ABB-free@home®

Making home automation easier than ever

Contents

Freedom

## System

Advantages

Range

FREEDOM

Home becomes smart

Just as you like it
The Smart Home

The perfect daily routine. With ABB-free@home®, the entire home can be controlled not only with switches, but now even more practically: by smartphone or tablet and via touch or voice control. This allows home automation to be managed in a way that's mobile and smart, precise and flexible. For example, if the light atmosphere needs to be changed, tapping on the touchscreen or a simple voice command moves the blinds or changes the colours of the lights. Experience the future of smart living today.
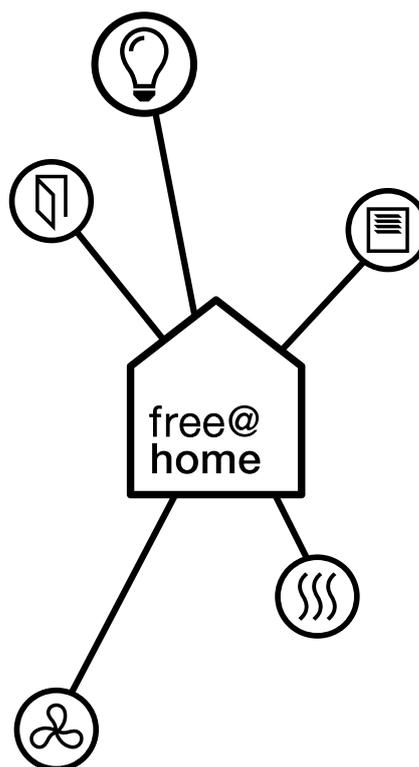
LIBERATING

As an innovative home automation system, ABB-free@home® offers an endless number of possibilities for creative design. This allows the home to be equipped with personal concepts and preferences. Both today and in the future.

Free choice
Live as your heart desires

Smart. ABB-free@home® transforms the house or the apartment into an intelligent home. Whether blinds, lights, heating, air-conditioning or door communication – comfort, safety and efficiency can finally be remotely controlled. Via a switch on the wall, via voice control or with a smartphone, tablet or personal computer.
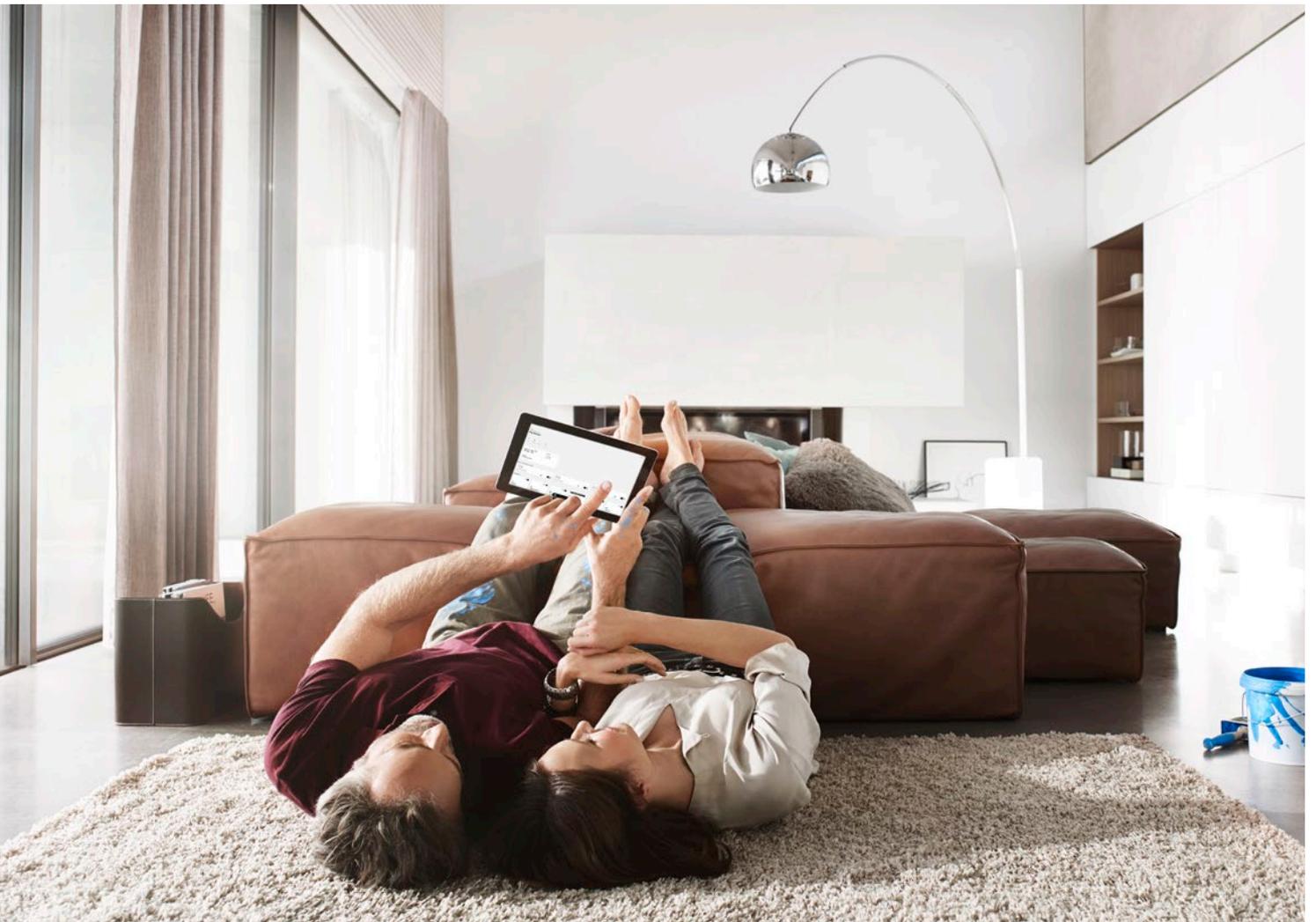
The pleasure of simplicity
ABB-free@home® makes daily life easier. You can manage blinds, lights, heating, air-conditioning and door communication using just one system. The smartphone becomes the remote control in the house. It allows you to raise the blinds and switch on the radio in the kitchen with the touch of a button while you are still in bed – or to deactivate all lights and devices via a switch when leaving the house. Very convenient. Extremely comfortable. Very energy efficient. The setting of these scenes is as easy as can be – to suit the mood or situation.

Heating

Light

Air-conditioning

Voice control

Media

Blinds

Energy

Door communication

Home Appliance
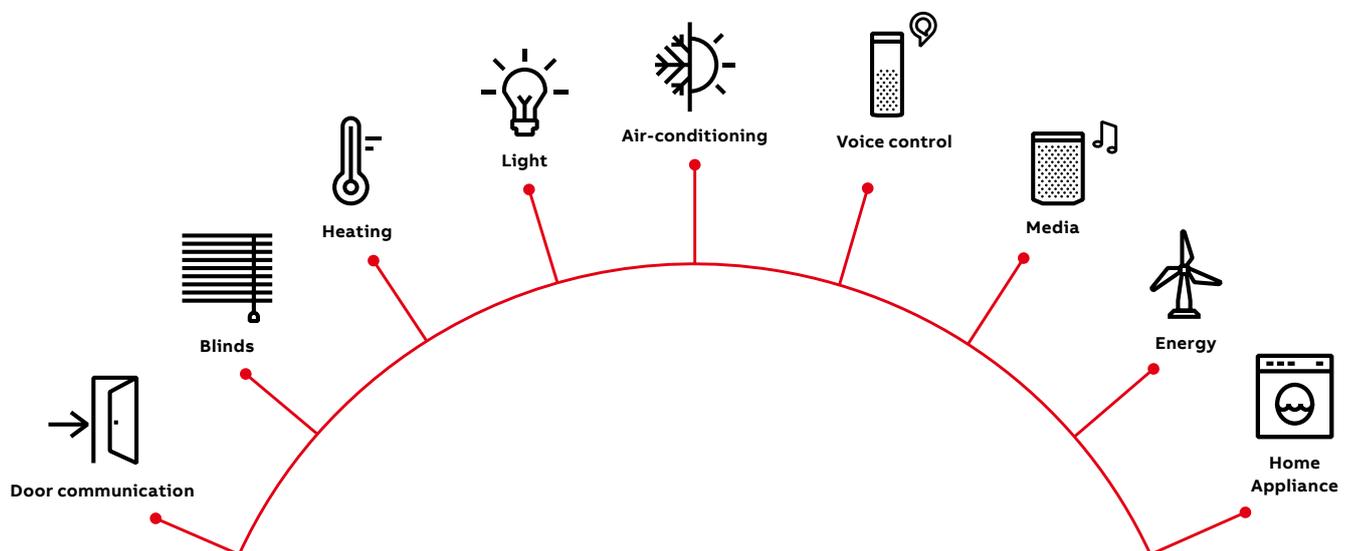
Open for new ideas
With ABB-free@home® everyone can determine for themselves how they want to use the smart living technologies. Both individual functions, such as heating or control of blinds, or a combination of different functions can be implemented. Over the course of time the system can also be flexibly extended, if one so desires. Freedom of choice at all times.

Total networking
Blinds, lights, heating, air-conditioning, door communication

Comfortable right from the start. It begins with commissioning and continues later when used as a part of daily life. With ABB-free@home® all applications in and around the house are amazingly easy to combine.

Blinds

Whether blind, roller blind, awning or roller door – with ABB-free@home®, sun protection and energy-saving could not be easier. Opening and closing, as well as adjustment of slats can be automated and controlled with switches, ABB-free@ homeTouch (two sizes are available: 7" and 4.3") or the app for smartphone or tablet. In addition, a weather station for protection during a storm, a timer or astro function can be used. It automatically adjusts the blind according to sunrise and sunset. The relevant data are combined in the System Access Point and are precisely implemented. The panel displays a comprehensive overview of all measured values and time settings.

- Provides numerous control options, dependent on brightness, temperature, rainfall and wind speed
- Shows weather data on the smartphone, tablet and display
- Reliably protects blinds and awnings against the effects of weather
- Optimises energy efficiency

Weather station

One thing is certain: the weather cannot be precisely predicted. The weather station records the brightness, temperature, rain and wind speed outside the home. Weather data are sent immediately and linked with actuators to automatically control functions. All important data are clearly displayed in the ABB-free@home® app.

Blind switch

Ready for all operating modes. With either a short or long press of the button for roller blinds, exterior blinds or awnings as well as adjustment of slats. In combination with a wind sensor, the roller blinds, exterior blinds and awnings close up completely and are locked during high wind conditions.

For a reassuring feeling. The various modules interact smoothly with one another, providing extra comfort, safety and efficiency. Every detail is aesthetically lit up, in all locations, both outside and inside the home.

Door communication

The ABB-Welcome door communication system can be integrated into ABB-free@home®. The door communication and home automation can be used together with ABB-free@homeTouch 7". For example, the light switches on when the doorbell rings to see visitors more clearly. And for reasons of safety, the video camera records pictures of visitors at the door when no one is home.

Pictures shown on the display

Practical and convenient. The pictures recorded by the video camera can be displayed on the tablet or smartphone via the ABB-Welcome app. This allows visitors who ring the bell to be recognised even when you are not at home (requires the ABB-Welcome IP gateway and ABB-Welcome outdoor video station).
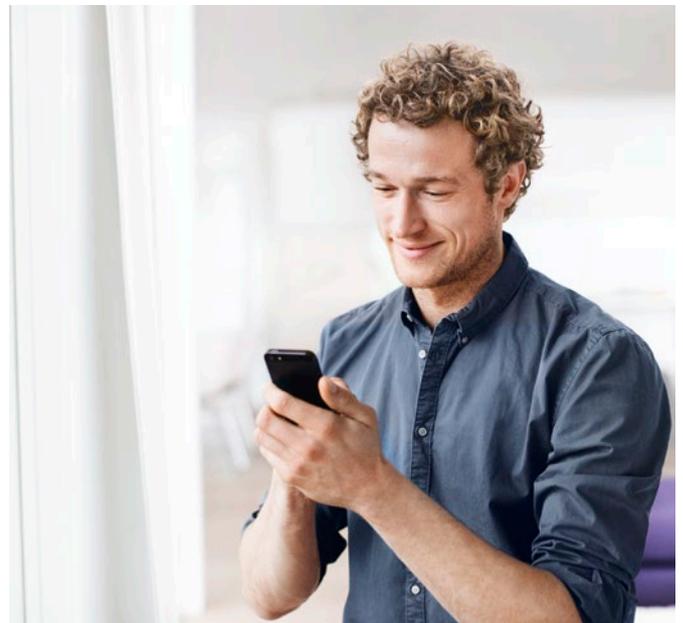
- Large touch display (7", 17.8 cm), to recognise who is at the door
- Easy operation keys for opening doors, mute function and light
- Integrated picture memory
- Configuration of "Welcome scenes" when a visitor rings the bell or the door is opened

Smart control via app and voice

Smartphone or tablet becomes the central control unit of the door communication. The ABB-Welcome app also makes remote control via the Internet possible. This makes communication possible with all visitors. Now you are at home everywhere.

Philips hue LEDs
Simply integrate the Philips hue LEDs into the system and control them via ABB-free@home®. This allows hue lamps to be comfortably controlled via a switch on the wall, or in a scene together with other lamps, even when the smartphone or tablet is not available.

Light control
Life begins with light. With ABB-free@home® it can be optimally used, whether for illuminating individual rooms or the entire house. For example, with striking light scenes – for different moods and to suit the occasion. A pleasant side effect here is the cost-saving and environmentally friendly use of energy.

• Easy to adjust light scenes
• Central or remote control
• Fast activation of emergency lighting
• Support of energy efficiency
• Flexible use
• Philips hue LED integration
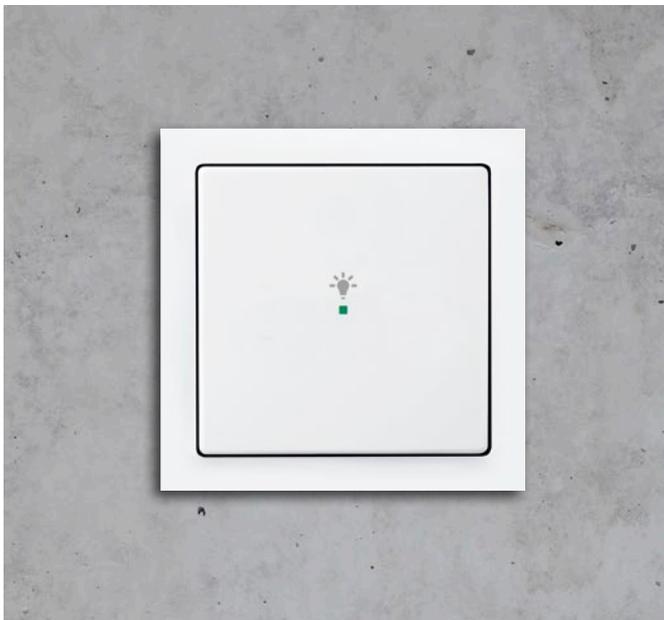
Dimmer and movement detector
With ABB-free@home®, rooms or entire buildings can be illuminated according to your requirements. Each situation receives suitable light – whether striking light scenes or emergency lighting. All lights are switched on at once.

Pleasantly economical. The ideal room temperature throughout the day and night is the result of precise control. ABB free@home® connects all components for a fine-tuned indoor climate.

Heating and air-conditioning

Comfortable and energy-saving. The optimum room temperature can be adjusted with ABB-free@home® according to the actual requirement. In ECO mode, the temperature is automatically lowered at night or when no one is home. The heating can be automatically shut off when the windows are open. This reduces the energy consumption – whether for conventional heaters or under-floor heating.

The ideal temperature is never the same. Depending on the time of the day, the room temperature controller provides your personal feel-good temperature. The heating valves are controlled wirelessly – with radio-controlled thermal actuating drives. The room temperature controllers can be integrated into the switch combination. And the window contacts are net-worked wirelessly as well. That is both smart and efficient.

°C

25

20

15

7.⁰⁰ 8.⁰⁰   12.⁰⁰   16.³⁰   21.⁰⁰

max.

