ABB i-bus® KNX: the seamless control in any building

Overview of KNX sensors and user operation

ABB i-bus® KNX User Operation
Experience streamlined control of all building functions

Networked structures work more efficiently than individual systems. They reduce energy consumption and thus operating costs in buildings, while adding distinguishing detail to the room decor.

ABB i-bus® KNX control elements form the interface between this state-of-the-art technology and the user. They control lighting, heating, fresh air supply and blinds. They integrate media technology and the Internet.
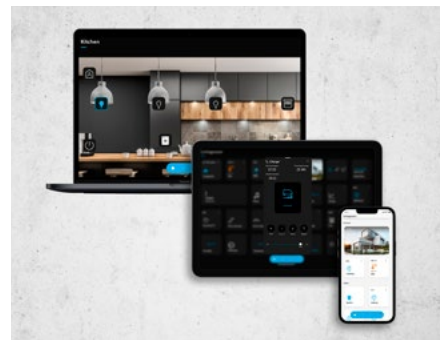
While powerful, intelligent technology with energy-saving functions works reliably in the background, the control elements are visible and clearly arranged, guaranteeing intuitive operation for the end user.

KNX

Further information
can be obtained on the Internet, in our product, solution, and assortment brochures.

Automation has become more efficient, to meet the needs of people living and working in any building. Adaptable systems turn the modern functional building into a smart space. They create an environment where communication and creativity can express leaner. Ideal for efficiency, perfect for the future.

ABB Trevion®
A touch of perfection

ABB Trevion® includes a 2.4" display with black glass surface for higher contrast, which keeps the display readable even at a tilted viewing angle and a freely configurable, up to 4-fold keypad. Users can choose between light and dark mode and haptic feedback through vibration contribute to an intuitive operation.

ABB Trevion® Displays
ABB Trevion® Displays has an integrated bus coupler (monoblock) and can be used in a KNX system as well as in an ABB-free@home® installation. The three sizes (55, 63, 70) allow the use in the switch programs such as Busch-balance® SI, future® linear, Busch-art linear®, SAGA™, ALBA and Sidus.

In addition to the bus supply from KNX or ABB-free@home®, the display requires an additional 24 V DC voltage supply. This can be implemented, for example, via the second pair of wires or a flush-mounted power supply unit. In addition to the internal temperature sensor, an external sensor (e.g. 6228/T) can be connected via an inlet.

- 12 control functions
- Max. 4 functions per page
- Swipe operation similar to a smartphone
- Information page for up to 12 status messages (KNX)
- Proximity/brightness sensor
- Room temperature controller included
- Internal temperature sensor
- One binary input/external temperature input

ABB Trevion® Keypads
Experience modern sensor technology combined with sleek design and a unique usability concept through capacitive surfaces.

With the ABB Trevion® Customization Tool, icons and text can be customized. Each keypad can be configured flexibly as a 1-fold up to 4-fold touch sensor (one order code) so it is adaptable and subsequently reconfigured to individual needs. Multi-color LEDs visualize changes in movement or brightness through the animated light guide.
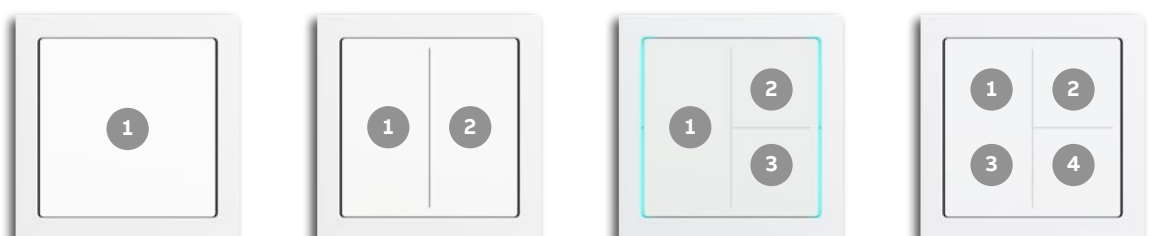
ABB Trevion®
customization Tool

ABB Trevion® presents a revolutionary sensor technology that can be harmoniously integrated into many of our switch ranges due to its size. You can choose between two options: a 2.4" touch display or a capacitive control surface with LED light guides.

Design and functionality in sync.
ABB Trevion®'s display and keypads match many of our switch design ranges. With its innovate swipe function, animated light guide, and customizable display and control elements, it adds a touch of perfection to any home!
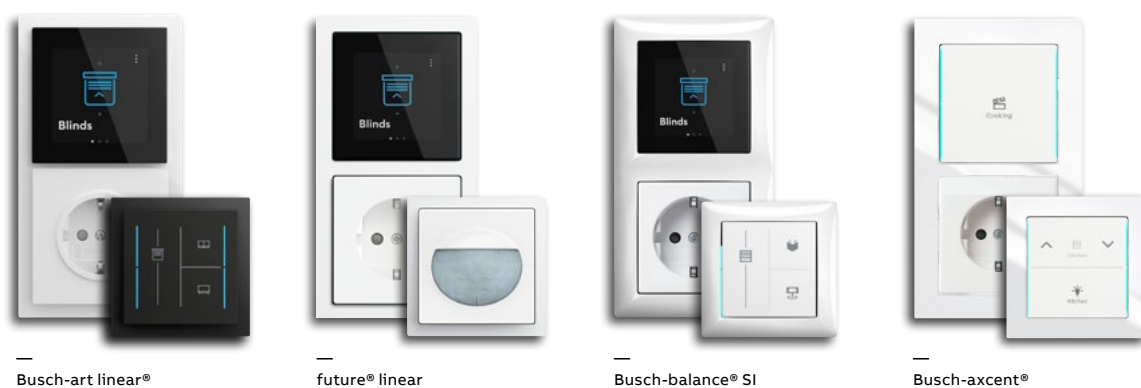
Busch-art linear®

future® linear

Busch-balance® SI

Busch-axcent®

Advantages for you at a glance

High-quality sensor assortment with an extensive scope of functionality

Compatibility with ABB i-bus® KNX, ABB-free@home® and ABB flexTronics® inserts (only keypads)

Customizable design of display and control elements, integrable into many of our design ranges

Smooth usability thanks to swipe function, supported by an animated multi-color light guide

ABB tacteo®
The individual touch

Intelligent control that adapts
to your individual needs.

black glass	white glass	glass coral	glass avocado	glass purple	glass oyster
glass ocean	glass sun	glass cloud	glass mocha		

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 home 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. Individually configured as required, each sensor is unique in design and function.

—
Which functions do you
need? Make a selection
with our configurator.

reddot award 2019 winner

GERMAN DESIGN AWARD WINNER 2019

ICONIC AWARDS 2018 INNOVATIVE INTERIOR winner

Product overview

—
You can find the
complete product
range online at
abb.com/tacteo

Six symbol control element	Four symbol control element with room temperature control	Room outside sensor	Motion detector Watch dog 180°	Room outside sensor and room number
86×86	86×157	86×86	86×115	86×157

—
ABB tacteo® KNX combines maximum functionality with a personal atmosphere. For first-class hotels, residential buildings and public buildings with the highest standards of design.

—

Advantages for you at a glance

Configurator and simple ordering process

Design your KNX sensors exactly as you want them. You determine the design and functions, you can define icons and texts and also select the colours of the housing and buttons – completely in keeping with the established colour control concept. As soon as the configuration is completed and the finished sensors are saved, you will receive an individual design ID. All of your project sensors, including ID, are added to a parts list. This list allows the wholesaler to produce your personal sensors. Thanks to the design ID, the unique sensors can be retrieved and ordered again at a later date.
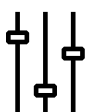
ABB tacteo®
customization tool

Flat and theft-proof

The frameless and extra-flat KNX sensor sits almost flush with the wall and blends harmoniously into any wall design. Peace of mind is provided by the optional removal guard, which protects the KNX sensor from theft.

Intuitive operation

The capacitive KNX glass sensors react without any touch or contact. When moving your hand towards the sensor, the status lighting switches on automatically. On the other hand, touching the sensor with the entire palm of your hand triggers a preprogrammed function. With a tap of the finger the desired function can be activated.

Premium customization for special projects

In addition to the existing configuration, you now have the option to configure the ABB tacteo® sensors even more individually. You can configure the sensors with your own brand icons, fonts and logos, which can be placed freely on the glass surface for a completely unique appearance.

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Busch-VoiceControl®
Control completely by voice

The building of the future recognises the needs of its users.
It reacts individually – automatically and without being asked
to do so.

—
Busch-VoiceControl® KNX

—
amazon alexa

—
Google Assistant

Busch-VoiceControl® KNX offers the unique
possibility of controlling buildings completely
by voice command with the digital speech
assistants Apple HomeKit, Amazon Alexa,
and Google Assistant.
Whether switches, dimmers, blinds or
thermostats, you decide which functions
you wish to control with your voice.

Capable of managing a range of building functions
including lighting, heating and window blinds, the
Busch-VoiceControl® KNX can manage up to 150
functions and is fully configurable via the secure
and simple to use MyBuildings portal, powered
by ABB Ability, the company's cloud based,
industry-leading portfolio of digital solutions.

Thanks to the Busch-VoiceControl® KNX device
it is possible to receive information about the
current status of the building, including room
temperature, light intensity and humidity. It
will also detect any motion or occupancy within
the property, giving added reassurance to the
homeowner when they are away from the house.
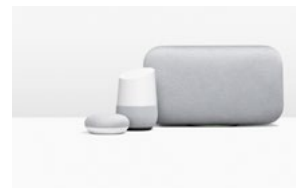
- Approved solution for Google
  Assistant, Amazon Alexa, Apple
  HomeKit systems
- Integration of lighting, heating and
  blind control systems
- All voice commands can
  be used simultaneously
- Control up to 150 functions
- HomeKit certification allows control
  of the KNX system from other Home-
  Kit devices, such as the iPad, iPhone
  and Apple TV

Use HomePod to control functions via
your Apple HomeKit connection

Works with
Apple HomeKit

Apple HomeKit

Apple TV
Apple HomePod

Apple, iPad, iPad Air, iPhone,
HomePod are trademarks
of Apple Inc. registered
in the USA and other
countries. HomeKit is a
trademark of Apple Inc.

KNX APP-Control Server
Easy KNX remote control with mobile device

Smartphones, tablets and smartwatches turn into a practical remote control, thanks to KNX APP-Control Server. It connects the KNX installation with the IP network, allowing control of all KNX functions in the building. Applications for iOS, Android, Windows and MAC create intuitive operation, allowing switches, dimmers, blinds, scenes, IP cameras, UPnP devices (for instance Sonos wireless boxes), Philips Hue lamps and many more to be integrated into the system.

Local user support can assign roles with user rights. Additional product features include Scene Editor, RGB/RGBW support, week timer with practical astro function, optional presence and alarm notifications via push messages or e-mail. The KNX APP-Control Server also enables the creation of individual logic scripts. The compact system has a KNX, a LAN and a 10-36 V connection for an external power supply. It is additionally equipped with a button for restarts and two LED lamps for the display of status and connection.

