

# LUX ■ NEWS

The in-house magazine of B.E.G. Brück Electronic GmbH

*Design with Glow*  
**Aleum 08**

*Building automation*  
with **LUXONET® 06**

**Quality that lasts forever.**





The lighting control professionals



# ALEUM GLOW

HIGHLIGHT YOUR HOME THROUGH MOTION



The new motion detectors with glow

- Timeless, clear design, high quality technology
- „Glow“, accent lighting with 8 selectable colours
- 8 m detection area
- Crawl protection
- Electronically adjustable
- 4 Sensors
- Available in 3 colour variants



[beg-luxomat.com/en-in](http://beg-luxomat.com/en-in)



Dear business partners,

the last three years have been really tough. World events have demanded a lot from you – investors, building operators, electrical planners, system integrators, electrical installers, wholesalers, luminaire manufacturers and from us as manufacturers of electronic devices and service providers for building automation. However, this time has also opened up so many new, exciting and enjoyable development opportunities for us.

The exploding technological progress of artificial intelligence is rapidly conquering our everyday lives, at home and at work. Markets and business models are changing at breakneck speed. Social coexistence and tasks in the world of work are being redefined. Quickly translating these developments into a better, more beautiful world requires experience, courage and determination.

B.E.G. Brück Electronic GmbH will soon be celebrating its 50th anniversary and is ideally positioned for the changing times. About ten years ago, I got to know and appreciate the owner and managing director Dipl. Ing. Friedrich Brück as a committed, always curious, polite and humorous man. The world is very different today. But Mr Friedrich Brück is not. Together with his son Mr Dietmar Brück and his daughter Mrs Marion Brück, he is investing in the future of sustainable building automation with indomitable determination. Courageous, clever and passionate. Even while fires are being extinguished around the world.

Please enjoy this new issue of LuxoNews and discover the future of building automation with many new solutions and products.

Yours sincerely

**Dieter Walz**

Senior Product Manager

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## COVERSTORY Also fabulously good in 2024

We are dedicating an advertising campaign to B.E.G. classics that have been used millions of times. Because tried and tested and eternally young, they ensure good things in the buildings of this world.

The Greenhouse Collection coworking space in the heart of Antwerp is hard to beat in terms of comfort. Its furnishings are luxurious. No wonder that the B.E.G. sensors, which control the building's lighting fully automatically, are a must in this comfortable environment. We were enchanted: here you sit in world-famous design classics with a view of modern art objects.

Between golden staircases, parquet flooring, gleaming marble floors and fine fabric wallpaper, you feel like royalty in a dazzling world of your own - like in a fairytale land. This gave rise to the idea of a comfort campaign with our product classics as fairytale protagonists. Many thanks also to the advertising photographer Eckhard Reuter and the B.E.G. "models", who worked their magic with great pleasure.

## Digital and convenient – modern working with B.E.G. Rediscover building automation with LUXONET®

*Climate change and digitalisation are driving the entire construction industry. Electrical installers and system integrators are being asked to do a lot, with increasing technological possibilities and a shortage of skilled labour exacerbating the situation. B.E.G. Brück Electronic GmbH is now reducing the workload planning security, efficiency with the new LUXONET® building automation system.*

B.E.G. has been internationally recognised as a sensor specialist for almost five decades. While the first motion detectors were innovative in automatically switching safe outdoor lighting, current sensors can form the basis of energy-efficient building automation.

The intelligent networking of technologies permanently reduces costs and emissions in building operation. It helps to integrate the positive influences of lighting (human-centred lighting), fresh air and pleasant temperatures in the building. Energy efficiency combined with comfort is setting the international course for smart and green buildings.

Their automation can also be modern and convenient. In order to inspire investors, building operators, system integrators, specialist planners and electrical installers, B.E.G. is expanding its range to include its own fieldbus controller with a cloud-based project planning environment, unique housing concept and customised service.

LUXONET® enables effective, location-independent working as well as simplicity and time savings on the construction site. The new B.E.G. building automation system therefore makes work much easier and gives you a competitive edge.



93550\*



## COMFORTABLE INNOVATIVE FEEL GOOD

The housing concept of the FB Controller (art. no. 93550) and the FB Gateway DUO DALI-2 (art. no. 93551) simplifies connection in sub-distribution boards or switch cabinets. Damage to cables and devices is avoided. Transparent side covers, a QR code and fully automatic addressing of devices make it easy to check the installation on site. Travelling to and staying at the construction site can be avoided. Cloud access is all you need. The LUXONET® portal then allows planning, programming and parameterisation in floor plan view.

B.E.G. BMS DALI-2 sensors and push-buttons as well as all DALI-2 luminaires from all manufacturers can be integrated. Customised programming by B.E.G. offers maximum planning security, while simple scalability ensures flexibility for future requirements. A high level of operational reliability is ensured by decentralised control at local IP level and MQTTS communication. Make your building automation easy and future-proof with B.E.G. LUXONET®. ■



93551\*



\*Available from autumn 2024



*Optimum lighting conditions for working, atmospheric lighting scenes, presence-dependent blind and lighting control, attractive design - the new PD5N-Lamella brings convenience to companies. Integrated into louvred ceilings or luminaires, the rectangular, flat sensor is barely noticeable. Visually, office workplaces are becoming increasingly similar to cosy living spaces at home.*



## Lamella – Design favourite for louvred ceilings and recessed luminaires

### B.E.G. launches PIR sensor PD5N-Lamella-BMS DALI-2

With the PD5N-Lamella, B.E.G. is launching another DALI-2 certified device onto the market. The input device combines the advantages of PIR sensor technology with good design. For the first time, the B.E.G. PD5N-Lamella has a rectangular, flat lens. It was developed for SAPP® ceiling slatted ceilings. Installation is child's play, as the device is prewired and can be plugged in and clicked into place directly. In addition to the white PD5N-Lamella (art. no. 93354), a sensor with a black housing (art. no. 93358) is also available for dark louvred ceilings. The DALI-2 certificate ensures a high level of interoperability. For example, the PD5N-Lamella is also suitable for installation in DALI-2 luminaires and in a strip luminaire.