◨ Savings   ☐ Consumption
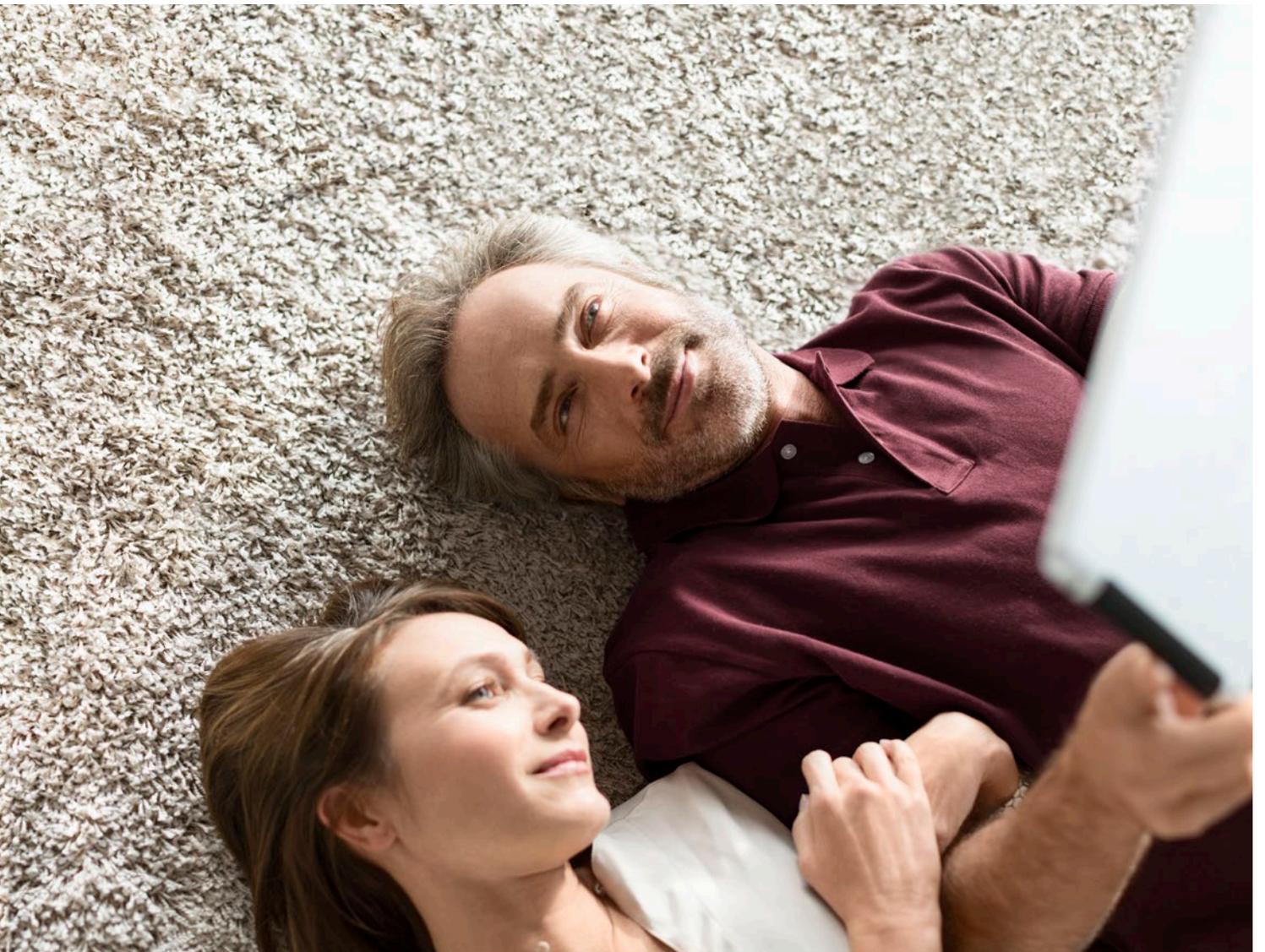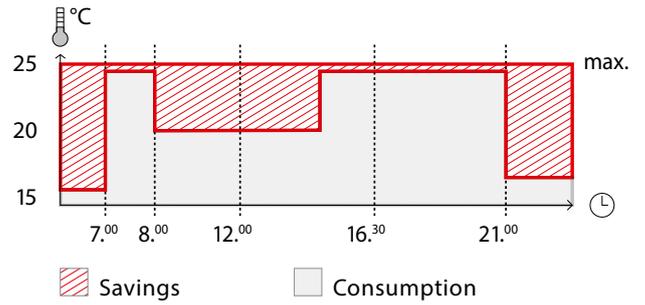
Energy savings due to the individual control
of heating depending on the time of day

Intelligent thermostat

Radiator Thermostats are active components for individual
room temperature control. They control the valve of the
respective radiator. These drives use an electric motor to
open or close the heating valves. They are battery powered
and operate quietly. The ABB-free@ home® network enables
the finest nuances to be implemented, for the perfect
climate at all times.

- Easy to retrofit
- No cooling or heating when
  windows are open

- Heating to suit individual require
  ments:
  depending on the daily routines instead
  of specific requirements
- For conventional heaters or
  under-floor heating
- Support of energy efficiency
- ECO mode
- Local operation or remote controlled
  via app for smartphone and tablet

The smooth integration of modern household appliances into ABB-free@home® offers a variety of options for convenient use. All networked devices with their icons are displayed in the free@home app and the ABB-free@home® panel and can be controlled from there. All functions can also be directly controlled via the wall-mounted push-buttons, which is possible only with free@home.

All Smart-Home-capable devices from Miele and Home Connect can be integrated in ABB-free@home® without any difficulty.

The washing machine and the drier immediately signal on the panel and the free@home app when they are finished. Practical and time-saving. Because it makes the constant checking in the cellar unnecessary.

Cooking becomes more comfortable. Because now also the light and ventilation of the extractor hood can be integrated into the "cooking scene". And the "everything-off scene" now also switches the extractor hood completely off. Or only its light, if desired. All household appliances can even be conveniently controlled (without app!) via the wall-mounted push-buttons – exclusive with ABB-free@home®.

Always the irritating questions! Did I switch off the light in the cellar? Did I forget to close the refrigerator door? With ABB-free@home® these worries are now a thing of the past. Because the app informs you immediately and also reminds you.

The start into the day gets better and better. Because when the "good morning scene" is selected, also the coffee machine switches itself on - as if by magic.

The oven must be off when there is no one at home. ABB-free@home® ensures that it is switched off as soon as you leave the house. Reliable and safe. To ensure that you have no reason to worry.

THE SYSTEM

ABB-free@home® is easy to operate and at the same time flexible and adaptable to everyday situations or to those very special moments in life. And here, complete scenes can be played automatically or be set or called up spontaneously to suit the mood.
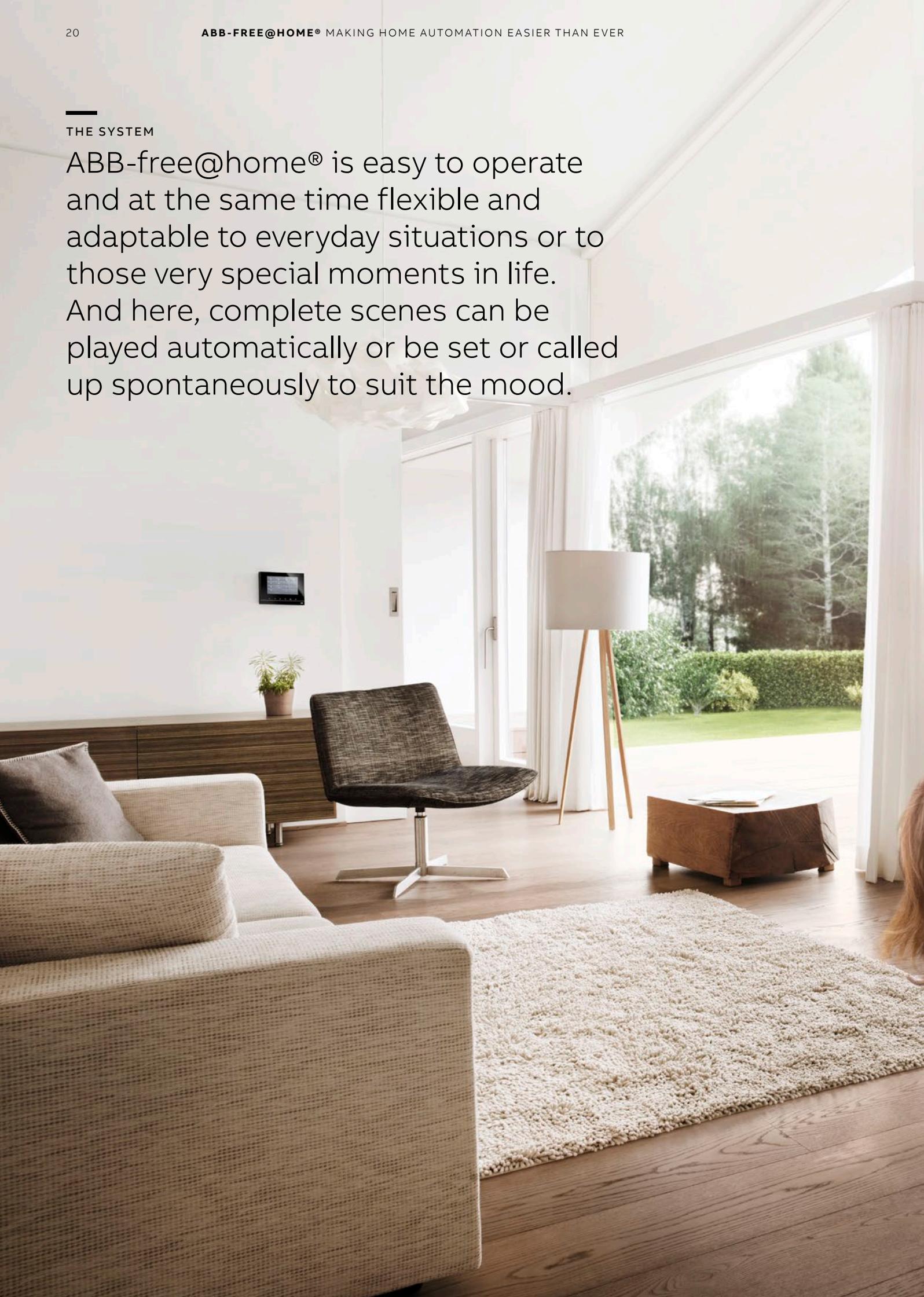
Atmosphere at the press of a button
With a personal comfort scene

For a perfect evening after a long day at work. Simply at the press of a button. ABB-free@home® cares for a friendly reception when arriving at home. With a colourful display of light, pleasant room temperature and your favourite music. Precisely the right atmosphere for relaxing.
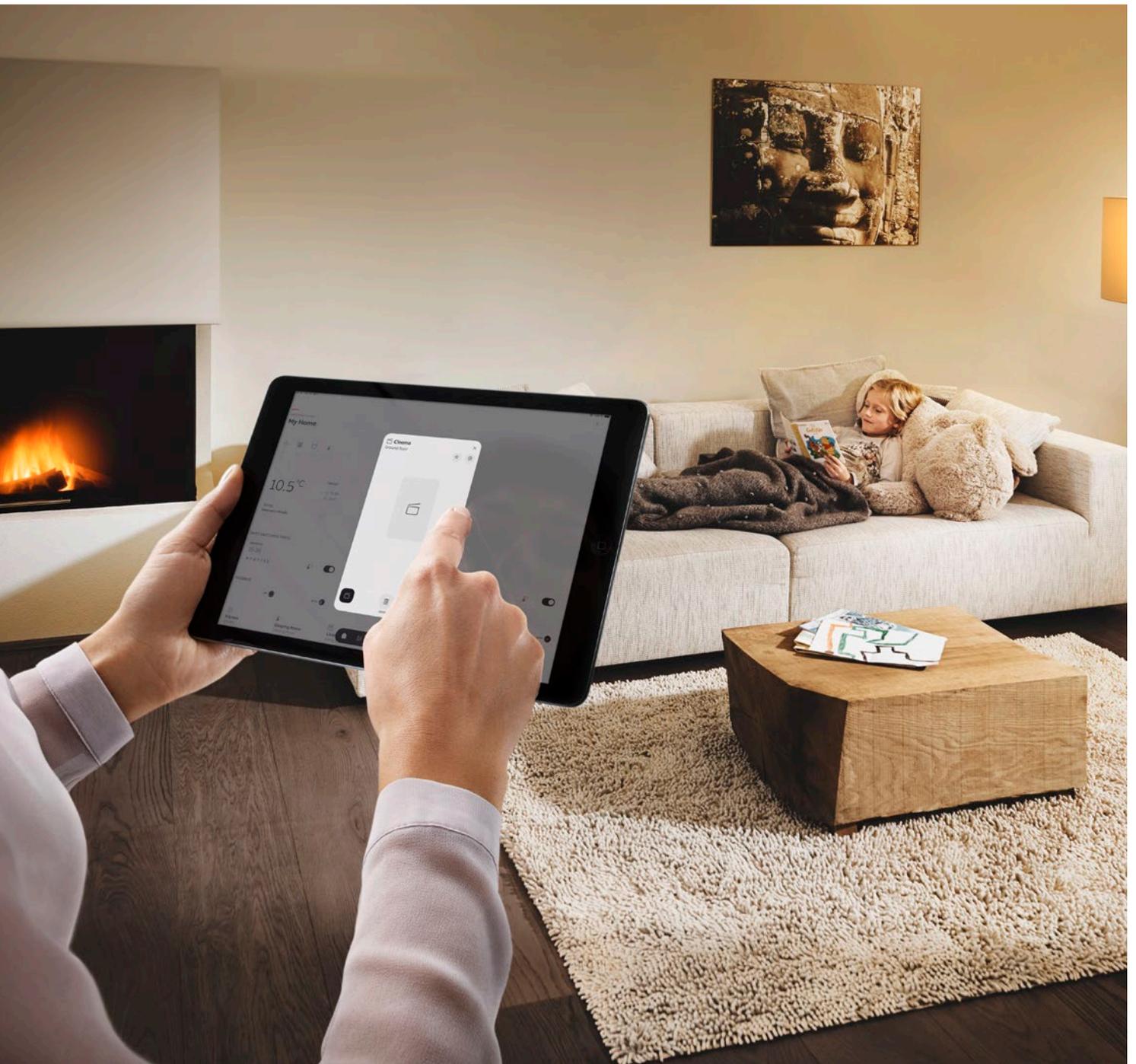
Sonos
Never has the enjoyment of music been so comfortable in all rooms. Because the Sonos wireless home sound system harmonizes perfectly with ABB-free@home®. All Sonos loudspeakers can be easily operated fully integrated: via free@home wall sensors and touch panels or via ABB-free@home® app. The replay of music, the selection of your Sonos favourites or the volume control are simplicity itself.

Philips hue LEDs
All functions of the Philips hue LEDs can be integrated in a scene. In addition to the brightness, the colour shade can also be defined in a scene.