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Benefits for the electrical installer

1. Remote programming
Devices' web-browser can be entered remotely and the whole KNX installation can be programmed over a secure communication

2. Simplified commissioning process
Commissioning of the KNX APP-Control Server has been made easier:
- Import the KNX project into the ProService Portal
- Start your visualization
- Add a control element, e. g., a switch
- Add group addresses from the imported KNX project by drag & drop

3. Graphical logic editor
- Create logical functions on a graphical layer. This makes it possible to create complex functions in an easy and fast way
- Test the created function: Even before loading the logical functions in the device, you have the possibility to test them

4. Telegram recorder
Enhance Your KNX Monitoring with the KNX Recorder!
Unlock the full potential of your KNX system with the advanced KNX Recorder. Monitor and store KNX bus traffic effortlessly for in-depth analysis
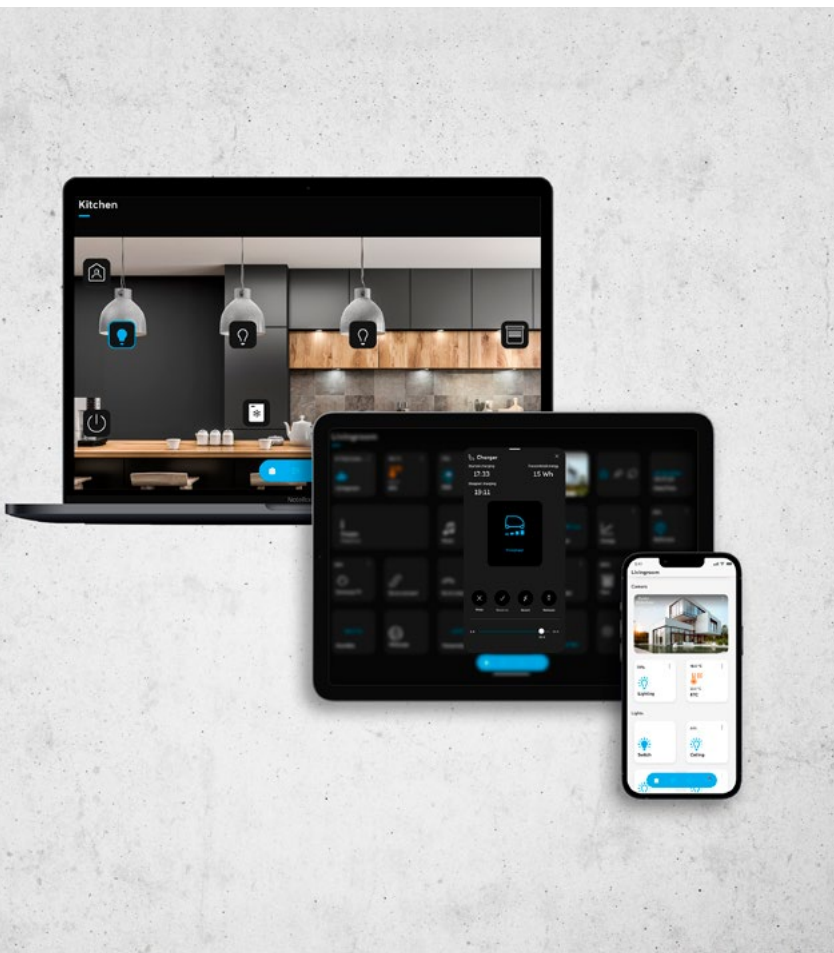
4.1 Flexible Operation Modes:
- Offline Operation: Store up to 1000 telegrams on your device. Download data in XML format for ETS
- Offline + Online Monitoring: Automatically sync data to the cloud every 10 minutes or when the buffer is full. Access, view, filter, search, and sort telegrams online, with XML and CSV export available for ETS
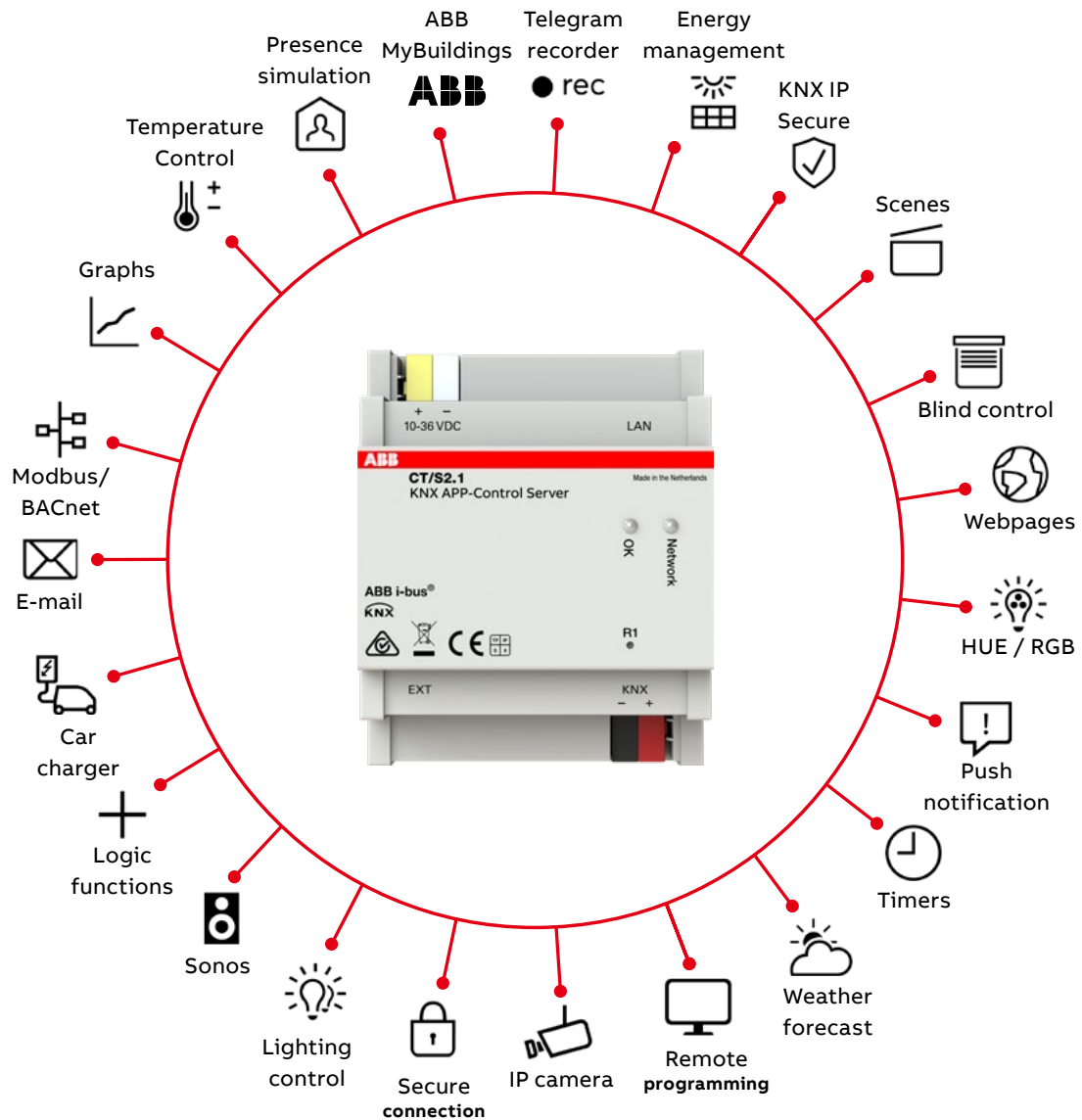
4.2 Customizable Monitoring:
Choose between continuous monitoring or a 24-hour cycle, which stops recording automatically after 24 hours

4.3 Detailed Filtering:
Record only relevant telegrams. For example, filter by group addresses with main group 1 or main group 3 and middle group 3

Presence simulation · ABB MyBuildings · Telegram recorder · Energy management · KNX IP Secure · Temperature Control · Scenes · Graphs · Blind control · Modbus/BACnet · Webpages · E-mail · HUE / RGB · Car charger · Push notification · Logic functions · Timers · Sonos · Weather forecast · Lighting control · Secure connection · IP camera · Remote programming

CT/S2.1
KNX APP-Control Server
Made in the Netherlands
10-36 VDC
LAN
OK
Network
ABB i-bus®
KNX
R1
EXT
KNX − +

Benefits for the end user

1. Smart Energy Management
- Optimize energy consumption by maximizing the use of self-generated energy (solar, wind) and run appliances when energy demand and prices are lowest
- Schedule the charging and usage of devices based on energy prices and predicted energy production, which is related to the weather forecast

2. Integration of OCPP
- Easy integration of EV chargers space missing with the OCPP protocol 1.6
- Monitor and control the charging status: Control the charging procedure, check for errors and how long the car is already charging
- Integration in the Smart Energy Management: The charging process can be controlled fully automatically depending on the energy costs, the energy generated or the desired end time

3. Integration of Philips Hue
- Integrate up to 5 Hue Bridges: In total 250 Hue devices can be combined in the KNX installation
- Hue Groups are now supported: Control a complete group of lights at once

4. Integration of Modbus TCP
Integration in a Smart Energy Management:
Heat pumps, batteries and other devices can be monitored and controlled via the KNX APP-Control app

5. Weather Forecast
- Weather forecast for the next 4 days: In the app you can see the prediction for the next hours and days: Min./Max. temperature, wind, precipitation
- Use weather data for logical functions: The weather information can be used as a trigger for logic functions, e.g., if there is no rain in the next 24 hours, then activate the sprinkler installation

The ABB RoomTouch® family
As individual as your home

ABB RoomTouch® 4" and 5" are capacitive multi control HD-Touch displays. The operating concept and selection of functions can be configured individually.

With the user-friendly and customizable interface, all functions can be easily controlled, for example, by opening the blinds with a swipe up or closing them with a swipe down. You can also create personalized room scenes, control the panel by swiping through the menu or tapping to confirm an action such as turning on the lights.

ABB RoomTouch® 4"
Touch panel for ABB i-bus® KNX & ABB-free@home®
- 12 control functions
- KNX Data Secure for maximum data protection
- Up to 12 status information can be shown (e.g. fault / alarm messages)
- One random touch to activate a pre-defined "coming in" scene or function
- Haptic feedback (vibration)
- Integrated proximity and brightness sensor
- Integrated room temperature controller
- Anti-glare mode for use in dark, complementing the day and night mode of the device
- Flexible visualization (1-4 functions per page)
- Integrated binary input and external temperature sensor input

ABB RoomTouch® 5"
Horizontal or vertical touch panel for ABB i-bus® KNX
- Up to 30 control elements
- The full hand activates a pre-defined "coming in" scene or function
- Acoustic and haptic feedback
- Integrated proximity and brightness sensor
- Integrated room temperature controller
- Anti-glare mode for use in dark
- Integrated binary input
- Integrated external temperature sensor input
- Commissioning via ETS and DCA tool

Installation:
The displays only requires a standard flush mounting box and can therefore be installed quickly and without special accessories.
A 24 V DC supply is required as an additional power supply, which can be implemented, for example, via the second pair of wires in the bus line.

