![ABB]

ABB Hospitality

First class solutions for hotels

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- Individually customizable room sensors
- Integrated access control solution
- Complete portfolio through the energy value chain

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Bright prospects for all

We bring energy to buildings and the people within them – whether these are modern single residential units, all kinds of hotels or ground-breaking industrial buildings. For us, power is more than just what comes from the wire. Why? Because it forms the basis of a comfortable life. As a result, we are constantly improving every little detail, looking for the most user-friendly solution and bringing people and technology together. That's what our large company is all about – we do everything to give you the freedom of choice.

A vision for the perfect building
What's key is the synergy created in the building as a whole. It starts with the power that's created using renewable sources of energy, which then feeds into the things that this power can do for the people within – from the infrastructure in the buildings right through to the emotional experience of the occupants, from the lowest parking level right through to the most exquisite penthouse suite.

Building automation from ABB governed by our core values
All ABB Solutions are checked against the four core values; Courage, Care, Curiosity and Collaboration, and constantly improved until they meet the very highest requirements in terms of technology to deliver the optimal experience for management and guests.

Economic efficiency
A hotel building is for the people within. This is the only way to measure the value of what's inside.

Safety
The building automation technology can't take a break. With a complete system, the management can count on it as a whole – and on the fact that everything is functioning safely.

Energy efficiency
You need energy for absolutely anything you wish to accomplish. It is crucial to never waste energy and to make the most of it at the same time. That's why at ABB we are dedicated to creating energy efficient solutions.

Durability
The future always comes quicker than you think. With seamless upgrades to technology you can be confident that your investment in an ABB building automation system is secure.

Design
Hotels are more than just buildings. They shape the city and are sometimes a key part of the skyline. The aesthetics count – from the largest detail right down to the smallest.

Sustainability
A safe and sustainable future starts today with technologies which combine all energy-saving capabilities with occupant comfort.

For the entire hotel
ABB provides a complete solution
Exemplary cooperation

The only way to create an environment where people want to stay is to ensure that all technological components complement one another seamlessly and function together. If the costs are kept under control at the same time, then every hotel can become a successful business.

The whole package is greater than the sum of its parts
If all component parts work together, you can create true economic power from invisible current. This gives the management more scope – they can offer additional services such as quick-charging stations for electric vehicles, eliminate a certain level of stress as the primary and undercurrent distribution is free from errors and maintenance, and save costs thanks to a wide range of automation possibilities, such as light, shading and air conditioning. What's more, everything is more efficient as all data can be managed, controlled and scheduled in a networked system. As a result, many people do not notice how well everything works – because it works so easily.

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Complete networking

From the foundation right up to the roof

With all of the technology coming from a single source, clarity and safety are guaranteed. All of the components complement one another in the best possible way and together, they create new possibilities for added performance at a low cost.

Shading control
The privacy measures can be adjusted in very small increments and provide additional personal space as the roller blinds, windows and blinds can be controlled wirelessly.

Light
Hotel guests love impressive light scenes. The management really value the efficiency of the new lighting system with its intelligent presence detector and LED control.

Access management
Access cards and transponders ensure a seamless process and low organisation and maintenance costs. Future-proof for all extensions.

Energy distribution and protection
The pro E energy system is available in different sizes, in modular variants, for plug-in mounting and with the greatest possible degree of flexibility in every detail, providing more variety in terms of energy distribution systems.

Electrical safety
With the highest level of quality in all connectors and modules, technical safety is also reflected in the design of the distributor housing, both on the inside and the outside.

Energy management
Increased energy efficiency through presence-controlled lighting and HVAC.
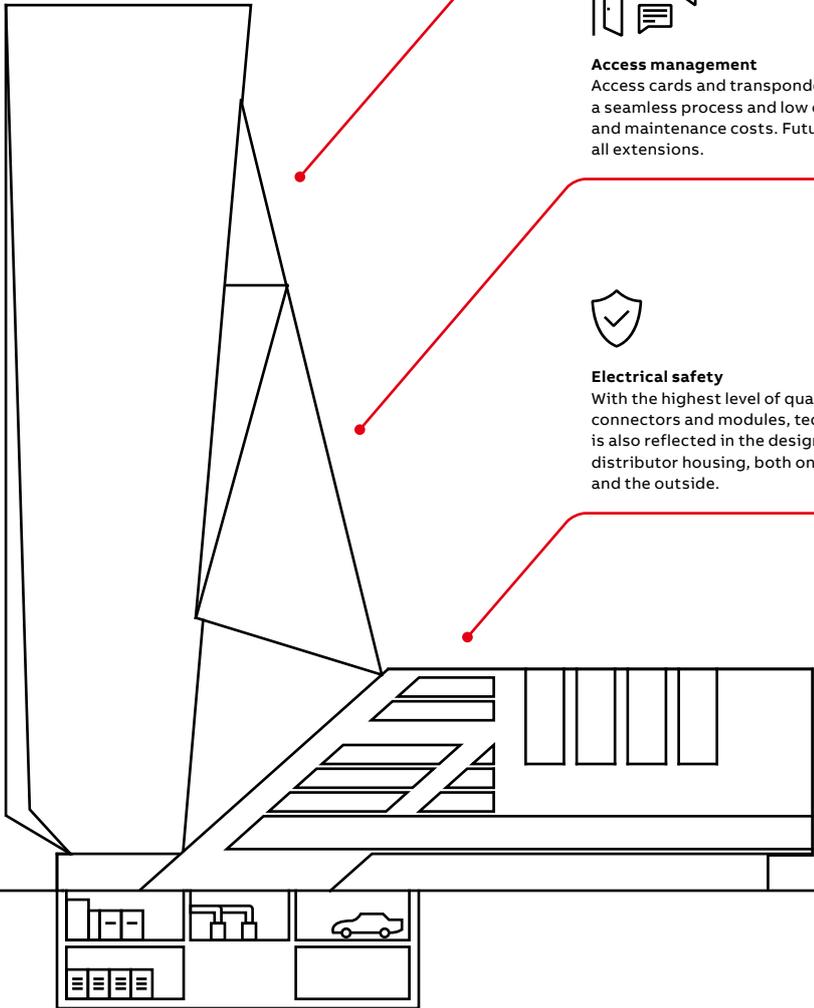
Power low-voltage distribution and power centre
Compact, reliable, modular: the main distribution systems are easy to install and to maintain – and all have an excellent synergy with all of the low-voltage equipment.

Multi-standard quick charging
All current electric vehicle recharge in the quickest possible way. For this, there is a compact charging station with all three key standard connections.

Reliable medium to low-voltage power distribution
Safe and intelligent: the switchgear and transformer solutions are perfectly aligned to the local standards and our customers' individual requirements.

High-efficiency motor-drive system
Ventilators, compressors and pump motors are controlled in an efficient manner. The intelligent frequency inverter forms the basis of the energy savings and the environmentally friendly credentials.