The B.E.G. PD5N-Lamella is the first device of BMS generation 2, which is characterised by exemplary low power consumption of the devices. This has a positive effect on the load of the DALI BUS. The Generation 2 firmware has also been given a facelift, with five new instances for convenient room operation via B.E.G. Mini IR remote control. Other features include setting options for the resolution of the light sensor from 12 bit to 10 bit. This achieves better light control results in unfavourable room conditions. The setting is made via the generically accessible memory bank.

From now on, the reflection factor can also be set to values between 0.1 and 1.0. This simplifies the use of higher level visualisations, as the lux value transmitted by the sensor no longer needs to be converted. The B.E.G. PD5N-Lamella is a sensor whose flat, angular shape is perfect for design objects and cosy rooms. It is also convenient for installers: simple installation, commissioning and high adaptability promise efficiency and enjoyment in use. ■



## **World first: KNX convenience now without BUS cable! – B.E.G. launches the first high quality KNX-RF sensor with extensive functionality.**

B.E.G. is now launching a product that KNX enthusiasts have long been waiting for: The first high-quality sensor that is operated via radio (radio frequency - RF). The PD2N-RF-KNXs-DX-FC can be used to precisely control lighting, heating, ventilation, air conditioning and extensive comfort settings. RF Standard and additional secure via KNX Secure. The occupancy detector also takes renovation and modernisation projects by storm, without the need for a BUS cable, but via the KNX.



KNX is the international standard for building automation. The BUS system enables the integration of products from different manufacturers, is extremely stable and secure, and brings security and flexibility to every building. Above all, KNX is the ideal system for bringing modern convenience and a better energy balance to commercial buildings, schools and private homes. Despite its numerous advantages, the KNX BUS system was previously not an option for many properties.

This is because installing sensors in existing buildings used to mean chiselling or drilling open walls and ceilings, laying KNX bus cables and plastering walls and ceilings. This is timeconsuming, cost intensive installation and restoration work. B.E.G. now provides a remedy with the PD2N-RF-KNXs-DX-FC: the first KNX sensor with radio transmission and relay included.

With the PD2N-RF-KNXs-DX-FC, KNX sensor technology is finally making its way effortlessly into renovation and modernisation projects: Existing conventional occupancy detectors can easily be replaced by a detector with KNX communication or a detector can be installed where there is no KNX bus. There is no need for KNX bus lines to the occupancy detector; the usual "3 wires" are sufficient for the power supply and lighting control. The fast and reliable KNX transmission of the recorded signals is via the 868.3 MHz medium frequency with good penetration of materials and building materials. And if an additional relay channel is required, e.g. to activate an existing HVAC system via the presence of people, the new integrated relay channel can be used. The new KNX-RF flush mounted switching actuator SA1-230/16/H/RF-KNXs can be used to trigger additional switching actions by radio. KNX-RF is a bidirectional radio system in which the devices within an RF line communicate with each other independently. With a B.E.G. TP/RF media coupler LK-RF/KNXs, the radio version (KNX-RF; Radio Frequency) is connected to the classic version via KNX BUS lines (KNX TP; Twisted Pair).

Commissioning of the new RF devices is carried out with the ETS, as with the TP devices. The new RF version includes all the functionalities of the PD2N-KNXs-DX-FC, a deluxe version (DX) of the latest KNX generation and a successful model from B.E.G. Brück Electronic GmbH.

The high quality occupancy detector has a detection range of 10 metres in diameter. With two light sensors, it delivers excellent results even in difficult lighting situations. The sensitivity of the sensors can be individually adjusted. Not only the body's own infrared radiation of a moving person and existing light conditions are permanently detected. Temperature and acoustic sensors are also integrated so that the devices also react to room temperatures and noises.

The extensive technology guarantees a wide range of possible applications. Like all new B.E.G. KNX-Deluxe devices, the PD2N-RF-KNXs-DX-FC also has integrated HCL control, which supports the well being of building users and enables a choice of three standard light curves for school, industrial or office applications.

KNX Secure offers security against unwanted manipulation. Many other highlights can be found online on the product page of the new B.E.G. KNX occupancy detector or requested from your electrical wholesaler. The standard ceiling mounted version of the PD2N-RF-KNXs-DX-FC can be customised with accessories for flush-mounted, surface-mounted and wall-mounted installation. With additional accessories, the PD2N-RF-KNXs-DX-FC can be used in four colour variants: Pure white, traffic white, anthracite and black.

One thing is certain: the market launch of the first KNX-RF sensor opens up new possibilities. Nothing now stands in the way of integrating KNX into redundant existing buildings. The B.E.G. PD2N-RF-KNXs-DX-FC underpins the future viability of the successful KNX bus system, boosts the business of planners, KNX integrators and installers and raises comfort and energy efficiency to a new level.

Celebrate this world first with us! ■



**B.E.G.**

Fabulously  
good sensors

# Lord of the light



**PD4N**

Even in difficult lighting situations, it remains confident and is highly efficient. In addition to an internal light sensor, our PD4N sensor has another in the outer ring. Mixed light measurement ensures excellent lighting.

**Because with B.E.G., every building user enjoys royal comfort.**





## Aleum

### The new B.E.G. motion detectors in purist design with glow

Lovers of minimalist architecture want stylish designer devices for building facades. B.E.G. fulfils this wish with the new Aleum outdoor motion detector. Their design language is timelessly clear; like two cubes standing on top of each other. At the same time, the high quality B.E.G. technology allows the owner individualisation options.

