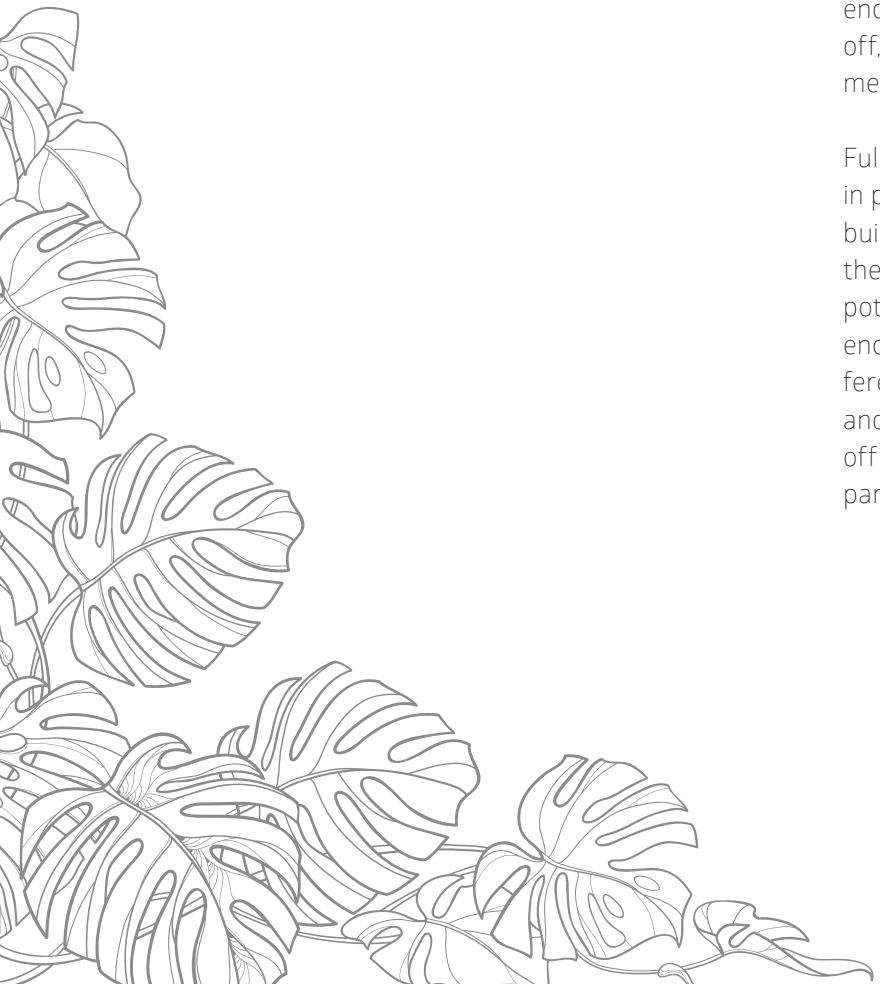
Feel good
with

B.E.G. occupancy detectors

Switch on the light, switch off the light - going to the light switch is no longer necessary today.

Occupancy detectors are able to recognise even the smallest movements, such as typing on the keyboard or moving the computer mouse. Unlike motion detectors, occupancy detectors permanently measure brightness. If the daylight is bright enough, the artificial light is dimmed or switched off, even if the detector continues to detect movement.

Fully automatic lighting control is very convenient in private homes and almost indispensable in large buildings. Where many users utilise a wall switch, the hygiene aspect is crucial. There is also great potential for energy savings, safety and convenience. After all, who switches off the lights in conference rooms and classrooms, lecture theatres and industrial buildings, and who switches them off in hotel corridors, hospitals, multi-storey car parks or high-bay warehouses?



Feel good and safe in

multi-storey car parks, corridors without daylight, industrial buildings and warehouses

Safety and security are basic human needs. B.E.G. has developed predictive lighting using networked systems to ensure the well-being of building users. “Guided Light” ensures that they feel safe at all times, even in large buildings. The building system technology “senses” potential walkways.