BETTER SPACE

SMART BUILDING

How do you get the perfect hotel?
What the people in the building
sense and achieve is key. Guests are
looking for maximum benefits and
the best possible experience,
whereas the management want
everything to run smoothly and the
investors focus on the income.
There is only one way to go: at ABB,
we are constantly furthering our
technologies for added comfort,
safety and efficiency.
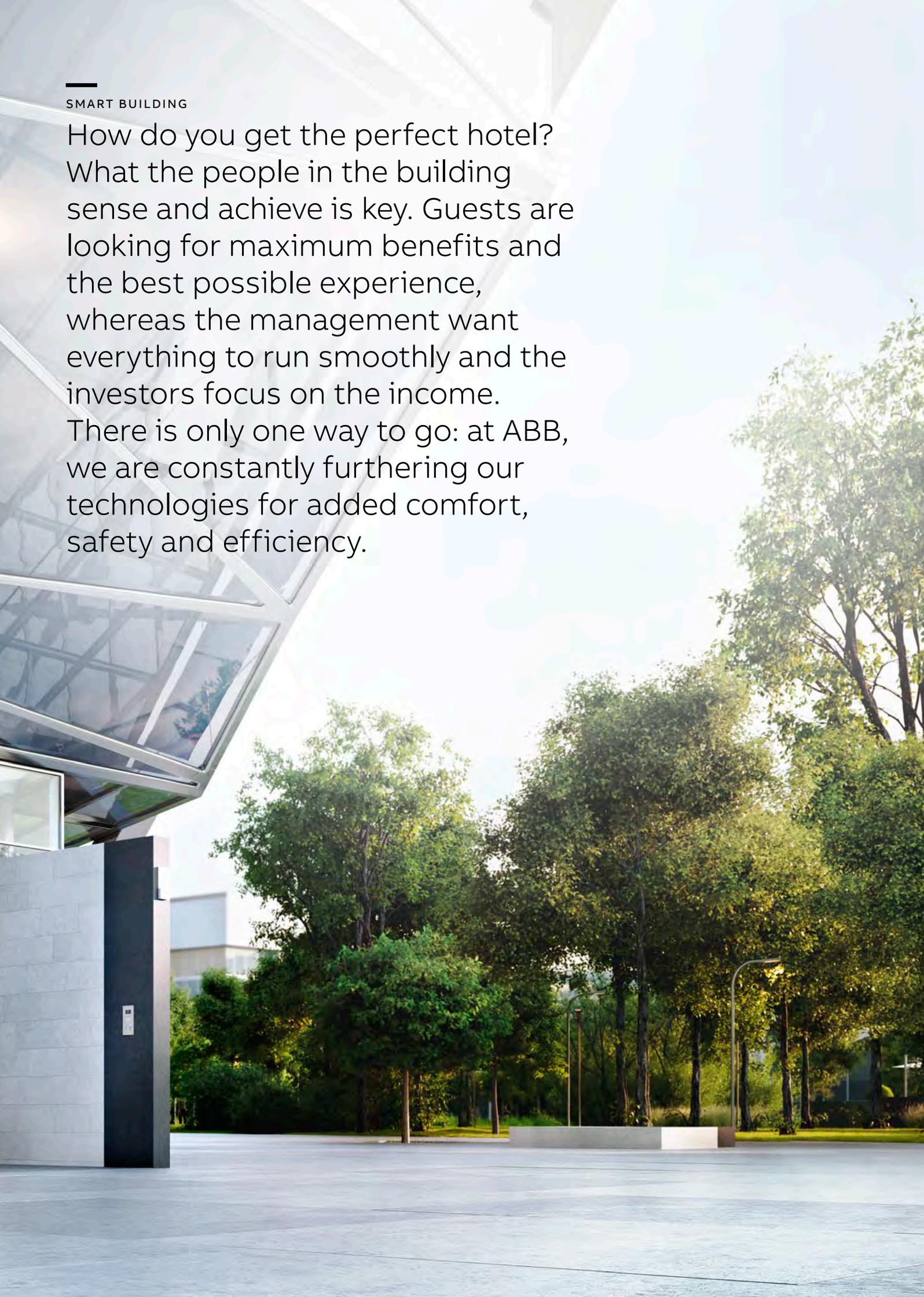
Inviting design
The best reason to return

reddot award

iF

GOOD DESIGN

German Design Award

PLUS X AWARD
2016 ausgezeichnet für
Innovation
High Quality
Design
Bedienkomfort
Funktionalität

Focus Open
2009
Internationaler Designpreis
Baden-Württemberg

ICONIC 2018
AWARDS
INNOVATIVE INTERIOR
winner

DESIGN PLUS

universal design

interior innovation award

The design meets the demands
ABB thinks every single detail through – from logical user guidance right through to functional surfaces – in order to impress users from the very first touch. There's nothing cleaner than a clean line. Our designs stimulate all the senses, making them perfect for a hotel.

Uniqueness stems from variety. The design is therefore not determined by an architectural style; instead, it adapts to various interior design directions – different colours from discreet to intensive, different surfaces from matt to glossy, different shapes from soft to hard edge. Whether you need a USB socket outlet or a radio, all applications have a place in a uniform line.

A warm welcome
As soon as the hotel guest opens the door, they are immediately greeted by a cosily lit room. All of the light sources coordinate with one another – whether they're spotlights, indirect lights or decorative wall lights – and also with the daylight controlled by the blind. A very warm welcome in an impressive setting. Details like these make all the difference when it comes to comfort in a hotel. It's very simple for the management to operate and automate entire scenes like this.

ABB tacteo®
The individual touch

The ABB tacteo® KNX sensor is a capacitive control element for the intelligent building automation of high-end luxury hotels, offices and public and residential buildings.

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Design your own individual KNX sensor with the ABB tacteo® configurator

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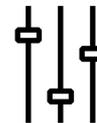
Getting started – click on the "Customized for You" button and fill in the form **(premium configuration)**

—

ABB is setting up your individual configuration area **(premium configuration)**

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Configure your sensors

The ABB tacteo® KNX sensor is a capacitive control element for the intelligent building automation of high-end luxury hotels, offices and public and residential buildings. ABB tacteo® KNX meets all the requirements that a modern design demands – the highest levels of quality and above all comfort: from blinds, lighting and heating to media and access, everything is easy to control. Are you an architect planning a building with maximum functionality and a personal touch?

Do you desire a modern hotel that is as individual as you are? Design your KNX sensor with the ABB tacteo® configurator, completely as you like. The number of functions is variable and can be determined according to your specific needs and wishes. Additionally, you can now also configure the sensors, via the Customized for you process, with your own brand icons, fonts and logos, which can be placed freely (up to three elements) on the glass surface for a completely unique appearance.

—
Save your sensor
and get your
unique design ID
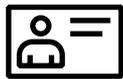
—
Add the sensor to
the parts list

—
Forward the list
to your wholesaler

individual
text field

customized
icon/logo

icon/logo can be
freely positioned

individual
glass color

BETTER|SPACE

Maximum comfort
All factors working together

Take comfort to new heights. Hotel guests are demanding. The design is just one aspect. What's particularly important is the light, blinds, air conditioning and heating work together to create an atmosphere where your guests enjoy every second of their stay and look forward to returning.
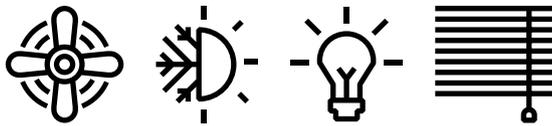
For light, all you need is a light bulb and a switch. However, to create a cosy atmosphere, you need to combine different light sources to create a certain mood – our products ensure that operating several light sources together with blinds and air conditioning remains intuitive and simple, even when there is a variety of room functions.

Cosy light effects
The only way to make a room feel homely is to combine several light sources. Balanced light fascinates and inspires the guests. What's more, the different light sources can be controlled and automated in entire scenes. The light from outside is also incorporated here over the course of the day. The blinds move automatically depending on the position of the sun.

Perfect climate
A perfect hotel room is never too warm, never too cool and always filled with fresh air – it stimulates all of your senses. The invisible technology, ABB i-bus® KNX, makes this possible. Everyone can get to grips with it straight away thanks to the room temperature controller with its clear design. As a result, you can control the heating, ventilation and air conditioning with the touch of a finger and a glance at the display – it's as simple and clear as that.

