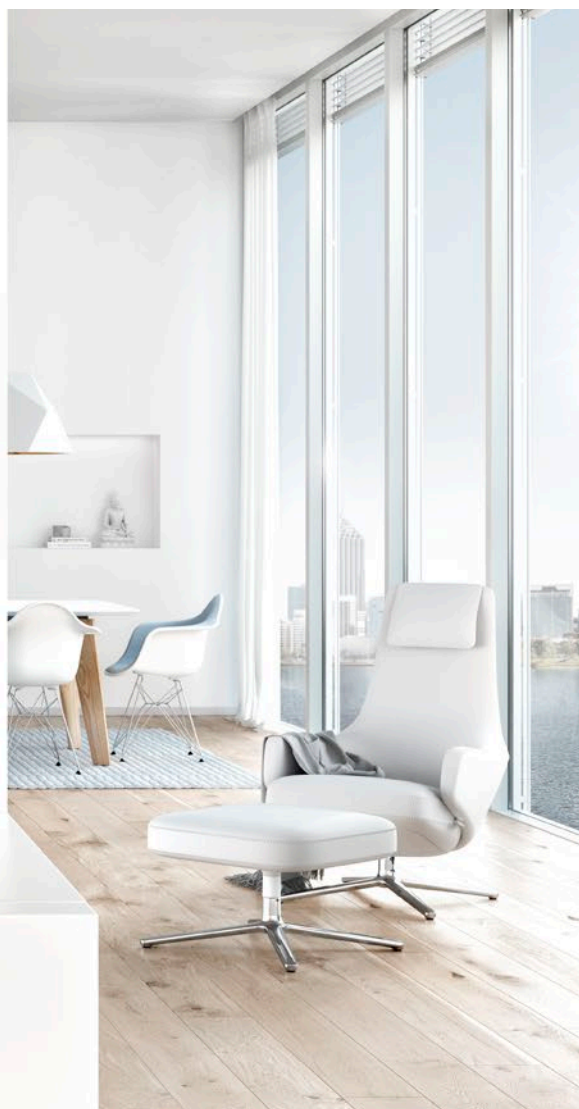




# ABB i-bus® KNX

Overview of KNX sensors and user operation

Rooms with intelligence. Modern building automation has become more efficient than ever in order to meet the many demands of people living and working in the building. Adaptable systems turn the modern functional building into a smart building. They create an environment in which communication and creativity can freely express themselves. Ideal for efficiency, perfect for the future.





# KNX sensors ABB i-bus® KNX

## Operation and display the direct way

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 KNX control elements form the interface between this state-of-the-art technology and the user. They provide comfort and security. They control lighting, heating, fresh air supply and blinds. They integrate media technology and the Internet. With Building Space®, ABB sets new

standards: 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

|                                |            |
|--------------------------------|------------|
| ABB tacteo® KNX                | page 6–7   |
| Busch-VoiceControl® KNX        | page 8–9   |
| Busch-ControlTouch® KNX        | page 10–11 |
| ABB RoomTouch®                 | page 12–13 |
| Busch-SmartTouch® KNX          | page 14–15 |
| ABB-Welcome IP touch           | page 16–17 |
| ABB i-bus® KNX IoT Dashboard   | page 18–19 |
| Busch-priOn®                   | page 20–21 |
| ABB Tenton®                    | page 22–23 |
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| Smart KNX devices              | page 42–43 |
| Technical data                 | page 44–54 |

### Further information

Further information can be obtained on the Internet, in our product, solution, and assortment brochures, or from the central sales service under +49 (0) 2351 956-1600.







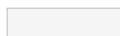
# ABB tacteo® KNX

## The individual touch

Intelligent control that adapts to your individual needs.



Black glass



White glass

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



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.



### Product overview



You can find the complete product range online at [abb.com/tacteo](http://abb.com/tacteo)



Six symbol control element

86 × 86



Four symbol control element with room temperature control

86 × 157



Room outside sensor with card reader

86 × 115



Motion detector Watch dog 180°

86 × 115



Room outside sensor with card reader and room number

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. The configurator can be found at:

<https://tacteo-configurator.eu.mybuildings.abb.com>



### Hotel access control

The ABB tacteo® KNX range offers secure access control for the hotel and hospitality industry. The sensor performs all the management tasks of a hotel operation, which can be controlled from a central point.



### 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.



# Busch-VoiceControl® KNX

## 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.

01 Busch-VoiceControl® KNX



01

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.



amazon alexa



Google Assistant



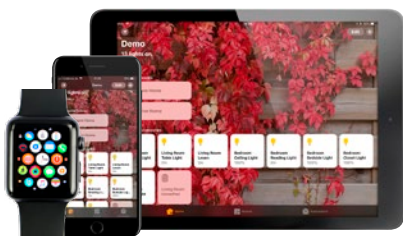
- Approved solution for three systems
- Integration of lighting, heating and blind control systems
- All three voice commands can be used simultaneously
- Control up to 150 functions
- HomeKit certification allows control of the KNX system from other HomeKit devices, such as the iPad, iPhone and Apple TV



[busch-jaeger.de/busch-voicecontrol](https://busch-jaeger.de/busch-voicecontrol)  
[abb.com/knx](https://abb.com/knx)



— Use HomePod to control functions via your Apple HomeKit connection



— Apple HomeKit



— Apple TV  
Apple HomePod



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



# Busch-ControlTouch® KNX

## Easy KNX remote control with mobile device

Busch-ControlTouch® KNX. Previously only operated via a switch, the KNX system can now be operated remotely using a smart device. Clear control for installer and customer alike.

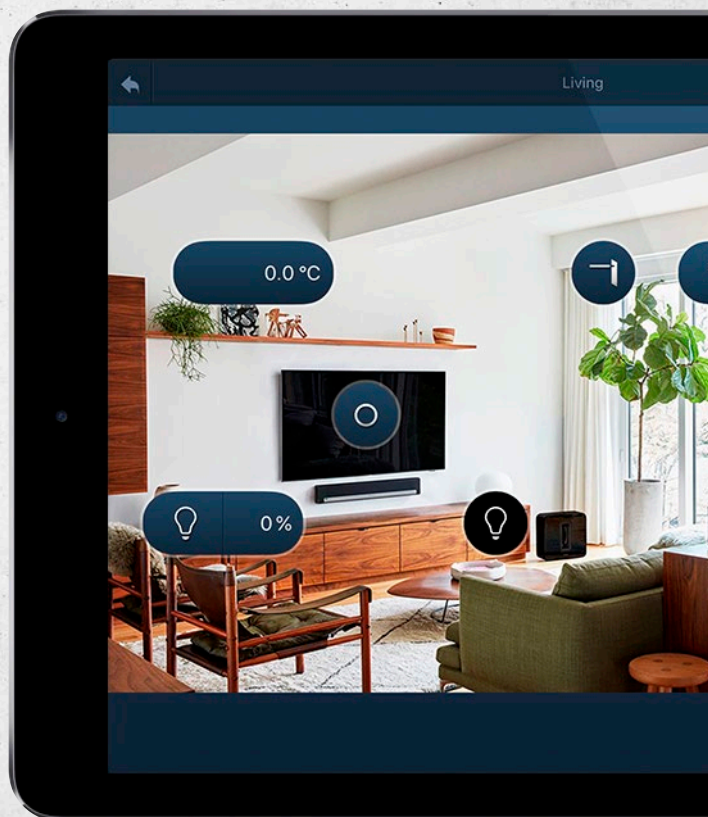
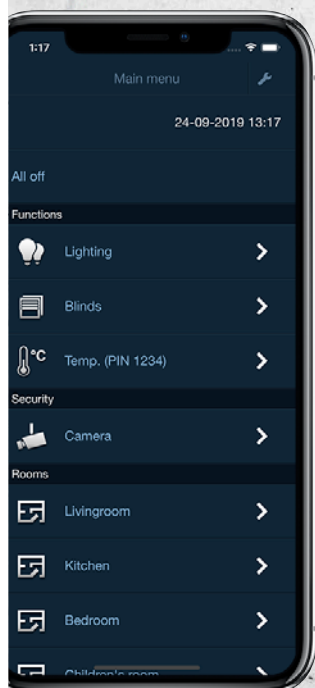


Smartphones, tablets and smartwatches turn into a practical remote control, thanks to Busch-ControlTouch® KNX. It connects the KNX installation with the IP network, allowing control of all KNX functions in the building. Applications for iOS and Android create intuitive operation, allowing switches, dimmers, 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. Busch-ControlTouch® KNX also enables the creation of individual logic scripts. The end customer can also activate remote control via ETS programming, without requiring a VPN tunnel. The compact system has a KNX, a LAN and a 5–36 V connection for an external power adaptor. It is additionally equipped with two buttons for restarts and two LED lamps for the display of status and connection.