For additional protection, e.g. in public areas, the display can be optionally equipped with anti-theft protection to prevent removal or sabotage of the display.

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ABB RoomTouch® 4''

Compatibility with ABB i-bus® KNX, ABB-free@home®; optional coupling with external temperature sensors or conventional switches

Slim & timeless design in black and white with IPS glass display

Global availability thanks to compliance to standards including VDE, British Standard, and Swiss standard with standard installation boxes

Smooth usability when swiping with clear readability, flexible visualization (1-4 functions per page) and user-friendly UI

ABB RoomTouch® 5''

DESIGN AWARD 2021

reddot winner 2020

ICONIC AWARDS 2021 INNOVATIVE INTERIOR winner

Focus Open 2020 Silver
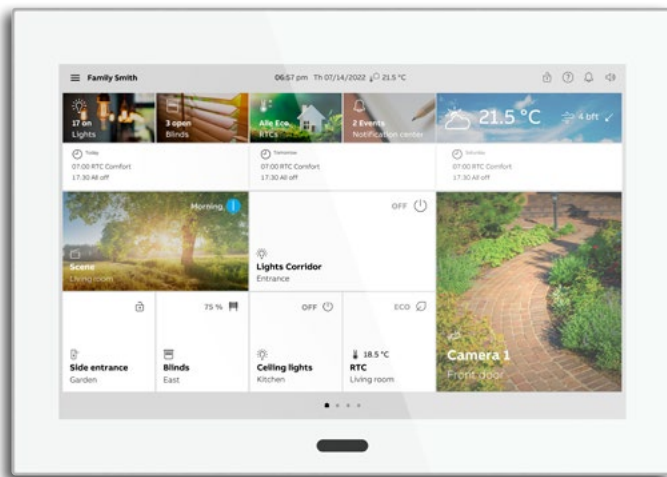
UX DESIGN AWARDS nominated 2020

GERMAN DESIGN AWARD WINNER 2021

KNX®

ABB SmartTouch® 10"
Elegant central control for smart buildings

ABB SmartTouch® 10" combines smart building automation ABB i-bus® KNX or ABB-free@home®, and ABB-Welcome door communication in one device, providing central monitoring and control of your smart building devices.

gold   rose gold   graphite   stainless steel

- Connect to the Welcome APP for remote door answering
- Integrate IP cameras over wi-fi connection
- Presence simulation
- Integrated induction loop for hearing aids
- Capacitive glass surface for swiping gestures
- Access and view the weather forecast for the coming 5 days

Choose to interact with the elegantly designed 10" IPS screen with 1280 x 800 resolution.

The high-quality capacitive display can be operated intuitively at the touch of a finger and with swipe gestures. This allows you to switch and dim the light, control the blinds and regulate the heating in the entire building, control time programs, audio devices and presence simulation via the tip of a finger.
Complete scenes can be created from all these functions to design your perfect environment for work, rest, or play. Time programs can also help you manage your energy consumption, for example by scheduling night-time modes to automatically close blinds and turn off lights.

Maximum convenience and security
With ABB SmartTouch® 10" there is no need for an additional indoor station for ABB-Welcome, door calls can now be simply received via the touchscreen or the matching App. Creating a whole new dimension of home control - with maximum convenience and security.

reddot award
product design 2022

reddot winner 2022
interface design

iF DESIGN AWARD 2022

GERMAN INNOVATION AWARD '22 WINNER

UX DESIGN AWARDS
nominated 2020

ICONIC AWARDS 2022
INNOVATIVE ARCHITECTURE
winner

Ready when you are
Providing up to 450 control elements ABB SmartTouch® 10" delivers all the capability you'll need when you are ready to grow and extend your smart building installation as you add new smart devices and appliances.

Control your way
Modify dashboards with a few clicks to display your favourite functions on the home screen putting you in control of your environment quickly and easily.

Stylish new addition to your home
The 14 mm thin design of the ABB SmartTouch® 10" offers a stylishly attractive appearance, whether installed flush-mounted or surface-mounted. And on a non-slip table stand it is also perfectly suited for reception counters or in bar areas. Available in 4 sophisticated and contemporary colors, Gold, Rose Gold, Graphite and Stainless Steel with Black or white glass ABB SmartTouch® 10" is sure to enhance any interior.

14 mm for 10",
flush mounted
installation

23 mm for 10",
surface mounted
installation

—
My Home
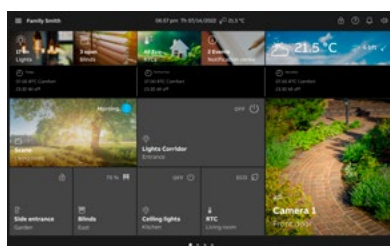
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Hotel
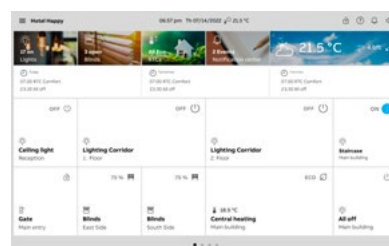
ABB-Welcome IP
IP touch

The IP touch 7 and 10 control panels are IP-based
and provide a far greater number of options for building control.

—
01 IP touch 7,
White glass

—
02 IP touch 7,
Black glass

—
03 IP touch 10,
Black glass

IP technology is dedicated to the creation of a
more intelligent community that can realize the
unlimited connection and control of devices.
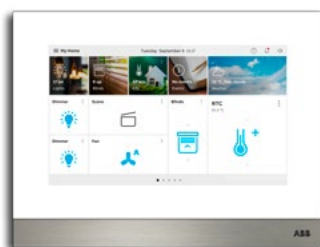It makes every home and building become a
comfortable and safe place.

Powerful and beautiful. The ABB's IP touch is
available in two timeless classic colors: white
and black glossy glass. The end strips are easily
changed with a variety of material and color
options, delivering the look you desire. The
integration with home and building automation
makes it the best universal visualization panel in
residential and non-residential areas.
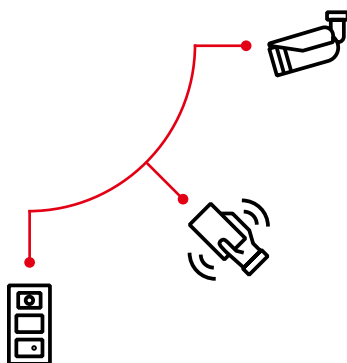
- With high resolution display
- Intuitive GUI on sliding screen
- Selection of installation box options
  ensure easy installation on all kind of
  walls
- Induction loop for hearing aid
- Only 7.8 mm depth when flush
  mounted
- Both LAN and Wifi version to connect
  to home network
- With up to 64 controls on the 7 and
  100 controls on the 10 divided over
  max. 8 pages
- Works with ABB-free@home®
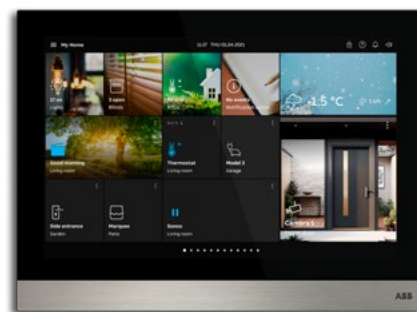- Works with ABB i-bus® KNX

GERMAN DESIGN AWARD WINNER 2020

GERMAN INNOVATION AWARD '20 WINNER

ICONIC AWARDS 2020 INNOVATIVE INTERIOR winner

Focus Open 2020 Silver

GOOD DESIGN
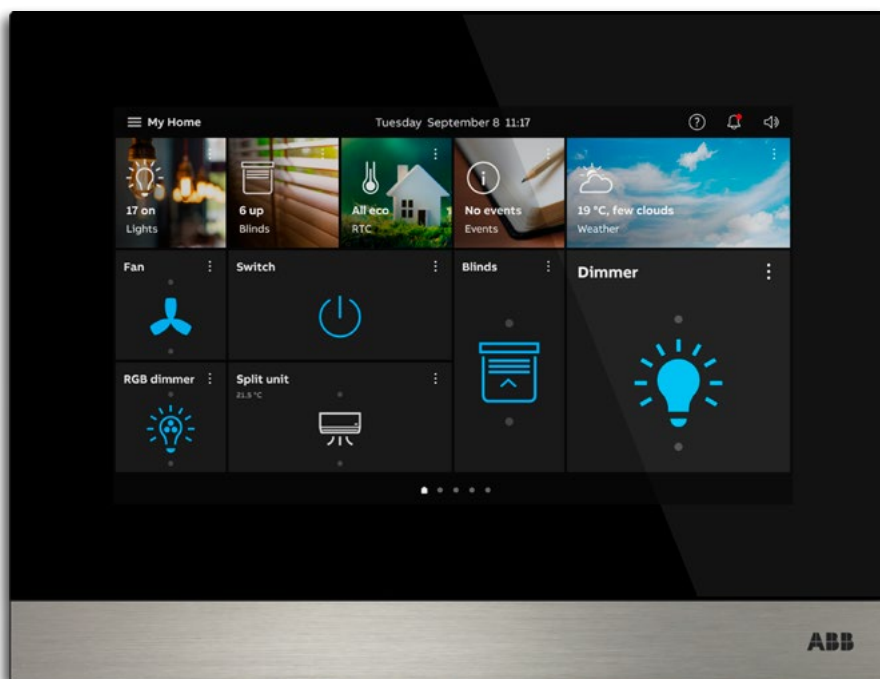
reddot winner 2020

01

02

03

7.8 mm for 7",
flush mounted
installation

22 mm for 7",
surface mounted
installation

—
01

Home and building dashboard
Main menu with easy settings for door
communication, video surveillance and home
automation. 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.

One device, all kinds of possibilities
Feel confident knowing what is going on when you
are away from home by viewing a snapshot image
or recorded video. It is also very easy when hosting
a party to leave an audio message or set the
automatic unlock time range.

Slim elegant design
Extremely slim in both flush and surface mounted
installations, featuring front frameless genuine
glass in black and white, it is incredibly beautiful
while powerfully functional.

—
01 Dashboard
—
02 Easy setup of the
panel with multiple
systems
—
03 Simplified wizard
for single home
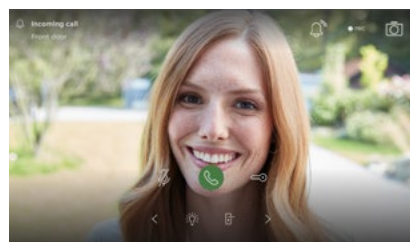configuraiton
—
04 Incoming call
—
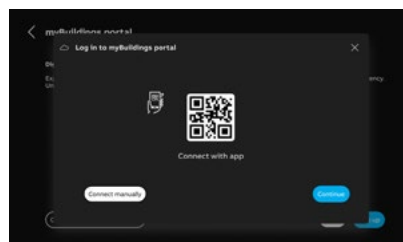05 App connection
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06 App
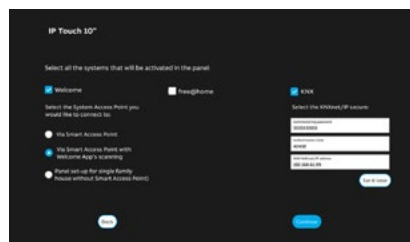
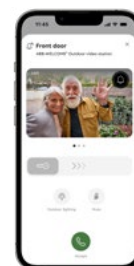—
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Busch-priOn®
The central control unit

Busch-priOn® allows you to control and monitor functions in the entire room. Light, scenes, timer, blind control unit, heating control unit – all functions are controlled simply and intuitively via a rotary knob, and freely programmable functions can be called up via the rocker switches. Busch-priOn® is a non-fixed, modular concept.