DO NOT
DISTURB

MAKE UP
ROOM
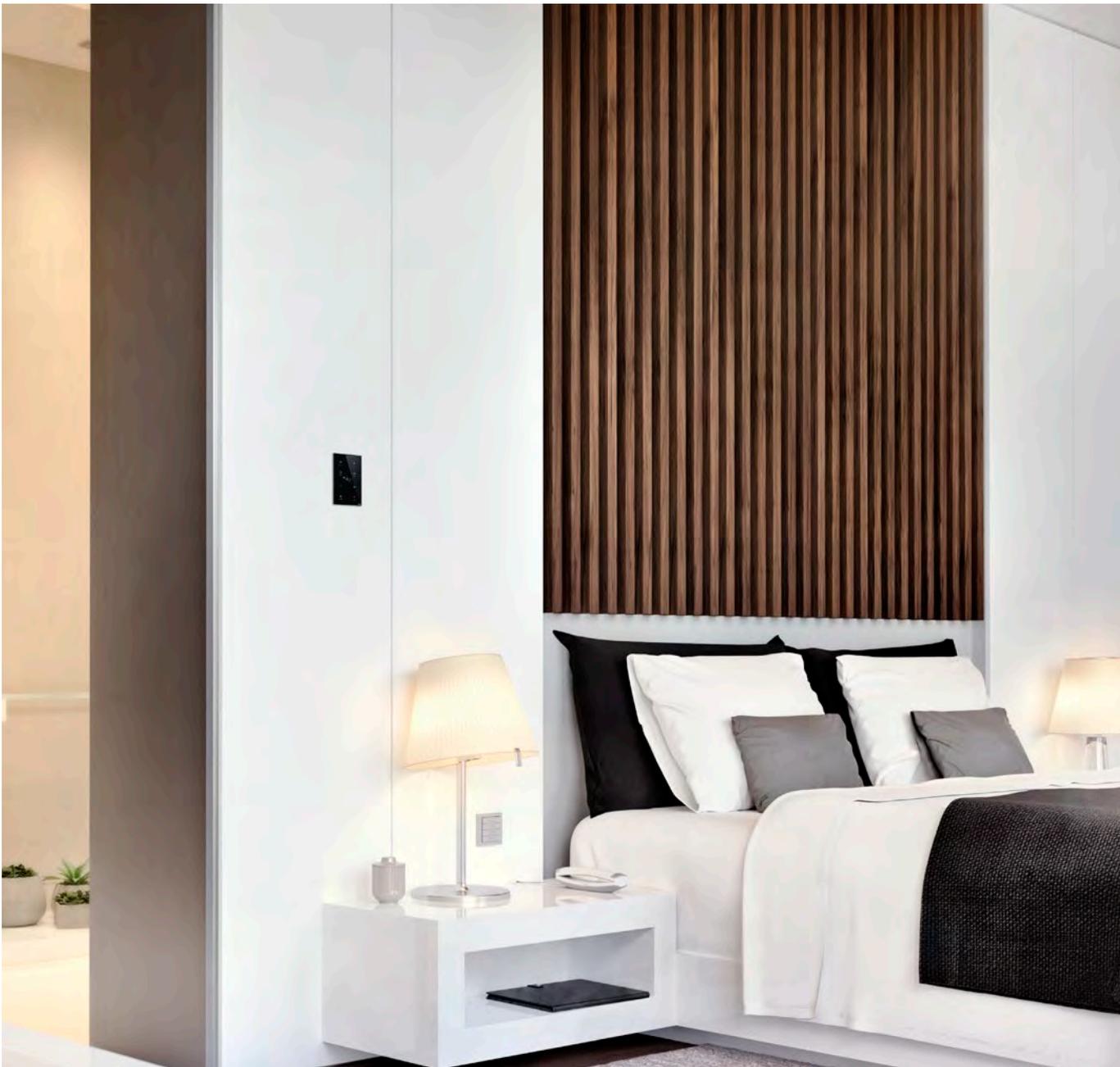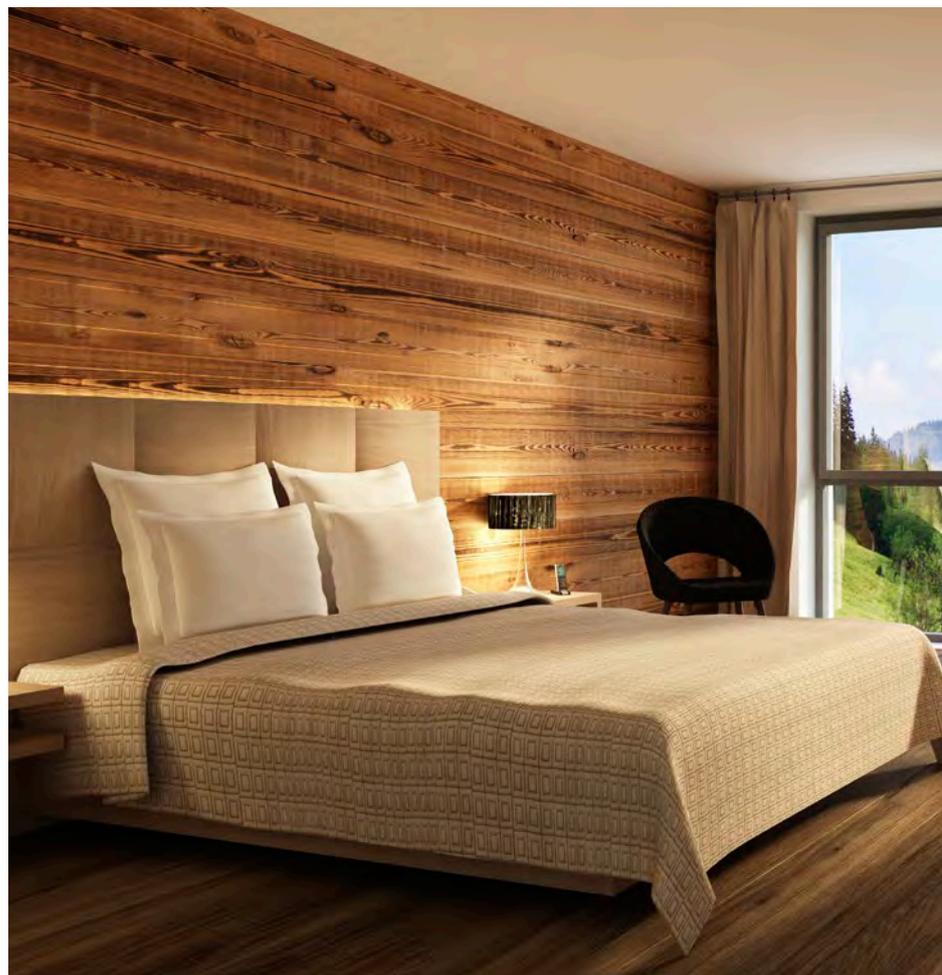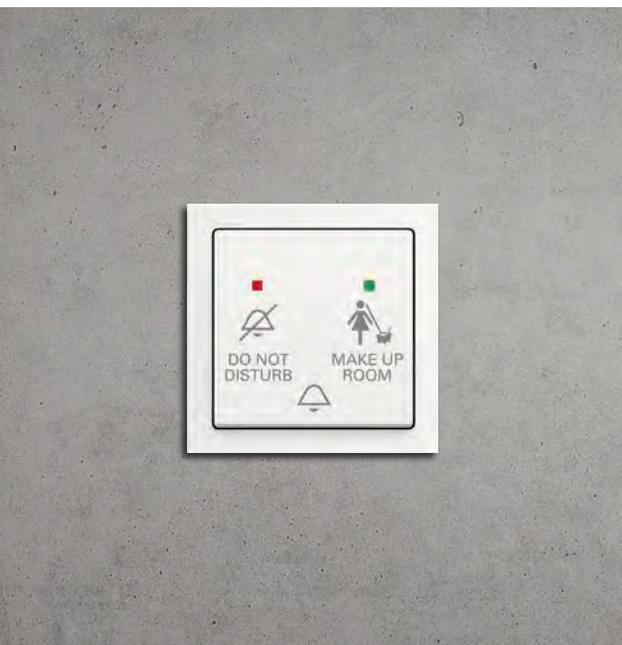
Intelligent solutions
Energy-efficiency with discreet charm

Hotels have their very own specific requirements. Because when guests want to enjoy their time, there is no place for complicated technology. Maximum simplicity in operation, ideally intuitive – in quiet service, energy-efficiency with discreet charm.
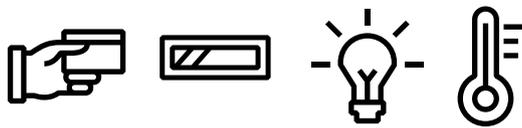
Maximum comfort for guests, improved energy efficiency of hotel processes and efficient workflows for staff: intelligent solutions are essential for a comfortable hotel.