The complete commissioning of the module and the changes are made web-based via the myABB-LivingSpace Internet portal. Easy upload from ETS projects allows a smooth engineering workflow, reducing time and money. GridView allows quick navigation and operation within two clicks. Suitable for private housing, offices, large housing complexes or commercial properties – the Busch-ControlTouch® KNX takes modern, intelligent living and working to the next level.





**KNX**



- For smartphones and tablets (iOS and Android) and Apple Watch
- Web-based commissioning
- Intuitive and comfortable operation
- IP cameras, UPnP devices (for instance Sonos wireless boxes) and Philips Hue lamps can be integrated
- Error and alarm messages via push messages

# ABB RoomTouch®

## As individual as your home

ABB RoomTouch® KNX is a capacitive multi control HD-TouchDisplay. The operating concept and selection of functions can be configured individually.

The ABB RoomTouch® KNX display is a capacitive multi control element for intelligent controlling of rooms either in residential homes or commercial applications such as hotel rooms, offices and medical practices. With a super slim 11 mm design, ABB RoomTouch® features a sleek metal frame and high-quality glass panel and is available in stylish black or white color finishes.

The user-friendly design with its easy and intuitive Iconography reduces the complexity of the device and allow all daily routines in smart living - from lighting, blinds, scenes, time programs to room temperature, data from your weather station and audio – to be easily controlled by one device. All functions can easily be controlled by gently swiping up for instance to

open the blinds or swiping down to shut them. Personalized room scenes can be created, such as a movie setting, where the blinds are closing, and the lights dim down, by one simple touch on the panel. The panel can also be controlled by sliding through the menu or tapping to confirm an operation like switching on the lights.

For added energy savings, the device features a quick standby mode when the room turns dark and turns on automatically when it senses the presence of someone close by. It also offers a day and night mode to complement the lighting of the room.

Before installation users can decide if they want to install it landscape or portrait.



Focus Open 2020  
Silver



nominated  
2020



red dot winner 2020



GERMAN  
DESIGN  
AWARD  
WINNER  
2021



- 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 ETS5 and DCA tool

The HD IPS touch display can be mounted in landscape format or portrait format for intelligent building control (alignment can be decided on-site)



# Busch-SmartTouch®

## Your control panel for smart buildings

The new Busch-SmartTouch® combines all the options of smart KNX control with modern door communication. Innovative and elegant. For every wall.

— 01 Busch-SmartTouch® black

— 02 Busch-SmartTouch® white



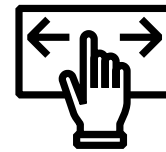
— 01



— 02



The Busch-SmartTouch® combines the functionality of smart home automation and the comfort of modern door communication. And it does this with an extremely slim, elegant device with a high-quality 7" touch panel whose capacitive glass surface makes operation possible with total ease. Fully intuitive, as with a smartphone - with the tip of the finger and swiping gestures.

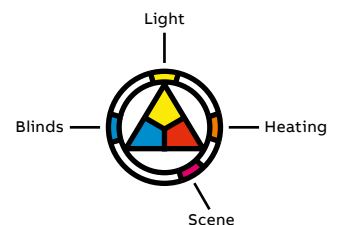


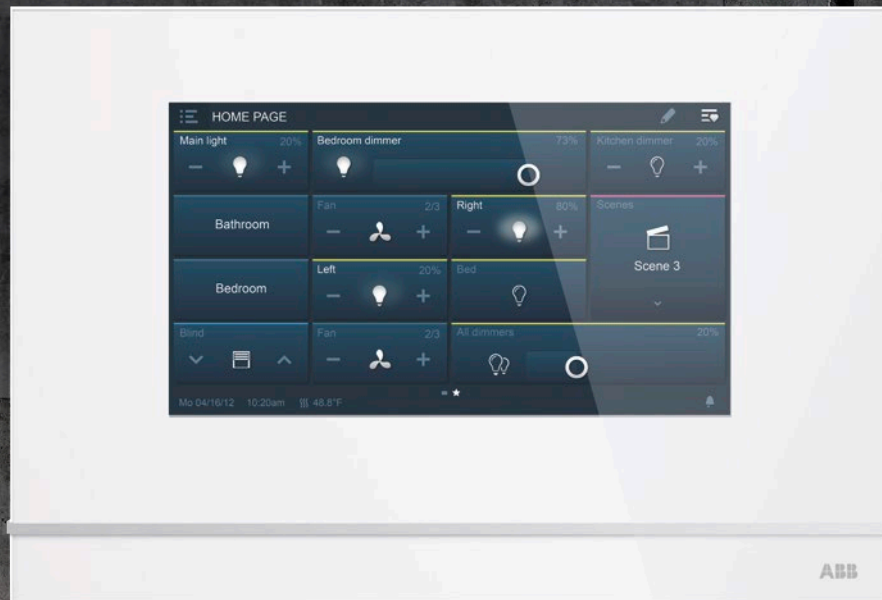
With its 13 mm thin design the Busch-Smart-Touch® always offers a stylishly attractive appearance everywhere, whether installed flush-mounted or surface-mounted. And on a non-slip table stand it is also perfectly suited for reception counters or in bar areas.

A total of 480 control elements can be implemented on up to 30 pages in familiar optics. The user can freely define his favourite page and also easily set up and control time programs.

### Colours that make life easier

A colour-coding concept and durable LED technology make Busch-SmartTouch® extremely easy to operate. The colouring provides feedback on the function currently selected. Yellow for lighting, blue for blind control, magenta for scenes and orange for heating control.





- Capacitive glass surface for swiping gestures
- Elegant bar made of brushed stainless steel
- Integrated induction loop for hearing aids

The indoor video station makes possible the smooth integration into ABB-Welcome with total comfort - without additional power supply. From video surveillance and up to image presentation. The new induction loop for hearing aids makes undisturbed communication and undistorted audio enjoyment possible.

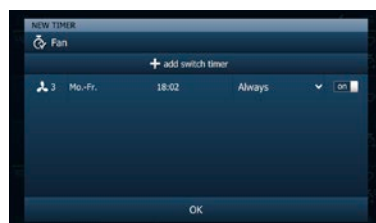
All KNX functions can be used via the clearly arranged user interface of the Busch-SmartTouch®. Such as switching and dimming of lights in the entire building, controlling blinds and regulating the heating. Or controlling time programs, audio devices and presence simulation via the tip of a finger.

The capability of the Busch-SmartTouch® knows no limits and opens totally new dimensions for home automation - with a high degree of comfort, safety and energy efficiency.

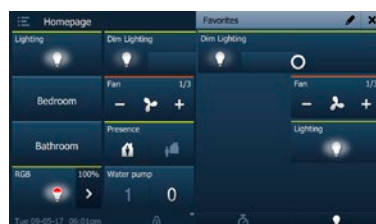
#### Door Entry



#### Time programs



#### Favorites



# ABB-Welcome IP

## IP touch

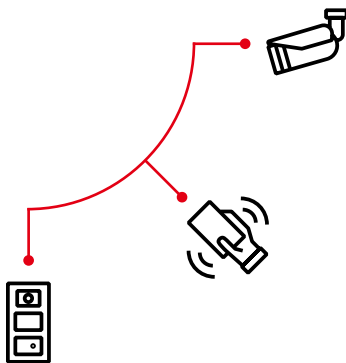
The IP touch 7" and 10" control panels are IP-based and provide a far greater number of options for building control.

- 01 IP touch 7", White glass
- 02 IP touch 7", Black glass
- 03 IP touch 10", Black glass

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

Powerful and beautiful. The new ABB's IP touch has the most two built-to-last colors: white and black glossy glass are available. The end strips are easy to change with varieties of material and colors optional. The integration with home and building automation makes it the best universal visualization panel in residential and non-residential areas.