Works with
SONOS
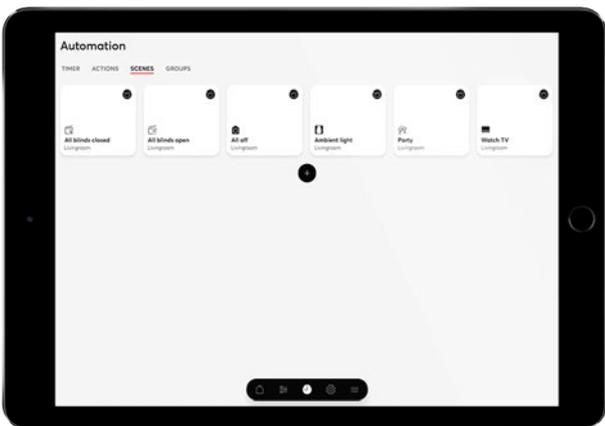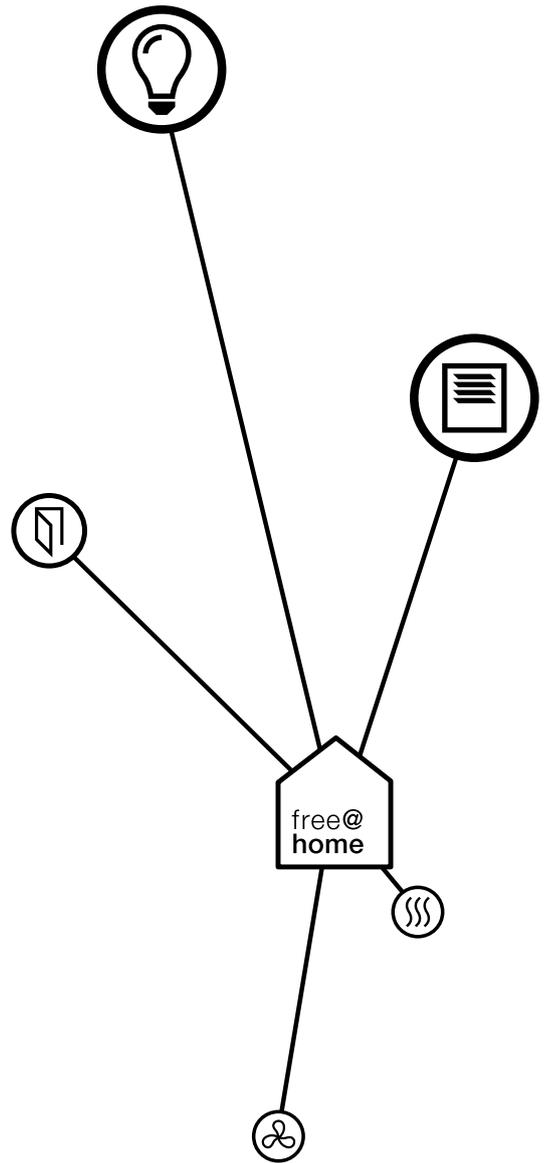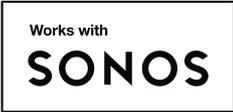
Fast change of scene
A single press of the button on the switch, on the ABB-free@homeTouch, smartphone or tablet suffices to call up a complete scene. This, for example, allows a living room to be transformed in a matter of seconds to suit an occasion – for welcoming guests or for a pleasant evening of relaxation.

Simple scene configuration
To create or change your own individual scenes is child's play with ABB-free@home®. An intelligent assistance wizard helps to put together the desired functions. This, for example, allows the working light, cooker hood and Internet radio to be simultaneously activated via a binary output, while also dimming the light at the dinner table – again with a press of a button.

Present and yet not at home
With presence simulation

Everything is in perfect order at home. Because ABB-free@home®
brings life into rooms that are at times unoccupied. For this the system
stores the habits of the residents while they are at home and then
calls them up during their absence.

- Free app for iOS and Android devices
- Integrated picture memory
- Easy remote control via MyBuildings portal
  powered by ABB Ability

MyBuildings portal

Presence simulation
Always a good feeling. Because the presence simulation
of ABB-free@home® records the weekly actions of all de-
vices in the home. And this is how it convincingly simu-
lates the presence of the owners. No matter whether they
are on a business trip, on holiday or just shopping around
the corner. The impression always remains the same:
someone is at home.

Everything controllable
Via the connection to the MyBuildings portal powered by
ABB Ability, most functions of ABB-free@home® can
now be controlled and activated via remote control. This
makes it possible to maintain control – even while on
holiday, with maximum protection of one's privacy.
Those who do not use a remote control can operate their
ABB-free@home® system from the cloud.
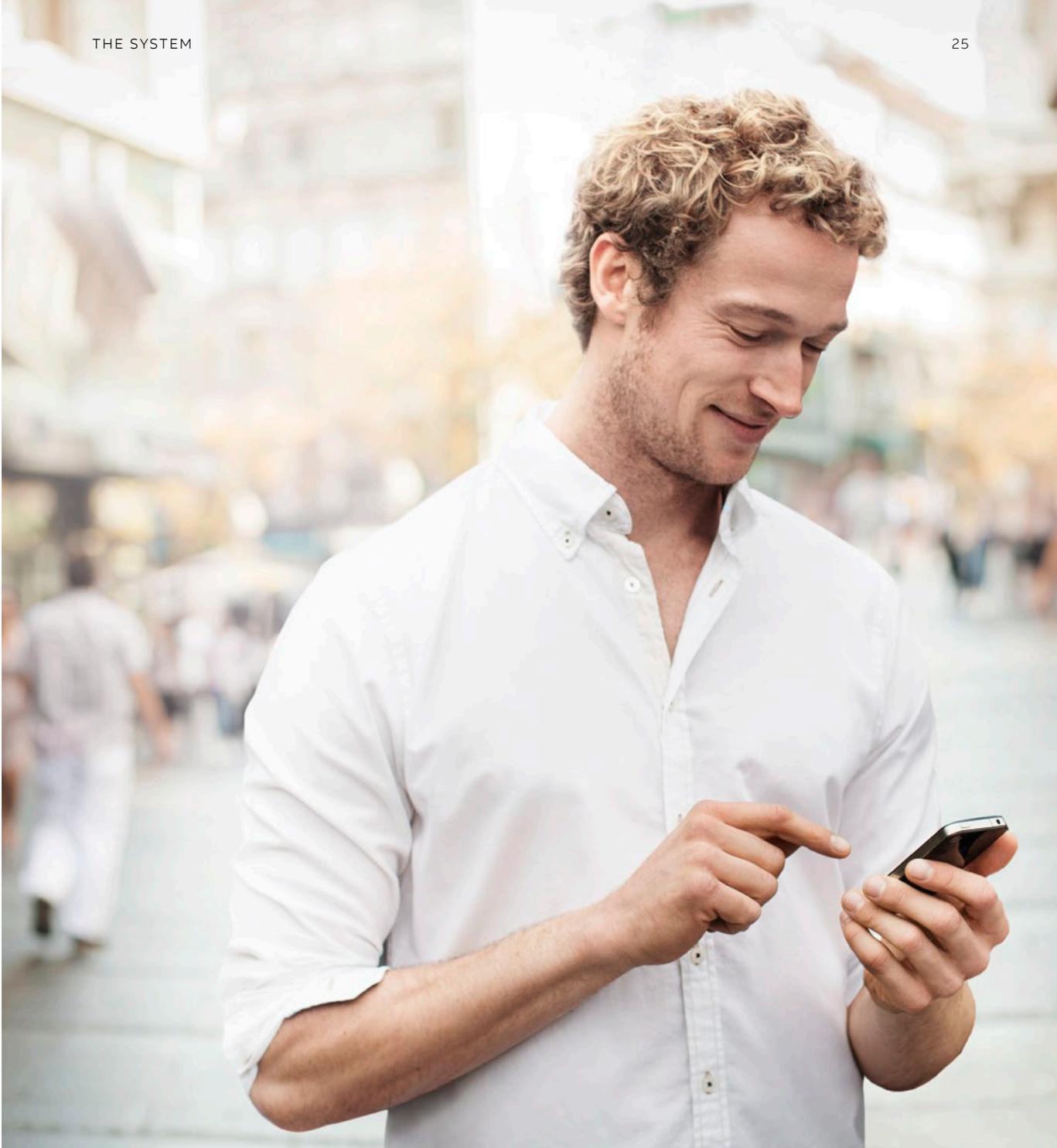
Geofencing

The innovative Geofencing function of ABB-free@home®
makes it possible for home owners to surround the house
or other locations with an imaginary fence. If someone en-
ters or leaves this defined zone, free@home automatically
responds with previously specified actions. For example,
the system switches off the lights and adjusts the heating,
to save energy when all residents have left the house. Or it
regulates the room temperature as soon as one leaves the
place of work in the evening so that the home is warm and
cosy when arriving at home.

Everything off with a single function
A reassuring feeling

The simplest type of switch-off. ABB-free@home® offers this with the everything-off function. It is especially practical when leaving the house. It simultaneously switches off all networked devices in all rooms.

Rest assured

In principle the everything-off function works just like a pre-set scene. In this case all networked devices are simultaneously switched off in all rooms. Aside from improving safety, this also improves energy efficiency. The everything-off function is especially practical at the bedside. Before falling asleep the entire lighting in the house can be switched off with just a press of a button. A very practical function that adds comfort and safety.
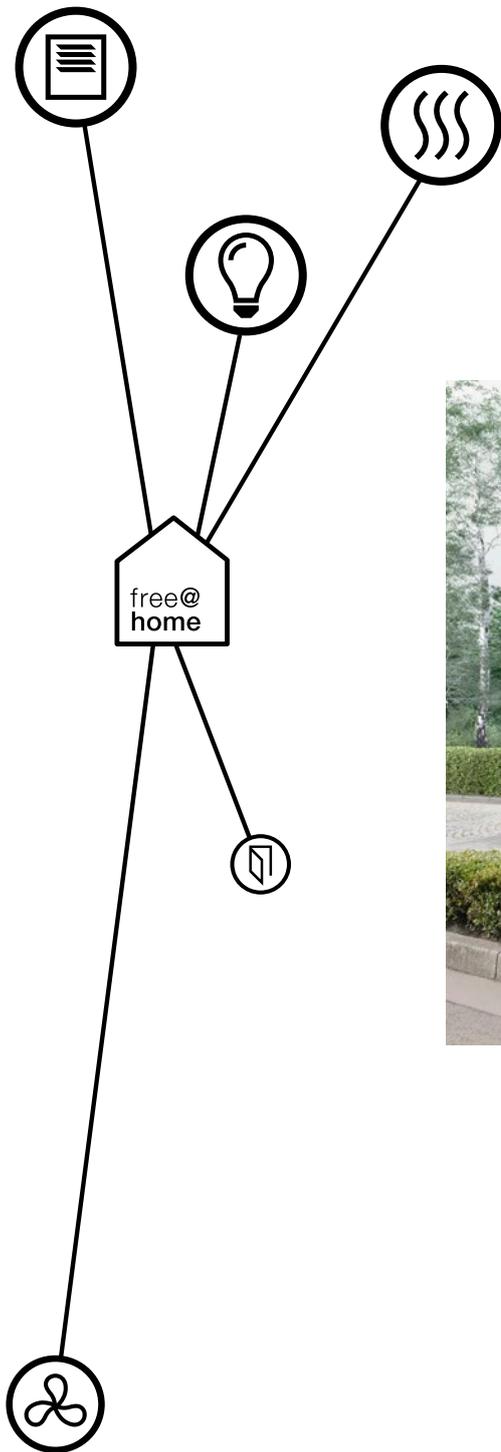
- Pre-programmed everything-off switch
- Easy to operate
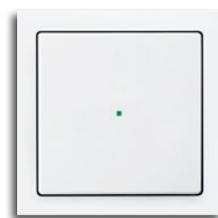
Near and far

The central switch for the everything-off function can be located on the wall near the front door and, of course, at any other location in the house. And for mobile use it can be displayed in the app on the smartphone or tablet.

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Easy to use
A variety of control options

The new independence. Creating the perfect indoor climate or ideal illumination can now be done via flexible and precise remote control – with the touch of a finger or voice commands. Operation as simple as desired.

Alexa and Google Assistant
Amazon Echo and Google Home control lamps, light switches and thermostats, plays music, supplies news and much more – and all this simply via voice control.

Tablet and smartphone
The operating concept provides the highest flexibility and mobility because everyone has the choice to control the functions also mobile via the smartphone or tablet. And thanks to the ABB-free@home® app, also with the tip of the finger while travelling. Easier than ever.

ABB-free@homeTouch
Thanks to its two different colours (black and white) and its two different sizes (7" and 4.3"). Offers up to 16 functions, and intuitive operation via tapping or swiping. Easy to set up and even easier to operate – plus making adjustments is a snap.

The modern switch
The easiest operation is the one everyone is used to. And today's wall switch is always in the right place. This is especially so because the wireless version makes additional cabling unnecessary. Switches are the better performers.

REACT
Energy for your home at all times

The REACT system is an intelligent solution for residential photovoltaic systems. The system allows to optimally distribute solar energy towards the appliances in the house, to store it for later use when needed or to feed it into the public network. Efficient and flexible.

REACT
ABB's residential energy storage system REACT with integrated solar inverter, allows home owners to store any excess energy produced by their photovoltaic installation. The energy capacity of the battery can be easily extended up to 12 kWh.

Solar

REACT

WLAN-Router

System Access Point

Local usage

Grid

EV Charging
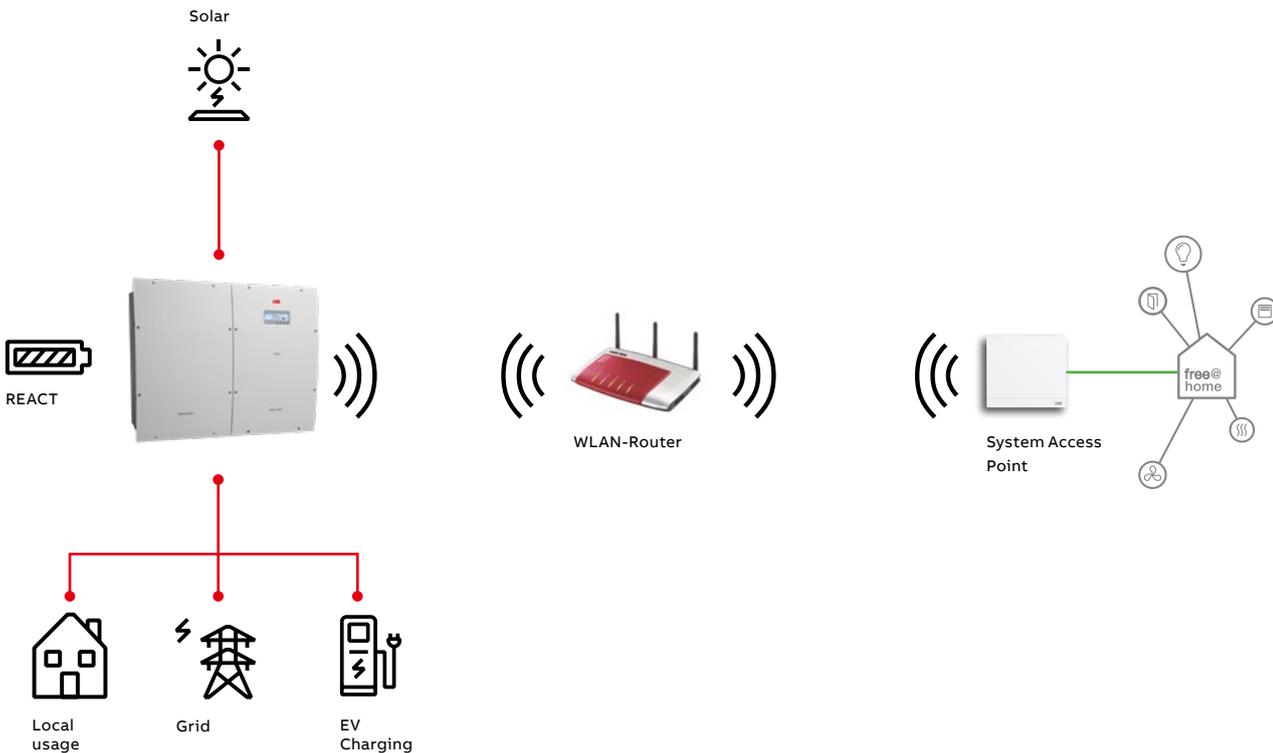
The decision is made by the user

The REACT energy storage system can be integrated into ABB-free@home® via the local WLAN router. This allows the user to make the decision as to whether and when his solar energy is to be used locally, to be stored for later use or fed into the public network. The rules are defined in the free@home actions menu and can be adjusted by the end user at any time.

All data available at all times

All relevant data, such as battery level or the power produced and consumed are displayed on the ABB-free@home® Touch Panels and in the ABB-free@home® app. The load management can also be controlled and monitored via an Internet browser. Profiles can be set up for all connected intelligent devices, which makes it possible to markedly increase one's own consumption in comparison to a standard PV inverter.