Smooth communication
A smooth communication between guest and hotel staff is very important for a successful and pleasant stay. While the guest don't want to be surprised by the housekeeping staff, the hotel operator is looking for an efficient housekeeping process. With the Do not disturb and Make up room devices these processes can be easily supported as they indicates the guests wish.

Energy efficiency
RFID card switches are standard in many hotels and hotel guests are already used to opening their hotel room with a card. While the use of the card switches brings additional convenience for the guests, it also focuses on energy efficiency for the hotel operator. The RFID card switches are able to automatically switch the circuits for example lighting, heating and air-conditioning in the room.

Measurable efficiency
All costs under control

More power with less energy. With the intelligent control, what used to seem impossible can become reality. Thanks to the KNX standard, everything which uses energy can be controlled precisely, automated in a complex way and consistently checked. Ecologically sustainable with new saving potential for hotels of the future.

The increased efficiency is demonstrated primarily by the fact that all of the hotel functions intertwine and are controlled in one complete system. The ventilation does not impair the heating capacity here; instead, it supplements it. The indoor climate and lighting are influenced by windows monitored by sensors. Just the intensity of the sun in the room creates new saving potential for heating and light. Everything is connected.

Comfortable cost reductions
You don't always have the same number of people staying in a hotel room. This is why it is important to adjust the resources to the occupancy level in order to increase efficiency. Intelligent presence detectors with a direct KNX connection adjust the indoor climate and light sensitively. With their extensive coverage and discreet design, they blend seamlessly into the architecture – almost invisible but highly effective.

Luxurious energy saving
Heating, ventilation and air conditioning need a lot of energy. Luckily, there is a lot of saving potential in the system as a whole. You just have to analyse and take advantage of it. ABB offers a complete solution for this, covering the technology in the basement right through to the sophisticated switch range in an expensive suite, which includes everything you need: from the frequency converter, which efficiently regulates fans, compressors and pump motors, to the wall-mounted room thermostat.

Maximum safety
For guests and investments

More than a feeling. Intelligent technology is behind all that is safe. Only a fully networked building creates an environment which protects the people and values. The ABB i-bus® KNX brings everything together. By integrating all applications, the result is stability for everyone.
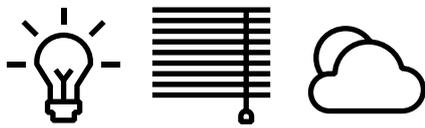
Safety is a constant requirement: all functions must be guaranteed at all times so that investors and the management can be sure of having a profitable property without any malfunctions. The hotel guests can enjoy their stay oblivious to the technical expertise in the background. They are certain to be undisturbed, even in the event of a power failure.

Relaxed guest
The first impression on the way to the hotel room counts. Orientation lights, such as Busch-iceLight®, mean that even long corridors are never left in the dark. What's more, a safe and pleasant light is switched on immediately by a movement detector up to 12 metres away.

Relaxed management
If you run a hotel, you must be able to fully rely on the complex building technology for every second, for every day ahead. You put your trust in the emergency power supply, analyse and rectify errors. Everything intertwines – from the technology in the primary energy distribution system right through to the pro E comfort system circuit distributors on the floors. You'll be pleased to know that your guests are fully protected at all times.

Scalable access control solution
Delivering an exceptional guest experience relies on all your systems running smoothly and effortlessly.

ABB RoomGuard software is a web-based scalable solution, thanks to a licensing model based on number of rooms, for the configuration and supervision of ABB Access Control range; Tacteo, Millenium, Zenit, Chiara and Mylos. RoomGuard also offers seamless integration with KNX Building automation, PMS, and third-party software centralizing management of all hotel functions from the front desk.

- Check-in/check-out
- Card programming/cancellation
- Front desk monitoring of room state: room cleaning, mini bar restocking required, maintenance request, or unusable room temperature control
- Front desk monitoring of room loads e. g. temperature control

Energy efficiency and cost savings
Heating and air conditioning alone can account for 60% to 80% of a hotel's total energy costs and present an opportunity for potential cost saving through effective smart control. RoomGuard enables intelligent and optimized air conditioning management with comfort mode activation at guest check-in and during room occupancy and transition to standby/OFF when room is un-occupied and at check-out, ensure energy is not being consumed unnecessarily in unoccupied rooms.

Additional guest services
Managing access to any paying areas such as wellness or fitness center, or common areas such as conference rooms, car park/parking space, etc.

Safety
- Transponder card for room access
- Front desk monitoring of guest and hotel staff room occupancy
- Front desk display of room alarms and messages

How many solutions can there be? There are always new solutions for the increasing demands of guests and the increasing expectations in terms of profits. Management and operators can count on ABB for everything. Each individual product provides exactly what is needed both now and in the future – for every concept, for every hotel.
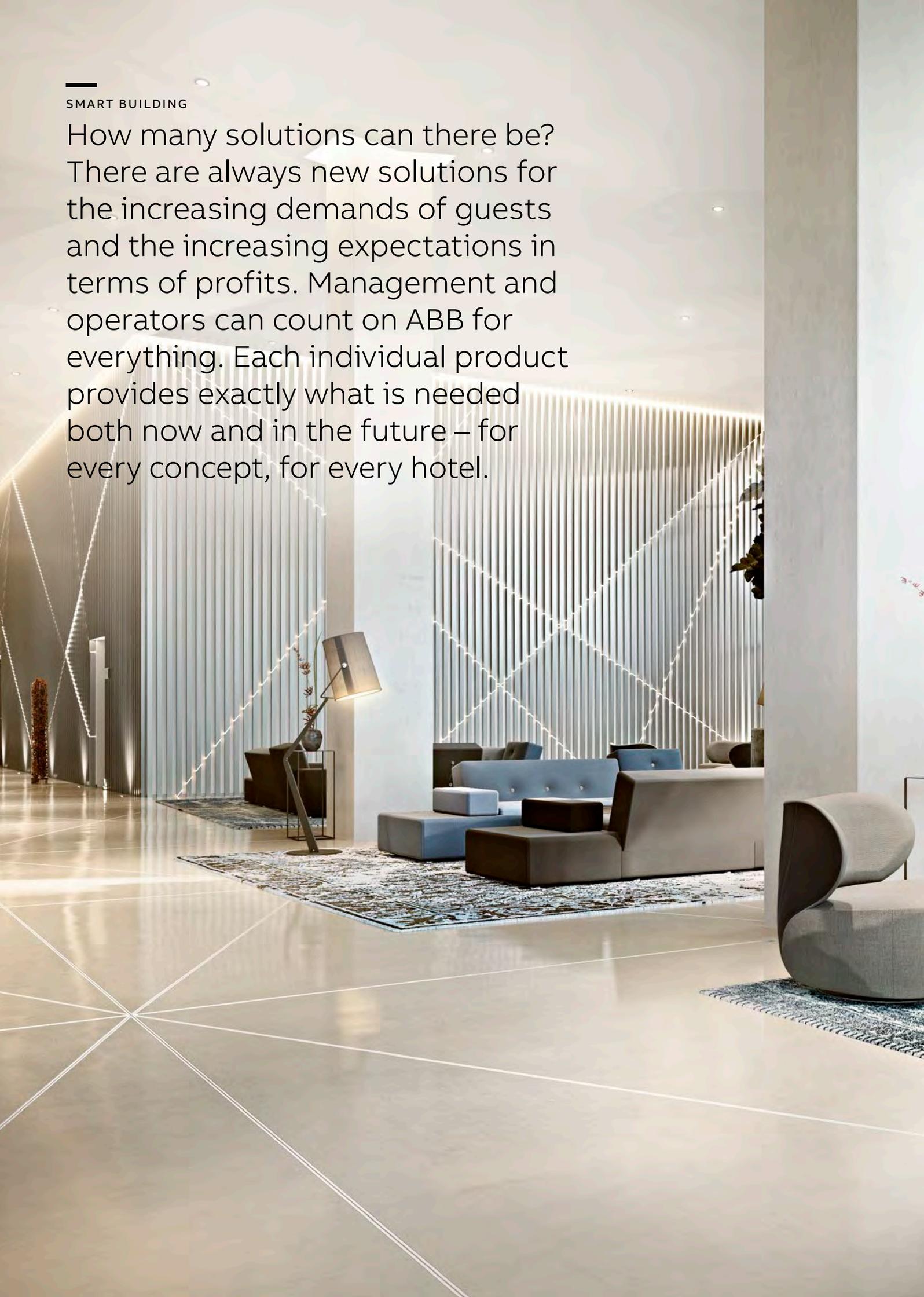
First impressions
The lobby and everything before