—
01 Rotary control element

—
02 3gang control element

—
03 Flush-mounted movement sensor

—
04 carat® glass black

—
05 3gang control element with single-line display and temperature controller

—
06 Rotary control element with 3gang control element

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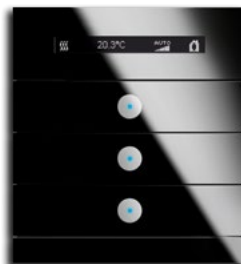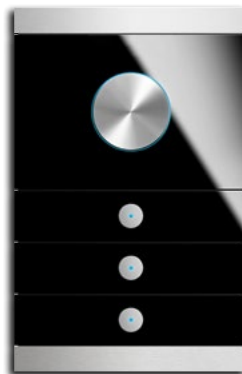07 Rotary control element with single-line display

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Busch-priOn® is ideal in combination with the carat® switch series, which has surfaces in the same design.

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06

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07

The rotary control element is equipped with a freely programmable button which can be pressed and turned. It can be used to switch and dim individual lamps, but also to switch on whole groups of lamps with one press of a button and vary their brightness continuously via the knob. The single control element is equipped with a freely programmable "large" operating button. It can be assigned to one function and can carry out a maximum of two commands. The triple-button control element is equipped with three freely programmable control buttons. Each can be assigned to one function and can carry out a maximum of two commands.

Light

Blinds — — Heating
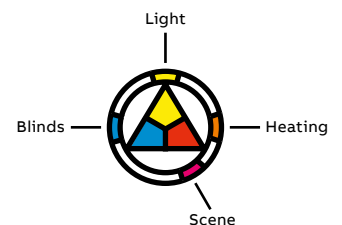
Scene

- Dimming, blinds, value, light scenes, logic functions, time functions
- Illuminated knob and colour-coding concept
- Anti-theft protection
- Day/night operation
- Replaceable labelling symbol

A single-line display with integrated room temperature controller has been designed for the Busch-priOn® 3gang control element, technically reduced to the basics and optically elegant. It is particularly easy to read due to the mono-chromatic design for white-on-black information. The room temperature controller, information functions like time and date, up to 17 freely programmable text displays, IR sensor and proximity sensor have been integrated into the display. The design of the display is available in the colour and material glass black only.

Operation is intuitive, supported by the colour-coding concept. It is possible to freely combine several Busch-priOn® elements with each other. The user can choose from three surface designs: black, blue and silver. Busch-priOn® is a non-fixed, modular-design system. The rocker switch element allows you to call up freely programmable functions such as light scenes, blind functions or specific lamps. The Busch-priOn® flush-mounted movement sensor can be used individually or with other Busch-priOn® modules. Practical because users thus do not have to look for the light switch and are greeted with light when first entering a dark room.

ABB Tenton®
Versatile in function and design

ABB has optimized its range of KNX room control units for commercial buildings and now offers easy-to-use room temperature controllers. The design and function of the operating elements can be selected according to your individual requirements and elements can be labeled individually.

—
01 Room temperature controller extension unit with control function 6gang ABB Tenton®

—
02 Room temperature controller with CO_2/ moisture sensor and control function 6gang ABB Tenton®

—
03 Room temperature controller extension unit with control function 10gang ABB Tenton®

—
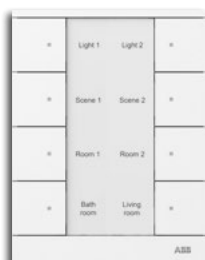04 Room temperature controller with CO_2/ moisture sensor and control function 10gang ABB Tenton®
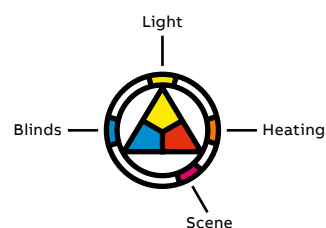
—
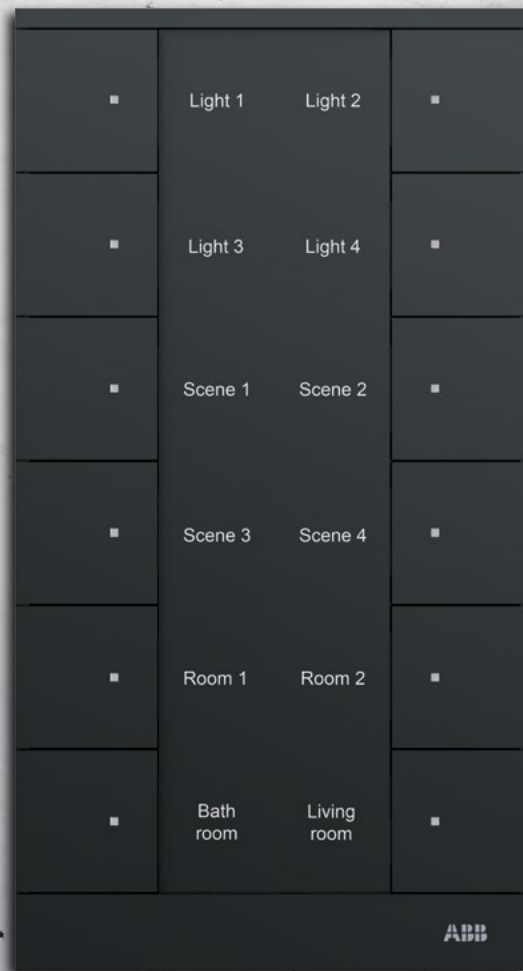05 Control element 8gang ABB Tenton®

—
06 Control element 12gang ABB Tenton®

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reddot award 2019 winner

Light

Blinds — Heating

Scene

Customized for You

For the clear designation of the ABB Tenton® control elements a labelling tool is available online with which you can position any text and instructive symbols individually for every product. The respective size can be freely selected from the recommended values. Your entries are displayed they way they will be seen later on the device. And this optionally on a foil in matt black with white text as well as aluminium silver or studio white with black text.
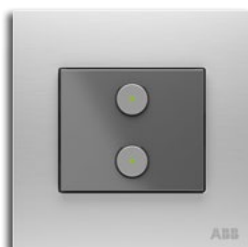
- Now also in studio white matt, matt black and aluminium silver
- Available with integrated room temperature controllers and CO₂/humidity sensor
- Surface and flush-mounted installation
- Controls all room functions from HVAC to shading and lighting
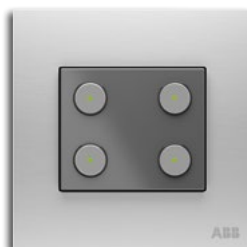
Millenium
Everything under control

Millenium is the first metal range with KNX technology, the most intelligent way to manage spaces and optimise performance in terms of energy savings. Millenium is based on a combinable concept, creating a comprehensive range suitable for all needs. This makes it the ideal collection for all types of homes, hotels, offices and shops.
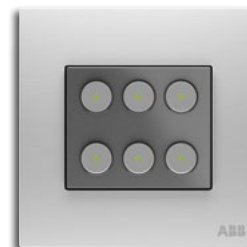
—
01 Switch Sensor
2gang KNX
—
02 Switch Sensor
4gang KNX
—
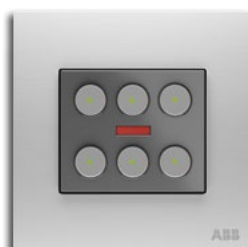03 Switch Sensor
6gang KNX
—
04 Switch Sensor
6gang KNX with IR
—
05 Busch-Watchdog
180° KNX
—
06 Room Thermostat
KNX

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The Millenium range is only available in
the following countries: China, Dubai, India, Kuwait, Oman, Qatar, Saudi Arabia, Singapore, UAE and UK. Frames and special mounting plates for KNX sensors have to be ordered from: ABB, S.A. Low Voltage Products Niessen, Oiartzun/Spain www.abb.es/niessen

—
The Millenium range offers special mounting plates for KNX sensors to reduce the height and improve the aesthetics for ultra-slim design. The KNX sensors allow the buttons to be replaced with desired symbols in order to adjust the sensors to specific design and needs like light, blind, scene, RTC or fan coil. Millenium offers a wide and elegant choice of finishes in stainless steel material: from brushed stainless steel, to the soft new touch given by silk black, and the luxury of the sophisticated gold finishes, matt gold and antique gold.
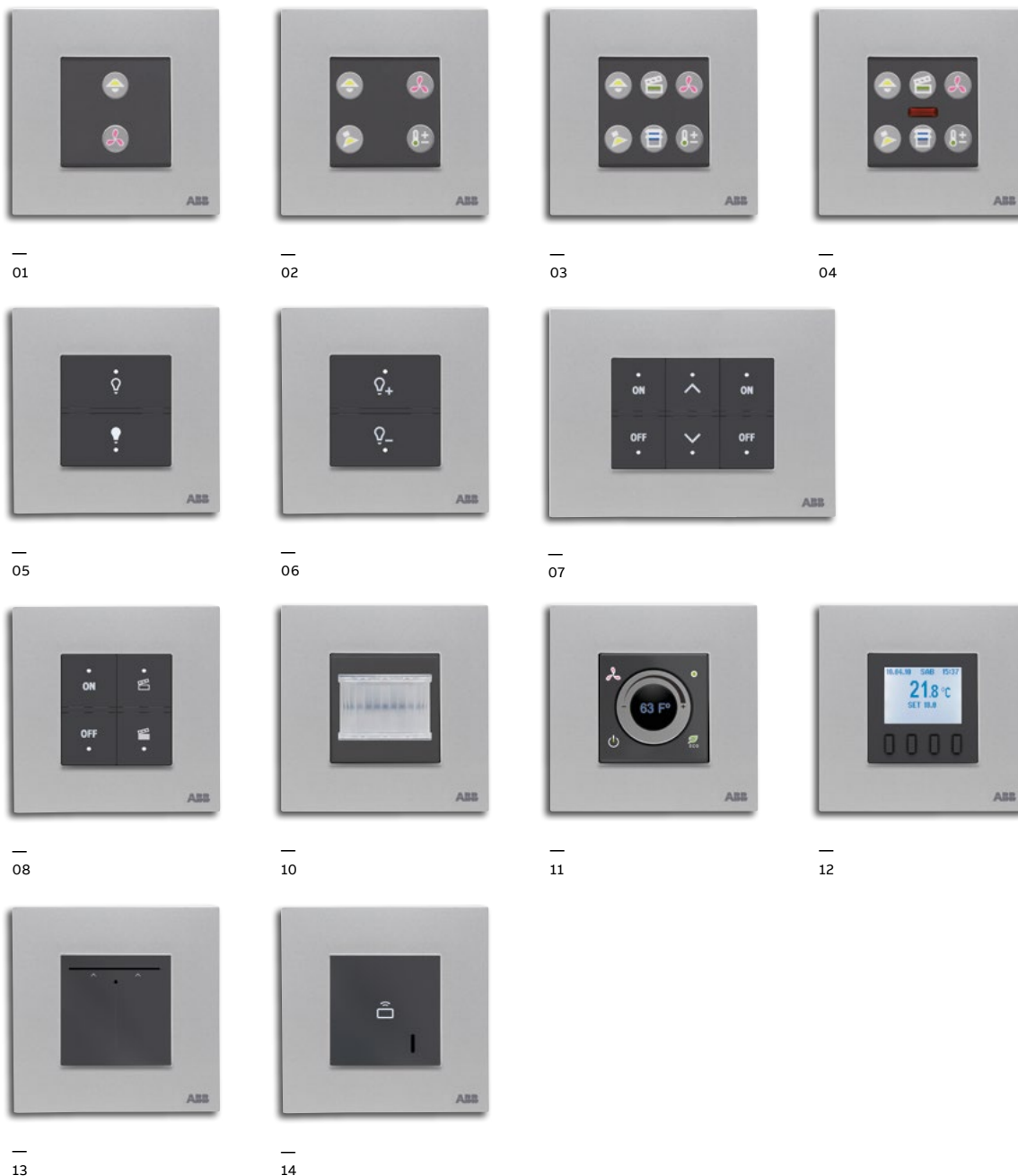
- Multiple functions:
  switching, dimming, blinds
  sending values, scenes, etc.
- Incl. 10 logic channels
- Sequence actuator
- Logic gates
- Control element: switch contacts
- Status/orientation light
  (red/green/OFF)