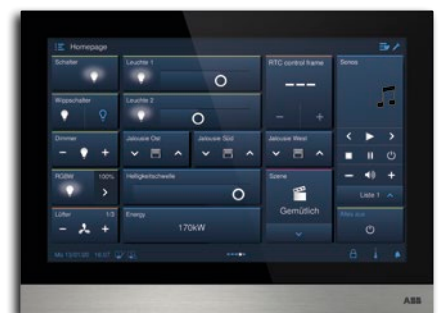
- With high resolution display
- Intuitive GUI on sliding screen
- Selection of installation box options ensure easy installation on all kind of walls
- Induction loop for hearing aid
- Only 7.8 mm depth when flush mounted
- Both LAN and Wifi version to connect to home network
- With up to 64 controls 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



01



02

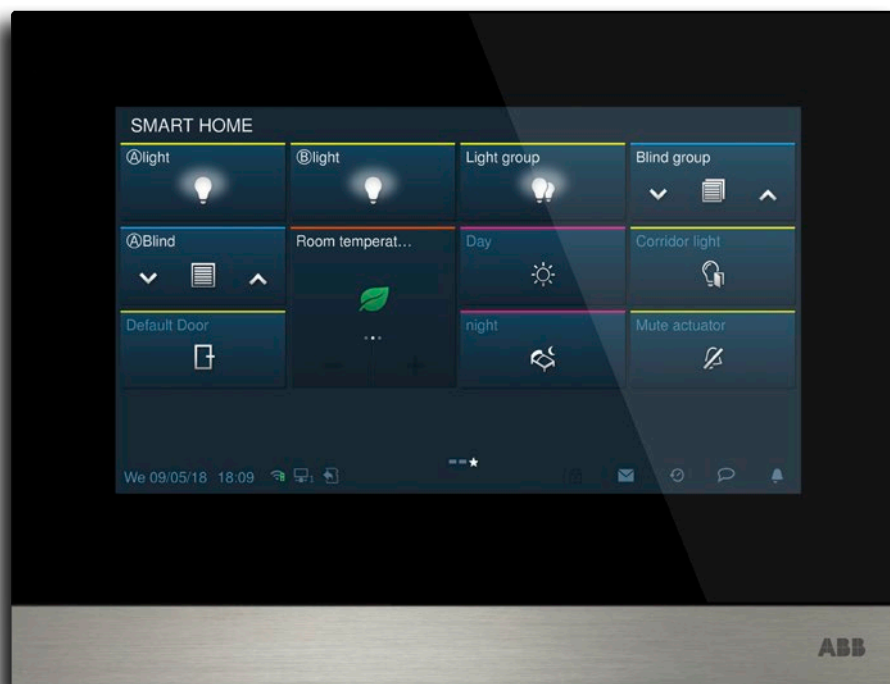


03



7.8 mm for 7",  
flush mounted  
installation

22 mm for 7",  
surface mounted  
installation



01

### Home and building dashboard

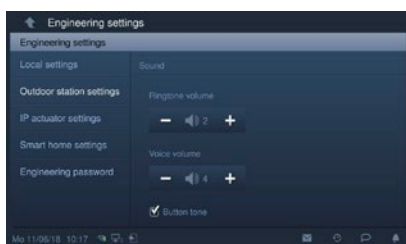
Main menu with easy settings for door communication, video surveillance and home automation. The new ABB's IP touch ensures that comprehensive functions in a room or entire building are centrally visualized, easy and intuitively operated in a comfortable and efficient manner.

### Look thin, and act changeable

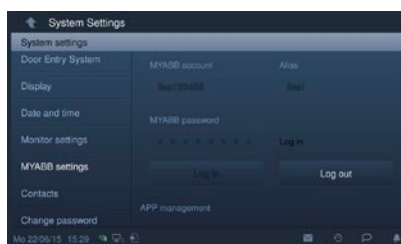
Extra thin passe-partout is really trend setting. Front frameless genuine glass in black and white plus easy changeable end strip with different color. Extremely slim in both flush and surface mounted situations represents this new series of indoor panels, in a combination of art and science.

One device, all kinds of possibilities. Reviewing of the snapshot image or recorded video when away from home, always feel confidence in knowing what is going on. It is also very easy when hosting a party to leave an audio message or set the automatic unlock time range.

- 01 Dashboard
- 02 Visualization tool
- 03 App connection
- 04 App
- 05 External intercom
- 06 Internal intercom



02



03



04



05



06

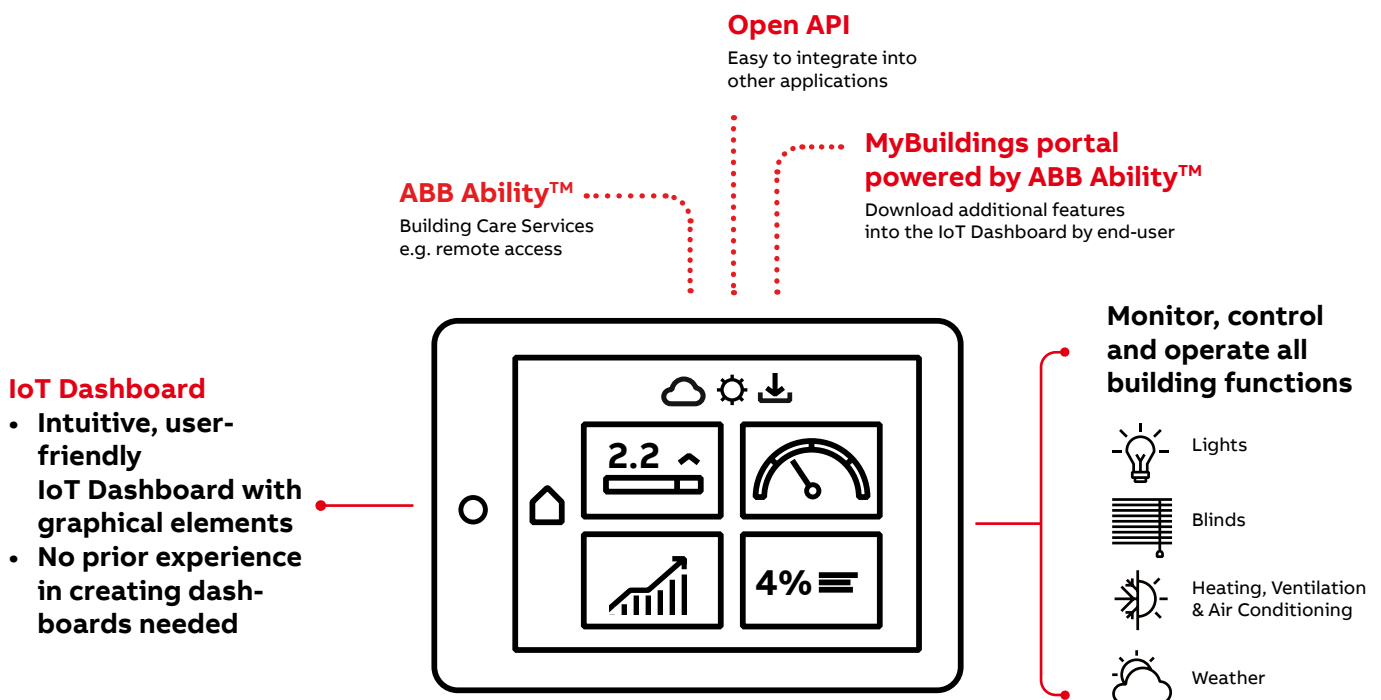
# ABB i-bus® KNX IoT Dashboard

## For mid-size commercial building automation solutions

User-friendly IoT Dashboard to make life easier for electrical installers and end users.

—  
01 IoT Dashboard  
Infographic

The IoT Dashboard is user-friendly and easy to use, giving electrical installers with no pre-knowledge of dashboards or visualization a simple route into the Smart Building market. The new IoT Dashboard comes with pre-programmed frames and allows strong control and monitoring of all automated building functions, from dimming and switching of lights to controlling blinds, heating and ventilation. It is a way to control Smart Buildings from any device, anywhere and at any time and helps building automation solutions to be more intuitive and responsive.



—  
Control all building functions with the new ABB IoT Dashboard



End-User

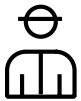
## IoT Dashboard



**ABB Ability™**  
Building Care Services  
e.g. remote access



- Intuitive, user-friendly IoT Dashboard with graphical elements
- No prior experience in creating dashboards needed



Electrical  
Installer

## ABB i-bus® KNX IoT Dashboard Tool

- Tool for Electrical Installer to create the IoT Dashboard
- Includes predefined modules & controls



## ABB i-bus® KNX IoT Dashboard ETS App (free of charge)

Download from:  
[my.knx.org/en/shop/ets-apps](http://my.knx.org/en/shop/ets-apps)

## ETS

Manufacturer independent configuration tool to design and configure intelligent home and building automation installations with the KNX system.

Easy creation of  
IoT Dashboard

Loading data from ETS into the IoT Dashboard Tool and possibility to work in the Tool and load board to ETS.

To do this, easily download the IoT Dashboard ETS App. It's the interface between ETS & IoT Dashboard Tool.