Before you even step into the hotel, you feel like you're in good hands. The vastness of the lobby is brought in line with the very highest safety requirements, with cameras capturing everything important on a constant basis. When it's dark, the orientation lights go beyond fulfilling their purpose – they are also a design element which welcomes everyone.

Flexible door communication
ABB-Welcome creates the highest level of safety and comfort, and can be expanded in a variety of ways. Access has also been simplified, with transponder cards for guests and fingerprint modules for the personnel. What's more, there are several cameras which can be integrated to create safety. Even the smallest hotels use technology. At times when there are no staff on-site, calls are simply forwarded to an employee's smartphone.

Constant vigilance
Safety begins with visibility. The Busch-Watchdog movement detectors react sensitively and immediately. They ensure that no one has to stumble around in the dark and that uninvited guests are not ignored. With a detection range of up to 280°, several detection levels without gaps and much more, we have a suitable movement detector for every task, regardless of whether they are being used over long distances, across two corners or for large radii.

Safe power
Even outside the hotel, safe power and light sources are essential. On top of this, ABB also offer a waterproof product range with IP 44 protection. These weather-protected devices keep on going, even in rain or snow. The design is timeless and harmonises with many different current architectural styles thanks to the variety of shapes and colours on offer.

An inviting atmosphere
A warm welcome in the lobby

The pleasant climate on entering the hotel starts to create a profitable relationship between the hotel and the guest. This is where the host's claims become reality. The networked technology controls all factors precisely: the blinds improve the level of sunlight, the light remains constant, the air conditioning ensures that the air remains comfortable.

Clear operation
The reception personnel can control all important functions on the touch panel – with the ultimate overview and clear control of the lighting, blinds, air conditioning and safety. Light scenes can be managed and controlled. Information such as temperature values acts as guidance. Alarms and error messages mean that the management on-site are able to act.

Wireless atmosphere
We're talking about the Internet, tablets and smartphones here. Even in the lobby, a complete wireless connection is a must. For powerful, high-quality transmissions, all you need is an integrated and concealed solution – the flush-mounted WLAN access point. It fits in with all challenging interior design requirements as the powerful technology can be incorporated into different switch ranges.

Convenient Internet
Even in the lobby, the hotel can shine by offering a complete service. Wireless Internet access with the very best reception quality is part of the comfortable lounge furniture. The flush-mounted WLAN access point – in the switch range requested by the customer – is as subtle as it is effective. The SCHUKO® USB socket outlet for USB charging is equally space-saving. A direct connection is the best.

Immediate connection
The warm welcome is reflected in the fact that the technology is available to the guests immediately. If they need to charge their smartphones quickly, it is important to have a USB socket outlet in the lobby. And those who have just arrived will also know where to go next: the Busch-iceLight® with relevant pictogram will point them in the right direction. Each module comes in the switch range used for the hotel – a uniform design with ultimate functionality.

Savour the moment
Exceptional catering

You can design the perfect atmosphere to allow guests to savour every moment. KNX brings variety to the table as the light and blinds can be controlled in groups or individually. Even large rooms need inviting light scenes. You can create a uniform light level in the required light colour and also set each lamp individually in terms of intensity and colour temperature. The room temperature and air quality are regulated depending on the number of guests, creating consistently beautiful surroundings.

Ideal room temperature
The KNX room temperature controller reduces energy usage and increases comfort for the guests at the same time. As a result, the heating requirement changes depending on how busy the restaurant is. If you want the hotel to be energy efficient, simply ensure that it is never too warm – you generally save six per cent of energy by lowering it by one degree. The useful controller is available in different switch ranges, for example in the modern minimal style of the Millenium range.
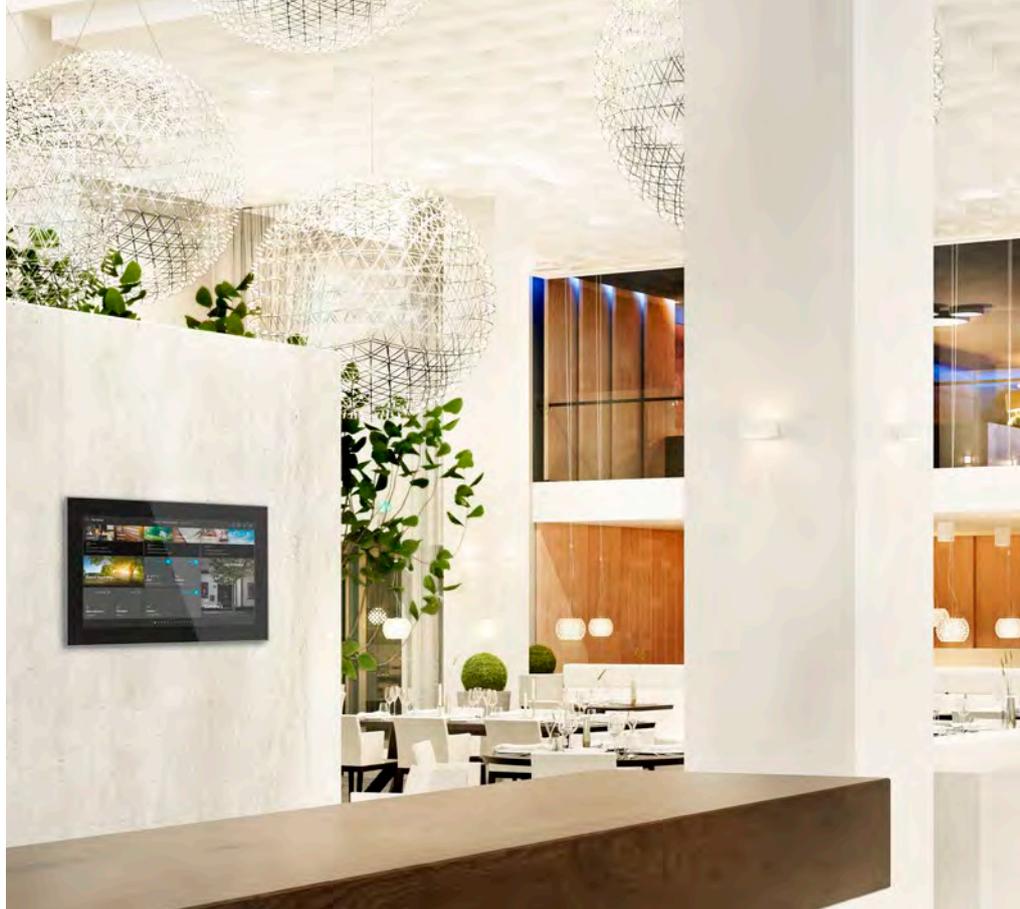
Clear control
The catering staff don't have a lot of time and are often stressed. This is where the quality of the touch panel really comes into its own – clarity and intuitive operation really is the only way to go. You can regulate all light scenes and the room climate here with just a few touches. The measured values are displayed clearly to ensure comfort for the guest and profitability for the hotel.