ADVANTAGES

Fast initial installation by the electrician. And easy and convenient operation and later adjustment by the user via app – even via remote control.

The new freedom
Limitless possibilities

One system, many extensions. Every home can be turned into a Smart Home. With its cabled or wireless sensors, actuators and control elements, ABB-free@home® is comprehensive and practical. Both for new as well as old buildings. Home automation knows no limits.
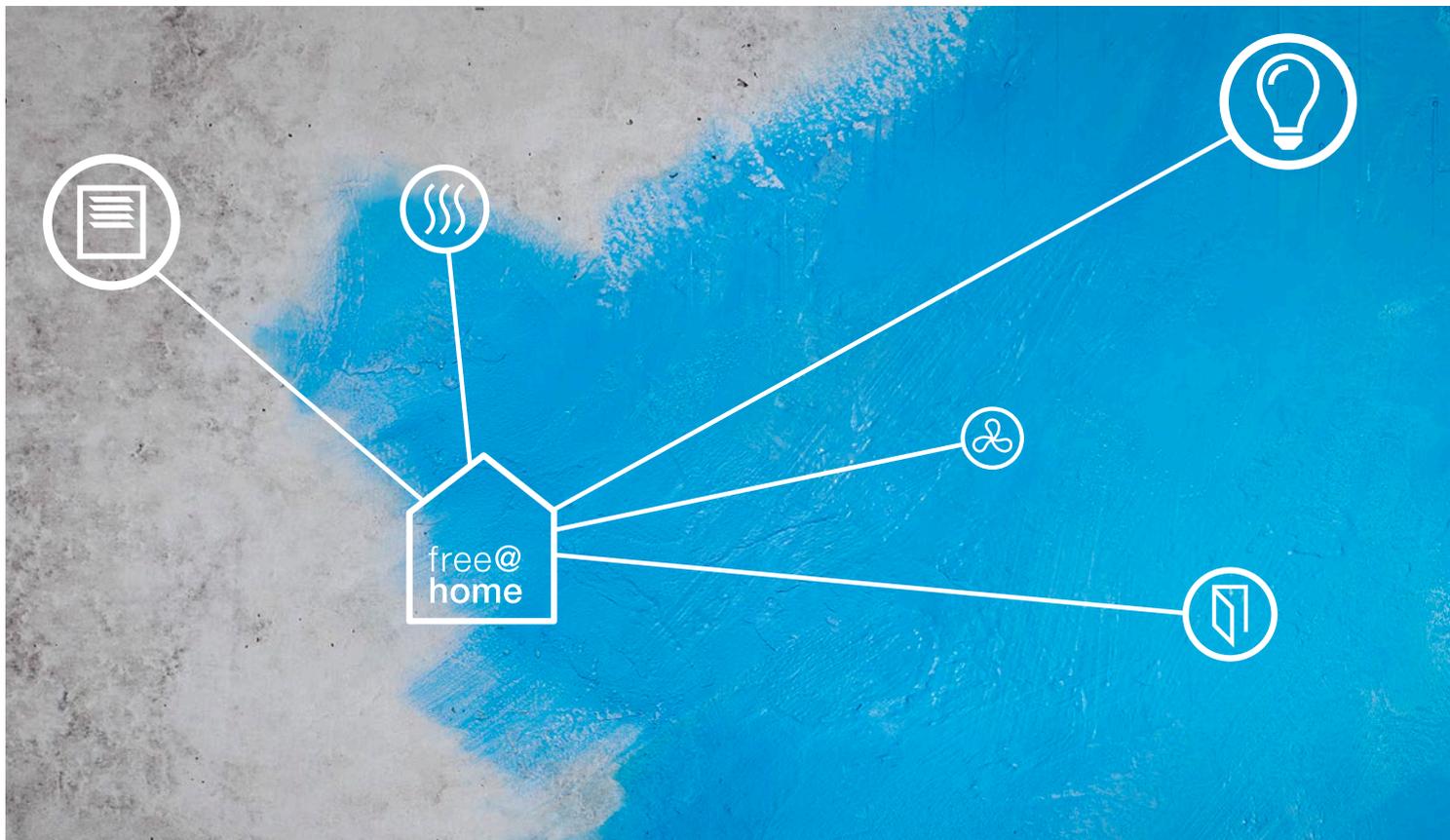
More now and in the future

ABB-free@home® means more options, fewer limitations and easier operation. Existing systems can be extended at any time, even without brickwork thanks to wireless technology. The new System Access Point processes all data safely and precise. For the residents everything remains pleasantly in-visible; they enjoy a uniformly functioning home automation that fulfils all wishes, even those of tomorrow.

Easy to install and extend

Those who build or renovate their home will appreciate ABB-free@home® as much as the electrician does. Because both use a system that is easy to understand and extremely efficient. If functions and comfort features are to be extended, this is possible at all times without any great effort. Once it is set up by the electrician, users can call up the user interface on the computer or tablet themselves and change the settings.

The flexible System Access Point
The nerve centre of the ABB-free@home® system is the System Access Point. It communicates with the components of the system, whether wired or wireless, and is the interface to the home network. The wireless communication is encrypted by the AES 128 standard, making home automation not only easy, but secure.
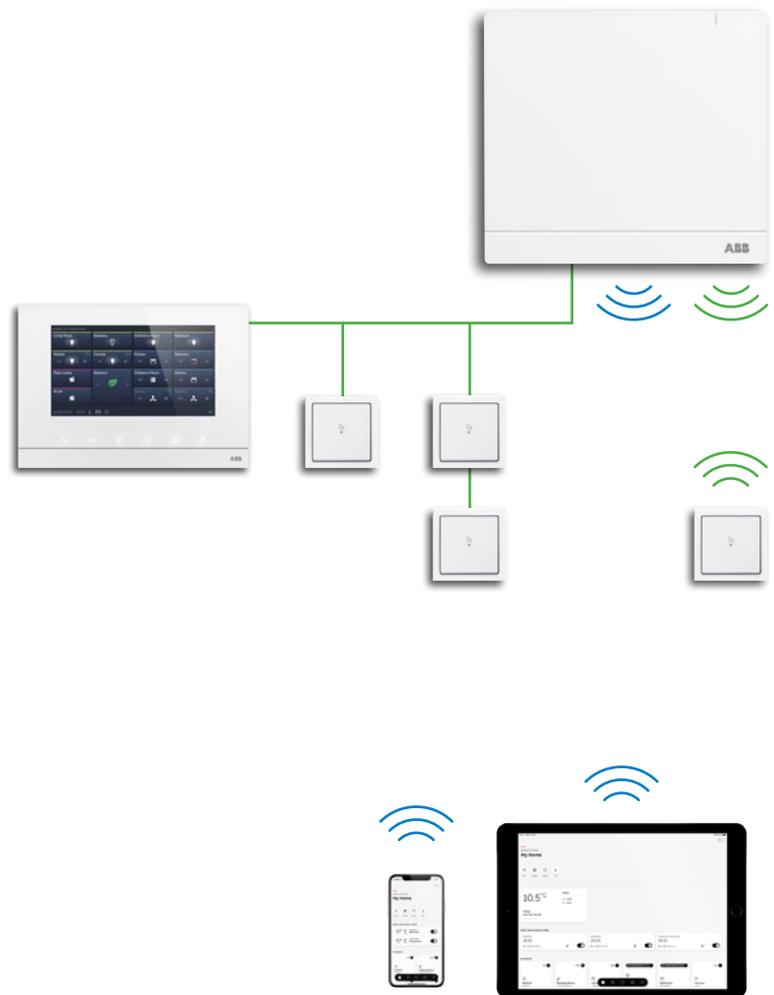
Open for all connections
The System Access Point allows up to 150 connections, in any combination of all wired, all wireless or a mix of both. If more than 64 wired devices are needed, a second power supply can be easily installed directly in parallel to the first, with no constraints on the minimum cable length required between both supplies.

Mounting possibilities
The design of the System Access Point offers three different mounting versions. Horizontal, on a table top for example, with the rubber feet preventing the device from sliding or from scratching the surface. Hanging on the wall, and here the Access Point is fixed on the supplied mounting plate or on a VDE flush-mounted box. Invisible on a DIN rail in the switch cabinet. A corresponding adapter is available as an accessory.

The touch of a finger is sufficient
For the app that is extremely easy to operate

Home automation has never been easier. The ABB-free@home® app is suitable for controlling the entire technology in the networked house. And making adjustments is as simple as surfing the Internet.
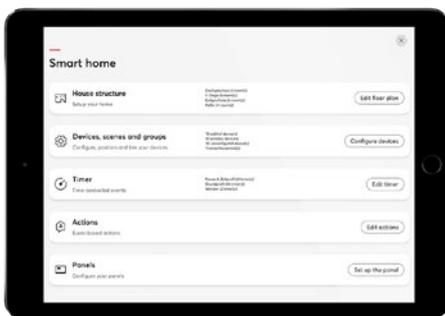
Everything is possible
The unique user interface has been developed especially for ABB-free@home®. It can be used via the Internet browser on a PC or laptop as well as on a smartphone or tablet.
An app that adapts the user interface for mobile operation (iOS/Android) has been developed especially for use with smartphones or tablets.
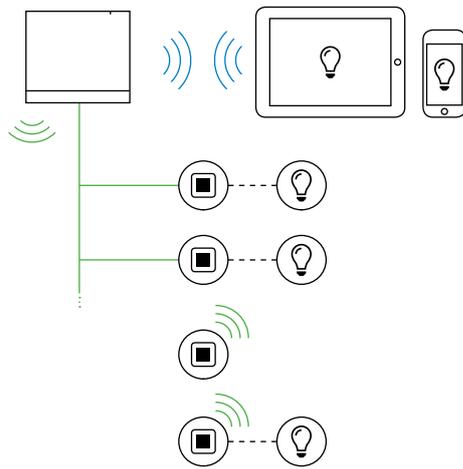
Perfectly connected
The System Access Point is connected with different sensors and actuators via the two-wire bus technology or wireless. During commissioning an optional ad hoc connection can be established with the tablet if, for example, no router has yet been installed. Later the System Acess Point and the mobile devices will be integrated into the home network. Global access to the ABB-free@home® system is possible via the MyBuildings portal powered by ABB Ability.

- Easy to install
- Easy to configure
- Easy to change later
- Intuitive operation

So easy, anyone can do it
Creating scenes

Intuitive operation. The ABB-free@home® app is easy to understand. To start with, all available devices in the rooms are activated in the display, allowing the favourite settings to be made immediately via drag-and-drop.
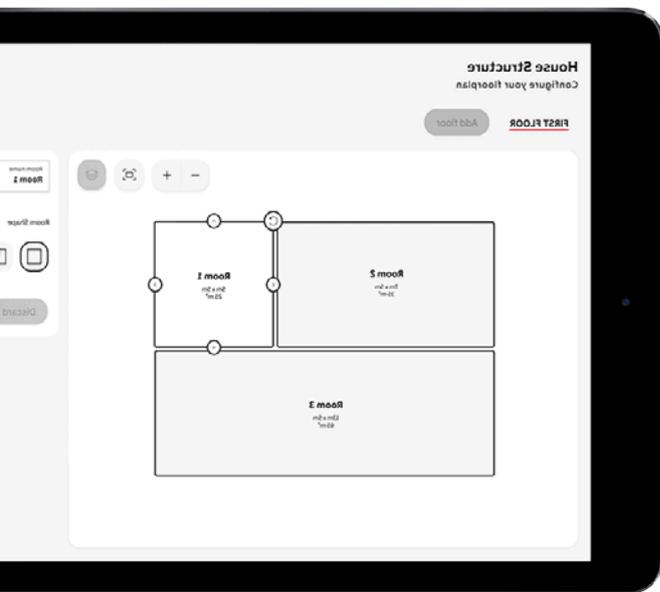
Easy to install – and even easier to operate
The ABB-free@home® app has been optimised for use in daily life. The wizard guides one through the system. The most important functions are clearly marked with self-explanatory icons. It makes no difference whether the components are connected in the two-wire bus or wirelessly. One has control over a uniform system. For maximum security, a personal password can be activated when logging in. This protects the home automation system against unauthorized access and tampering.
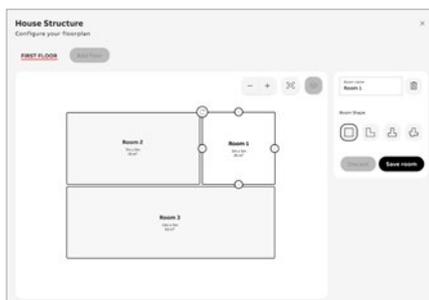
The house
First the electrician sets up the floor plan with its floors and rooms.
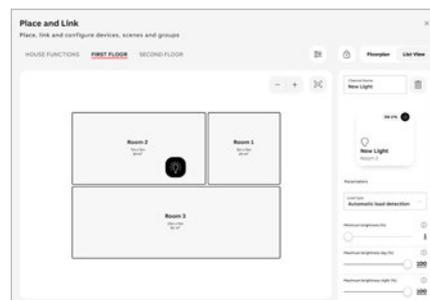
Assigning
Then the sensors in the app are integrated in the floor plan and assigned in the system.
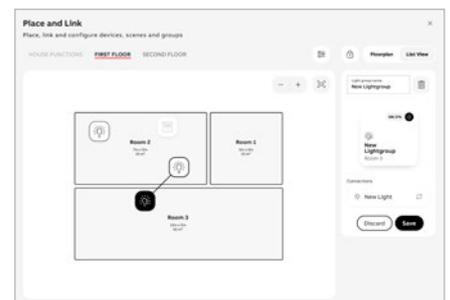
Combining
And finally, the elements can be combined according to individual preferences and requirements.

Simple and time-saving
The electrician performs the initial configuration of the system via app. Operation is particularly fast and saves on costly billable hours.
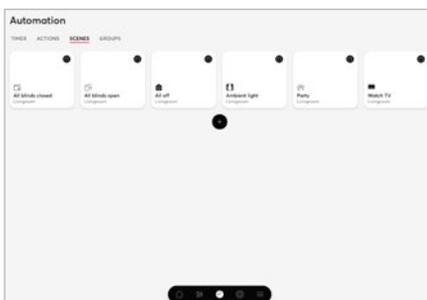
Scene control
The user can easily combine the switches and devices available in each room to create personal scenes. The lighting scene for an evening on the sofa, for example.
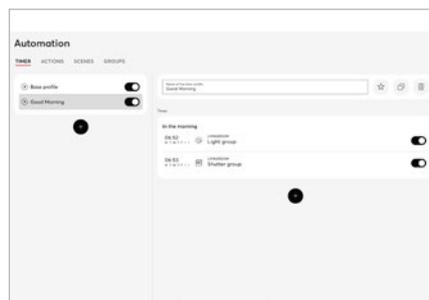
Time control
Roller blinds can be automatically moved and lights can be switched at any time or dependent on sunrise or sundown.
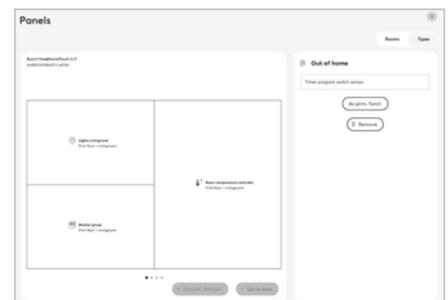
Panel setting
The most important functions can be controlled from a central location in the house and easily changed later at any time.

Simply effortless
This saves valuable labour time

Now easier than ever. Only a few components are needed to install ABB-free@home®. For the direct activation of light, the entire system only requires a bus cable, the sensor/actuator unit, a power supply and a System Access Point for programming.

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01 System Access Point

—
02 Sensor, 1gang

—
03 Switch actuator, 4gang

—
04 Binary input, 2gang, flush-mounted

—
05 Power supply

—
01

The System Access Point
The nerve centre of the ABB-free@home® system is the System Access Point. It provides access for computer, tablet or smartphone via WLAN. This allows the functions of the system to be defined and remotely controlled – even after installation. The System Access Point can also be combined with a network router – via LAN or WLAN. Just connect and you're done. For convenience, the System Access Point creates its own WLAN and the software necessary for project planning and commissioning is already on board. This makes you independent from the structural conditions and no additional software is required. As soon as you are finished with programming you can save the status and restore it again at any time.