For almost five decades, B.E.G. sensors have stood for convenience, security and energy savings. Anyone who decides in favour of a B.E.G. outdoor motion detector receives a piece of sophisticated engineering. The motion detectors have numerous setting options and can therefore be customised precisely to the location and customer requirements. The proven B.E.G. quality is now available in a simple and elegant form.

The new Aleum motion detectors from B.E.G. Brück Electronic GmbH are purist, straightforward and clear. The rectangular lens shape of the motion detectors is new. With four integrated PIR sensors, a 180° detection range, creep protection and an adjustable range of up to 8 metres, the Aleum models offer convenient, automatic lighting and security in outdoor areas of buildings.

The designer devices are available in three versions. The housing colours are based on RAL 9010 (pure white) and RAL 7016 (anthracite grey). There is a choice of a white Aleum with a light lens (Aleum Glow WB, article no. 93132), a high contrast Aleum with an anthracite grey housing and light lens (Aleum Glow AB, article no. 93133) and a dark model with an anthracite grey housing and dark lens (Aleum Glow AD, article no. 93134).

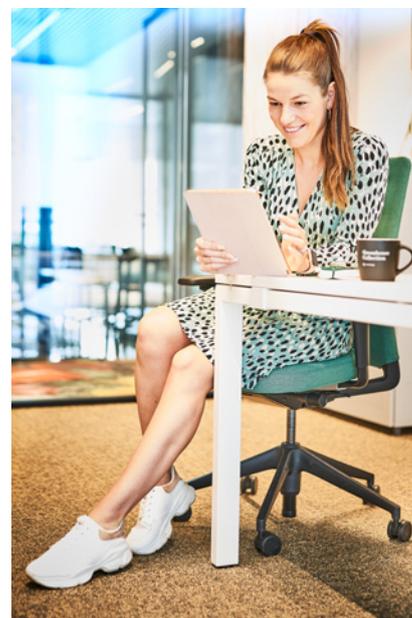
The Aleum motion detectors are iconic, and not just because of their purist design. Light accent lighting can be set to effectively emphasise the motion detector on the facade if desired. In addition to a neutral white light strip, there is a choice of seven spectral colours for illumination. With Aleum, electronic adjustment is not just reserved for the electrical engineer. The homeowner also has adjustment options. In addition to the colour selection, the outdoor motion detector can be set to a party mode, for example, to prevent presence dependent switching on and off during celebrations. ■

## May we introduce? Our new brochure is here!

What do you think of when you read "Well-being in buildings"? Of relaxing at home on the sofa, of a good book and evenings by candlelight? 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.

We at B.E.G. set ourselves the task of saving energy, comfort and safety in buildings at an early stage. Many of our products have already become an integral part of everyday life.

They work fully automatically and almost invisibly. In our new brochure discover which innovations we at B.E.G. use to ensure your well-being in buildings.



## B.E.G. opens location in Brazil

It's finally official: B.E.G. is opening its first location in South America. In São Paulo, our new colleague Luciano Haas Rosito is now responsible for the distribution of B.E.G. products and solutions. He supports and advises project partners in generating energy savings, safety and comfort in their latest construction projects.

The offices of B.E.G. Brazil are located in the CO-Working space AHK in the heart of São Paulo.

Dear Luciano, we would like to welcome you to the B.E.G. team and wish you every success, numerous exciting projects and all the best for the time ahead. We look forward to working with you.







# OKTOBERFEST

O' ZAPFT IS!



## B.E.G. celebrates Oktoberfest together for the first time

In autumn, we celebrated Oktoberfest with all international B.E.G. branches for the first time in B.E.G.'s history. In addition to the Country Managers, all foreign colleagues were also present and celebrated together in the premises of 2T Events in Lindlar. After an opening speech by CEO and founder Friedrich Brück and further words of wel-

come from Philippe Batlle (Branch Manager B.E.G. France), Kai-Oliver Dimpfel (Sales Manager Germany), Hedi Hidouri (Director Sales International) and Stephan Winkelmann (Head of Marketing Germany), Dietmar Brück (Managing Director 2T Events) tapped the keg, exchanged ideas and danced the night away.



**B.E.G.**

Fabulously  
good sensors

Small  
and so  
helpful

**PICO**

At just 4 g and 33 mm in diameter, it is one of the world's smallest and lightest occupancy detectors. As a dwarf, the PICO fits in anywhere, ekes out an inconspicuous existence in ceilings and hides between lights. At the same time, it achieves a range detection of 10 metres. A small device that achieves great things.

**Because convenience is always a top priority at B.E.G.**





## 10 years in Spain

*B.E.G. Hispania S.L.U. celebrates 10 years of success with a gala in Barcelona.*