Optimum air quality
Having the right level of humidity and the correct level of CO_2 in the restaurant really whets the appetite. With the Busch-CO_2 sensor® wall module, you can both measure and also change these clearly and directly. It measures air quality and humidity and regulates the incoming fresh air. It switches the ventilation on automatically or opens the window as soon as the maximum CO_2 value has been exceeded in the room.

Detailed light
Suitable dimmers for every type of lighting – whether you need a DALI potentiometer, IR dimmer or push-button in many versions. What's more, the modular MDRC dimmers mean that central control is possible. And each LED can, of course, be controlled in a flicker-free way. Together with RGB and RGBW lamps, ABB i-bus® KNX DALI Gateways ensure all kinds of finely structured lighting accents and moods.

Discrete service
Helpful technology in the corridors

The route to the hotel room is a business card for every hotel. First impressions also count here: clarity, orientation, brightness, friendliness, help and safety in the event of an emergency. The whole atmosphere is essentially new for the guest, so all functions must be self-explanatory to the greatest possible extent. As a result, various applications are available, which work subtly but effectively in the background.

Clear orientation
Guests appreciate the superior welcome they experience through clear signals. The Busch-iceLight® wall and ceiling modules help them to get their bearings. For the signal inputs, there are various pictograms which provide information during the day and night, and which show the way. With designer covers for the different switch ranges, the LED technology and high-quality acrylic glass really emphasise the contemporary features.
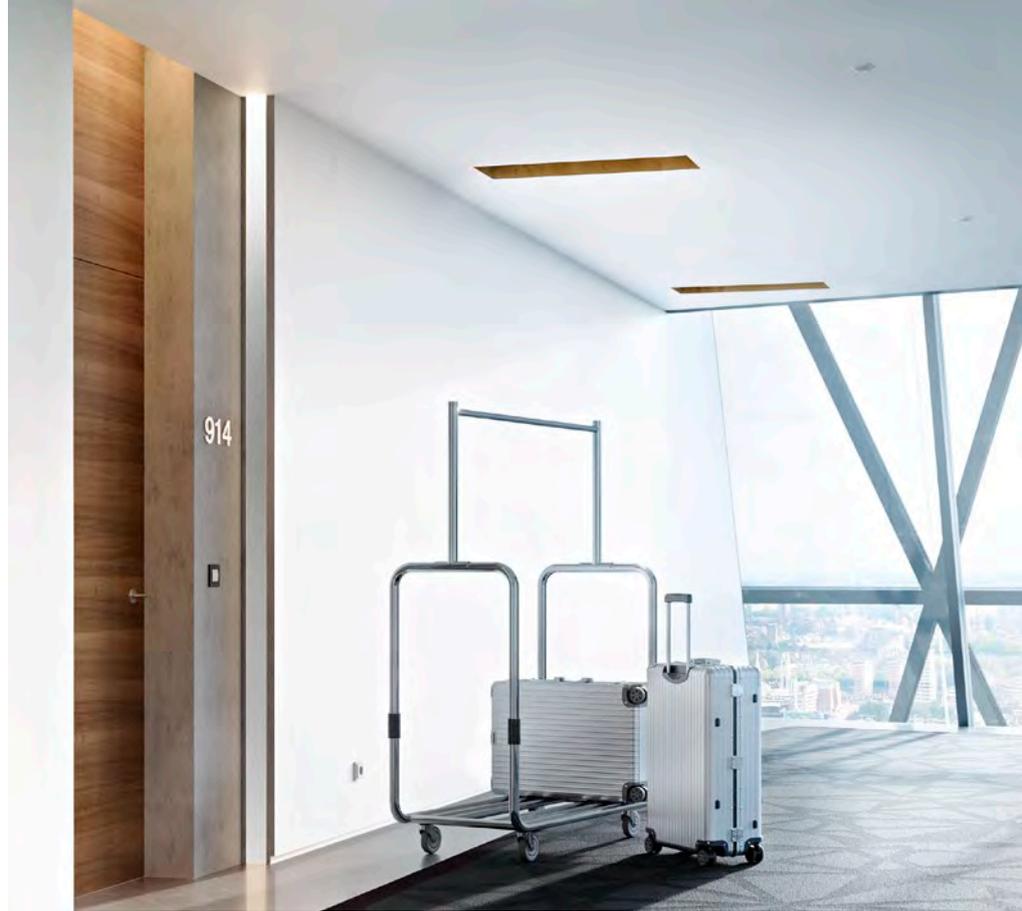
Friendly greeting

Even before you get through the bedroom door, you are greeted by perfection in a compact device – the transponder for the key card. The clear design – for example, the straight lines and high-quality stainless steel in the Millenium range – give the impression of safety without compromise. As soon as you arrive and insert the card in the room, you are welcomed by a cosy light scene. Ultimate comfort for the guest, exceptional energy efficiency for the operator.

Clear safety

The KNX presence detector is a vigilant employee with a range of up to twelve metres. It always controls the light responsively. And as a detector with an integrated monitoring function, it unobtrusively cares for safety.

Comprehensive access control

The key is now a card which not only makes the stay noticeably easier for the guests, but also brings cost benefits for the operators: KNX and the option of a central control create transparency and safety. This reduces the organisation and maintenance costs. You can get an overview of everything from a central location, meaning that the room occupancy process can run smoothly. The entire system is future-proof for all conversions and extensions.

Fully equipped
The new standard for the standard room

The intelligent building control also demonstrates its capabilities locally in each hotel room. The ABB Room Master automates the air conditioning, the lighting and the shading in the rooms and also switches the socket outlets. On top of this, it controls other comfort and safety functions.

Smart energy distribution
The room's control centre: everything has a place in the compact housing of the new Mistral 65 range, from automatic circuit breakers, residual current devices and surge protection devices right through to controls and media distribution devices. It's a harmonious blend of technology and design, clear and pleasant right down to the smallest detail – in short, straightforward and flexible.

A friendly welcome
Perfection begins at the room door with the card switch. If you insert the card here, a light scene switches on automatically. The temperature is regulated immediately. The integrated bell switch indicates to the service personnel whether the guest wishes to not be disturbed or for their room to be made up. The room itself says "welcome"!

Compact multimedia technology
Hotel guests can enjoy their own taste in music. The sound comes directly from the wall, without a tangle of cables. It is possible to connect a smartphone via both Bluetooth. All of the technology is therefore contained in a space-saving housing and always fits in with the interior design – ideal for the space next to the bed or in the bathroom. Sound contributes to comfort.

Ideal room climate
The room air is just as important as the equipment. As people, we register more than just the temperature. With the Fan Coil room temperature controller, you can fine-tune everything. You can adjust the fan speed levels quickly and precisely to the room climate preferred by the guest at the touch of a button on the display. ABB i-bus® KNX works just as discreetly as it does flawlessly.

Comfort at its best
Intuitive operation in silent service

Multimedia Connector
Make your guest feel right at home - no matter whether in the guest room or the conference room. With one switch you can offer your guests the use of the entire range of media.
- Streaming of audio and video as well as charging of various terminal devices.
- Thanks to an HDMI socket, a television can be used as a second monitor.
- The integrated Bluetooth interface makes possible the transmission and playing of music.
- A USB connection offers the option of charging the mobile phone.

Electronic push-buttons
1gang, 2gang and 3gang designs. The digital push-buttons with LED lamps can be used for different functions: lights, blinds, scenes. Each electronic push-button has two clamp blocks that make a very comfortable connection possible, simple wiring and clamping.