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02   03   04   05

The actuators and sensors
Actuators for switching, dimming and control are available for ABB-free@home®. The flush-mounted binary inputs also allow the integration of conventional switches and devices, such as window contacts, for example. Push-buttons, room temperature controllers and movement detectors are available as sensors.

Wired communication

System Access Point | ABBfree@home-Touch | | Sensor | | Power supply | Actuator | | Sensor/actuator unit

230 V

PS

24 V

230 V cable

Two-wire bus cable

Tablet   Smartphone

Sensor   Window contact   Valve drive with battery   Sensor/actuator unit

Wireless communication
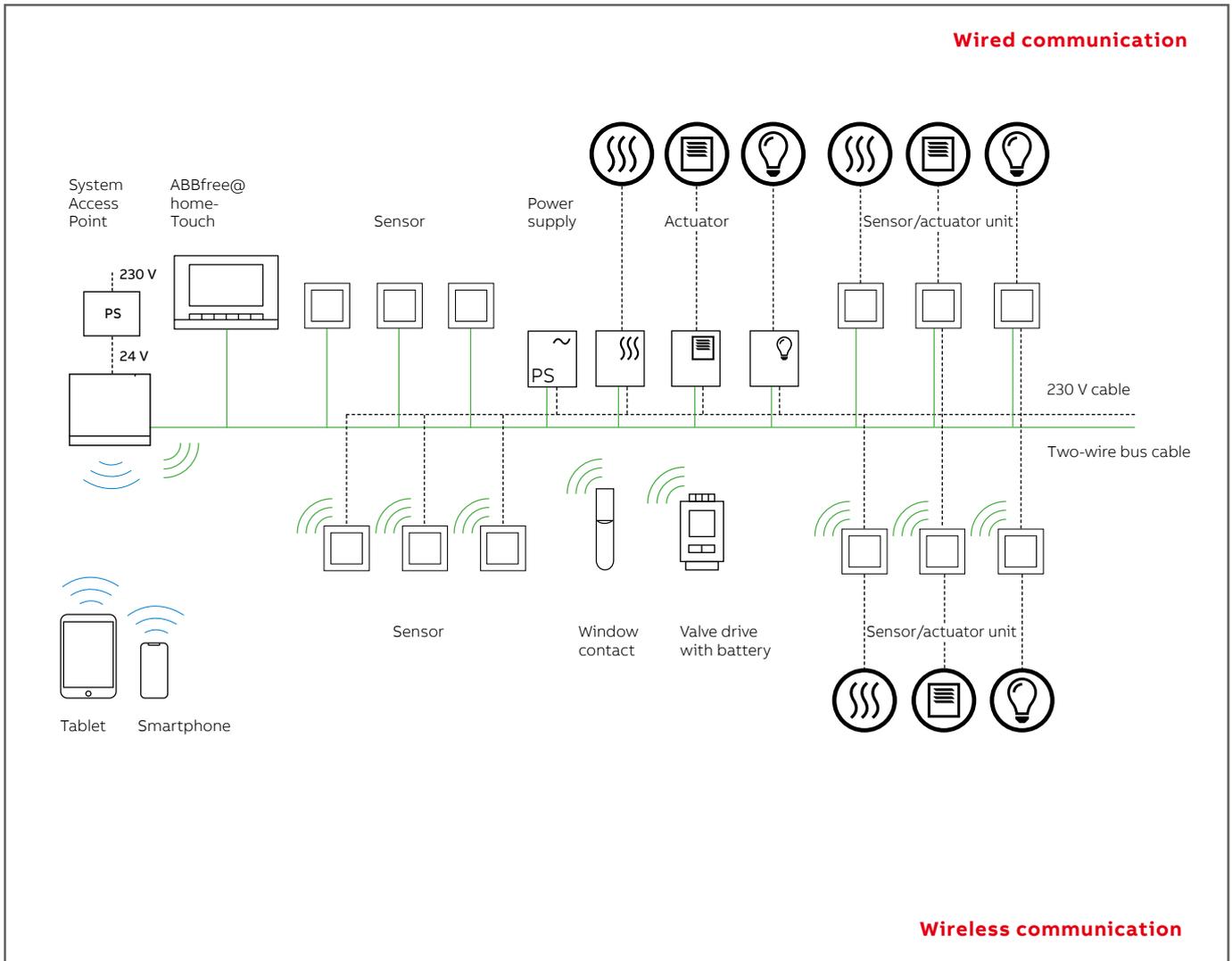
Central distribution board with rail-mounting actuator
The installation of central rail-mounting actuators in the consumer unit makes the installation of the sensors even easier – as only the bus line is located in the flush-mounted box. With this method, the costs for each channel can be reduced.

Sensor/actuator unit for decentralised control
All in one. With the sensor/actuator unit, both the sensor and actuator are located in a single device to save space. The basic function of the unit is pre-configured, which makes programming the basic function unnecessary – but possible if required. The 230-volt line is wired as usual.

Sensor/actuator unit
The sensor/actuator unit combines a control element and, for example, a switch actuator in the single flush-mounted housing. It is installed in the same way as a flush-mounted switch. The device has already been pre-programmed: this means the light can be switched on directly after installation – without any programming. The sensor/actuator unit can, of course, be freely re-configured via the user interface, just like all other sensors and actuators.

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Our ProService portal
Your advantages

If you require assistance or maintenance support, this can be done virtually by your installer, without the need of an on-site visit. The ProService portal offers a digital support possibility at any time.

Service and Support virtually for your ABB-free@home® system.
This grants lots of benefits to free@home users:

Remote maintenance
If you require assistance, the installer can access the ABB-free@home® system via the ProService portal to make the adjustments and changes. Also firmware updates can be done virtually.

Full Transparency
The system promotes trust and transparency by giving the home owner complete visibility of any access or work on their system. The log shows the homeowner detailed information what has been changed: person, time and duration as well as any changes to the system – and the owners are able to revoke access rights at any time.
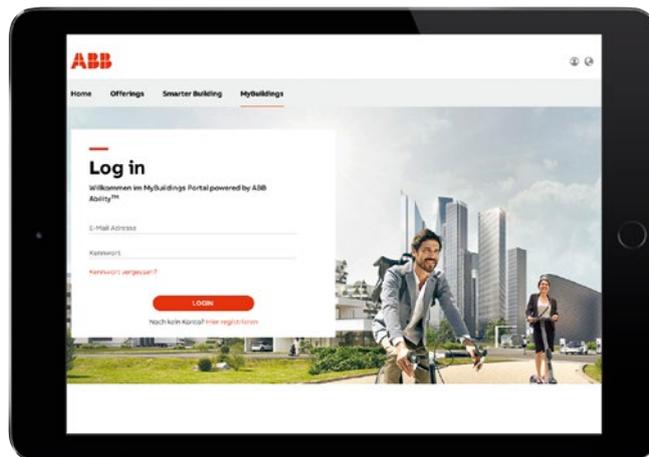
Full control by home owner
The home owner is able to grant access to the installer for a maximum of 24 hours. Secure end-to-end encryption connects the Installer Portal to the customer's System Access Point.

Efficient response
Faster and more efficient response time when you require support from an installer. No travel time is required and no need to schedule an on-site appointment.

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It's easy for the installer

Registration to the ProService portal works easily in the MyBuildings portal with the use of your ABB MyBuildings portal access data.

Creating employees
You authorize your employees via an invitation e-mail to use the ProService portal. As the owner of the account you can now see all your registered employees and assign them to individual customers.

Remote maintenance
After the customer has authorized the 24-hour time window for access, the installer can then access the ABB-free@home® system via the ProService portal and make adjustments and changes.

Creating customers
You invite your customers to use the remote maintenance service also via e-mail. You can then support your customers via the ProService portal.

Range

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The range
Modularity makes everything possible

	System Access Point 2.0		**ABB-free@homeTouch 7"**
Article no.	SAP/S.3		black: DP7-S-625 white: DP7-S-611
Description	For commissioning and remote control of the ABB-free@home® system. With integrated free@home wireless antenna. With integrated free@home bus connection. Allows the execution of astro and time programs. Commissioning and remote conatrol is executed via web interface or app. No additional commissioning software is required. Easy commissioning with WLAN ad-hoc mode. Connection to the home network via WLAN client mode or via CAT cable.		Indoor video station with 17.8 cm (7") touch display for ABB-free@home® and ABB-Welcome. For the central control of up to 16 configurable functions and display of the video image of an ABB-Welcome outdoor station. SD card slot for extension of the picture memory. Suitable as room temperature controller extension unit. For surface mounting.
Dimensions (H × W × D)	107 mm × 109 mm × 30 mm		155 mm × 218 mm × 29 mm
Technical data	Display elements: LED for status display Nominal voltage: 230 V~ Rated frequency: 50 Hz/60 Hz Protection type of device: IP 20		Display size: 17.8 cm (7") Display resolution: 800 × 480 Display elements: TFT touch display Protection type of device: IP 30

	ABB-free@homeTouch 4.3"	**Installation box, FM**	**Temperature sensor**
Article no.	black: DP4-1-625 white: DP4-1-611	DP4-F	DP4-T-1
Description	For the central control of up to 16 configurable ABB-free@home® functions. For the display of configurable system messages. A configurable primary function can be triggered with a multi-touch gesture. Capacitive touch screen with closed glass surface. With integrated room temperature controller and temperature sensor. In connection with temperature sensor DP4-T-1 the integrated room temperature controller can be fitted with a remote sensor. Suitable as room temperature controller extension unit (up to 8).	For flush-mounted und hollow-wall installation of the ABB-free@homeTouch 4.3" DP4-1-6XX. Windproof.	For use as remote sensor.
Dimensions (H × W × D)	104 mm x 143 mm x 53 mm	82 mm × 123 mm × 50 mm	Cable length: 4 m
Technical data	Display size: 10.9 cm (4.3") Display resolution: 480 x 854 Mounting height: 8 mm Display elements: 1 LCD display Bus voltage: 24 V~ Protection class (Device): IP 30	Mounting depth: 50 mm	Line type: H03 VV-F Type: NTC 10 kohm

	IP touch 7	IP touch 10
Article no.	LAN, black: H8236-1BG LAN, white: H8236-1WG LAN + WiFi, T-loop, black: H8236-4B LAN + WiFi, S M box included, USA, black: H82364-BG LAN + WiFi, T-loop, white: H8236-4W LAN + WiFi, S M box included, USA, white: H82364-WG LAN + LAN, T-loop, black: H8236-5B LAN + LAN, T-loop, white: H8236-5W LAN + WiFi, CN, black: H8236-6B LAN + WiFi, CN, white: H8236-6W LAN + LAN, CN, black: H8236-7B LAN + LAN, CN, white: H8236-7W LAN + WiFi, black: H8236-8BG LAN + WiFi, white: H8236-8WG LAN + LAN, black: H8236-9BG LAN + LAN, white: H8236-9WG	LAN + WiFi, T-loop, black: H8237-4B LAN + WiFi, T-loop, white: H8237-4W LAN + LAN, T-loop, black: H8237-5B LAN + LAN, T-loop, white: H8237-5W LAN + WiFi, CN, black: H8237-6B LAN + WiFi, CN, white: H8237-6W LAN + LAN, CN, black: H8237-7B LAN + LAN, CN, white: H8237-7W LAN + WiFi, black: H8237-8BG LAN + WiFi, white: H8237-8WG LAN + LAN, black: H8237-9BG LAN + LAN, white: H8237-9WG
Description	IP touch with cyber security boot & storage function. Supporting the systems door communication ABB-Welcome, ABB i-bus® KNX and ABB-free@home®. Connectable via LAN or WiFi, power supply via direct DC or PoE. Can be mounted surface or flush. With integrated room temperature controller and temperature sensor. During the conversation a picture of the visitor can be taken and stored in the picture memory. For door calls during absence three pictures of the visitor are automatically stored in the picture memory. Different bell sounds are adjustable for door and floor ringing; five polyphone bell sounds are available. Individual bell sounds (can be integrated via SD card). SD card slot for extension of the picture memory. Equipped with a hearing loop (T-Loop) for coupling the audio signal into hearing aids. Capacitive HD display with glass surface, resolution 7" with 1024 x 600 and 10" with 1280 x 800.	IP touch with cyber security boot & storage function. Supporting the systems door communication ABB-Welcome, ABB i-bus® KNX and ABB-free@home®. Connectable via LAN or WiFi, power supply via direct DC or PoE. Can be mounted surface or flush. With integrated room temperature controller and temperature sensor. During the conversation a picture of the visitor can be taken and stored in the picture memory. For door calls during absence three pictures of the visitor are automatically stored in the picture memory. Different bell sounds are adjustable for door and floor ringing; five polyphone bell sounds are available. Individual bell sounds (can be integrated via SD card). SD card slot for extension of the picture memory. Equipped with a hearing loop (T-Loop) for coupling the audio signal into hearing aids. Capacitive HD display with glass surface, resolution 7" with 1024 x 600 and 10" with 1280 x 800.
Dimensions (H × W × D)	198.5 mm × 149.6 mm × 36 mm	251 mm × 185 mm × 27 mm (LAN + WiFi) 251 mm × 185 mm × 31 mm (LAN + LAN)
Technical data	Rating voltage: 24 V Operating voltage range: 20-27 V [1] Rating current: 27 V, 250 mA; 24 V, 280 mA [2] Rating current: 27 V, 390 mA; 24 V, 440 mA [3] Rating current: 27 V, 240 mA; 24 V, 270 mA Display size: 7" Resolution: 1024 x 600 px Operating temperature: -10 °C ... +55 °C PoE standard: IEEE802.3 af [2] Alarm power output: 12 V, 200 mA [2] Relay output: 30 V, 1 A [1] Wireless transmission band: **802.11b/g/n:** 2412 ... 2462 MHz (for United States) 2412 ... 2472 MHz (for European countries) **802.11a/n:** 5150 ... 5250 MHz 5250 ... 5350 MHz 5470 ... 5725 MHz (not used in Russia) 5725 ... 5850 MHz (for United States) [1] Wireless transmission power: Max. 20 dBm@12 Mbps OFDM 2.4 G Max. 20 dBm@12 Mbps OFDM 5.8 G [1] Wireless transmission standard: IEEE 802.11 a/b/g/n	Rating voltage: 24 V Operating voltage range: 20-27 V [1] Rating current: 27 V, 390 mA; 24 V, 440 mA [2] Rating current: 27 V, 520 mA; 24 V, 600 mA Display size: 10" Resolution: 1280 x 800 px Operating temperature: -10 °C ... +55 °C PoE standard: IEEE802.3 af [2] Alarm power output: 12 V, 200 mA (12 V output is not available when PoE powered) [2] Relay output: 30 V, 1 A [1] Wireless transmission band: **802.11b/g/n:** 2412...2462 MHz (for United States) 2412...2472 MHz (for European countries) **802.11a/n:** 5150 ... 5250 MHz 5250 ... 5350 MHz 5470 ... 5725 MHz (not used in Russia) 5725 ... 5850 MHz (for United States) [1] Wireless transmission power: Max. 20 dBm@12 Mbps OFDM 2.4 G Max. 20 dBm@12 Mbps OFDM 5.8 G [1] Wireless transmission standard: IEEE 802.11 a/b/g/n

[1] IP touch 7 (LAN + WiFi)   [2] IP touch 7 (LAN + LAN)   [3] IP touch 7 (LAN)

[1] IP touch 10 (LAN + WiFi)   [2] IP touch 10 (LAN + LAN)