Zenit
Suitable for every need

Zenit is based on a combinable concept which, creating a comprehensive range, is suitable for all needs. Optimising comfort, safety and efficiency in homes and buildings. Providing comfort solutions to satisfy all types of needs and projects. Ensuring safety and protection of persons and goods. Saving energy by using only the amount of energy required.

—
01 Switch Sensor 2gang

—
02 Switch Sensor 4gang

—
03 Switch Sensor 6gang

—
04 Switch Sensor 6gang IR

—
05 Rocker switch actuator 1gang

—
06 Rocker sensor 2gang 2M

—
07 Rocker switch actuator 3gang

—
08 Rocker sensor 2gang 1M

—
09 Rocker blind actuator 1gang

—
10 Watchdog 180°

—
11 Room thermostat

—
12 Room thermostat

—
13 Transponder holder

—
14 Transponder reader

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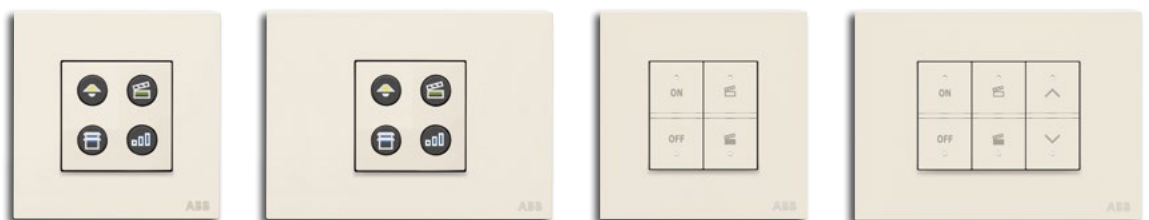
—
Zenit offers two different mounting plates for KNX sensors, corresponding to different market standards: Square boxes with 60 mm distance between screws and rectangular boxes with 83.5 mm distance between screws.

- Multiple functions:
  switching, dimming, blinds sending values, scenes, etc.
- Incl. 10 logic channels
- Sequence actuator
- Logic gates
- Control element: switch contacts
- Display elements: LED to indicate the function

Multifunction control elements
For various ranges with
LED colour-code concept

The multifunction control elements with LED colour-code concept.
Meeting the highest demands for comfort and technology. They come
with two RGB LEDs per rocker switch, which conform to a consistent
colour concept. This makes the function obvious at a glance, and the
rockers can be additionally fitted with pictograms. Each side of a
rocker switch can have its own function – each for calling up one
light scene, for instance. This turns a 4gang control element into
an 8gang control element.

—
01 Multifunction control element 1/2gang

—
02 Multifunction control element 2/4gang

—
03 Multifunction control element 4/8gang

—
04 Multifunction control element 2/4gang, integrated room thermostat

—
05 Multifunction control element 3/6gang with IR reception

—
06 Flush mounted movement detector standard

—
07 Flush mounted movement detector comfort switch

—
08 Flush mounted movement detector multi-lens
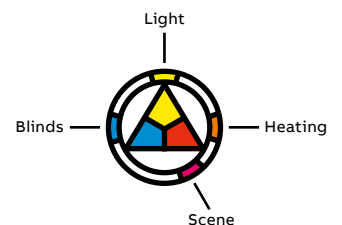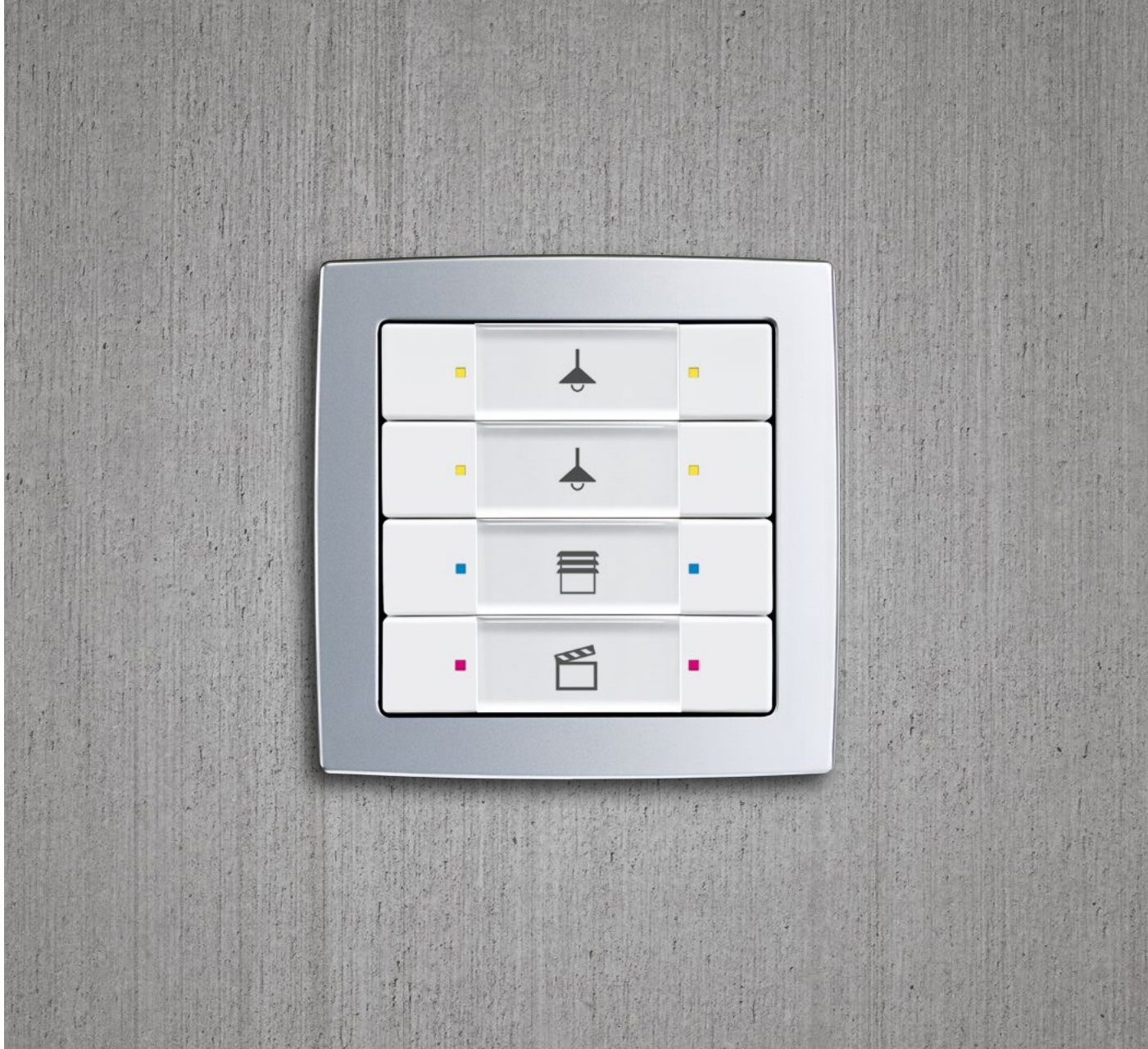
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Light

Blinds

Heating

Scene

—
Different shapes, colours and materials fulfil every requirement. KNX control elements are available in the carat®, pure stainless steel, solo®, Busch-axcent® and future® linear programmes. The complete range of conventional switches from these series is available, so there are no limits to the options for combining KNX components.

- Multiple functions:
  switching, dimming, blinds
- Push-button
- Value transmitter, value dimming sensor
- Light scene extension unit
- Step-type and multiple operation
- Labellable switch rockers
- LED colour code concept

Standard control elements
Quality as our basis

The standard control elements are available as 1/2gang, 2/4gang or 4/8gang models. Every switch rocker has two LEDs, which display the status of the connected loads. The separate switch rockers are freely programmable and are suitable for switching and dimming, as well as for operating blinds and as a light scene extension unit. They can also be used in commercial applications. Anti-vandal protection has also been integrated – an important factor for installations in public areas.
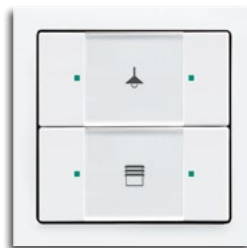
—
01 Standard control element, 1/2gang
—
02 Standard control element, 2/4gang
—
03 Standard control element, 4/8gang
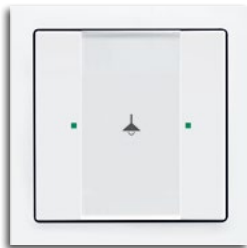
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03

- Multiple functions:
  switching, dimming, blinds
- Push-button
- Value transmitter, value dimming sensor
- Light scene extension unit
- Freely programmable
- Labellable switch rockers
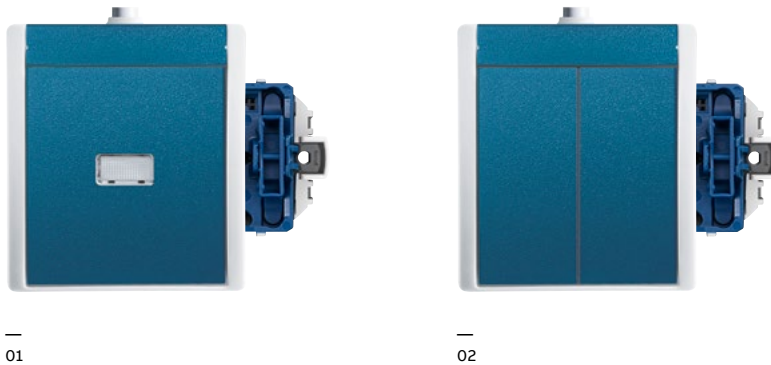- Status/orientation light (red/green/OFF)

Push-button coupling unit
The efficient solution for all
ABB switch ranges*

The push-button coupling unit with a centre position offers
maximum flexibility.