Service switches

"Do not disturb" and "Make up room" – the minimum communication between guest and personnel that is very important. Your guest controls it with a touch of the button. Switched inside, the message is displayed outside. The mechanical switch is designed with extra-low voltage (24 V) and compatible with bell wires and common hotel networks.

RFID Card Switch

Something your guest is already used to: opening the room with a card. Yet, the RFID card can do even more. Before entering the room, it activates the lights and heating, and creates a welcoming reception. Once the card is inserted into the card switch inside the room it activates e.g. the air-conditioning or heating system. Once the card is removed, the functions sequentially end according to the defined mode such as eco, standard or extended mode. A genuine contribution to environmental protection and energy saving.

First class
The modern-day premium suite

The bigger picture: with the large ABB SmartTouch® 10 on the wall, you have maximum control over all functions. Dim the lighting, regulate the room temperature and shading, switch entire light scenes with the touch of a finger, call up weather information directly and, of course, select your chosen music and adjust the sound. The highest level of functionality contained within an elegant design.

Invisible energy
All of the important energy distribution devices are located in a control centre, including automatic circuit breakers, residual current devices, surge protection devices, controls and media distribution devices. All parts can be integrated quickly and flexibly and the system can be expanded at any time. The technology is just as extensive as it is discreet, as the built-in solutions adapt to the interior architecture of the room. The result is true harmony between technology and design.

Creative freedom

If you offer an expensive suite, the technical features must be of the very highest level, both for leisure time and business trips. By this, we mean unlimited infotainment and entertainment in the lounge area, the sleeping area and even the bathroom, as well as high-speed Internet with the best possible reception in all areas. There's a solution for everything with ABB – systematically designed for every architectural style.

Fully connected

In the premium sector, what's on offer must be premium. There can't be anything missing that the guests may wish to use. They expect a USB charging station at the socket outlet. If they want to play films from their personal computer on the large-screen TV, the two devices are connected in a matter of seconds. Straightforward built-in solutions are available to meet the guests' entertainment needs: Bluetooth receivers, docking stations for smartphones, Internet radios and FM radios.

Modular variety

The high-quality rotary control element of the Busch-priOn® perfects the tried-and-tested operation so that each guest can control every function with ease: light scenes, timers, blinds or heating. Busch-priOn® is modular and not frame-bound. The rockers can be assigned to different functions. An iconic design in four high-quality variants: glass white, glass black, white high-gloss plastic and stainless steel with anti-fingerprint coating.

A stable foundation
From energy distribution right
through to usage
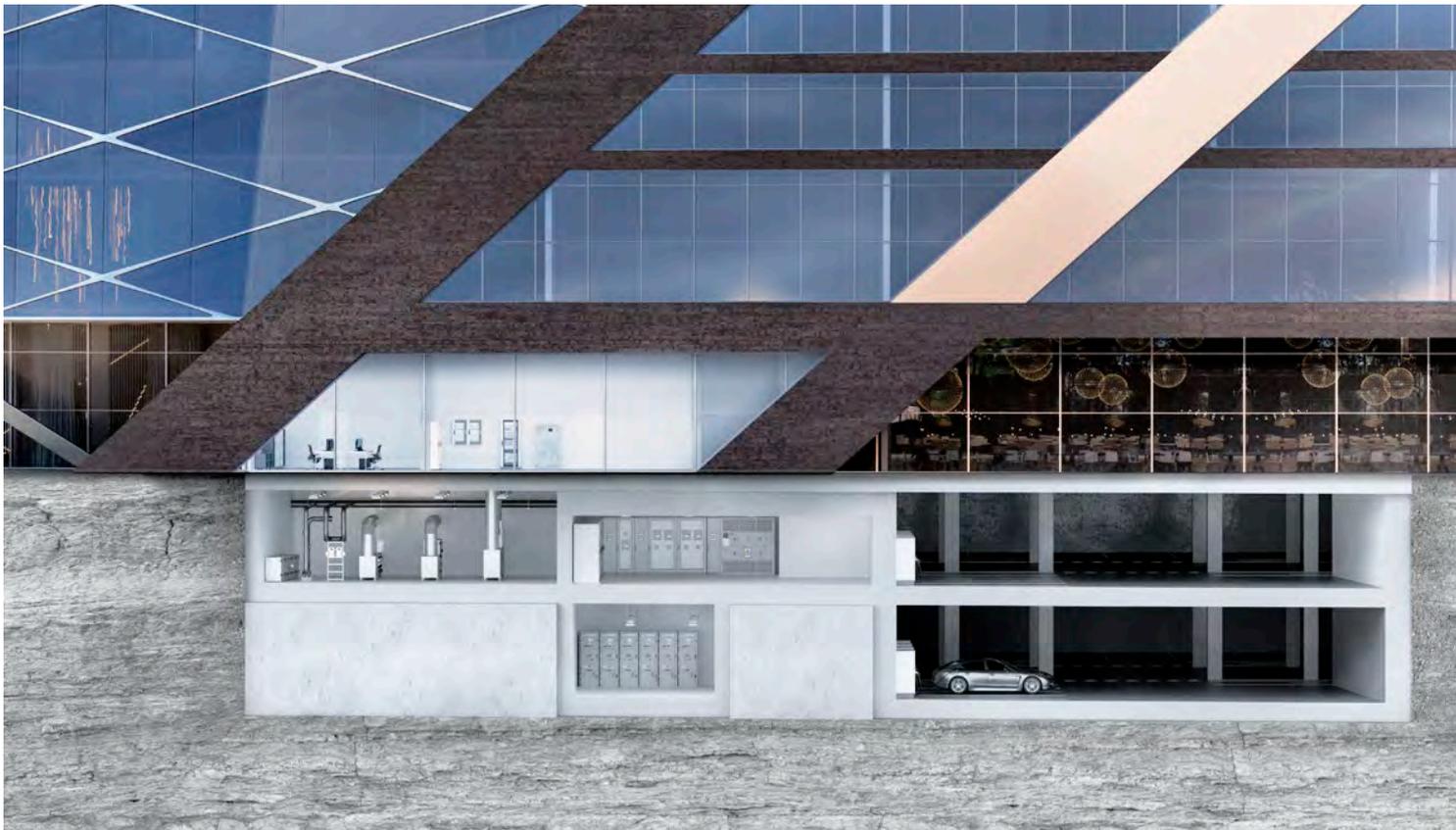
Reliable medium and low-voltage distribution
Safety through intelligence and experience:
the switchgear and transformer solutions are
perfectly aligned to one another, as well as to
restricted spaces, the local standards and
customers' individual wishes. You can choose
from air or gas-insulated cells and gas or vacuum
power-cut-out switches, and can use a voltage
range between 1 and 40 kV and the rated current
range for all possible technical combinations. The
ANSI and IEC requirements are, of course,
fulfilled.

Current multi-standard quick charging
All current electric vehicles refuel in the quickest
way possible with Terra DC, the fast charging
station series for all electric vehicles, which use
the standards CHAdeMO, CCS and type 2 AC.
This means that all guests can easily recharge
their vehicles in the hotel garage. Thanks to the
Connected Services, the charging stations can
be connected to different software systems, such
as back offices, payment platforms or energy
management solutions, without any problems.
Energy with service.

Efficient cooperation
If all applications and devices build on one another and intertwine, then the technology can achieve maximum efficiency, reliability, safety and cost effectiveness.

Safety in a matter of seconds
Emergency lighting and power supply systems must be able to respond immediately at any time. In the event of a general power failure, the emergency lighting is activated reliably and the key building functions are supplied with power. As a result, the viaFlex central battery system provides high reserves. As soon as the power drops out, the Twister® S1, a battery-powered motor generator converter, secures all of the important powered building functions within a matter of seconds.