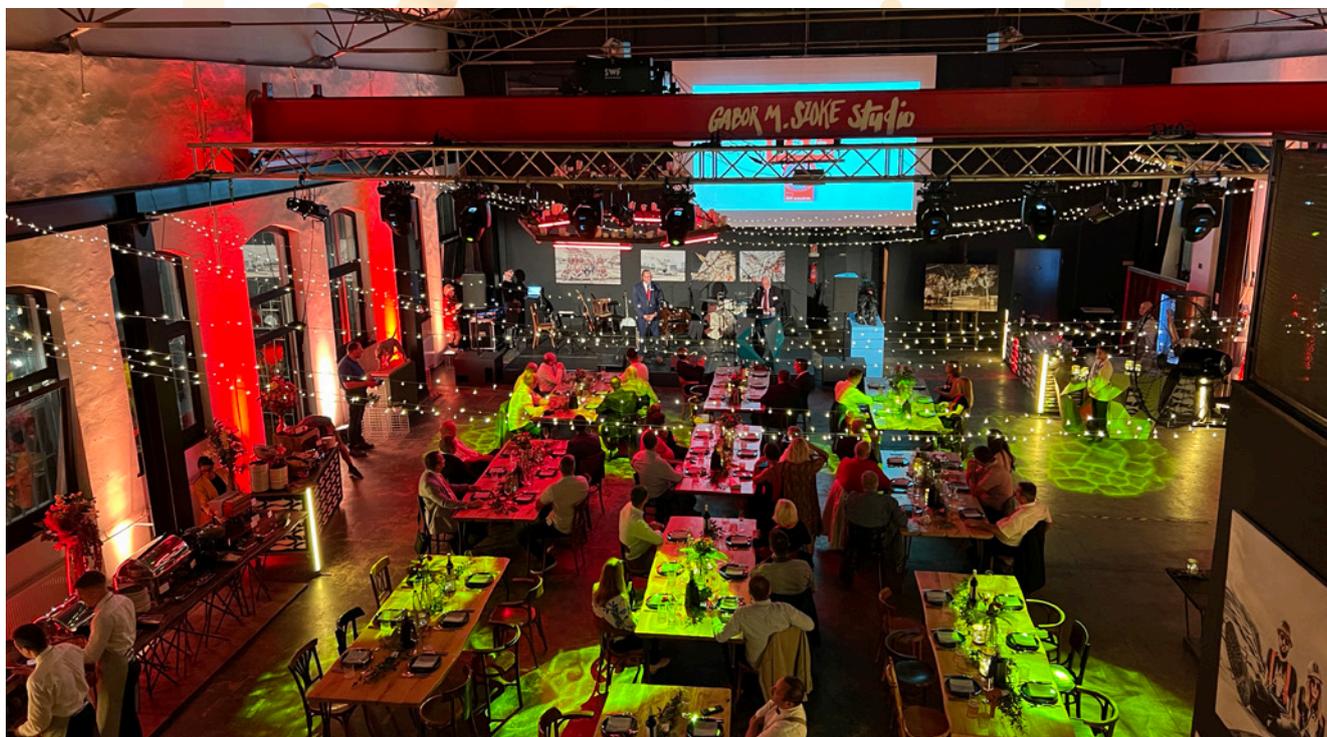
Numerous business partners from the industry, interesting technical discussions and a festive atmosphere – this was the start of the evening of the anniversary celebration, to which Country Manager Luis Claver and his team welcomed the invited guests.

CEO and founder, Friedrich Brück, was not to be missed. During the gala, the speakers took a look back at the last few years of B.E.G. Hispania. "Since the beginning of our business, we have pursued the mission of offering professional lighting control solutions that make buildings more energy efficient," said Luis Claver.

The current market situation, the climate crisis and the need to save energy have led to a sharp increase in demand for energy-efficient solutions.

In general, there is a growing interest in making buildings more sustainable. This is also reflected in B.E.G. Hispania's turnover, with impressive growth of 80% compared to the first quarter of 2021. Numerous projects have been won in the 10 years of the company's existence. Good examples of this are the IE headquarters in Torre Caleido, the Vueling headquarters and Wallbox in Spain.

**We wish the successful team at B.E.G. Hispania S.L.U. continued success and numerous exciting projects!**



## 10 years in Hungary

*The 10th anniversary of B.E.G. Hungary Kft. was cause for celebration in Hungary. Ferenc Nagy, the Country Manager, and his team welcomed around 50 participants to a very special kind of event - a sculpture workshop followed by a celebration near Budapest. Among the invited guests was the CEO of the company, Friedrich Brück.*

The anniversary was officially opened by Ferenc Nagy. In his speech, he not only presented B.E.G. and its diverse product portfolio, but also gave an insight into successful projects – both international and domestic. In his speech, Friedrich Brück also looked back with pride on the past 10 years and is eagerly anticipating how B.E.G. Hungary will develop in the coming years.

The impressive Hungarian reference projects were particularly popular with the local business partners.

In his presentation, Ferenc Nagy revealed that the Agora Tower in Budapest was equipped by B.E.G. with KNX and DALI-LINK. The MOL Tower, which houses a campus, was also equipped with BMS DALI-2 from B.E.G.. Another particularly large project is the Bosch Campus in Budapest, which was equipped by B.E.G. with around 3,500 KNX devices. Since its foundation in Hungary, B.E.G. Hungary Kft. has carried out hundreds of lighting control projects in leading companies in the industrial, residential and service sectors.

**We wish the Hungarian team continued success,  
all the best and many exciting projects!**



The Country managers and those responsible at B.E.G. headquarters meet regularly to exchange ideas. In our international business, it is essential to be aware of trends, ideas, different legal regulations and country-specific preferences. This not only promotes the development of new products and services, but helps promote learning from each other. The B.E.G. team spirit and celebrating together are also never neglected. We are already looking forward to the next meetings.



## ISM- International Sales Meeting

f.l.t.r.:

- Luis Claver – B.E.G. Spain
- Hedi Hidouri – Sales International
- Erik Boswinkel – B.E.G. Netherland
- Ferenc Nagy – B.E.G. Hungary
- Michal Kučera – B.E.G. Czech- & Slovak Republic
- Ludovic Becourt – B.E.G. France
- Jacek Wiernicki – B.E.G. Poland
- Philippe Batlle – B.E.G. France
- Paul van Hinsberg – B.E.G. Belgium
- Kai-Oliver Dimpfel – Sales Manager Germany
- Marion Brück – Managing Director
- Luciano Haas Rosito – B.E.G. Brazil
- Lars Vinther – B.E.G. Denmark
- Paul Jones – B.E.G. United Kingdom & Ireland
- Xuhui Yan – B.E.G. China
- Marcel Kellermann – Head of Technical Sales Building Automation
- Stefano Pettorali – B.E.G. Italy
- Lijo Jacob – B.E.G. Arab Emirates
- Pedro Silva – B.E.G. Portugal
- Stephan Winkelmann – Marketing International

## 6 questions for **Philippe Batlle**

*Please tell us about your professional career before you became CEO of B.E.G. France*

- 1 You have been working for B.E.G. for a long time, since January 1999. How did this come about?**

I started my career in 1980 in the heat pump and thermodynamic air conditioning sectors. I worked as a technical salesman at CIAT (the company for industrial, technical applications). I then worked in the same areas for well known companies such as Technibel, Panasonic and Samsung as a sales manager. After 19 years, I started looking for a product manufacturer without seasonal dependencies, negative environmental influences and lengthy import conditions. On 27 November 1998, my 39th birthday, I met Friedrich and Dietmar Brück for the first time. We were at Kienbaum, a recruitment agency, where they were having a snack. They offered to steer my career into a new field – electrical engineering.