 + + =

01 02 03 04

—
01 Sensor insert
—
02 Rocker, 1gang
—
03 Cover frame, 1/1gang
—
04 Sensor unit

05 06 07 08 09 10

—
05 carat®
—
06 Busch-dynasty®
—
07 Busch-axcent®
—
08 solo®
—
09 pure stainless steel
—
10 future® linear
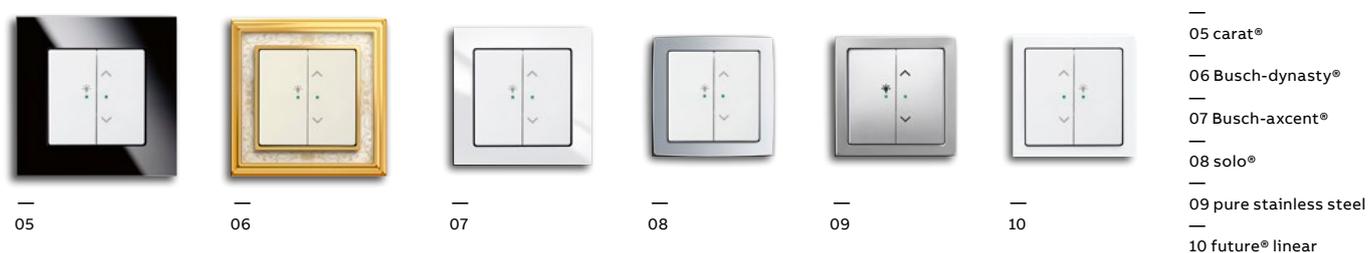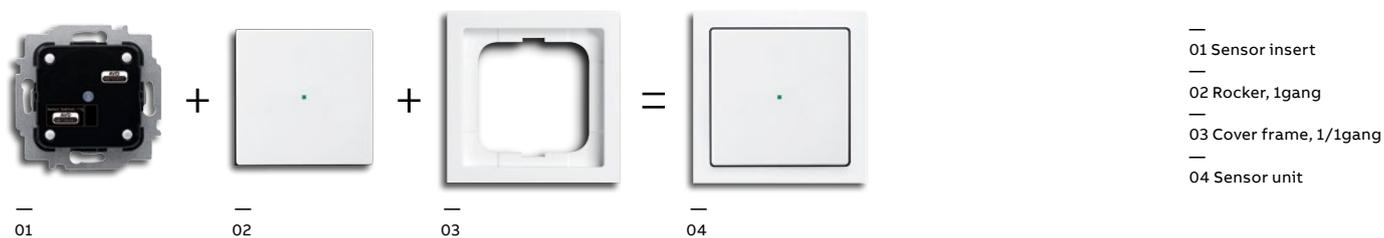
Color options for rockers*

Color		Code (c)	Color		Code (c)
	anthracite	81		ivory white	82
	aluminum silver	83		stainless steel	866
	antique brass	840		studio white	84
	black matt	885		studio white matt	884
	grey metallic	803			

Available symbols for rockers

Symbol		Code (i)		Symbol	Code (i)
	No symbol			Scene	S
	Light	L		Dimmer	D
	Blind	B			

11 12 13

—
11 1gang rocker, no symbol,
color studio white,
Article no. SR-1-84
—
12 1gang rocker,
blind symbol, color
stainless steel,
Article no. SRB-1-866
—
13 Right 2gang rocker,
dimmer symbol,
color studio white,
Article no. SRD-2-R-84

*for ranges carat®, Busch-dynasty®, Busch-axcent®,
solo®, pure stainless steel and future® linear

	Rocker, 1gang	Rocker, 2gang
Article no.	SR**i**-1-**c**	Left: SR**i**-2-L-**c** Right: SR**i**-2-R-**c** No icon: SR-2-**c** (both left / right) Blind icon: SRB-2-**c** (both left/right)
Description	As cover for ABB-free@home® 1gang switches	As cover for ABB-free@home® 2gang switches
Dimensions (H × W × D)	63 mm × 63 mm	63 mm × 63 mm
Colors (**c**)	81, 82, 83, 84, 803, 840, 866, 884, 885	81, 82, 83, 84, 803, 840, 866, 884, 885
Symbols (**i**)	L, B, S, D	L, S, D

	Cover plate **For 2 fold left push button with play/pause symbol** **Sonos**	Cover plate **For 2 fold right push button with volume symbol** **Sonos**
Article no.	**SRA-2-L-c**	**SRA-2-R-c**
Description	As cover for ABB-free@home® sensor units and sensor/actuator units	As cover for ABB-free@home® sensor units and sensor/actuator units
Dimensions (H × W × D)	63 mm × 63 mm	63 mm × 63 mm
Colors (**c**)	81, 82, 83, 84, 803, 840, 866, 884, 885	81, 82, 83, 84, 803, 840, 866, 884, 885

	Movement detector	Movement detector/switch actuator, 1gang
Article no.	MD-F-1.0.1-**c**	MSA-F-1.1.1-**c**
Description	For automatic switching of ABB-free@home® actuators dependent on movement and brightness	For switching 230 V~ devices. Switching function is available pre-configured
Dimensions (H × W × D)	71 mm x 71 mm x 30 mm	71 mm x 71 mm x 53 mm
Colors (**c**)	81, 82, 83, 84, 803, 840, 866, 884, 885	81, 82, 83, 84, 803, 840, 866, 884, 885
Technical data	Detection range: frontal 6 m, lateral 3 m Detection angle: 180° Brightness limit value: 1 – 500 lux Protection class of device: IP 20 Mounting depth: 9 mm	Outputs: 1x normally open contact, potential free Suitable for: resistive, current: 10 A Rated power: 2300 W Suitable for: capacitive, current: 10 AX Protection class of device: IP 20 Mounting depth: 32 mm

Cover plate, room thermostat

Article no.	CP-RTC-**c**
Description	As cover for ABB-free@home® room thermostat RTC-F-1
Dimensions (H × W × D)	63 mm × 63 mm
Colors (**c**)	81, 82, 83, 84, 803, 840, 866, 884, 885

Cover plate for fan coil controller

CP-FCC-**c**

As cover for ABB-free@home® room thermostat RTC-F-1

63 mm × 63 mm

81, 82, 83, 84, 803, 840, 866, 884, 885

Sensor/Switch actuator 1/1gang

Article no.	SSA-F-1.1.1
Description	For switching 127 V~/230 V~ devices. With 1 integrated switch actuator. Switching function is available pre-configured. To be used with ABB-free@home® 1gang rockers.
Dimensions (H × W × D)	71 mm x 71 mm x 45 mm
Technical data	Outputs: 1x normally open contact, potential free Suitable for: resistive Rated current: 10 A Rated power: 2300 W Suitable for: capacitive Rated current: 10 AX Protection class of device: IP 20 Mounting depth: 32 mm

Sensor/Switch actuator 2/1gang

SSA-F-2.1.1

For switching 127 V~/230 V~ devices. With 1 integrated switch actuator. Switching function is available pre-configured. To be used with ABB-free@home® 2gang rockers.

71 mm x 71 mm x 45 mm

Outputs: 1x normally open contact, potential free
Suitable for: resistive
Rated current: 10 A
Rated power: 2300 W
Suitable for: capacitive
Rated current: 10 AX
Protection class of device: IP 20
Mounting depth: 32 mm

Sensor/Switch actuator 2/2gang

Article no.	SSA-F-2.2.1
Description	For switching 127 V~/230 V~ devices with integrated 2gang switch actuator. Switching function is available pre-configured. To be used with ABB-free@home® 2gang rockers.
Dimensions (H × W × D)	71 mm x 71 mm x 45 mm
Technical data	Suitable for: resistive Rated current: 6 A Rated power: 1380 W Suitable for: capacitive Rated current: 4 AX Rated power: 920 VA Suitable for: inductive Rated current: 4 AX Rated power: 920 VA Protection class of device: IP 20 Mounting depth: 32 mm

Sensor/Dim actuator 1/1gang

SDA-F-1.1.1

For dimming 230 V~ loads. With integrated universal dimming actuator for controlling different lamps. The dimming function is available pre-configured. To be used with ABB-free@home® 1gang rockers.

71 mm x 71 mm x 45 mm

Outputs: 1x dimming channel
Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformers
Rated power: 10–180 W/VA
Suitable for: LEDi and energy-saving bulbs
Rated power: 2–80 W/VA
Protection class of device: IP 20
Mounting depth: 32 mm

	Sensor/Dim actuator 2/1gang
Article no.	SDA-F-2.1.1
Description	For dimming 230 V~ loads. With integrated universal dimming actuator for controlling different lamps. The dimming function is available pre-configured. To be used with ABB-free@home® 2gang rockers.
Dimensions (H × W × D)	71 mm x 71 mm x 45 mm
Technical data	Outputs: 1 dimming channel Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformer. Rated power: 20 - 180 W/VA Suitable for: LEDi and energy-saving bulbs; typical Rated power: 2 - 80 W/VA Protection class of device: IP 20 Mounting depth: 32 mm

	Sensor/Blind actuator 1/1gang
Article no.	SBA-F-1.1.1
Description	For controlling blind and awning motors. With integrated blind actuator. Blind function is available pre-configured. To be used with ABB-free@home® 1gang rockers.
Dimensions (H × W × D)	71 mm x 71 mm x 45 mm
Technical data	Outputs: 2 Change-over contacts/normally open contact, potential-bound Suitable for: Operation mode Blind Rated current: 4 A Output voltage: 230 V~ Rated power: 920 VA Protection class of device: IP 20 Mounting depth: 32 mm

	Sensor/Blind actuator 2/1gang
Article no.	SBA-F-2.1.1
Description	For controlling blind and awning motors. With integrated blind actuator. Blind function is available also without prior programming (left sensor channel is pre-configured). To be used with ABB-free@home® 2gang rockers.
Dimensions (H × W × D)	71 mm x 71 mm x 45 mm
Technical data	Outputs: 2 change-over contacts/normally open contact, potential-bound Rated power: 920 VA Rated current: 4 A Suitable for: Operating mode blind Protection class of device: IP 20 Mounting depth: 32 mm

	Room Thermostat
Article no.	RTC-F-1
Description	Control element with room temperature control function for controlling commercially available actuating drives or analogue actuating drives (continuous controllers). With display of set-value temperature. Only to be used with ABB-free@home® cover plates for room thermostat.
Dimensions (H × W × D)	71 mm x 71 mm x 30 mm
Technical data	Display elements: LCD Display showing operation modes Protection class of device: IP 20 Mounting depth: 14 mm

Sensor unit, 1gang	
Article no.	SU-F-1.0.1
Description	For sending switching, dimming and blind commands to an ABB-free@home® actuator. To be used with ABB-free@home® 1gang rockers.
Dimensions (H × W × D)	71 mm x 71 mm x 23 mm
Technical data	Control element: Switch contacts top/ bottom Display elements: LED as light for orientation or display of switching state Protection class of device: IP 20 Mounting depth: 9 mm

Sensor unit, 2gang	
Article no.	SU-F-2.0.1
Description	For sending switching, dimming and blind commands to an ABB-free@home® actuator. To be used with ABB-free@home® 2gang rockers.
Dimensions (H × W × D)	71 mm x 71 mm x 23 mm
Technical data	Control element: Switch contacts top/ bottom Display elements: LED as light for orientation or display of switching state Protection class of device: IP 20 Mounting depth: 9 mm

Weather station	
Article no.	WS-1
Description	For recording and transmitting of brightness, temperature, wind speed and rain. Weather data can be linked with actuators to automatically control functions. Weather data can be visualized in the free@home web interface and the free@home app. Wind speed measuring range 2 - 30 m/s. The bus can be connected via enclosed terminal block.
Dimensions (L × W × D)	108 mm x 121 mm x 227 mm
Technical data	Rated voltage: 110 V~ - 230 V~ Rated frequency: 50 Hz - 60 Hz Bus voltage: 24 V- Inputs: 4 Protection class (Device): IP 44 Temperature range (Device): -20 °C to 55 °C Brightness limit value: 1 Lux - 100000 Lux

USB Interface, MDRC	
Article no.	USB-M-1.1
Description	USB Interface for the creation of a central twisted pair line in multi-dwelling applications, e.g. a Central Weather Station in an appartment building.
Dimensions	90 mm x 36 mm x 64,5 mm
Technical data	Supply voltage: 5 V DC via USB Type B connector Bus voltage: 24 V (bus connection terminal) Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Module width: 2 MW

Sensor unit, 1gang, wireless	
Article no.	SU-F-1.0.1-WL
Description	For transmitting switching, push-button, dimming and blind commands to an ABB-free@home® actuator. Communication with the free@home system is carried out wireless. To be used with ABB-free@home® 1gang rockers.
Dimensions (H × W × D)	71 mm x 71 mm x 45 mm
Technical data	Control element: Switch contacts top/ bottom Display elements: LED as light for orientation or display of switching state Protection class of device: IP 20 Mounting depth: 32 mm

Sensor unit, 2gang, wireless	
Article no.	SU-F-2.0.1-WL
Description	For transmitting switching, push-button, dimming and blind commands to an ABB-free@home® actuator. Communication with the free@home system is carried out wireless. To be used with ABB-free@home® 2gang rockers.
Dimensions (H × W × D)	71 mm x 71 mm x 45 mm
Technical data	Control element: Switch contacts top/ bottom Display elements: LED as light for orientation or display of switching state Protection class of device: IP 20 Mounting depth: 32 mm

Room thermostat, wireless	
Article no.	RTC-F-1-WL
Description	Heating/cooling operation. Communication with the free@home system is carried out wireless. With room temperature controller function.
Dimensions (H × W × D)	71 mm x 71 mm x 48 mm
Technical data	Control element: Floating rocker for the selection of set values and operating modes Display elements: LCD showing operation modes Rated voltage: 230 V~ Rated frequency: 50 Hz / 60 Hz Protection class (Device): IP 20 Mounting depth: 32 mm

Room thermostat/actuator, wireless	
Article no.	RTC-F-2.1-1-WL
Description	Control element with room temperature control function for controlling thermoelectric actuating drives in heating/ cooling systems or electric floor heating systems. With display of set-value temperature. Only to be used with ABB-free@home® room temperature controller cover plates.
Dimensions (H × W × D)	71 mm x 71 mm x 48 mm
Technical data	Control element: Floating rocker for the selection of set values and operating modes Display elements: LCD showing operation modes Rated voltage: 230 V~ Rated frequency: 50 Hz / 60 Hz Outputs: 1 Normally open contact, potential-bound Suitable for: ohmic Rated current: 16 A Output voltage: 230 V~ Rated power: 3680 W Protection class (Device): IP 20 Mounting depth: 32 mmMounting depth: 32 mm

	Sensor/Switch actuator 1/1gang, wireless
Article no.	SSA-F-1.1.1-WL
Description	For switching 230 V~ devices. Communication with the free@home system is carried out wireless. With 1 integrated switch actuator. Switching function is available pre-configured. To be used with ABB-free@home® 1gang rockers.
Dimensions (H × W × D)	71 mm x 71 mm x 45 mm
Technical data	Outputs: 1 Normally open contact, potential-bound Suitable for: ohmic Rated current: 10 A Output voltage: 230 V~ Rated power: 2300 W Suitable for: capacitive Rated current: 10 AX Rated power: 2300 VA Suitable for: inductive Rated current: 10 A Rated power: 2300 VA Protection class (Device): IP 20 Mounting depth: 32 mm

	Sensor/Switch actuator 2/1gang, wireless
Article no.	SSA-F-2.1.1-WL
Description	For switching 127 V~/230 V~ devices. Communication with the free@home system is carried out wireless. With 1 integrated switch actuator. Switching function is available pre-configured. To be used with ABB-free@home® 2gang rockers.
	71 mm x 71 mm x 45 mm
	Outputs: 1 Normally open contact, potential-bound Suitable for: ohmic Rated current: 10 A Output voltage: 230 V~ Rated power: 2300 W Suitable for: capacitive Rated current: 10 AX Rated power: 2300 VA Suitable for: inductive Rated current: 10 A Rated power: 2300 VA Protection class (Device): IP 20 Mounting depth: 32 mm

	Sensor/Switch actuator 2/2gang, wireless
Article no.	SSA-F-2.2.1-WL
Description	For switching 230 V~ devices. Communication with the free@home system is carried out wireless. With two 230 V extension unit inputs (On/Off). Switching function is available pre-configured. To be used with ABB-free@home® 2gang rockers.
Dimensions (H × W × D)	71 mm x 71 mm x 45 mm
Technical data	Outputs: 2 Normally open contact, potential-bound Suitable for: ohmic Rated current: 5 A Output voltage: 230 V~ Rated power: 1200 W Suitable for: capacitive Rated power: 920 VA Suitable for: inductive Rated power: 800 VA Protection class (Device): IP 20 Mounting depth: 32 mm
Colors (c)	