ABB i-bus® KNX  
IoT Dashboard Server



- IoT Dashboard allows controlling, monitoring and automation of building functions
- Easy configuration thanks to pre-programmed frames
- Fast data exchange from ETS project to the IoT Dashboard tool and vice versa
- Possibility to integrate website user interfaces from other devices
- Integration into other building functions thanks to its open API



# 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
- 07 Rotary control element with single-line display



01



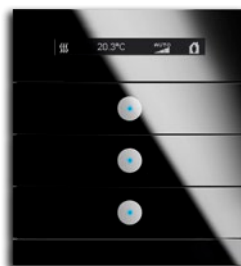
02



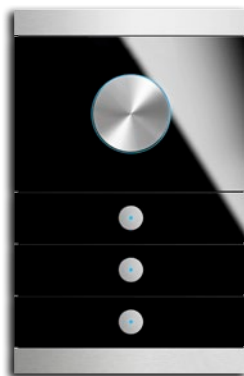
03



04



05



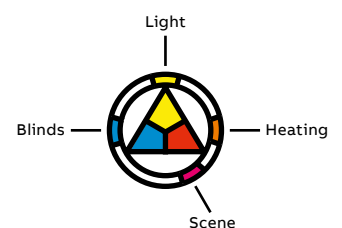
06



07

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

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.





- 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 monochromatic 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® sensors

## 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®



01

02 Room temperature controller with CO<sub>2</sub>/moisture sensor and control function 6gang ABB Tenton®



02

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



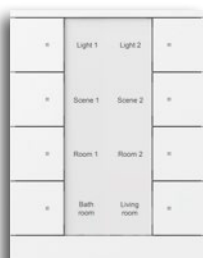
03

04 Room temperature controller with CO<sub>2</sub>/moisture sensor and control function 10gang ABB Tenton®



04

05 Control element 8gang ABB Tenton®



05

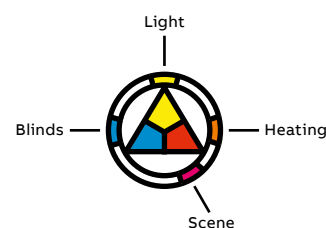
06 Control element 12gang ABB Tenton®



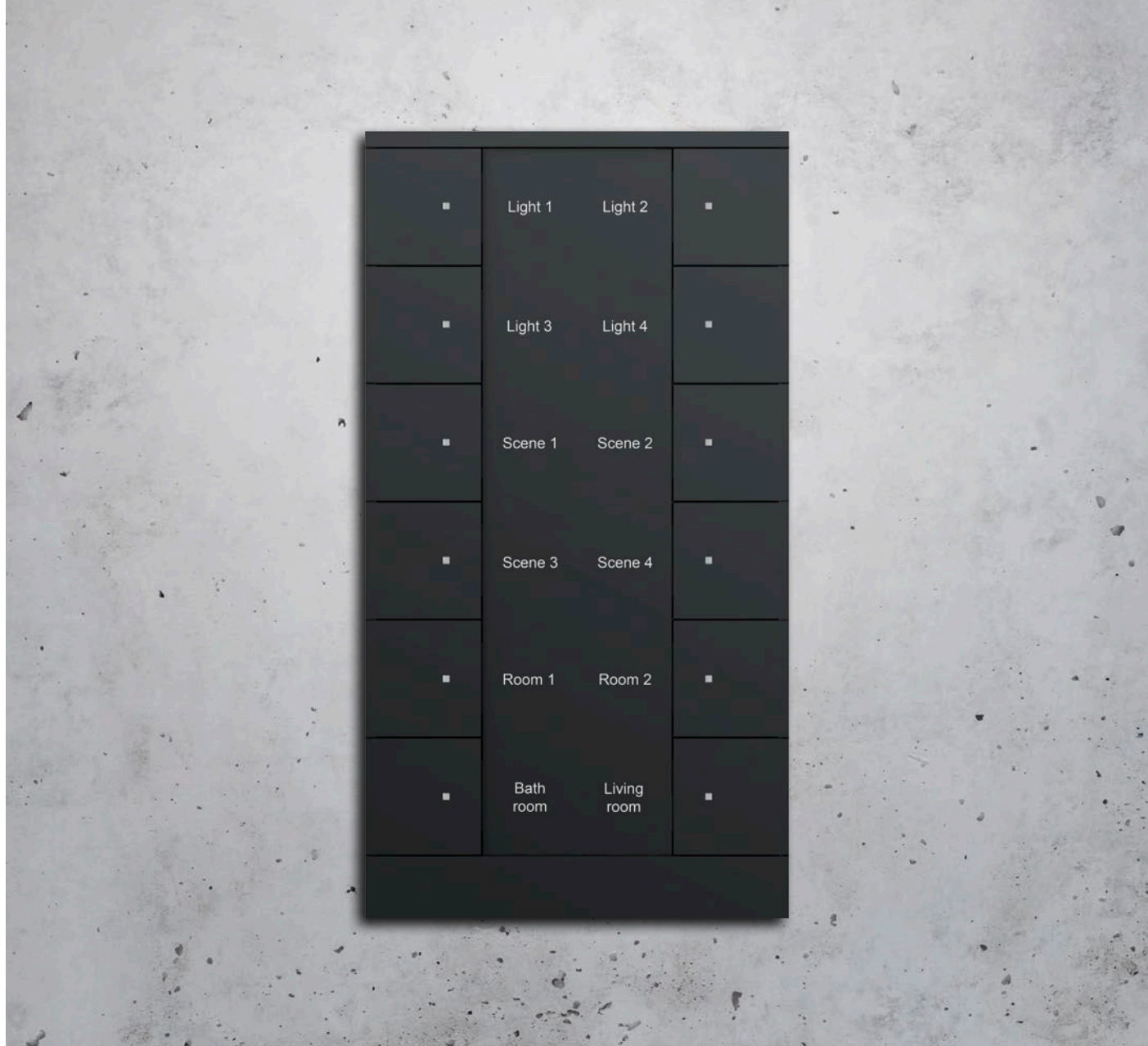
06



reddot award 2019  
winner







### 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 the 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 CO<sub>2</sub>/humidity sensor
- Surface and flush-mounted installation
- Controls all room functions from HVAC to shading and lighting

# Busch-triton®

## Elegant ergonomics

With freely programmable switch rockers, backlit label fields and IR sensor, Busch-triton® is ideal for any application and, with its elegant design, it is commonly installed in hotels and public areas. Busch-triton® is equipped with an integrated bus coupler and IR receiver. The unit is composed of control element and integrated bus coupler with everything required to control building systems elegantly and comfortably.

—  
01 1/2gang control  
element with rear-  
illuminated labelling  
area and IR reception



—  
01

—  
02 3/6gang control  
element with rear-  
illuminated labelling  
area and IR reception



—  
02

—  
03 5/10gang control  
element with rear-  
illuminated labelling  
area and IR reception

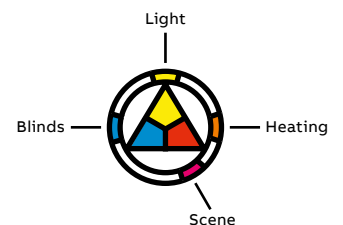


—  
03

—  
04 5/10gang control  
element with rear-  
illuminated labelling  
field, integrated room  
thermostat, LCD display  
and IR reception



—  
04





—  
The Busch-triton® is available in five stunning colours, offering exactly the right ambience for any environment. The colours offer exactly the right accent to the carat®, impuls, alpha and future® linear ranges – such as the use of the colour-coordinated socket outlets or motion detectors.

- Multiple functions:  
switching, dimming, blinds
- Value transmitter, value dimming sensor
- Light scene extension unit
- Step-type switch
- Short/long operation
- 13 freely programmable IR channels
- 8 light scenes
- LCD display room temperature controller

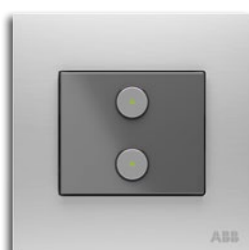


# Millenium KNX

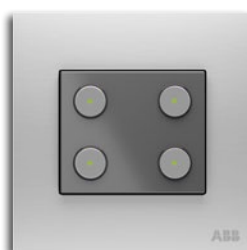
## Everything under control

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.