—
01 Push-button coupler,
1/2gang for ocean® with
integrated bus coupler

—
02 Push-button coupler,
2/4gang for ocean® with
integrated bus coupler

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01

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02

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Available in the ranges:
ocean®, carat®, pure stainless steel, alpha, basic55®, future® linear, solo®, Busch-axcent®

Design without limits
Installed in a flush-mounted wall box, it accepts
switch rockers from conventional switch ranges*
like a completely standard flush-mounted insert.
Covers from all conventional ranges can now be
used for KNX. This offers maximum freedom
in the selection of the switch range and makes
retrofitting easier.

The push-button coupling unit includes the
complete range* of switches for KNX. Switch
rockers from all switch ranges can now be
converted to KNX push buttons, which not
only switch on and off, but also dim or show the
status with an LED (6108/01 and 6108/04 only).
1gang and 2gang models for single and 2gang
switch rockers are available. Special models for
water-protected installation allow covers from,
for example, the ocean® surface-mounted range to
be used. This means that KNX sensors can also be
safely installed in a cellar, outside on a patio or in
commercial applications.
Temperature range: –25 °C to 45 °C

- Easy mounting and uncomplicated
  commissioning
- All flush-mounted switch ranges* can be used
  for the ABB i-bus® KNX
- Affordable solution for renovations
- Status/orientation light (red/green/OFF)
  (only with 1gang push-button/switches)
- Integration in surface-mounted water
  protected units

*Except impuls,
basic55® and
All Weather 44

Room thermostat fan coil
Surface-mounted with integrated bus coupler and display

Living and working with a feeling of well-being. And here the air in the room is one of the most important factors. Heated or air-conditioned rooms can be optimally adjusted – to a consistently pleasant ambience.

The KNX fan coil room temperature controller for stand-alone applications
The fan coil room temperature controller with display is a room temperature controller for ventilator convectors or conventional systems for heating and cooling. This option offers complete air conditioning for rooms. The temperature can be adjusted precisely for personal comfort. The fan speeds can be selected by push buttons. Even very large rooms can be heated or cooled to a comfortable temperature quickly – with additional air conditioning units. The KNX fan coil room temperature controller can be operated individually. The bus coupler is integrated into the control element.

- Very easy to operate with large, clear display
- Complete air conditioning
- Fan speeds can be manually selected
- Integrated bus coupler
- Surface-mounted, independent switching program
- Colours: studio white, aluminium silver

Functional building range
A custom-made solution for every project

The comprehensive KNX range enables you to be creative. Increasing demands made on versatile functionality in the functional building sector require the total compatibility of all components.

—
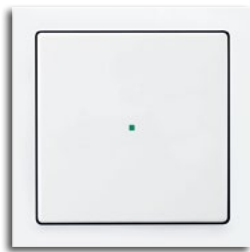01 Push-button coupler 2gang with integrated bus coupler

—
02 Push-button coupler 4gang with integrated bus coupler

—
03 6-fold KNX sensor

04 Flush mounted movement detector standard
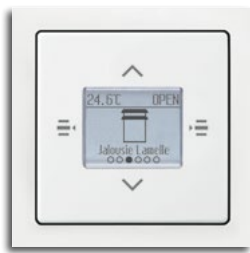
—
05 Flush mounted movement detector comfort switch

—
06 Flush mounted movement detector
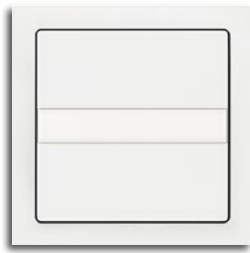
—
Available in the ranges: future® linear, basic55®, solo®, Busch-axcent®, carat®, pure stainless steel

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Available in the ranges: future® linear, basic55®, solo®, Busch-axcent®, carat®, alpha

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06

Innovative and space-saving
For everyone who desires maximum functionality in a minimum of space there is now an exclusive solution available. Because the new 6gang KNX sensor fits into a flush-mounted box. And thanks to its display, it is very easy to operate.

• Push-buttons with integrated temperature sensor
• Colour concept
• Sensors available with icons for easy operation
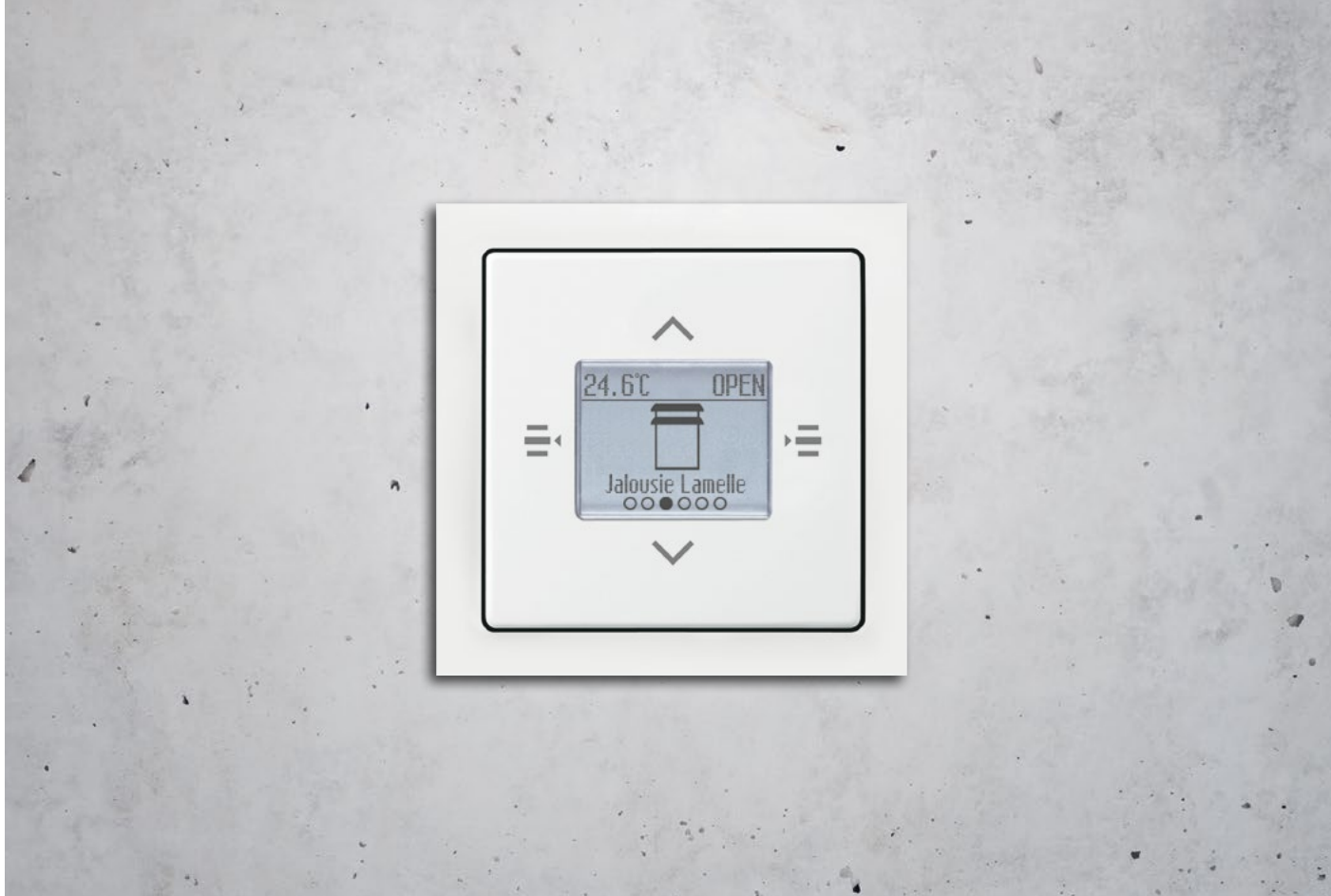
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03
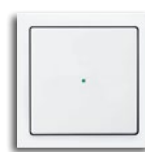
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A single standard creates flexible solutions

ABB i-bus® KNX allows all compact devices to be connected via KNX bus coupler and the native ETS application. Whether light, heating, blinds or the control of scenes – extended options with reduced effort. Compact devices with bus coupler are made o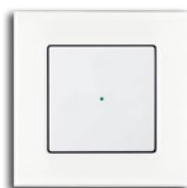perational via the native ETS application. The ABB colour code is used with each flush-mounted push-button coupling unit to display light, heating, blinds and scenes with matching switches and a clear overview. Also, temperature sensors are integrated. Up to five switches are connected to a single flush-mounted device via binary inputs.

Functional building range
Atmosphere is more than just temperature

The temperature in a room means more than merely the temperature. Proper balance is created with pleasant air quality and the correct room temperature. This is taken care of with the new sensors, which precisely measure several values: humidity, air pressure, temperature and – very important – the CO_2 content. Upper and lower limit values create an optimal working atmosphere: windows open and close and fans switch on and off.

—
01 Room temperature controller with display
—
02 Room temperature controller with universal input, 5gang
—
03 Room temperature controller/CO_2/humidity with universal input, 5gang
—
04 Room temperature controller*, Commercial, with 5gang universal input for heating/cooling operation, FM
—
05 Room temperature controller with 5gang universal input for heating/cooling operation, FM

—
01

—
Available in the ranges: basic55®, future® linear, solo®, Busch-axcent®, carat®, pure stainless steel
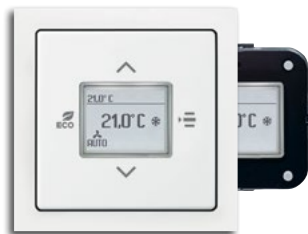
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Available in the ranges: basic55®, future® linear, solo®, Busch-axcent®, carat®, pure stainless steel and alpha