Efficient electric motors
Ventilators, compressors and pump motors for heating, ventilation and air conditioning need comprehensive control. The intelligent frequency inverter forms the basis of the energy savings and the environmentally friendly credentials. Good air quality is key when it comes to the comfort requirements in a hotel. Now, the control system can significantly lower energy usage without a loss in comfort. Even here, it's all a question of the control.

Modular and complete. ABB has a wide range of solutions to increase efficiency in all rooms and to provide more options for all those who live and work in them. All technological components are networked and can be expanded seamlessly. This results in increased comfort for the guests and for the operators – opening up new potential for adding value for the investor. Everybody wins.

Living room	Dining table		Living room
Garden lighting	Ambient light		22,5
Cinema lights	Living room	Terrace door	− +
Guest room 100%	Kitchen		Guest room
Ventilation 1/3	Energ		Scene
			Cosy

Mo 13/01/

Impressive products
For countless possibilities

At ABB, every component part has a function to begin with – to work together with all of the other component parts. What's more, versatile automation means that you save on costs. Errors are detected in advance as all data can be managed, controlled and scheduled in a networked system.

Variable shading
The guest can use an elegant rocker to adjust the blind in small increments. Behind this, the ABB Room Master is concealed, operating all of the functions in the room as efficiently as possible. Saving on operating costs has never been so easy.

Versatile lighting
Today's dimmers can do more. Thanks to KNX and LED technology with RGB and RGBW modules, you can even regulate light colours and entire scenes. Regardless of whether it's direct light or indirect backlighting from the floor, ceiling and walls, cosy light now comes with a new level of freedom.

Clear operation
The classic rotary knob is the surest operating concept for guests. Thanks to the connection to the ABB i-bus® KNX, you can control the heating and air conditioning digitally and energy efficiently, fully combining this with the classic "analogue" switch ranges.

Consistent protection
Safety is required at the scene. With the decentralised FI-SCHUKOMAT residual current operated device, the hotel has an additional protective function directly in the bedrooms. It is just as flat as any other socket outlet and switches the power off reliably and at lightning speed in the event of danger.

Building dashboard

The ABB IP touch ensures that comprehensive functions in a room or entire building are centrally visualized, easy and intuitively operated in a comfortable and efficient manner.

Universal energy distribution

The main distribution systems work in perfect synergy with the decentralised distributors for all of the ABB low-voltage equipment: all components are compact and reliable, and thanks to the modular design, they are flexible, clear and maintenance-free.

Powerful energy input

Switchgear and transformer solutions can be adapted to local standards. Customer requirements – even the incredibly specific ones – are fulfilled, regardless of whether they refer to the premises, high environmental standards or other basic conditions.

Perfect arguments
Today's successful hotels

Architecture is more than just four walls. New luxury hotels are going beyond what's imaginable. And at the same time, the hotel guests' – both those on business trips and tourists – demands are increasing. Today, it's not just about having a comfortable place to sleep, it's about the stay as an experience. The technology in the rooms forms the foundation required and the applications and control devices are a fascinating part of the architecture. You have everything in the palm of your hand.

01 **Yas Hotel, Abu Dhabi**
The site of the 5-star hotel on Yas Island in Abu Dhabi sits across the Formula 1 track and extends in part over the water. A 16,000 m² curved self-supporting roof spans the building and can light up in different colours. The 85,000 m² hotel houses 499 rooms and eight restaurants. The technology that makes everything run smoothly comes from ABB.
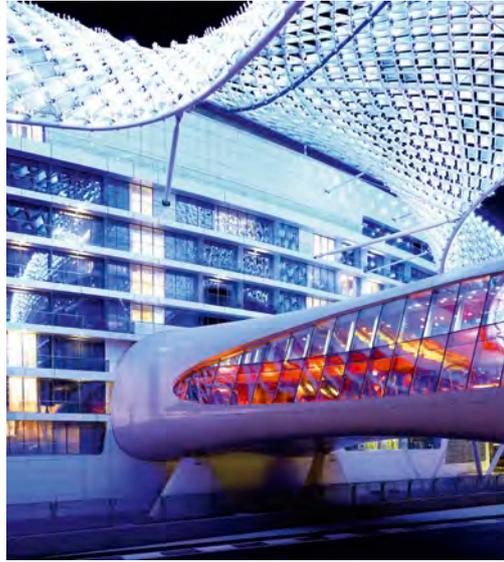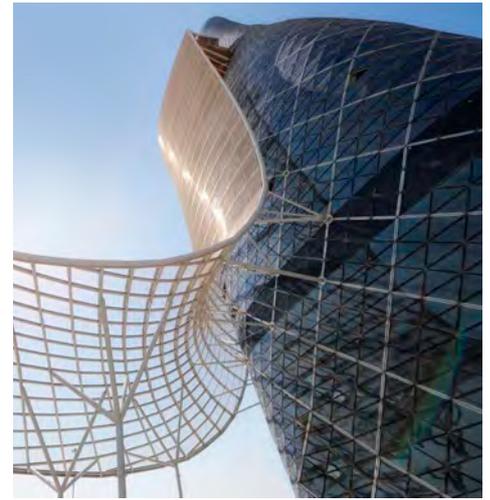
02 **Hyatt Capital Gate, Abu Dhabi**
Not only is this the only leaning hotel in the world – its 18 degree angle of inclination is greater than that of the Leaning Tower of Pisa. However, the building with 35 floors and a total height of 160 metres remains absolutely stable. This feat of architectural engineering appears in the Guinness Book of Records as the world's furthest leaning man-made tower. ABB is perfect partner for the technology in the hotel.

03 **Çırağan Palace Kempinski, Istanbul**
Built as a Palace for Sultan Abdülaziz in 1857, the magnificent building experienced the eventful history of a political power struggle – until only the outer walls remained. Within these walls, the 5-star Palace hotel was completely re-developed – a welcome blend of the Orient and the Occident, of trad-ition and the modern day.
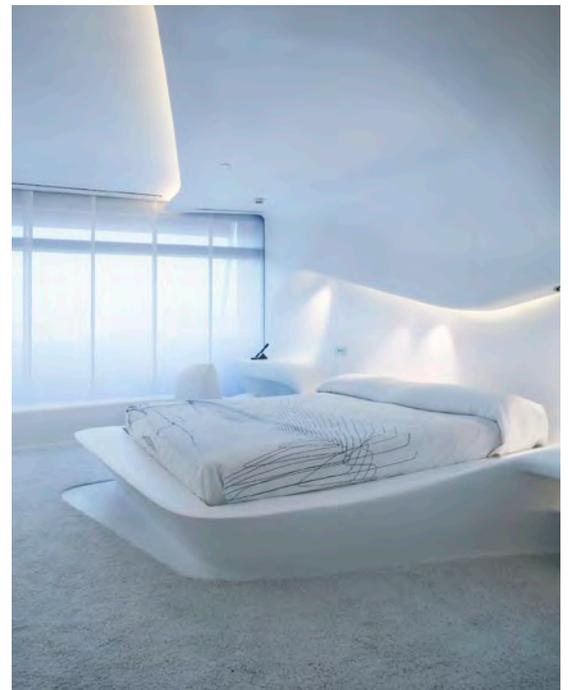
04 **Hotel Silken Puerta América, Madrid**
The rooms in this 5-star hotel demonstrate an endless degree of freedom. It's a work which breaks free of the traditional architectural models by using different colours, materials and shapes. Here, the guests are whisked away to an adventurous place, somewhere out of the ordinary. The technology is just as creative as it is flawless.

01

02

03

04

Maximum performance and efficiency
Offering more with less energy seems like a paradox, but thanks to the ABB i-bus® KNX, this is consistently possible. It goes without saying being able to control the room climate intelligently and in line with the requirements is both more economical and more comfortable. Both the guests and the management will appreciate this, as the networked system provides transparency with regard to all parts of the technology as a whole. If occasional errors occur, they can be quickly rectified. This results in the best balance sheet figures for operators and investors.

ABB

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