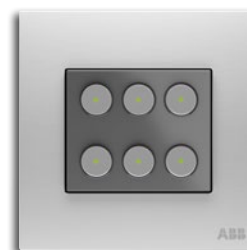
- 01 Switch Sensor  
2gang KNX
- 02 Switch Sensor  
4gang KNX
- 03 Switch Sensor  
6gang KNX
- 04 Switch Sensor  
6gang KNX with IR
- 05 Busch-Watchdog  
180° KNX
- 06 Room Thermostat  
KNX



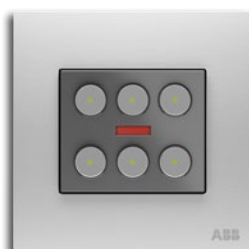
01



02



03



04



05



06

— 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 Nieszen, Oartzun/Spain [www.abb.es/niessen](http://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 KNX

## 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 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



01



02



03



04



05



06

— The Zenit VDE range is only available in the following countries: Spain, Portugal, Russia, France. The Zenit NEMA range is only available in the following countries: Latin America, Australia, Thailand, Vietnam. Sensors, 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](http://www.abb.es/niessen)





—  
Zenit offers two different mounting plates for KNX sensors, corresponding to different market standards: VDE and NEMA.



- 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 FM movement detector standard

— 07 FM movement detector comfort



— 01



— 02



— 03



— 04



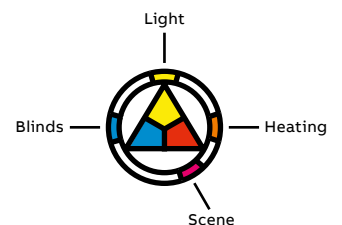
— 05



— 06



— 07







—  
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

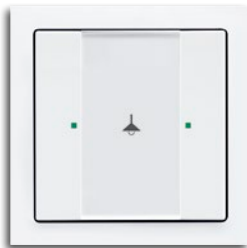
## Quality as our basis

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.

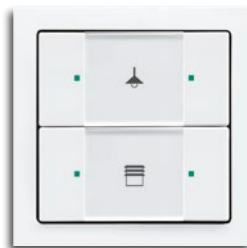
—  
01 Standard control  
element, 1/2gang

—  
02 Standard control  
element, 2/4gang

—  
03 Standard control  
element, 4/8gang



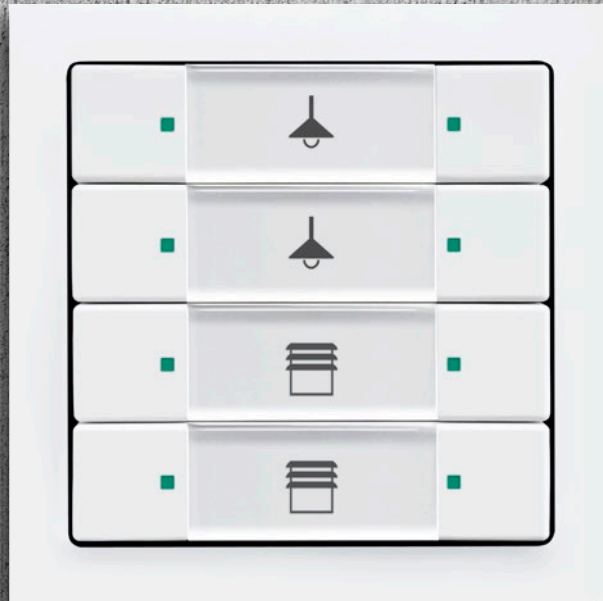
—  
01



—  
02



—  
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)

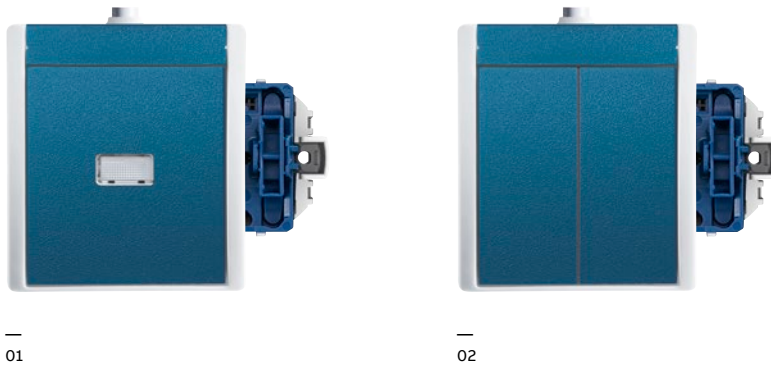
# Push-button coupling unit

## 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



—  
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





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## 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.

- 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

### **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.

# 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.

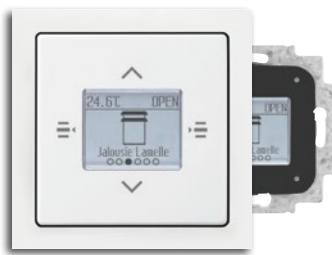


01



02

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



03



04

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

### 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.

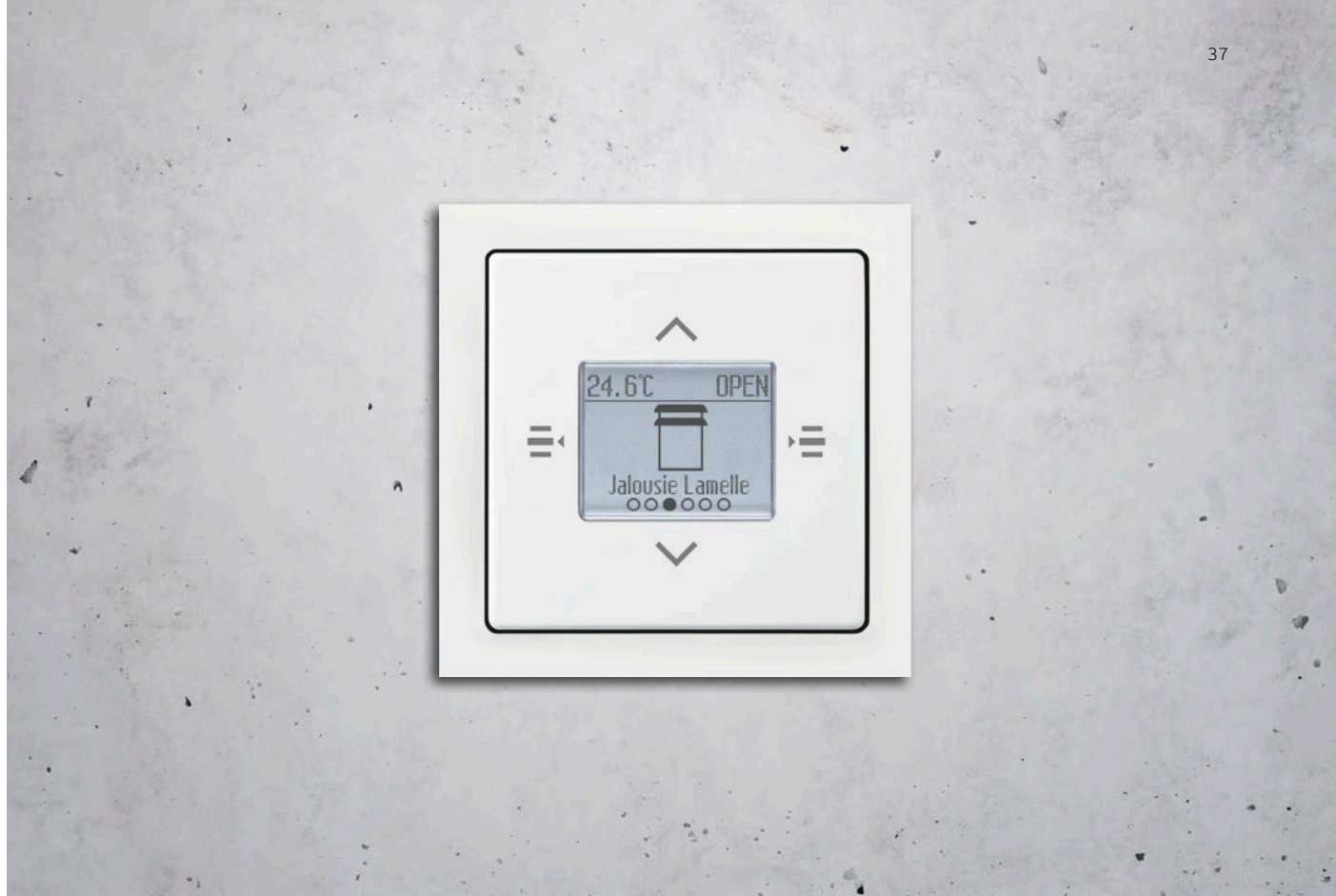
01 Push-button coupler  
2gang with integrated bus coupler

02 Push-button coupler  
4gang with integrated bus coupler

03 6-fold KNX sensor

04 Busch-Watchdog  
sensor 180FM  
standard, select

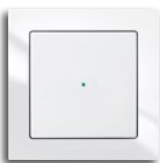
- Push-buttons with integrated temperature sensor
- Colour concept
- Sensors available with icons for easy operation