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*Available in the ranges: basic55®, future® linear, solo®, Busch-axcent®, carat®, pure stainless steel and alpha
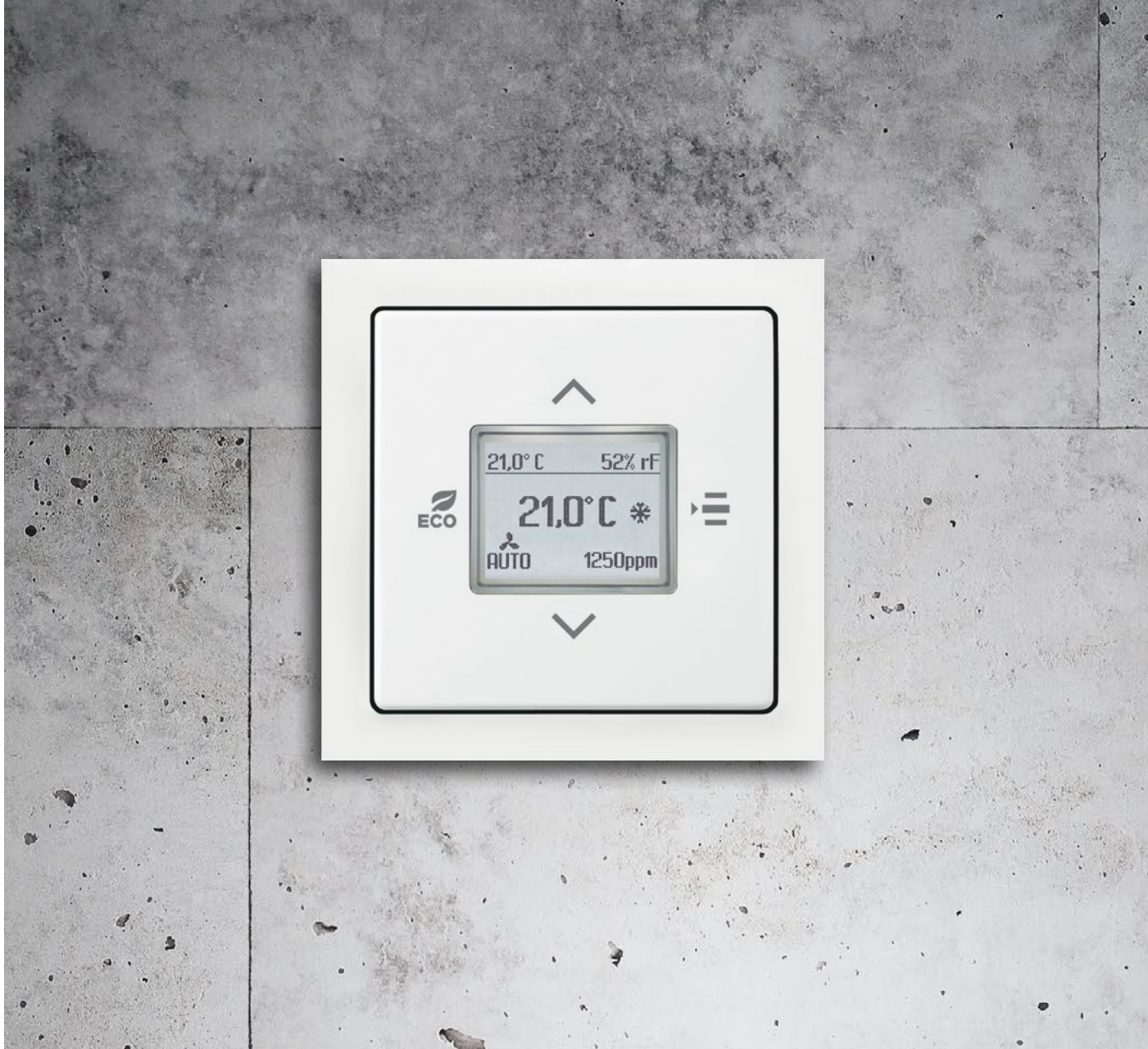
- One display for CO_2, humidity, temperature and air pressure
- Switching thresholds for CO_2 and humidity parameterisable via IKNX
- Red illuminated display when thresholds are exceeded
- Activation of window opener or fan
- Adjustable switch-off delay
- Easy programming

Danger source CO_2

The CO_2 value fluctuates considerably when people are present in meeting rooms, conference rooms and classrooms. To prevent discomfort, lack of concentration and drop in performance, the precise room air sensor monitors the CO_2 concentration and controls the ventilation system and windows fully automatically and subtly. It fits into the flush-mounted box and can be integrated into almost all ABB switch ranges. Clarity in every way.

The perfect connection. A pleasant and productive environment is created with building automation that functions as a holistic system, and combines various functions. For today and tomorrow.

KNX

	ABB SmartTouch® 10	ABB RoomTouch® 5"	ABB RoomTouch® 4"
Article no.	ST/U10.x.1-xxx	RT/U30.0.1-8xx	RT/U12.0.1-8xx
KNX control elements	450	30	12
Pages	25	10	15
Alarm messages	80	20	12
Notification via e-mail	–	–	–
Notification via push notification	–	–	–
Alarm control unit	–	–	–
LAN connection	–	–	–
Presence simulation	20 objects	–	–
Scenes	100	16	12
Logic functions	30	10	10
Internal RTC	3	1	2
RGB control element	■	■	■
Timers and schedulers	40 timers	10 timers	10 timers
ABB-Welcome IP	–	–	–
ABB-Welcome	Direct 2-wire	–	–
Favourites page	2	–	–
Operation via Smartphone	–	–	–
Operation via PC	–	–	–
Power supply	20 - 30 V DC	20 - 32 V DC	20 - 32 V DC
Touch	Capacitive	Capacitive	Capacitive
Cover	Glass	Glass	Glass
Display size	10 inch	5 inch	4 inch
Pixel	1280 x 800	720 x 1280	420 x 420

ABB Trevion® Display 2,4"	IP touch 7	IP touch 10	KNX APP-Control Server
SD/U12.xx.1-825	H8236-xx	H8237-xx	CT/S2.1
12	64	100	∞
15	8	8	∞
12	80	80	∞
–	–	–	■
–	–	–	■
–	–	–	–
–	■	■	■
–	10 objects	10 objects	∞
12	16	16	∞
10	10	10	200 and scripts
2	■	■	–
■	■	■	■
10 timers	10 timers	10 timers	∞
–	■	■	–
–	–	–	–
–	1	1	–
–	–	–	■
–	–	–	■
20 - 32 V DC	PoE or 24V DC	PoE or 24V DC	10 - 36 V DC
Capacitive	■	■	–
Glass	Glass	Glass	–
4 inch	7 inch	10 inch	–
420 x 420	1024 x 600	1280 x 800	–

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Technical data

Program	Busch-priOn® suitable for KNX bus coupler 6120/12-101 or 6120/13		(depending
	6340-xx-101 1/2gang	6341-xx-101 rotary control element	6342-xx-101 3/6gang
KNX function			
Switching, rocker switch total	∎	–	∎
Switching, rocker switch left/right	∎	∎	∎
Dimming, rocker switch total	∎	–	∎
Dimming, rocker switch left/right	∎	–	∎
Blind, rocker switch total	∎	–	∎
Blind, rocker switch total left/right	∎	∎	∎
Short-long operation, rocker switch left/right	∎	–	∎
Value sender, rocker switch total	∎	–	∎
Value sender, rocker switch left/right	∎	–	∎
Value dimming sensor, rocker switch total	∎	∎	∎
Red/green LED status illumination (red/green/off)	–	–	–
RGB LED function illumination + status illumination	1 LED per rocker switch	1 LED per button	1 LED per rocker switch
Setting the RTC operating mode	∎	–	∎
Value sender, 2 objects, rocker switch left/right	∎	–	∎
Light scene extension unit with light scene memory function	∎	–	∎
Level switch, rocker switch total	∎	–	∎
Level switch, rocker switch total left/right	∎	–	∎
Multiple operation, rocker switch left/right	∎	–	∎
IR remote control channels (up to 13 channels)	–	–	–
Light scene unit (8 scenes for up to 8 actuators)	–	–	–
Light scene unit (10 scenes for up to 10 actuators)	–	–	–
Programmable shift key	–	–	–
Proximity function	–	–	–
Room temperature controller only			
Temperature reading	–	–	–
RTC settings	–	–	–
Illuminated display	–	–	–
Fan coil operation for heating and cooling	–	–	–
Media box/CD/DVD/radio	–	–	–
Short-time timer	–	–	–
Weekly timer	–	–	–
Alarm clock	–	–	–
Messages	–	–	–
Screen saver	–	–	–
Display text/value	–	–	–
Device lock	–	–	–
Logic function (including light scenes)	∎	∎	∎
Busch-Watchdog 4 channels	–	–	–

on the specific combination)

6344-xx-101	6351-825-101 end strip top with information display, room temperature controller, IR receiver and proximity sensor + 6342-xx-101 3/6gang	6350-825-101 end strip top with IR receiver and proximity sensor	6352-xx-101 end strip bottom with temperature sensor
–	■	–	–
–	■	–	–
–	■	–	–
–	■	–	–
–	■	–	–
–	■	–	–
–	■	–	–
–	■	–	–
–	■	–	–
–	■	–	–
–	–	–	–
–	1 LED per rocker switch	–	–
–	■	–	–
–	■	–	–
–	■	–	–
–	■	–	–
–	■	–	–
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■	■	–	–
■	–	–	–
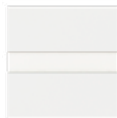
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Technical data

Program	Millenium				
	RS/U 2.1 2 rockers, 2 binary inputs	RS/U 1.1 1 rocker	RA/U 1.16.1 1 switch actuator 16A, 2 rockers	RA/U 2.8.1 2 switch actuators 8A, 2 rockers	RB/U 1.1 1 blind actua- tor 230V, 1 large rocker
KNX function					
Switching, button pair	■	■	■	■	■
Switching, button upper/lower	■	■	–	–	–
Dimming, button pair	■	■	■	■	■
Dimming, button upper/lower	■	■	–	–	–
Blind, button pair	■	■	■	■	■
Blind, button upper/lower	■	■	–	–	–
LED status illumination	■	■	■	■	■
Scene 1 byte	■	■	■	■	■
Scene - 5 objects 1 bit	■	■	■	■	■
KNX functions - binary inputs					
Switching	■	■	■	■	■
Switching, short-long operation	■	■	■	■	■
Dimming	■	■	■	■	■
Blind	■	■	■	■	■
Value transmitter	■	■	■	■	■
Scene 1 byte	■	■	■	■	■
Scene - 5 objects 1 bit	■	■	■	■	■
KNX functions - actuators					
Switch Actuator	–	–	■	■	–
Staircase lighting	–	–	■	■	–
Delayed ON/OFF	–	–	■	■	–
Logic	–	–	■	■	–
Scene	–	–	–	–	–
Shutter Actuator	–	–	–	–	■
Scene	–	–	–	–	■

Program	Zenit
	RT/U 1.1.xx Room thermostat

KNX function	
Switching	–
Dimming	–
Blind	–

Room Temperature Controller	
Temperature reading	■
RTC settings	■
Illuminated display	■
Fan coil operation for heating and cooling	■

Access Control	
Card Reading (MIFARE)	–
Switch Actuator	–
Electric lock delay (Linked to valid access control cards)	–
Delayed (Linked to valid access control cards)	–
Staircase lighting function (not linked to valid access control cards)	–
Scene (not linked to valid access control cards)	–