	Movement detector + 1 actuator, wireless
Article no.	MSA-F-1.1.1-c-WL
Description	With select lens for detection with animal access. Communication with the free@home system is carried out wireless. For automatic switching of ABB-free@home® actuators dependent on movement and brightness. Switch-off delay of the actuator can be programmed via the web interface of the System Access Point. For switching 127 V~/230 V~ consumers.
	71 mm x 71 mm x 53 mm
	Outputs: 1x Normally open contact, potential free Suitable for: ohmic; Rated current: 10 A; Output voltage: 230 V~; Rated power: 2300 W; Suitable for: capacitive; Rated current: 10 AX; Rated power: 2300 VA; Suitable for: inductive; Rated current: 10 AX; Rated power: 2300 VA Detection range: frontal: 6 m, lateral: 3 m Detection angle: 180 ° Brightness limit value: 1 Lux - 500 Lux Mounting height: 1.1 m - 1.3 m Protection class of device: IP 20 Mounting depth: 32 mm Position for installation: vertical
	81, 82, 83, 84, 803, 840, 866, 884, 885

wireless

	Sensor/Dim actuator 1/1gang, wireless
Article no.	SDA-F-1.1.1-WL
Description	For dimming 230 V~ loads. Communication with the free@ home system is carried out wireless. With integrated universal dimming actuator for controlling different lamps. The dimming function is available pre-configured. To be used with ABB-free@home® 1gang rockers.
Dimensions (H × W × D)	71 mm x 71 mm x 45 mm
Technical data	Outputs: 1 dimming channel Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformer. Rated power: 20 - 180 W/VA Suitable for: LEDi and energy-saving bulbs; typical Rated power: 2 - 80 W/VA Protection class (Device): IP 20 Mounting depth: 32 mm

wireless

	Sensor/Dim actuator 2/1gang, wireless
	SDA-F-2.1.1-WL
Description	For controlling LEDs, incandescent lamps, 230 V halogen lamps, low-voltage halogen lamps with conventional or electronic transformers, and dimmable energy-saving halogen lamps. Blind function is available pre-configured. Communication with the free@home system is carried out wireless. To be used with ABB-free@home® 1gang rockers.
	71 mm x 71 mm x 45 mm
	Outputs: 1 dimming channel Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformer. Rated power: 20 - 180 W/VA Suitable for: LEDi and energy-saving bulbs; typical Rated power: 2 - 80 W/VA Protection class (Device): IP 20 Mounting depth: 32 mm

wireless

	Sensor/Blind actuator 1/1gang, wireless
Article no.	SBA-F-1.1.1-WL
Description	For controlling blind and awning motors. Communication with the free@home system is carried out wireless. With integrated blind actuator. Blind function is available pre-configured. To be used with ABB-free@home® 1gang rockers.
Dimensions (H × W × D)	71 mm x 71 mm x 45 mm
Technical data	Outputs: 2 Normally open contact, potential-bound Suitable for: Operation mode Blind Rated current: 4 A Output voltage: 230 V~ Rated power: 920 VA Protection class (Device): IP 20 Mounting depth: 32 mm
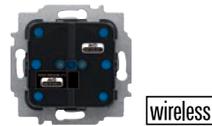
wireless

	Sensor/Blind actuator 2/1gang, wireless
	SBA-F-2.1.1-WL
Description	For controlling blind or awning motors. Communication with the free@home system is carried out wireless. The right sensor channel can be used for programming additional functions. To be used with ABB-free@home® 2gang rockers.
	71 mm x 71 mm x 45 mm
	Outputs: 2 Normally open contact, potential-bound Suitable for: Operation mode Blind Rated current: 4 A Output voltage: 230 V~ Rated power: 920 VA Protection class (Device): IP 20 Mounting depth: 32 mm

	External Antenna	**Basic free@home radiator thermostat, wireless**
Article no.	SAP-1-WL	HA-S-1-WL
Description	To be used in combination with System Access Point SAP-S-2 and SAP/S.3. Transmits the wireless signal outside, in case the internal antenna of the System Access Point is shielded. With magnetic foot.	For temperature regulation of water-bearing heaters. With integrated temperature sensor, controller and actuating drive. Local operation for the switchover between comfort mode and Off. No wire laying required. Communication with the free@home system is carried out wireless. Setpoint adjustment via the free@home app or a free@home extension unit (e.g. XXXXXXX). Integrated "Window open" detection or can be linked with WBI-S-X-W
Dimensions (H × W × D)	cable lengths: 1.5 m	63 mm x 48 mm x 84 mm
Technical data		With lime protection function. With frost protection function. Noiseless running. Installation with sleeve nut M 30 x 1.5. Fits many popular valve bases (e.g. Braukmann, Heimeier, Honeywell, Junkers, MNG). The adapters for Danfoss RAV, Danfoss RA and Danfoss RAVL are included in the scope of supply. Adapters for additional valves are available as accessories. Battery included in scope supply. Battery type: 2 x AA Protection class (Device): IP 20

	Comfort free@home radiator thermostat, wireless	**Valve adapter Herz**
Article no.	HA-S-2-WL	AC-HA-1
Description	For temperature regulation of water-bearing heaters. With integrated temperature sensor, controller and actuating drive. Local operation for the switchover between comfort mode and Off. No wire laying required. Communication with the free@home system is carried out wireless. Setpoint adjustment via the free@home app or a free@home extension unit (e.g. XXXXXXX). Integrated "Window open" detection or can be linked with WBI-S-X-WL.	Metal adapter for installation radiator thermostat. (HA-S-X-WL). For valve bodies Herz M 28 x 1,5.
Dimensions (H × W × D)	63 mm x 48 mm x 84 mm	
Technical data	With lime protection function. With frost protection function. Noiseless running. Installation with sleeve nut M 30 x 1.5. Fits many popular valve bases (e.g. Braukmann, Heimeier, Honeywell, Junkers, MNG). The adapters for Danfoss RAV, Danfoss RA and Danfoss RAVL are included in the scope of supply. Adapters for additional valves are available as accessories. Battery included in scope supply. Battery type: 2 x AA Protection class (Device): IP 20	

Valve adapter Herz	
Article no.	AC-HA-1
Description	Metal adapter for installation radiator thermostat. (HA-S-X-WL). For valve bodies Herz M 28 x 1,5.

Valve adapter Orkli	
Article no.	AC-HA-3
Description	Metal adapter for installation radiator thermostat. (HA-S-X-WL). For valve bodies Orkli M 28 x 1,0.

wireless

free@home window sensor, wireless	
Article no.	studio white matt : WBI-S-1-64-WL basalt black : WBI-S-1-65-WL stainless steel : WBI-S-1-66-WL
Description	For monitoring and transmission of the current window handle position (window open, closed, tilted). The status can be visualized on the free@home panel and in the free@home app. The window sensor is installed between the available window handle and the window frame. Existing window handle is used. Suitable for window handle: 7 mm square fastener, 43 mm attachment screw separation, lifter dia. 10 and 12 mm, max. mounting plate size 34 x 77 mm (WxH). No wire laying required. Mounting accessories (square extension, screws, adapter for cams) for the window sensor are included in scope of delivery.
Dimensions (H × W × D)	168 mm x 38 mm x 13 mm
Technical data	Battery included in scope supply. Battery type: CR2 Notification in case of low battery capacity in the free@home app. Protection class (Device): IP 43

wireless

free@home universal detector, wireless	
Article no.	studio white matt: BI-S-1-64-WL basalt black: BI-S-1-65-WL
Description	For monitoring and transmission of the state (open, closed) of dormer windows, skylights, doors and gates. Additional connection option for an external, potential-free sensor (choice of normally closed or normally open contact). The status can be visualized on the free@home panel and in the free@home app. Isolated evaluation and monitoring of channels. The universal detector and the magnets are fixed with adhesive film or screws. Accessories (adhesive foil, screws, magnet) included in delivery.
Dimensions (H × W × D)	118 mm x 30 mm x 22 mm
Technical data	Battery type: CR2 Notification in case of low battery capacity in the free@home app. External sensor max. wire length: 5 m External sensor terminal connection diameter: 0.14...0.5 mm² (single wire) Protection class (Device): IP 43

01　＋　02　＋　03　＋　04　＝　05

— 01 Metal Mounting Frame

— 02 Sensor insert, 1/2gang

— 03 Cover plate, 2 fold

— 04 Frame

— 05 Sensor unit

06

07

— 06 Zenit NEMA

— 07 Zenit VDE
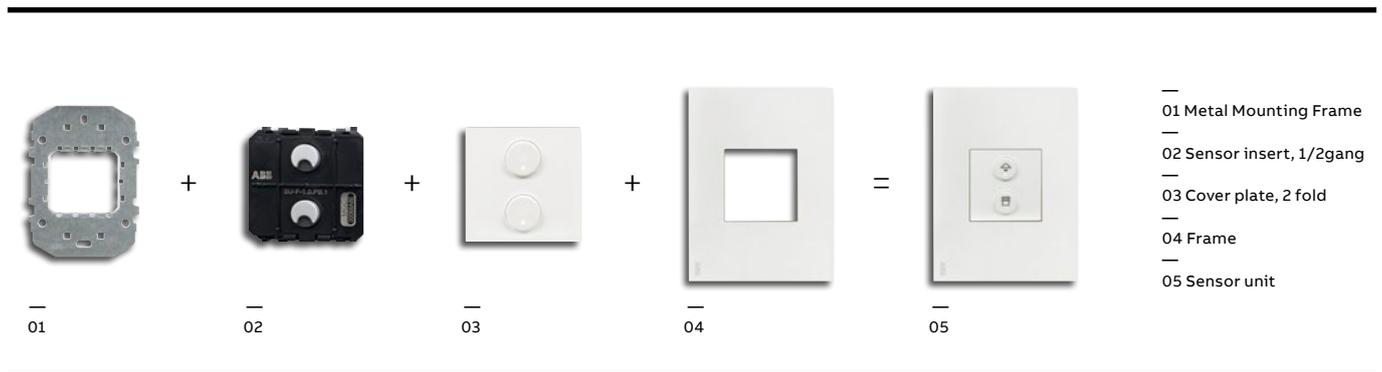
Color options for frames and cover plates
Zenit

Color		Code (c)	Color		Code (c)
	anthracite	AN		white	BL
	aluminum silver	OX		white glass	CB
	champagne	CV		black glass	CN
	stone slate	PZ		wengue wood	WG
	silver	PL			

Available symbols for push buttons

Symbol		Code (i)	Color		Code (i)
	No symbol			Scene	S
	Light	L		Dimmer	D
	Blind	B			

	Cover plate for 2 fold push buttons incl neutral symbols		**Cover plate for 4 fold push buttons incl neutral symbols**
Article no.	SR-2-N2 **c**		SR-4-N2 **c**
Description	As cover for ABB-free@home® 1gang switches of Zenit VDE and NEMA ranges		As cover for ABB-free@home® 2gang switches of Zenit VDE and NEMA ranges
Dimensions (H × W × D)	44 mm x 44 mm		44 mm x 44 mm
Colors (**c**)	AN, BL, CV, PL		AN, BL, CV, PL

	Icon for Zenit Rockers
Article no.	Icons (white): SB**i**-N2BL Icons (grey): SB**i**-N2GR
Description	Interchangeable icons for Zenit rockers, available with several icon designs (**i**) in 2 colors, grey (GR) and white (BL)
Symbols (**i**)	L, B, S, D

	Cover Plate for Movement Detector		**Cover Plate for Room Temperature Controller**
Article no.	CP-MD-N2 **c**		CP-RTC-N2 **c**
Description	As cover for ABB-free@home® movement detector of Zenit VDE and NEMA ranges		As cover for ABB-free@home® room thermostat RTC-F-1.PB
Dimensions (H × W × D)	44 mm x 44 mm		44 mm x 44 mm
Colors (**c**)	AN, BL, CV, PL		AN, BL, CV, PL

	Rectangular Frame, NEMA		**Square Frame, VDE**
Article no.	N2372.1 **c**		N2271 **c**
Description	As frame for ABB-free@home® sensors and rockers of Zenit NEMA range		As frame for ABB-free@home® sensors and rockers of Zenit VDE range
Dimensions (H × W × D)	122 mm x 90 mm		90 mm x 90 mm
Colors (**c**)	AN, OX, CV, PZ, PL, BL, CB, CN, WG		AN, OX, BL

	Metal Mounting Frame NEMA
Article no.	Vertical: N2371.9 V Horizontal: N2373.9
Description	Metal mounting frame for flush mounted units of Zenit NEMA range.
Dimensions (H × W × D)	102 mm x 74 mm, 74 mm x 102 mm
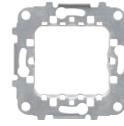
	Metal Mounting Frame VDE
	N2271.9
Description	Metal mounting frame for flush mounted units of Zenit VDE range.
Dimensions (H × W × D)	71 mm x 71 mm

	Metal Mounting Frame VDE
Article no.	N2271.9G
Description	Metal mounting frame with clamps for flush mounted units of Zenit VDE range.
Dimensions (H × W × D)	71 mm x 71 mm

	Sensor/Switch actuator 1/1gang
Article no.	SSA-F-1.1.PB.1
Description	For switching 230 V~ devices. With 1 integrated switch actuator. Switching function is available pre-configured. Use with ABB-free@home® 2 fold push buttons.
Dimensions (H × W × D)	44 mm x 44 mm x 40.9 mm
Technical data	Outputs: 1x normally open contact, potential free Suitable for: resistive Rated current: 10 A Rated power: 2300 W Suitable for: capacitive Rated current: 10 AX Protection class of device: IP 20 Mounting depth: 31.5 mm

	Sensor/Switch actuator 2/1gang
Article no.	SSA-F-2.1.PB.1
Description	For switching 230 V~ devices. With 1 integrated switch actuator. Switching function is available pre-configured. Use with ABB-free@home® 4 fold push buttons.
	44 mm x 44 mm x 40.9 mm
Technical data	Outputs: 1x normally open contact, potential free Suitable for: resistive Rated current: 10 A Rated power: 2300 W Suitable for: capacitive Rated current: 10 AX Protection class of device: IP 20 Mounting depth: 31.5 mm

	Sensor/Switch actuator 2/2gang
Article no.	SSA-F-2.2.PB.1
Description	For switching 230 V~ devices. With 1 integrated switch actuator. Switching function is available pre-configured. Use with ABB-free@home® 4 fold push buttons.
Dimensions (H × W × D)	44 mm x 44 mm x 40.9 mm
Technical data	Outputs: 2× normally open contact, potential free Suitable for: resistive Rated current: 10 A Rated power: 2 x 1200 W Suitable for: capacitive Rated current: 10 AX Protection class of device: IP 20 Mounting depth: 31.5 mm

	Sensor/Dim actuator 1/1gang
Article no.	SDA-F-1.1.PB.1
Description	For dimming 230 V~ loads. With integrated universal dimming actuator for controlling different lamps. The dimming function is available pre-configured. Use with ABB-free@home® 2 fold push buttons.
	44 mm x 44 mm x 40.9 mm
Technical data	Outputs: 1x dimming channel Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformers Rated power: 10–180 W/VA Suitable for: LEDi and energy-saving bulbs Rated power: 2–80 W/VA Protection class of device: IP 20 Mounting depth: 31.5 mm

Sensor/Dim actuator 2/1gang	
Article no.	SDA-F-2.1.PB.1
Description	For dimming 230 V~ loads. With integrated universal dimming actuator for controlling different lamps. The dimming function is available pre-configured. Use with ABB-free@home® 4 fold push buttons.
Dimensions (H × W × D)	44 mm x 44 mm x 40.9 mm
Technical data	Outputs: 1x dimming channel Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformers Rated power: 10–180 W/VA Suitable for: LEDi and energy-saving bulbs Rated power: 2–80 W/VA Protection class of device: IP 20 Mounting depth: 31.5 mm