- 01 carat®
- 02 Busch-axcent®
- 03 solo®
- 04 future® linear
- 05 basic55®



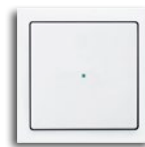
— 01



— 02



— 03



— 04



— 05

#### **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 operational 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<sub>2</sub> 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<sub>2</sub>/humidity with universal input, 5gang

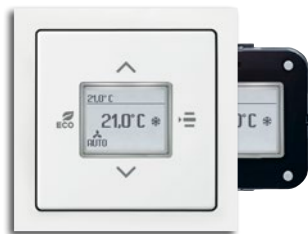
04 Room temperature controller\*, Commercial, with 5gang universal input for heating/cooling operation, FM

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



02



03

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

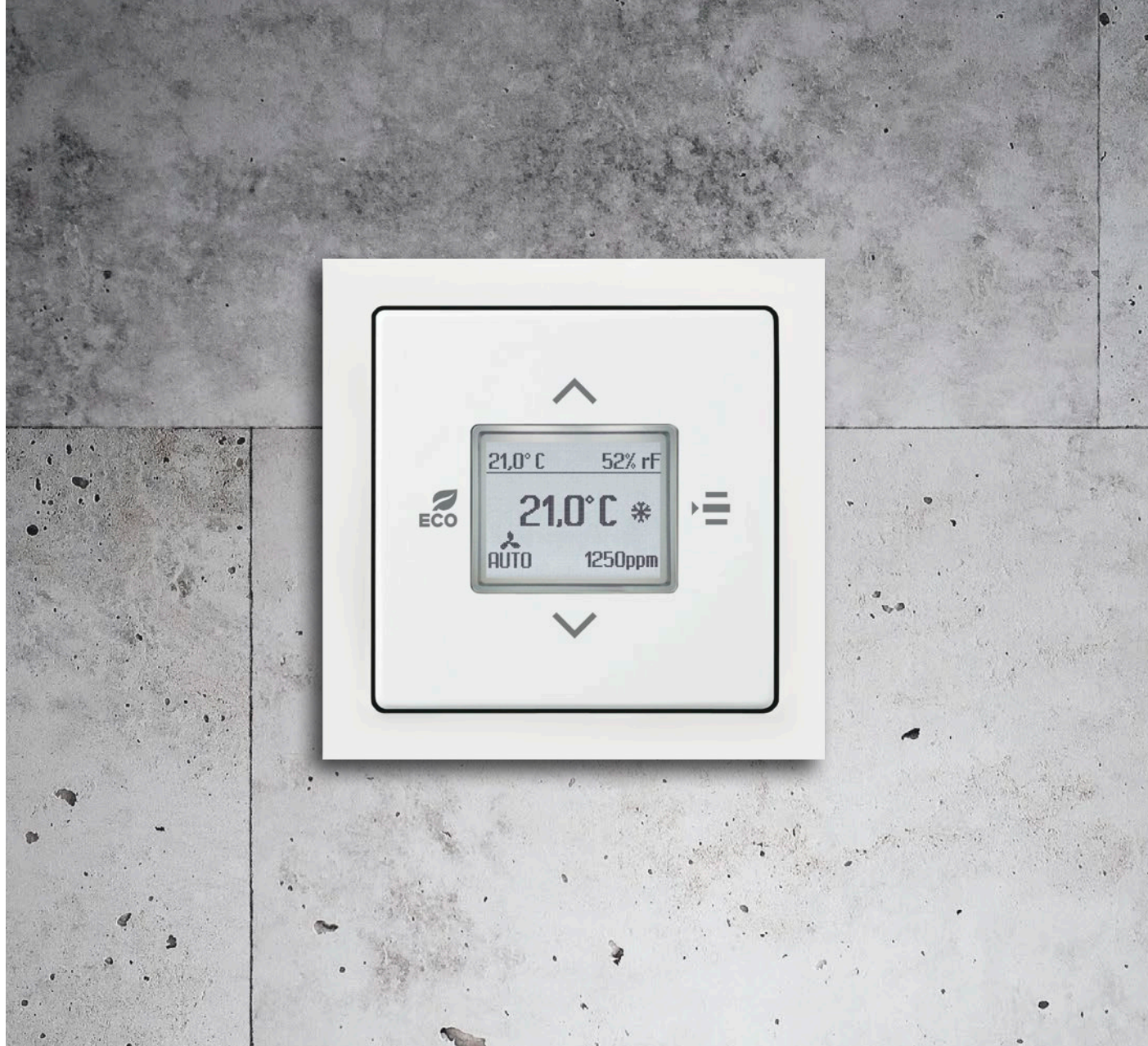


04



05

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



- One display for CO<sub>2</sub>, humidity, temperature and air pressure
- Switching thresholds for CO<sub>2</sub> 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<sub>2</sub>**

The CO<sub>2</sub> 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<sub>2</sub> 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.



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SMART BUILDING

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.







# Smart KNX devices

## Limitless possibilities

# KNX



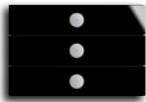
|                                    | <b>Busch-SmartTouch®</b> | <b>ABB RoomTouch®</b> |
|------------------------------------|--------------------------|-----------------------|
| Article no.                        | 6136/07-xx-500           | RT/U30.0.1-8xx        |
| KNX control elements               | 480                      | 30                    |
| Pages                              | 30                       | 10                    |
| Alarm messages                     | 80                       | 20                    |
| Notification via e-mail            | x                        | x                     |
| Notification via push notification | x                        | x                     |
| Alarm control unit                 | x                        | x                     |
| LAN connection                     | x                        | x                     |
| Presence simulation                | 20 objects               | x                     |
| Scenes                             | 100                      | 16                    |
| Logic functions                    | 30                       | 10                    |
| Internal RTC                       | 1                        | 1                     |
| RGB control element                | ✓                        | ✓                     |
| Timers and schedulers              | 30 timers                | 10 timers             |
| ABB-Welcome                        | Direct 2-wire            | x                     |
| Favourites page                    | ✓                        | x                     |
| Operation via Smartphone           | x                        | x                     |
| Operation via PC                   | x                        | x                     |
| Power supply                       | 20 - 30 V DC             | 20 - 32 V DC          |
| Touch                              | Capacitive               | Capacitive            |
| Cover                              | Glass                    | Glass                 |
| Display size                       | 7 inch                   | 5 inch                |
| Pixel                              | 600 x 1024               | 720 x 1280            |



| Busch-ControlTouch® | ABB i-bus® KNX IoT Dashboard  |
|---------------------|-------------------------------|
| 6136/APP-500        | DBS/S 1.1.1.1                 |
| ∞                   | 5,000                         |
| ∞                   | Up to 50 controls per page    |
| ∞                   | ✓                             |
| ✓                   | ✓                             |
| ✓                   | ✓                             |
| x                   | x                             |
| ✓                   | 2 x RJ45                      |
| ∞                   | n/a                           |
| ∞                   | 200                           |
| 200 and scripts     | x                             |
| x                   | ✓                             |
| ✓                   | ✓                             |
| ∞                   | 100 schedulers                |
| x                   | via page link                 |
| x                   | ✓                             |
| ✓                   | ✓                             |
| ✓                   | ✓                             |
| 5 - 36 V DC         | 9 - 36 V DC                   |
| -                   | depends on customer equipment |
| -                   | -                             |
| -                   | -                             |
| -                   | -                             |



## 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                                                                 |
| <b>KNX function</b>                                         |                                                                                   |                                                                                   |                                                                                     |
| 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                                          | –                                                                                 | –                                                                                 | –                                                                                   |
| <b>Room temperature controller only</b>                     |                                                                                   |                                                                                   |                                                                                     |
| 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)

Busch-triton® (next generation) Monoblock



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

6320/10 1/2gang  
6320/30 3/6gang  
6320/50 5/10gang6321/38 3/6gang with RTC  
6321/58 5/10gang with RTC

|   |                         |   |   |                         |                         |
|---|-------------------------|---|---|-------------------------|-------------------------|
| - | ■                       | - | - | ■                       | ■                       |
| - | ■                       | - | - | ■                       | ■                       |
| - | ■                       | - | - | ■                       | ■                       |
| - | ■                       | - | - | ■                       | ■                       |
| - | ■                       | - | - | ■                       | ■                       |
| - | ■                       | - | - | ■                       | ■                       |
| - | ■                       | - | - | ■                       | ■                       |
| - | ■                       | - | - | ■                       | ■                       |
| - | ■                       | - | - | ■                       | ■                       |
| - | -                       | - | - | 1 LED per rocker switch | 1 LED per rocker switch |
| - | 1 LED per rocker switch | - | - | -                       | -                       |
| - | ■                       | - | - | ■                       | ■                       |
| - | ■                       | - | - | ■                       | ■                       |
| - | ■                       | - | - | ■                       | ■                       |
| - | ■                       | - | - | ■                       | ■                       |
| - | ■                       | - | - | ■                       | ■                       |
| - | ■                       | - | - | ■                       | ■                       |
| - | ■                       | ■ | - | ■                       | ■                       |
| - | -                       | - | - | ■                       | ■                       |
| - | -                       | - | - | -                       | -                       |
| - | -                       | - | - | ■                       | ■                       |
| - | ■                       | ■ | - | -                       | -                       |
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| - | -                       | - | - | -                       | -                       |
| - | ■                       | - | - | -                       | -                       |
| - | -                       | - | - | -                       | -                       |
| ■ | ■                       | - | - | -                       | -                       |
| ■ | -                       | - | - | -                       | -                       |