- 2 What were the biggest challenges you faced when founding the French subsidiary of B.E.G.? How did you overcome them?**

The first subsidiary of B.E.G. Brück Electronic GmbH, B.E.G. France, was officially founded on 4 January 1999. It took over the tasks of the exclusive French importer Flash, which had just been acquired by Hager. The "LUXOMAT by Flash", as it was called, had already been known for 15 years, but its manufacturer B.E.G. had not. I went to Lindlar for three months to complete a technical apprenticeship with Thomas Nöthen. I learnt the administrative part from Mr Brück.

- 3 What motivated you to manage B.E.G. France and contribute to the company's growth?**

Thanks to Mr Brück's first remote-controlled motion detector RC-130/230/270, Rexel finally opened its doors to us in May. We were accepted into the partner network. That was an important step. In France, professional electrical distribution is characterised by the fact that it is dominated by two groups: Rexel and Sonepar. They account for 80% of the business. Since Rexel gave the green light, we have gradually recruited our first 13 sales staff. We opened Sonepar South-East in July and launched our first advertising campaigns in September – the B.E.G. subsidiary had got off to a successful start. As we were increasingly out and about in the market in 2001, we then hired an assistant to the management, Mrs Francine Berthou, who was to accompany us until her retirement.

The external appointments enabled me to report on enquiries from the field in Lindlar. New products emerged from customer requirements. An order from EI, a French industrial company, resulted in the PD4, which was originally intended to cover larger detection areas in underground car parks.

A request from Bouygues, a construction company based in Paris, which required the lamp return to be connected to the detector, resulted in the PD3 with a double neutral conductor. All these solutions were a success right from the start because we were innovative and exceeded expectations. Today, we have 16 employees in France, including six sales representatives who are responsible for the local region. In 2023, we will achieve a turnover of more than €34 million.

- 4 Can you tell us about any particularly memorable moments or significant successes in your 25 years as CEO of B.E.G.?**

Without false modesty, I am not a visionary like Mr Brück, who, for example, launched one of the very first ceiling occupancy detectors, the LUXOMAT PD2, onto the market in the early 2000s. My strengths lie in analysing the market. Because if I know how to convince a customer, I can hit the bull's eye with my sales arguments. So instead of generating sales with product advertising in the dealers' sales outlets, I visited the local design offices and consulting engineers with or without my sales representatives. I presented them with what was revolutionary at the time: the occupancy detector with master/slave function.

- 5 How would you describe the corporate culture and values that characterise B.E.G. and how have these aspects contributed to its success in France?**

If you ask me for advice on how to succeed, I would recommend the following:

*"Be lucky or challenge it!"*

*"Believe in dreams and never give up on them!"*

*"Create a healthy environment for yourself personally and professionally!"*

*"Say what you do and do what you say!"*

*"Be curious about everything – something will always come of it!"*



*"I shook hands with Mr Brück and promised him that I wouldn't leave until he did. Before I gave him my word, I should have enquired how many centenarians there are in the Brück family".*

*– Philippe Batlle, B.E.G. France*

For my part, I always think that I am committed to the well being of building users – whether in air conditioning or lighting control. I have made Panasonic's slogan at the time, "Benefit for Humans", my own. Every day, we contribute to a more sustainable and energy efficient world with our solutions.

**6** Would you like to share any anecdotes or special memories of your time as CEO of B.E.G. France?

You know that my memory is selective and I will only tell you one little anecdote, otherwise we would need days (remember, I have known Mr Brück for 25 years!!).

So, Mr Brück likes the French expression for just in time "pile poil", because timing and speed are the decisive factors in competition. Finally, I would like to point out that B.E.G. France is in a decisive phase.

There is a shift in the interests of our partners towards innovative, relevant network solutions. Even though we have clearly recognised their advantages, we still have a long way to go to convince everyone involved in the construction process, from investors to installers.

Everything is being done to successfully shape this change. Then I guess I can finally step down as an old rascal and make way for the younger generation. ■



## Full speed ahead for OCA Global – B.E.G. DALI-SYS takes over control of the modern flagship

*The OCA Global group of companies offers customers a wide range of services and provides support in increasing efficiency. With over 4,000 employees and 240,000 customers, the group is a global player. The company's size is reflected in its new head-quarters in Sant Cugat del Vallès near Barcelona.*

The new headquarters of OCA Global extends over a generous 4,800 square metres. With its management function and geometric shape, it is reminiscent of a modern flagship, with the entire crew travelling in one direction. The international service provider is transparent and open. "From the bridge to below deck", large windows characterise the appearance both inside and out. Visitors to the building have a clear view of the large atrium from the entrance area. Glass rooms are also used for visual collaboration. Light plays a prominent role in this transparent building. B.E.G. Spain was commissioned with the lighting and shading of the building. B.E.G. DALI-SYS is an intelligent solution for comprehensive lighting control.