—

Technical data

Program	Multifunction control elements, suitable for KNX bus coupler 6120/12-101 and 6120/13			Movement detector control elements		
	6125/02 1/2gang 6126/02 2/4gang 6127/02 4/8gang	6129/01 3/6gang with IR	6128/28 2/4gang with RTC	Busch-Comfort switch® flex Control Element movement sensor with orientation light	Busch-Watchdog 180 flex comfort sensor with multi lense	Busch-Watchdog 180 flex comfort sensor with select lense
KNX function						
Switching, rocker switch total	■	■	■	■	–	–
Switching, rocker switch left/right	■	■	■	■	■	■
Dimming, rocker switch total	■	■	■	■	–	–
Dimming, rocker switch left/right	■	■	■	■	■	■
Blind, rocker switch total	■	■	■	■	–	–
Venetian blind, rocker switch total left/right	■	■	■	■	■	■
Short-long operation, rocker switch left/right	■	■	■	■	■	■
Value sender, rocker switch total	■	■	■	■	–	–
Value sender, rocker switch left/right	■	■	■	■	■	■
Value dimming sensor, rocker switch total	■	■	■	■	–	–
Red/green LED status illumination (red/green/off)	–	–	–	–	–	–
RGB LED function illumination + status illumination	Two LEDs per rocker switch	Two LEDs per rocker switch	Two LEDs per rocker switch	–	–	–
Setting the RTC operating mode	■	■	■	■	–	–
Value sender, 2 objects, rocker switch left/right	■	■	■	■	■	■
Light scene extension unit with light scene memory function	■	■	■	■	–	–
Level switch, rocker switch total	■	■	■	■	–	–
Level switch, rocker switch total left/right	■	■	■	■	■	■
Multiple operation, rocker switch left/right	■	■	■	■	■	■
IR remote control channels (up to 5 channels)	–	■	–	–	–	–
Room temperature controller only						
Temperature reading	–	–	■	–	–	–
RTC settings	–	–	■	–	–	–
Illuminated display	–	–	■	–	–	–
Fan coil operation for heating and cooling	–	–	■	–	–	–
Logic function (including light scenes)	■	■	■	■	■	■
Busch-Watchdog 4 channels	–	–	–	■	■	■
ABB						
basic55®	–	–	–	■	■	■
future® linear	■	■	■	■	■	■
alpha exclusive/nea	–	–	–	■	■	■
Busch-axcent®	■	■	■	■	■	■
solo®	■	■	■	■	■	■
pure stainless steel	■	■	■	■	■	■
carat®	■	■	■	■	■	■
ocean®	–	–	–	–	–	–
All Weather 44	–	–	–	–	–	–

	FM Watchdog with integrated bus coupler	Standard control elements, bus coupler included with package	FM push-button coupling unit with integrated bus coupler				
	6122/10 6122/10-BS-500	6125/01 1gang 6126/01 2gang 6127/01 4gang	6108/06 6108/06-BS 1/2gang	6108/07 6108/07-BS 2/4gang	6108/60 6-fold KNX sensor	6108/06-AP 1/2gang	6108/07-AP 2/4gang
	–	■	■	■	■	■	■
	–	–	■	■	–	■	■
	–	■	■	■	■	■	■
	–	–	■	■	–	■	■
	–	■	■	■	■	■	■
	–	–	■	■	–	■	■
	–	–	■	■	–	■	■
	–	■	■	■	■	■	■
	–	–	■	■	–	■	■
	–	–	■	■	■	■	■
	–	Two LEDs per rocker switch	–	–		1 LED	–
	–	–	One LED per rocker switch	One LED per rocker switch	–	–	–
	–	–	■	■	–	■	■
	–	■	■	■	–	■	■
	–	■	■	■	■	■	■
	–	–	■	■	■	■	■
	–	–	■	■	–	■	■
	–	–	–	–	–	–	–
	–	–	–	–	–	–	–
	–	–	■	■	■	–	–
	–	–	–	–	■ (only as slave)	–	–
	–	–	–	–	–	–	–
	–	–	–	–	■ (only as slave)	–	–
	■	–	–	–	–	–	–
	■	–	–	–	–	–	–
	–	–	■	■	■	■	■
	■	■	■	■	■	■	■
	–	–	–	–	■	■	■
	■	■	■	■	■	■	■
	■	■	■	■	■	■	■
	■	■	■	■	■	■	■
	■	■	■	■	■	■	■
	–	–	–	–	–	■	■
	–	–	–	–	–	■	■

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Technical data

Program	FM room temperature controller		
	6108/18 6108/18-BS	6109/18	6109/28
Control element			
Standard function	–	–	–
Additional function	–	–	–
Indication			
Display	∎	∎	∎
Actual temperature display	∎	∎	∎
Status display via text and/or ICON	–	∎	∎
RTC			
Manual operation	∎	∎	∎
Heating and/or cooling with/without additional stage	∎	∎	∎
Fan coil	∎	∎	∎
Master/slave	∎	∎	∎
Basic load	∎	∎	∎
Internal and/or external actual temperature sensor	∎	∎	∎
Internal actual temperature sensor	∎	∎	∎
Air quality			
CO_2	–	–	∎
Humidity	–	–	∎
Air pressure	–	–	∎
Universal input/binary input			
Switching/alarm	–	∎	∎
Dimming	–	∎	∎
Blind	–	∎	∎
Value	–	∎	∎
Scene	–	∎	∎
Switching sequences	–	∎	∎
Multi	–	∎	∎
Pulse counter	–	∎	∎
Universal analogue input e.g. external sensors			
0–10 V (external)	–	∎	∎
1–10 V (external)	–	∎	∎
Upper/lower threshold value	–	∎	∎
Universal input of external temperature sensor (PT1000 or 6226/T)			
Actual temperature sensor	–	∎	∎
Temperature limiter	–	∎	∎
ABB			
basic55®	∎	∎	∎
future® linear	∎	∎	∎
alpha exclusive/nea	–	∎	∎
Busch-axcent®	∎	∎	∎
solo®	∎	∎	∎
pure stainless steel	∎	∎	∎
carat®	∎	∎	∎
ocean®	–	–	–
All Weather 44	–	–	–

	6109/08	6109/05
	–	–
	–	–
	–	–
	–	–
	–	–
	–	–
	■	■
	■	■
	master only	master only
	■	■
	■	external only
	■	■
	–	–
	–	–
	–	–
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	■	■
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Technical data

Program	ABB tacteo® KNX			
Square (vert.) (86 mm x 86 mm)	TB/U1.1.1-CG	TB/U2.4.1-CG	TB/U4.4.1-CG	TB/U6.4.1-CG
Square (horiz.) (86 mm x 86 mm)		TB/U2.5.1-CG	TB/U4.5.1-CG	TB/U6.5.1-CG
Vertical (86 mm x 115 mm)	TB/U1.2.1-CG	TB/U2.7.1-CG	TB/U4.7.1-CG	TB/U6.7.1-CG
Horizontal (115 mm x 86 mm)	TB/U1.3.1-CG	TB/U2.8.1-CG	TB/U4.8.1-CG	TB/U6.8.1-CG
Premium customization	TB/U1-CG	TB/U2-CG	TB/U4-CG	TB/U6-CG
Control element				
Standard function	■	■	■	■
Additional function	■	■	■	■
Indication				
Display	–	–	–	–
Actual temperature display	–	–	–	–
Status display via text and/or ICON	–	–	–	–
RTC				
Manual operation	–	–	–	–
Heating and/or cooling with/ without additional stage	–	–	–	–
Fan coil	–	–	–	–
Master/slave	–	–	–	–
Basic load	–	–	–	–
Internal and/or external actual temperature sensor	–	–	–	–
Internal actual temperature sensor	■	■	■	■
Installation				
VDE	■	■	■	■
BS	■	■	■	■
IT (only as 115 mm x 86 mm)	■	■	■	■
NEMA (only as 86 mm x 115 mm)	■	■	■	■

	TR/U.1.1-CG	TBW/U.1.1-CG	TA/U3.1.1-CG
	TR/U.2.1-CG	TBW/U.2.1-CG	TA/U3.2.1-CG
	TR/U.3.1-CG	TBW/U.3.1-CG	TA/U3.3.1-CG
	TR/U-CG	TBW/U-CG	TA/U3-CG
	■	–	■
	■	–	–
	■	–	–
	■	–	–
	■	–	–
	■	–	–
	■	–	–
	■	–	–
	■	–	–
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	■	■	■
	■	■	■
	■	■	■
	■	■	■
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Technical data

Program	ABB tacteo® KNX		
Vertical (86 mm x 157 mm)	TB/U12.7.1-CG	TBR/U4.7.1-CG	TSN/U.2.1-CG
Horizontal (157 mm x 86 mm)	TB/U12.8.1-CG	TBR/U4.8.1-CG	
Premium customization	TB/U12-CG	TBR/U4-CG	TSN/U-CG
Control element			
Standard function	■	■	■
Additional function	■	■	–
Indication			
Display	–	■	–
Actual temperature display	–	■	–
Status display via text and/or ICON	–	■	–
RTC			
Manual operation	–	■	–
Heating and/or cooling with/ without additional stage	–	■	–
Fan coil	–	■	–
Master/slave	–	■	–
Basic load	–	■	–
Internal and/or external actual temperature sensor	–	■	–
Internal actual temperature sensor	■	■	■
Installation			
VDE	■	■	■
BS	■	■	■
IT (only as 157 mm x 86 mm)	–	–	■
NEMA (only as 86 mm x 157 mm)	■	■	■

Program	ABB Tenton®			
	SBS/U6.0.1-xx	SBR/U10.0.1-xx	SBC/U6.0.1-xx	SB/U12.0.1-xx
Control element				
Standard function	■	■	■	■
Additional function	■	■	■	■
Indication				
Display	■	■	■	–
Actual temperature display	■	■	■	–
Status display via text and/or ICON	■	■	■	–
RTC				
Manual operation	■	■	■	–
Heating and/or cooling with/ without additional stage	■	■	■	–
Fan coil	■	■	■	–
Master/slave	■	■	■	–
Basic load	■	■	■	–
Internal and/or external actual temperature sensor	■	■	■	–
Internal actual temperature sensor	■	■	■	■
Installation				
VDE	■	■	■	■
BS	■	■	■	■
IT	–	–	–	–
NEMA	■	■	■	■

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Technical data

Program	ABB Trevion®	
	KK/U4.55.1 KK/U4.63.1 KK/U4.70.1	SD/U12.55.11-825 SD/U12.63.11-825 SD/U12.70.11-4015
KNX function		
Switching, rocker switch total	■	■
Switching, rocker switch (2-Button)	■	■
Dimming, rocker switch total	■	■
Dimming, rocker switch (2-Button)	■	■
Sliding Dimming, rocker	■	■
Blind, rocker switch total	■	■
Venetian blind, rocker switch total (2-Button)	■	■
Sliding blinds, rocker	■	■
Switching sequence	■	■
Switching sequence (2-button)	■	■
Light scene extension unit with light scene memory function	■	■
Send value/Multiple operation	■	■
RGB-Control	–	■
Informationpage	–	■
Weekly-Timer	–	■
Alarmfunktion	■	■
Room temperature controller		
Internal RTC's	–	2
Temperature reading	–	⬚
RTC settings	–	⬚
Illuminated display	–	⬚
Fan coil operation for heating and cooling	–	⬚
RGB-Function/Status/Animation-LED	■	–
Internal Temperatursensor	■	■
Binary Input/ external temperatuzre sensor	–	■
Logic function (including light scenes)	■	■
ABB		
Busch-balance ® SI	■	■
future®/future® linear	■	■
Busch-axcent®/Busch-axcent® pur	■	■
solo®	■	■
pure stainless steel	■	■
carat®	■	■
Busch-Dynasty®	■	■

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Notes

ABB

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