## Technical data

| Program                                                                               | Millenium                                                                         |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                       |  |  |  |  |  |  |
|                                                                                       | 6125/20-500<br>1/2gang                                                            | 6126/20-500<br>2/4gang                                                            | 6129/20-500<br>3/6gang                                                            | 6129/21-500<br>3/6gang with<br>IR                                                   | 6122/20-500                                                                         | 6124/20-500                                                                         |
| <b>KNX function</b>                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Switching, button pair                                                                | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Switching, button upper/lower                                                         | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Dimming, button pair                                                                  | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Dimming, button upper/lower                                                           | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Blind, button pair                                                                    | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Blind, button upper/lower                                                             | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Short-long operation, button upper/lower                                              | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Value transmitter, button pair                                                        | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Value transmitter, button upper/lower                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Value dimming sensor, button pair                                                     | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Value dimming sensor, upper/lower                                                     | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| RGB LED function illumination + status illumination                                   | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Setting the RTC operating mode                                                        | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Value transmitter, 2 objects, button upper/lower                                      | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Light scene extension unit with light scene memory function                           | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Step switch, button pair                                                              | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Step switch, button upper/lower                                                       | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Multiple operation, button upper/lower                                                | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| IR remote control channels (up to 5 channels)                                         | –                                                                                 | –                                                                                 | –                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| <b>Room temperature controller only</b>                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Temperature reading                                                                   | –                                                                                 | –                                                                                 | –                                                                                 | –                                                                                   | –                                                                                   | ■                                                                                   |
| RTC settings                                                                          | –                                                                                 | –                                                                                 | –                                                                                 | –                                                                                   | –                                                                                   | ■                                                                                   |
| Illuminated display                                                                   | –                                                                                 | –                                                                                 | –                                                                                 | –                                                                                   | –                                                                                   | ■                                                                                   |
| Fan coil operation for heating and cooling                                            | –                                                                                 | –                                                                                 | –                                                                                 | –                                                                                   | –                                                                                   | ■                                                                                   |
| 10 logic channels (incl. light scene, actuator, sequence actuator, logic gates, etc.) | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | ■                                                                                   |
| Busch-Watchdog 4 channels                                                             | –                                                                                 | –                                                                                 | –                                                                                 | –                                                                                   | ■                                                                                   | –                                                                                   |



| Program                                                                               | Zenit                                                                             |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                       |  |  |  |  |  |  |
|                                                                                       | 6125/98-509<br>1/2gang                                                            | 6126/98-509<br>2/4gang                                                            | 6129/98-509<br>3/6gang                                                            | 6129/98-509<br>3/6gang with<br>IR                                                   | 6122/98-509                                                                         | 6124/88-509                                                                         |
| <b>KNX function</b>                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Switching, button pair                                                                | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Switching, button upper/lower                                                         | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Dimming, button pair                                                                  | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Dimming, button upper/lower                                                           | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Blind, button pair                                                                    | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Blind, button upper/lower                                                             | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Short-long operation, button upper/lower                                              | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Value transmitter, button pair                                                        | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Value transmitter, button upper/lower                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Value dimming sensor, button pair                                                     | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Value dimming sensor, upper/lower                                                     | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| RGB LED function illumination + status illumination                                   | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Setting the RTC operating mode                                                        | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Value transmitter, 2 objects, button upper/lower                                      | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Light scene extension unit with light scene memory function                           | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Step switch, button pair                                                              | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Step switch, button upper/lower                                                       | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| Multiple operation, button upper/lower                                                | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| IR remote control channels (up to 5 channels)                                         | –                                                                                 | –                                                                                 | –                                                                                 | ■                                                                                   | –                                                                                   | –                                                                                   |
| <b>Room temperature controller only</b>                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Temperature reading                                                                   | –                                                                                 | –                                                                                 | –                                                                                 | –                                                                                   | –                                                                                   | ■                                                                                   |
| RTC settings                                                                          | –                                                                                 | –                                                                                 | –                                                                                 | –                                                                                   | –                                                                                   | ■                                                                                   |
| Illuminated display                                                                   | –                                                                                 | –                                                                                 | –                                                                                 | –                                                                                   | –                                                                                   | ■                                                                                   |
| Fan coil operation for heating and cooling                                            | –                                                                                 | –                                                                                 | –                                                                                 | –                                                                                   | –                                                                                   | ■                                                                                   |
| 10 logic channels (incl. light scene, actuator, sequence actuator, logic gates, etc.) | ■                                                                                 | ■                                                                                 | ■                                                                                 | ■                                                                                   | –                                                                                   | ■                                                                                   |
| Busch-Watchdog 4 channels                                                             | –                                                                                 | –                                                                                 | –                                                                                 | –                                                                                   | ■                                                                                   | –                                                                                   |

## Technical data

| Program                                                     | Multifunction control elements, suitable for KNX bus coupler 6120/12-101 and 6120/13 |                                                                                   |                                                                                     |                                                                                     |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                             |     |  |  |  |
|                                                             | 6125/02 1/2gang<br>6126/02 2/4gang<br>6127/02 4/8gang                                | 6129/01 3/6gang<br>with IR                                                        | 6128/28 2/4gang<br>with RTC                                                         | 6122/01 standard                                                                    |
| <b>KNX function</b>                                         |                                                                                      |                                                                                   |                                                                                     |                                                                                     |
| 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)               | –                                                                                    | ■                                                                                 | –                                                                                   | –                                                                                   |
| <b>Room temperature controller only</b>                     |                                                                                      |                                                                                   |                                                                                     |                                                                                     |
| Temperature reading                                         | –                                                                                    | –                                                                                 | ■                                                                                   | –                                                                                   |
| RTC settings                                                | –                                                                                    | –                                                                                 | ■                                                                                   | –                                                                                   |
| Illuminated display                                         | –                                                                                    | –                                                                                 | ■                                                                                   | –                                                                                   |
| Fan coil operation for heating and cooling                  | –                                                                                    | –                                                                                 | ■                                                                                   | –                                                                                   |
| Logic function (including light scenes)                     | ■                                                                                    | ■                                                                                 | ■                                                                                   | ■                                                                                   |
| Busch-Watchdog 4 channels                                   | –                                                                                    | –                                                                                 | –                                                                                   | ■                                                                                   |
| <b>ABB</b>                                                  |                                                                                      |                                                                                   |                                                                                     |                                                                                     |
| basic55®                                                    | –                                                                                    | –                                                                                 | –                                                                                   | –                                                                                   |
| future® linear                                              | ■                                                                                    | ■                                                                                 | ■                                                                                   | ■                                                                                   |
| alpha exclusive/nea                                         | –                                                                                    | –                                                                                 | –                                                                                   | –                                                                                   |
| Busch-axcent®                                               | ■                                                                                    | ■                                                                                 | ■                                                                                   | ■                                                                                   |
| solo®                                                       | ■                                                                                    | ■                                                                                 | ■                                                                                   | ■                                                                                   |
| pure stainless steel                                        | ■                                                                                    | ■                                                                                 | ■                                                                                   | ■                                                                                   |
| carat®                                                      | ■                                                                                    | ■                                                                                 | ■                                                                                   | ■                                                                                   |
| ocean®                                                      | –                                                                                    | –                                                                                 | –                                                                                   | –                                                                                   |
| All Weather 44                                              | –                                                                                    | –                                                                                 | –                                                                                   | –                                                                                   |