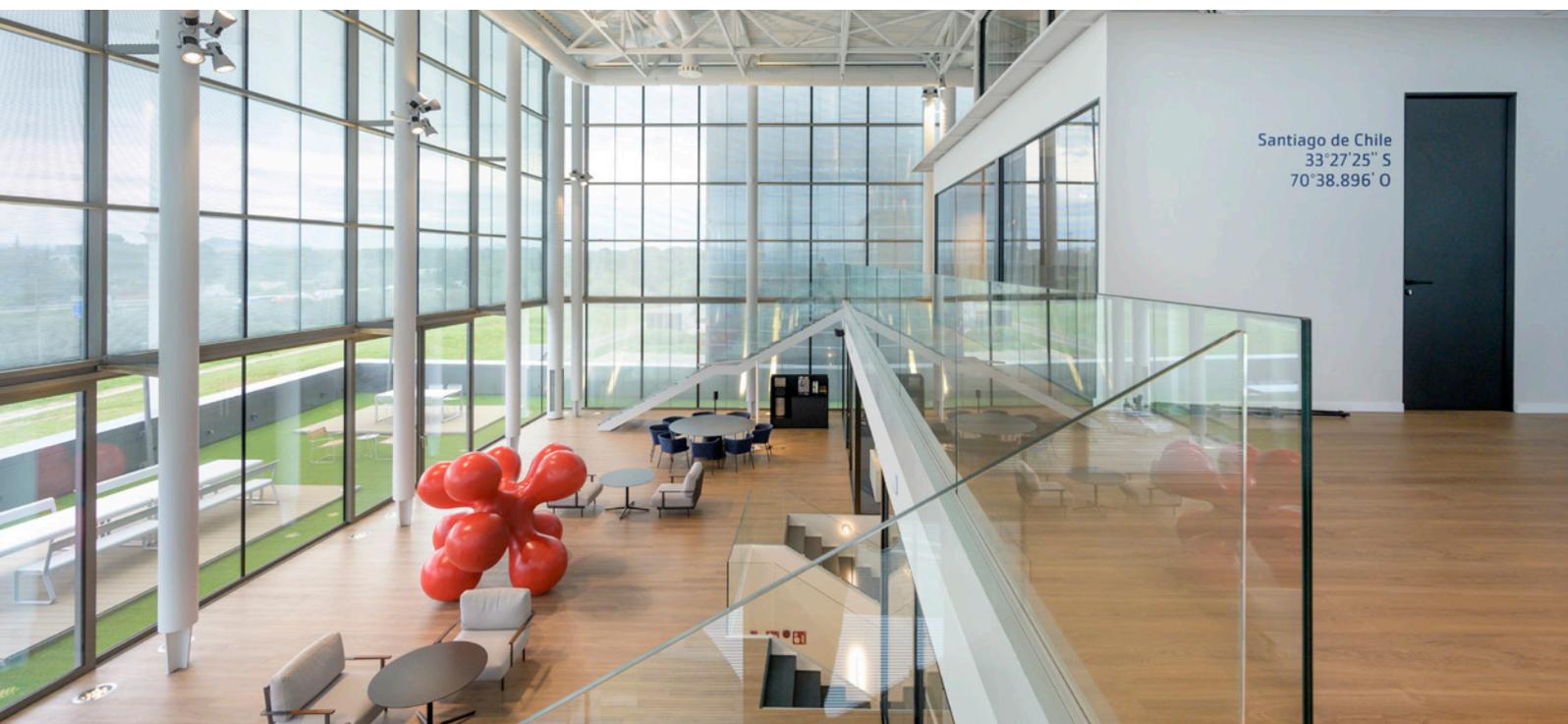
# REFERENCES

However, the system can do much more. In the OCA Global Group building, DALI-SYS combines lighting management, emergency lighting management and blind control on a single platform. This gives the modern building flexibility, safety, comfort and energy efficiency.

The B.E.G. sensors used detect movements, existing ambient light and react depending on the time of day. In this way, it is possible to programme and plan lighting scenes for each area and/or combination of areas, facilitating group control. Illuminance levels, blind positions and much more can be changed quickly.

The orientation light function helps to dim the lighting after the defined switch off time has elapsed. This orientation light can be limited to a specific time or be permanently active if no movement is detected and the set light value is not exceeded. Thanks to this installation, the building has a decentralised control system with distributed intelligence, which ensures a high level of operational reliability. As the detectors are addressable, the multisensors can be set up as master and slave.

The sensors do not have a power supply unit and are supplied with power via the DALI bus. The "Guided Light" function was implemented at OCA Global to synchronise the motion detection of several groups, especially in stairwells where no occupancy detectors are installed. This increases the energy efficiency of the building and at the same time employees benefit from the high level of comfort provided by the building automation system. ■



# B.E.G. automates the hotel buildings of Club Med Magna Marbella & Golden Bahía de Tossa & Spa

Switching off in Spain's holiday oases

*Spain is one of the most popular holiday destinations. Last year alone, 72 million tourists visited the sunny country. After the crisis was overcome, the tourism industry contributed 61% to the enormous growth in GDP. However, the sector is considered a "monster" in terms of energy consumption worldwide. This means that 8% of global CO2 emissions are attributable to transport, accommodation, catering and leisure activities during holidays.*



# REFERENCES

With plans to decarbonise the entire European Union, the challenges in Spain's tourism centres are also increasing. Greater energy efficiency for cities, holiday resorts and even zero emissions for new construction projects are crucial to success.

Air conditioning, lighting and hot water account for around 78% of the energy consumption of tourist accommodation. On average, a hotel consumes between 100 and 200 kWh of electricity per square metre per year. Sacrificing comfort to save energy is not an option for hotels. It is therefore obvious to rely on technologies that are efficient and at the same time improve the comfort of guests. This is where building automation comes into play.

By networking components such as photovoltaics, heating, air conditioning, ventilation, lighting, emergency and access systems, all building functions are interlinked and form an automated, coordinated unit. Building automation helps to lower energy consumption, reduce operating costs and manage buildings sustainably. Automation is therefore the basis for every green building. The hotel sector alone could reduce its energy costs by up to 40%.

For holiday accommodation providers, investing in climate protection measures is always an investment in their own future. Tourism is more dependent on an intact ecological and social feelgood environment than almost any other industry.