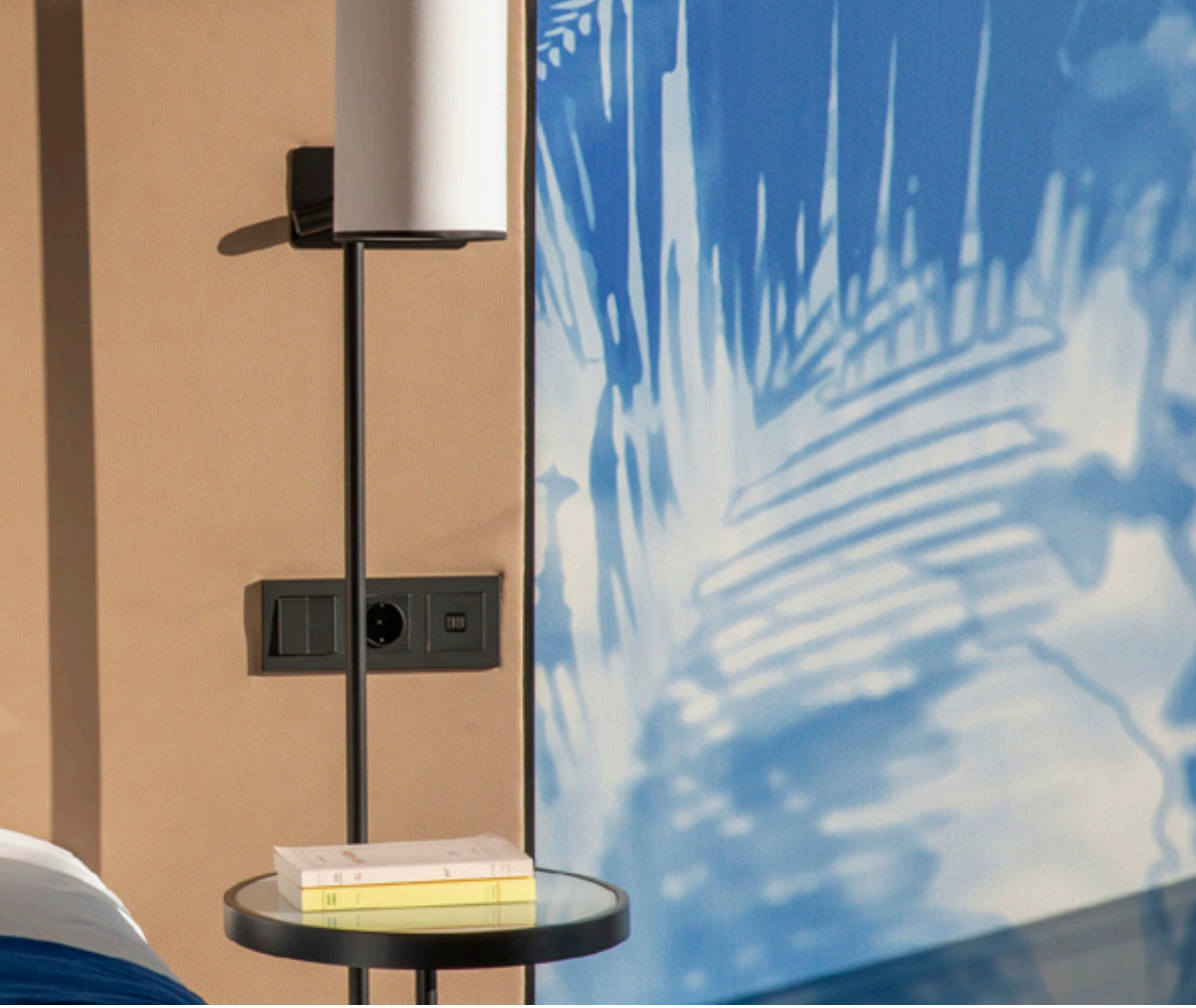
When you step out of the lift, the corridor is brightly lit. When you walk through large storage rooms, you are enveloped in a cloud of light. Not only are potential walkways fully illuminated, but your surroundings are also dimly lit to make you feel comfortable.

Feel good in

a natural environment

Nature as the measure of all things – Human Centric Lighting

Sleep problems, chronic fatigue, winter blues - these symptoms can be caused and influenced by artificial light. Today, we modern Europeans spend a large part of our time indoors. A biological 24-hour rhythm with the alternation of daylight and darkness has a major influence on the functions of our body.



Light acts as a timer for all living beings. We slowly wake up with the first rays of light. In the early morning, the colour spectrum of daylight is still determined by the long-wave, warm colours.

Towards midday, the sun shines bright and cold white. On a clear midsummer's day, the sunlight can reach up to 100,000 lux.

We reach a peak in performance at such levels. As the day progresses, the light fades so that as dusk falls, the human body produces the sleep hormone melatonin, which allows us to fall asleep.

As we now spend an average of 90 % of our day indoors, our internal clock is out of sync. This is because conventional artificial light has a constant intensity or brightness and fixed colour components. Natural daylight, however, varies both in terms of intensity and colour composition. Human Centric Lighting (HCL) - regulates light colour and illuminance according to daylight - therefore creates a better quality of life.

By integrating Human Centric Lighting, you are adding nature and well-being into the building. HCL not only inspires in wellness hotels, retirement homes and hospitals, where the biodynamic light supports a positive state of mind during the day and the quality of sleep at night.

In schools, administrative buildings and industrial premises, too, lighting technology promotes concentration and balance among building users. B.E.G. is the first manufacturer on the market to develop a presence detector with a "Tunable White function" that focuses on the natural needs of building users - the Wellbeing Detector®. Its integrated real-time clock automatically regulates the colour temperature and the brightness setpoint with the aim of supporting the human biorhythm B.E.G has been developing and manufacturing quality products that create comfort, energy savings and safety for decades. With the PD4-M-HCL presence detector, B.E.G. creates natural lighting scenes indoors and focusses on the health, well-being and performance of building users.

Feel good through

good air quality

Breathe easy thanks to VOC sensors

Our modern buildings are equipped to meet the demands of climate change. Air tight building envelopes prevent the permeability of air. Fresh air is important for our well-being and our immune system. A regular supply of fresh air has an effect on concentration and productivity. Air quality is measurable. With the OCCULOG® VOC sensors, B.E.G. is introducing a product family that monitors air quality. They are used in classrooms, open-plan offices, meeting rooms, etc. They measure the amount of volatile organic compounds (VOCs) in the air. The presence of vapours, e.g. from people, perfumes, cleaning agents or furniture, are detected. Depending on the version, the B.E.G. sensor warns when a critical value is reached by changing colour or an additional acoustic signal or controls the automatic ventilation of the rooms.

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