## Technical data

| Program                                                                  | FM room temperature controller                                                    |                                                                                    |                                                                                     |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                          |  |  |  |
|                                                                          | 6108/18<br>6108/18-BS                                                             | 6109/18                                                                            | 6109/28                                                                             |
| <b>Control element</b>                                                   |                                                                                   |                                                                                    |                                                                                     |
| Standard function                                                        | –                                                                                 | –                                                                                  | –                                                                                   |
| Additional function                                                      | –                                                                                 | –                                                                                  | –                                                                                   |
| <b>Indication</b>                                                        |                                                                                   |                                                                                    |                                                                                     |
| Display                                                                  | ■                                                                                 | ■                                                                                  | ■                                                                                   |
| Actual temperature display                                               | ■                                                                                 | ■                                                                                  | ■                                                                                   |
| Status display via text and/or ICON                                      | –                                                                                 | ■                                                                                  | ■                                                                                   |
| <b>RTC</b>                                                               |                                                                                   |                                                                                    |                                                                                     |
| 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                                       | ■                                                                                 | ■                                                                                  | ■                                                                                   |
| <b>Air quality</b>                                                       |                                                                                   |                                                                                    |                                                                                     |
| CO <sub>2</sub>                                                          | –                                                                                 | –                                                                                  | ■                                                                                   |
| Humidity                                                                 | –                                                                                 | –                                                                                  | ■                                                                                   |
| Air pressure                                                             | –                                                                                 | –                                                                                  | ■                                                                                   |
| <b>Universal input/binary input</b>                                      |                                                                                   |                                                                                    |                                                                                     |
| Switching/alarm                                                          | –                                                                                 | ■                                                                                  | ■                                                                                   |
| Dimming                                                                  | –                                                                                 | ■                                                                                  | ■                                                                                   |
| Blind                                                                    | –                                                                                 | ■                                                                                  | ■                                                                                   |
| Value                                                                    | –                                                                                 | ■                                                                                  | ■                                                                                   |
| Scene                                                                    | –                                                                                 | ■                                                                                  | ■                                                                                   |
| Switching sequences                                                      | –                                                                                 | ■                                                                                  | ■                                                                                   |
| Multi                                                                    | –                                                                                 | ■                                                                                  | ■                                                                                   |
| Pulse counter                                                            | –                                                                                 | ■                                                                                  | ■                                                                                   |
| <b>Universal analogue input e.g. external sensors</b>                    |                                                                                   |                                                                                    |                                                                                     |
| 0–10 V (external)                                                        | –                                                                                 | ■                                                                                  | ■                                                                                   |
| 1–10 V (external)                                                        | –                                                                                 | ■                                                                                  | ■                                                                                   |
| Upper/lower threshold value                                              | –                                                                                 | ■                                                                                  | ■                                                                                   |
| <b>Universal input of external temperature sensor (PT1000 or 6226/T)</b> |                                                                                   |                                                                                    |                                                                                     |
| Actual temperature sensor                                                | –                                                                                 | ■                                                                                  | ■                                                                                   |
| Temperature limiter                                                      | –                                                                                 | ■                                                                                  | ■                                                                                   |
| <b>ABB</b>                                                               |                                                                                   |                                                                                    |                                                                                     |
| basic55®                                                                 | ■                                                                                 | ■                                                                                  | ■                                                                                   |
| future® linear                                                           | ■                                                                                 | ■                                                                                  | ■                                                                                   |
| alpha exclusive/nea                                                      | –                                                                                 | ■                                                                                  | ■                                                                                   |
| Busch-axcent®                                                            | ■                                                                                 | ■                                                                                  | ■                                                                                   |
| solo®                                                                    | ■                                                                                 | ■                                                                                  | ■                                                                                   |
| pure stainless steel                                                     | ■                                                                                 | ■                                                                                  | ■                                                                                   |
| carat®                                                                   | ■                                                                                 | ■                                                                                  | ■                                                                                   |
| ocean®                                                                   | –                                                                                 | –                                                                                  | –                                                                                   |
| All Weather 44                                                           | –                                                                                 | –                                                                                  | –                                                                                   |

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| 6109/08                                                                           | 6109/05                                                                           |
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| master only                                                                       | master only                                                                       |
| ■                                                                                 | ■                                                                                 |
| ■                                                                                 | external only                                                                     |
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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                                                                        |
| <b>Control element</b>                                   |                          |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| Standard function                                        |                          | ■                                                                                 | ■                                                                                 | ■                                                                                   | ■                                                                                   |
| Additional function                                      |                          | ■                                                                                 | ■                                                                                 | ■                                                                                   | ■                                                                                   |
| <b>Indication</b>                                        |                          |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| Display                                                  |                          | –                                                                                 | –                                                                                 | –                                                                                   | –                                                                                   |
| Actual temperature display                               |                          | –                                                                                 | –                                                                                 | –                                                                                   | –                                                                                   |
| Status display via text and/or ICON                      |                          | –                                                                                 | –                                                                                 | –                                                                                   | –                                                                                   |
| <b>RTC</b>                                               |                          |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| Manual operation                                         |                          | –                                                                                 | –                                                                                 | –                                                                                   | –                                                                                   |
| Heating and/or cooling with/<br>without additional stage |                          | –                                                                                 | –                                                                                 | –                                                                                   | –                                                                                   |
| Fan coil                                                 |                          | –                                                                                 | –                                                                                 | –                                                                                   | –                                                                                   |
| Master/slave                                             |                          | –                                                                                 | –                                                                                 | –                                                                                   | –                                                                                   |
| Basic load                                               |                          | –                                                                                 | –                                                                                 | –                                                                                   | –                                                                                   |
| Internal and/or external<br>actual temperature sensor    |                          | –                                                                                 | –                                                                                 | –                                                                                   | –                                                                                   |
| Internal actual temperature sensor                       |                          | ■                                                                                 | ■                                                                                 | ■                                                                                   | ■                                                                                   |
| <b>Installation</b>                                      |                          |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| 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 | TLM/U.1.1-CG | TKK/U.1.1-CG | TKM/U.1.1-CG |
|-------------|--------------|--------------|--------------|--------------|--------------|
| TR/U.2.1-CG | TBW/U.2.1-CG | TA/U3.2.1-CG | TLM/U.2.1-CG | TKK/U.2.1-CG | TKM/U.2.1-CG |
| TR/U.3.1-CG | TBW/U.3.1-CG | TA/U3.3.1-CG | TLM/U.3.1-CG | TKK/U.3.1-CG | TKM/U.3.1-CG |
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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                                                                        | TSM/U.2.1-CG                                                                        |
| Horizontal                                               | (157 mm x 86 mm)         | TB/U12.8.1-CG                                                                     | TBR/U4.8.1-CG                                                                     |                                                                                     |                                                                                     |
| <b>Control element</b>                                   |                          |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| Standard function                                        |                          | ■                                                                                 | ■                                                                                 | ■                                                                                   | ■                                                                                   |
| Additional function                                      |                          | ■                                                                                 | ■                                                                                 | –                                                                                   | –                                                                                   |
| <b>Indication</b>                                        |                          |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| Display                                                  |                          | –                                                                                 | ■                                                                                 | –                                                                                   | –                                                                                   |
| Actual temperature display                               |                          | –                                                                                 | ■                                                                                 | –                                                                                   | –                                                                                   |
| Status display via text and/or ICON                      |                          | –                                                                                 | ■                                                                                 | –                                                                                   | –                                                                                   |
| <b>RTC</b>                                               |                          |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| Manual operation                                         |                          | –                                                                                 | ■                                                                                 | –                                                                                   | –                                                                                   |
| Heating and/or cooling with/<br>without additional stage |                          | –                                                                                 | ■                                                                                 | –                                                                                   | –                                                                                   |
| Fan coil                                                 |                          | –                                                                                 | ■                                                                                 | –                                                                                   | –                                                                                   |
| Master/slave                                             |                          | –                                                                                 | ■                                                                                 | –                                                                                   | –                                                                                   |
| Basic load                                               |                          | –                                                                                 | ■                                                                                 | –                                                                                   | –                                                                                   |
| Internal and/or external<br>actual temperature sensor    |                          | –                                                                                 | ■                                                                                 | –                                                                                   | –                                                                                   |
| Internal actual temperature sensor                       |                          | ■                                                                                 | ■                                                                                 | ■                                                                                   | ■                                                                                   |
| <b>Installation</b>                                      |                          |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| VDE                                                      |                          | ■                                                                                 | ■                                                                                 | ■                                                                                   | ■                                                                                   |
| BS                                                       |                          | ■                                                                                 | ■                                                                                 | ■                                                                                   | ■                                                                                   |
| IT                                                       | (only as 157 mm x 86 mm) | –                                                                                 | –                                                                                 | ■                                                                                   | ■                                                                                   |
| NEMA                                                     | (only as 86 mm x 157 mm) | ■                                                                                 | ■                                                                                 | ■                                                                                   | ■                                                                                   |

## Technical data

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



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