With ClubMed Magna Marbella in Andalusia and Golden Bahía de Tossa & Spa in Catalonia, two 4-star resorts are now focussing on modern building technology. The Spanish B.E.G. team was commissioned with the integration of sensor technology and KNX.

Guests continue to enjoy the already luxurious holiday pleasures at both hotel resorts. The management can count on consumption savings thanks to the proven, stable and secure KNX bus system. Many functions that previously could only be set up by rewiring can now be changed easily and digitally. This opens up new flexibility in room utilisation and a wide range of setting options.

It is to be hoped that such positive examples will set an example for the entire tourism industry: not only in terms of economic efficiency and increased comfort, but also for the environmental balance of our holidays.

The B.E.G. team is happy to advise on energy efficient solutions for lighting control and building automation worldwide and guarantees scalability and interoperability. ■





## The Binario 934 in Locarno

### B.E.G. KNX comfort in a Swiss boutique hotel

*Anyone who equips a building today without automation is wasting valuable potential. KNX technology from B.E.G. Brück Electronic GmbH ensures greater convenience, transparency, and efficient hotel operations in a luxury Swiss boutique hotel.*

Locarno has a recorded 2,300 hours of sunshine a year and is located at the foot of the Alps and Lake Maggiore: the Binario 934, an individual 3-star hotel, is being built in the centre of the exclusive holiday resort. Hotelier Carina is in awe of such a beautiful location, and she is realising a dream by converting this building into a small luxury hotel property, so you can share in with this beauty. The Swiss electrical company Decarli Impianti SA was awarded the contract to install the new Binario 934 with

a modern automated electrical system. Swisslux AG was involved, due to its help with previous projects. Swisslux not only supplies the appropriate devices nationwide, but also advises on selection and placement and provides support right through to programming the ETS operating software. The KNX system components were from B.E.G. Brück Electronic GmbH, a German manufacturer that offers the full spectrum: Innovative multi sensors, system devices and switching actuators, dimming and control actuators,



switches, a B.E.G. ViSTATION for simple visualisation and manual operation options for individual KNX projects, BIM data for planning and a customer-oriented service. The interaction between the experts also guarantees a quick and successful KNX project realisation in the Binario 934.

The use of automation solutions is particularly advantageous in hotels, where comfort and enjoyment are the order of the day and smooth processes, and resource-saving efficiency are required. Heating, air conditioning, ventilation, shading and lighting can all be fully automated.

This not only creates a feel-good environment, but it is also customised to the needs of the room users and guests. Manual control can be carried out digitally via the B.E.G. ViStation. Hoteliers always have an overview of the technology, room utilisation and power consumption.

Energy efficiency, cost effectiveness and sustainability can be increased through intelligent networking. KNX is not only secure but is also expandable to meet any future requirements.

Lighting is a popular element to be controlled in any hotel, for example to create an atmospheric ambience in rooms. By controlling the light intensity and light colour, atmospheres can be changed to suit the occasion. With networked, integrated systems such as DALI or KNX, it is possible to reproduce lighting scenarios created by lighting designers or decorators quickly and repeatedly at the touch of a button. Everyone can experience the feel-good factor in the Binario 934, e.g. in the dining room and wine bar, where the interplay of lighting, historic walls, elegant furnishings, and Ticino Merlot creates the perfect setting for a cosy evening.

The use of B.E.G. PD2N occupancy detectors, DALI/KNX gateway and DALI luminaires enables safe lighting via dimming in the stairwell and corridors. The guests' sense of security is supported by an orientation light that is always present to allow comfortable movement throughout the building. In the Binario 934, this is elegantly achieved using LED strips between the wall and ceiling, which are dimmed to 10% in an energy efficient and gentle manner. If the occupancy detector detects a person in the corridor, the DALI-controlled LED strips dim up to 80%. At the same time, all LED spotlights are switched on, effectively illuminating the room doors. This creates a pleasant, exclusive atmosphere in all corridors that accompanies guests on their way through the building.

In the hotel's very tastefully furnished rooms, guests can expect fine materials and fabrics and only the absolute minimum of technology. There are no traditional card switches for the power supply. When entering the room, an occupancy detector switches on the orientation light, which also consists of an LED strip in both the room and the bathroom. Guests can switch the LED spotlights and lighting groups in the room on and off using conventional push-buttons connected to B.E.G.'s KNX quadruple push-button interfaces.

B.E.G. also offers the full KNX product portfolio for your KNX project. Take advantage of the range of training courses, consulting services and planning support. ■

## SWISSLUX



*Our partner in Switzerland*

# Sustainability pioneer BelOrta relies on lighting control by B.E.G.

*BelOrta's delicious fruit and vegetables grow from the Voer region via Antwerp to Zeeland. The Belgian cooperative has been recognised by the United Nations as a pioneer in the implementation of sustainability goals. BelOrta is now opening a fully automated sorting centre that is unique in the world.*



What can no longer be achieved by individual farmers is now possible within the community. The fruit and vegetable cooperative BelOrta has implemented several sustainable innovations to promote sustainability in agriculture. With a new sorting centre, BelOrta is creating solutions to the shortage of skilled workers and increasing efficiency.

The cooperative uses state of the art automation to bundle the work that was previously carried out at three locations. Fruit is first washed here, then sorted according to quality and size. In the long term, the cooperative aims to process 220 million kg of apples and 100 million kg of pears.

Operating large industrial halls without automation, without a lighting control system, is no longer in keeping with the times. By using sensors and bus systems, the industry can control its energy consumption more efficiently and save energy. This also helps to reduce the ecological footprint and promote sustainability.

The Belgian team from B.E.G. Brück Electronic GmbH was chosen to plan and implement the lighting control system. Occupancy detectors and the integration of the DALI bus system alone can reduce energy consumption for lighting by up to 60%. In addition to reducing energy costs, control via DALI can also extend the service life of LED luminaires. The costs for the installation are quickly amortised. The DALI bus system is reliable, robust and troublefree.

In the BelOrta sorting centre, several devices are combined into groups. Here, the digital nature of DALI allows subsequent changes to be made via software. The cabling can remain untouched. With B.E.G. DALI-LINK, a particularly user friendly solution was chosen.

DALI-LINK is a multiroom solution, i.e. the parameters of one room or area can be easily transferred to other rooms or areas. This saves a lot of time in everyday life. This function is an extra bonus, especially in large sorting centres.

In the automated sorting centre, only areas in which movement is detected are fully illuminated. For greater safety and convenience for the centre's employees, adjacent or visible areas are illuminated by dimmed lighting. The so called "Guided Light" function pleasantly envelops building users in a cloud of light while they are working, while energy is saved in other areas.

The DALI-LINK app enables quick and easy parameterisation. The app is extremely user friendly. Device parameters can be stored in a database. This can be shared and saved via email, a messenger or your own cloud. This is helpful when project information needs to be exchanged within the team and minimises the effort involved in replacing end devices. All data is retained and can be viewed. Responsible employees at BelOrta were trained on the system by the B.E.G. team. In future, settings can be made directly via the DALI-LINK app.

In the high halls, the B.E.G. PD4-DALI-LINK-GH occupancy detector is used, which fits perfectly into this hall environment. The PD4-GH detectors (GH = great heights) were developed to carry out precise brightness measurement from a height of up to 16 metres directly on the hall floor. The measuring height can be adjusted to suit the object. B.E.G. has integrated a telescopic light sensor for this purpose, which can be individually adjusted. The detection range of the PD4-GH is up to 30 metres.

# REFERENCES

The PD4-GH was also used in the windowless cold storage rooms used to store fruit. The PD4-M-1C-GH-SM model was installed with an IP65 surface-mounted box for PD4-SM in order to withstand the low temperatures and condensation. Even under these extreme conditions, the PD4-GH performs well.

Unlike any other occupancy detector, the B.E.G. PD4-GH models offer a wide range of possible applications. They are therefore always the perfect solution for professional lighting control in industrial halls. The PD2N model is used in canteens and administration rooms. With two integrated light sensors, this occupancy detector also guarantees optimum lighting conditions all year round.

Various devices can communicate with each other via DALI. However, there are areas of buildings where DALI control is not required: In small rooms and passageways with regular room heights - in toilets, stairwells and corridors without daylight - the PD3N is a particularly cost effective solution. Light, only where and when it is needed, is simply realised here. This ceiling-mounted motion detector is the simplest and most cost effective solution in these short term areas.

Whatever measures the Belgian fruit and vegetable cooperative takes, BelOrta shows how the sustainability of a company can be promoted through inventiveness and the use of sometimes very simple means.

If you would like to find out more about lighting control, the B.E.G. team will be happy to help. ■



## FAQ

## Benoit Hennenon discusses the challenges associated with reducing energy consumption and improving building comfort and presents the solutions in France.



*"Installing sensors and dimmable luminaires can reduce costs by 10%."*

*– Benoit Hennenon, B.E.G. France*

**1** Do you welcome the update of the BACS regulation, which now applies to buildings with technical installations with a total output of 70 kW?

Given the energy challenges we face, the BACS regulation encourages us to step up our efforts. B.E.G. supports this approach by offering automation and control solutions. B.E.G. offers occupancy and motion detectors for lighting management that are compatible with all BMS technologies. Our products offer comfort and savings in these times of high energy prices. Our sensors control lighting, temperature, air, ventilation and shutters. Lighting accounts for 18% of energy consumption in commercial buildings, and the use of dimmable detectors and luminaires reduces costs by 10%.

**2** How is the market organised to offer technical solutions tailored to the characteristics of each individual building?

We work with other market players such as installers, system integrators, planning offices and energy efficiency experts to offer customised solutions. We are developing a wide range of innovative products, such as occupancy detectors and building management systems, which are designed to adapt to the specific needs of buildings in terms of functionality, energy efficiency and compatibility with existing communication protocols.

**3** Energy savings are now at the centre of the government's Act 2 energy efficiency plan. What is at stake in the buildings sector?

Energy savings are crucial in the buildings sector, which is in line with the government's energy efficiency targets. However, the challenges go beyond energy savings and also include occupant comfort and well-being. In this context, technical solutions play a central role, including lighting management, temperature control, ventilation and air quality.

By optimising these parameters, we can create pleasant indoor spaces, with the right amount of light, a comfortable temperature and optimal air quality. In addition, significant energy savings can be achieved by integrating efficient technical solutions. By using occupancy detectors and building management systems, for example, lighting, heating and ventilation can be controlled automatically depending on the actual occupancy of the occupants. In this way, energy waste is avoided while maintaining an appropriate level of comfort.

**4** Can you tell us about your new products for reducing energy consumption in buildings?

The DALI-SYS modular BMS system is a complete solution for reducing energy consumption in buildings. It is possible to equip individual rooms or control the lighting of an entire building with addressable components and distributed intelligence, which ensures a high level of safety. The system consists of multi sensors, push-button modules, controllers and a visualisation system. The multi-master principle ensures efficient telegram processing and guarantees reliable performance.

DALI-SYS is a modular solution. It includes a simplified power supply via the DALI bus, premium functions that are compatible with BACnet and KNX, and multisensors that are suitable for outdoor applications.

Our multisensor allows the light colour temperature to be adjusted to mimic natural light for a more pleasant environment. ■

Interview by Alexandre Arène

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Only a  
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**PD11**

Our PD11 with its ultraflat design disappears almost invisibly into the ceiling. Like all B.E.G. occupancy detectors, it recognises even the smallest movements and controls the lighting - even without a magic wand or wall switch.

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