Sensor/Blind actuator 1/1gang	
	SBA-F-1.1.PB.1
	For controlling blind and awning motors. With integrated blind actuator. Blind function is available pre-configured. To be used with ABB-free@home® 2 fold push buttons.
	44 mm x 44 mm x 40.9 mm
	Outputs: 1x Change-over contacts/normally open contact, potential-bound Rated power: 920 VA Rated current: 4 A Suitable for: Operating mode blind Protection class of device: IP 20 Mounting depth: 31.5 mm

Sensor/Blind actuator 2/1gang	
Article no.	SBA-F-2.1.PB.1
Description	For controlling blind and awning motors. With integrated blind actuator. Blind function is available pre-configured. To be used with ABB-free@home® 4 fold push buttons.
Dimensions (H × W × D)	44 mm x 44 mm x 40.9 mm
Technical data	Outputs: 1x Change-over contacts/normally open contact, potential-bound Rated power: 920 VA Rated current: 4 A Suitable for: Operating mode blind Protection class of device: IP 20 Mounting depth: 31.5 mm

Room temperature controller	
	RTC-F-1.PB
	Room temperature control function for controlling commercially available valve drives or analogue valve drives (continuous controllers). With display of set-value temperature. Only to be used with ABB-free@home® Zenit cover plates for room thermostat.
	44 mm x 44 mm x 29.4 mm
	Display elements: LCD Display showing operation modes Protection class of device: IP 20 Mounting depth: 17.9 mm

	Room temperature controller
Article no.	RTC-F-2.1-1.PB-WL
Description	Room temperature control function for controlling commercially available valve drives or analogue valve drives (continuous controllers). With display of set-value temperature. Only to be used with ABB-free@home® Zenit cover plates for room thermostat.
Dimensions (H × W × D)	44 mm x 44 mm x 29.4 mm
Technical data	Display elements: LCD Display showing operation modes Protection class of device: IP 20 Mounting depth: 17.9 mm

	Sensor unit 1gang
	SU-F-1.0.PB.1
Description	For sending switching, dimming and blind commands to an ABB-free@home® actuator. To be used with ABB-free@home® 2 fold push buttons.
	44 mm x 44 mm x 23.5 mm
	Control element: Switch contacts top/ bottom Display elements: LED as light for orientation or display of switching state Protection class of device: IP 20 Mounting depth: 14.1 mm

	Sensor unit 2gang
Article no.	SU-F-2.0.PB.1
Description	For sending switching, dimming and blind commands to an ABB-free@home® actuator. To be used with ABB-free@home® 4 fold push buttons.
Dimensions (H × W × D)	44 mm x 44 mm x 23.5 mm
Technical data	Control element: Switch contacts top/ bottom Display elements: LED as light for orientation or display of switching state Protection class of device: IP 20 Mounting depth: 14.1 mm

	Movement detector + 1 actuator
	MSA-F-1.1.PB.1
Description	With select lens for detection with animal access. Including an integrated actuator for switching 230 V~ devices. To be used with ABB-free@home® Zenit cover plates for movement detector.
	44 mm x 44 mm x 47 mm
	Outputs: 1× normally open contact, potential free Suitable for: resistive Rated current: 10 A Rated power: 2300 W Suitable for: capacitive Rated current: 10 AX Detection range: frontal 6 m, lateral 3 m Detection angle: 180° Brightness limit value: 1 – 500 lux Protection class of device: IP 20 Mounting depth: 31.5 mm

	Movement detector
Article no.	MD-F-1.0.PB.1
Description	With select lens for detection with animal access. For automatic switching of ABB-free@home® actuators dependent on movement and brightness. To be used with ABB-free@home® Zenit cover plates for movement detector.
Dimensions (H × W × D)	44 mm x 44 mm x 29.6 mm
Technical data	Detection range: frontal 6 m, lateral 3 m Detection angle: 180° Brightness limit value: 1 – 500 lux Protection class of device: IP 20 Mounting depth: 14.1 mm

 wireless

Sensor/Switch actuator 1/1gang, wireless	
Article no.	SSA-F-1.1.PB.1-WL
Description	For switching 230 V~ devices. With integrated actuator. Switching function is available pre-configured. To be used with ABB-free@home® Zenit cover plates for 2 fold push buttons.
Dimensions (H × W × D)	44 mm x 44 mm x 40.9 mm
Technical data	Outputs: 1× normally open contact, potential free Suitable for: resistive Rated current: 10 A Rated power: 2300 W Suitable for: capacitive Rated current: 10 AX Protection class of device: IP 20 Mounting depth: 31.5 mm

 wireless

Sensor/Switch actuator 2/1gang, wireless	
Article no.	SSA-F-2.1.PB.1-WL
Description	For switching 230 V~ devices. With integrated actuator. Switching function is available pre-configured. To be used with ABB-free@home® Zenit cover plates for 4 fold push buttons.
Dimensions (H × W × D)	44 mm x 44 mm x 40.9 mm
Technical data	Outputs: 1× normally open contact, potential free Suitable for: resistive Rated current: 10 A Rated power: 2300 W Suitable for: capacitive Rated current: 10 AX Protection class of device: IP 20 Mounting depth: 31.5 mm

 wireless

Sensor/Switch actuator 2/2gang, wireless	
Article no.	SSA-F-2.2.PB.1-WL
Description	For switching 230 V~ devices. With integrated actuator. Switching function is available pre-configured. To be used with ABB-free@home® Zenit cover plates for 4 fold push buttons.
Dimensions (H × W × D)	44 mm x 44 mm x 40.9 mm
Technical data	Outputs: 2× normally open contact, potential free Suitable for: resistive Rated current: 10 A Rated power: 2 x 1200 W Suitable for: capacitive Rated current: 10 AX Protection class of device: IP 20 Mounting depth: 31.5 mm

 wireless

Sensor/Dim actuator 1/1gang, wireless	
Article no.	SDA-F-1.1.PB.1-WL
Description	For dimming 230 V~ loads. With integrated universal dimming actuator for controlling different lamps. The dimming function is available pre-configured. To be used with ABB-free@home® Zenit cover plates for 2 fold push buttons.
Dimensions (H × W × D)	44 mm x 44 mm x 40.9 mm
Technical data	Outputs: 1× dimming channel Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformers Rated power: 10–180 W/VA Suitable for: LEDi and energy-saving bulbs Rated power: 2–80 W/VA Protection class of device: IP 20 Mounting depth: 31.5 mm

	Sensor/Dim actuator 2/1gang, wireless
Article no.	SDA-F-2.1.PB.1-WL

Description	For dimming 230 V~ loads. With integrated universal dimming actuator for controlling different lamps. The dimming function is available pre-configured. To be used with ABB-free@home® Zenit cover plates for 4 fold push buttons.
Dimensions (H × W × D)	44 mm x 44 mm x 40.9 mm
Technical data	Outputs: 1× dimming channel Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformers Rated power: 10–180 W/VA Suitable for: LEDi and energy-saving bulbs Rated power: 2–80 W/VA Protection class of device: IP 20 Mounting depth: 31.5 mm

	Sensor/Blind actuator 1/1gang, wireless
	SBA-F-1.1.PB.1-WL

	For controlling blind and awning motors. With integrated blind actuator. Blind function is available pre-configured. To be used in combination with ABB-free@home® Zenit cover plates for 2 fold push buttons.
	44 mm x 44 mm x 40.9 mm
	Outputs: 1× Change-over contacts/normally open contact, potential bound Rated power: 920 VA Rated current: 4 A Suitable for: Operating mode blind Protection class of device: IP 20 Mounting depth: 31.5 mm

	Sensor/Blind actuator 2/1gang, wireless
Article no.	SBA-F-2.1.PB.1-WL

Description	For controlling blind and awning motors. With integrated blind actuator. Blind function is available pre-configured. To be used with ABB-free@home® Zenit cover plates for 4 fold push buttons.
Dimensions (H × W × D)	44 mm x 44 mm x 40.9 mm
Technical data	Outputs: 1× Change-over contacts/normally open contact, potential-bound Rated power: 920 VA Rated current: 4 A Suitable for: Operating mode blind Protection class of device: IP 20 Mounting depth: 31.5 mm

	Room Thermostat, wireless
	RTC-F-1.PB-WL

	Room temperature control function for controlling commercially available valve drives or analogue valve drives (continuous controllers) in connection with HA-M-0.6.1, HA-M-0.12.1, FCA-M-2.3.1. With display of set-value temperature. To be used with ABB-free@home® Zenit cover plates for room temperature controller.
	44 mm x 44 mm x 29.4 mm
	Display elements: LCD Display showing operation modes Protection class of device: IP 20 Mounting depth: 17.9 mm

Room Thermostat, wireless

Article no.	RTC-F-2.1-1.PB-WL
Description	Room temperature control function for controlling commercially available valve drives or analogue valve drives (continuous controllers) in connection with HA-M-0.6.1, HA-M-0.12.1, FCA-M-2.3.1. With display of set-value temperature. To be used with ABB-free@home® Zenit cover plates for room temperature controller.
Dimensions (H × W × D)	44 mm x 44 mm x 29.4 mm
Technical data	Display elements: LCD Display showing operation modes Protection class of device: IP 20 Mounting depth: 17.9 mm

Sensor unit 1gang, wireless

Article no.	SU-F-1.0.PB.1-WL
Description	For sending switching, dimming and blind command to an ABB-free@home® actuator. To be used with ABB-free@home® Zenit cover plates for 2 fold push buttons.
	44 mm x 44 mm x 23.5 mm
Technical data	Control element: Switch contacts top/bottom Display elements: LED for orientation or switch state display Protection class of device: IP 20 Mounting depth: 14.1 mm

Sensor unit 2gang, wireless

Article no.	SU-F-2.0.PB.1-WL
Description	For sending switching, dimming and blind command to an ABB-free@home® actuator. To be used with ABB-free@home® Zenit cover plates for 4 fold push buttons.
Dimensions (H × W × D)	44 mm x 44 mm x 23.5 mm
Technical data	Control element: Switch contacts top/bottom Display elements: LED for orientation or switch state display Protection class of device: IP 20 Mounting depth: 14.1 mm

Movement detector + 1 actuator, wireless

Article no.	MSA-F-1.1.1-WL
Description	With select lens for detection with animal access. Including an integrated actuator for switching 230 V~ devices. To be used with ABB-free@home® Zenit cover plates for movement detector.
	44 mm x 44 mm x 47 mm
Technical data	Outputs: 1× normally open contact, potential free Suitable for: resistive Rated current: 10 A Rated power: 2300 W Suitable for: capacitive Rated current: 10 AX Detection range: frontal 6 m, lateral 3 m Detection angle: 180° Brightness limit value: 1 – 500 lux Protection class of device: IP 20 Mounting depth: 31.5 mm

—
01 Switch actuator

—
02 Rocker, 2 fold push buttons

—
03 Frame

—
04 ABB-free@home® Switch Sensor 1/2gang KNX

—
05 ABB-free@home® 1/2gang switches

—
06 ABB-free@home® Room temperature controller

—
07 ABB-free@home® Movement detector

—
08 ABB-free@home® 2/4gang switches

Color options for frames and cover plates
Millenium

Color		Code (c)	Color		Code (c)
	anthracite	AN		matt gold	MG
	antique gold	AG		silk black	SB
	brushed stainless steel	ST			

Available symbols for push buttons

Symbol		Code (i)	Color		Code (i)
	No symbol			Scene	S
	Light	L		Dimmer	D
	Blind	B			

Cover plate for 2 fold push buttons incl neutral symbols

Article no.	SR-2-AMAN
Description	As cover for ABB-free@home® 1/2gang switches of Millenium Range.
Dimensions (H × W × D)	44 mm x 44 mm

Cover plate for 4 fold push buttons incl neutral symbols

Article no.	SR-4-AMAN
Description	As cover for ABB-free@home® 2/4gang switches of Millenium Range.
Dimensions (H × W × D)	44 mm x 44 mm

Cover Plate for Movement Detector

Article no.	CP-MD-AMAN
Description	As cover for ABB-free@home® movement detector of Millenium Range.
Dimensions (H × W × D)	44 mm x 44 mm

Cover Plate for Room Temperature Controller

Article no.	CP-RTC-AMAN
Description	As cover for ABB-free@home® room thermostat RTC-F-1.PB.
Dimensions (H × W × D)	44 mm x 44 mm
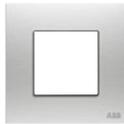
Square Frame, Millenium

Article no.	AMD5144-**c**
Description	As frame for ABB-free@home® sensors and rockers of Millenium Range, includes mounting frame: AMD5053.
Dimensions (H × W × D)	86 mm x 86 mm
Colors (**c**)	AG, MG, SB, ST
Symbols (**i**)	

Icon for Millenium Rockers

	SB**i**-AMAN
	Interchangeable icons for Millenium rockers, available with several icon design options (**i**) in color anthracite.
AN	
L, , S, D	

	Sensor/Switch actuator 1/1gang
Article no.	SSA-F-1.1.PB.1
Description	For switching 230 V~ devices. With 1 integrated switch actuator. Switching function is available pre-configured. Use with ABB-free@home® 2 fold push buttons.
Dimensions (H × W × D)	44 mm x 44 mm x 40.9 mm
Technical data	Outputs: 1x normally open contact, potential free Suitable for: resistive Rated current: 10 A Rated power: 2300 W Suitable for: capacitive Rated current: 10 AX Protection class of device: IP 20 Mounting depth: 31.5 mm

	Sensor/Switch actuator 2/1gang
Article no.	SSA-F-2.1.PB.1
Description	For switching 230 V~ devices. With 1 integrated switch actuator. Switching function is available pre-configured. Use with ABB-free@home® 4 fold push buttons.
Dimensions (H × W × D)	44 mm x 44 mm x 40.9 mm
Technical data	Outputs: 1x normally open contact, potential free Suitable for: resistive Rated current: 10 A Rated power: 2300 W Suitable for: capacitive Rated current: 10 AX Protection class of device: IP 20 Mounting depth: 31.5 mm

	Sensor/Switch actuator 2/2gang
Article no.	SSA-F-2.2.PB.1
Description	For switching 230 V~ devices. With 1 integrated switch actuator. Switching function is available pre-configured. Use with ABB-free@home® 4 fold push buttons.
Dimensions (H × W × D)	44 mm x 44 mm x 40.9 mm
Technical data	Outputs: 2× normally open contact, potential free Suitable for: resistive Rated current: 10 A Rated power: 2 x 1200 W Suitable for: capacitive Rated current: 10 AX Protection class of device: IP 20 Mounting depth: 31.5 mm

	Sensor/Dim actuator 1/1gang
Article no.	SDA-F-1.1.PB.1
Description	For dimming 230 V~ loads. With integrated universal dimming actuator for controlling different lamps. The dimming function is available pre-configured. Use with ABB-free@home® 2 fold push buttons.
Dimensions (H × W × D)	44 mm x 44 mm x 40.9 mm
Technical data	Outputs: 1x dimming channel Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformers Rated power: 10–180 W/VA Suitable for: LEDi and energy-saving bulbs Rated power: 2–80 W/VA Protection class of device: IP 20 Mounting depth: 31.5 mm

	Sensor/Dim actuator 2/1gang
Article no.	SDA-F-2.1.PB.1
Description	For dimming 230 V~ loads. With integrated universal dimming actuator for controlling different lamps. The dimming function is available pre-configured. Use with ABB-free@home® 4 fold push buttons.
Dimensions (H × W × D)	44 mm x 44 mm x 40.9 mm
Technical data	Outputs: 1x dimming channel Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformers Rated power: 10–180 W/VA Suitable for: LEDi and energy-saving bulbs Rated power: 2–80 W/VA Protection class of device: IP 20 Mounting depth: 31.5 mm

|	**Sensor/Blind actuator 1/1gang**
Article no.	SBA-F-1.1.PB.1
Description	For controlling blind and awning motors. With integrated blind actuator. Blind function is available pre-configured. To be used with ABB-free@home® 2 fold push buttons.
Dimensions (H × W × D)	44 mm x 44 mm x 40.9 mm
Technical data	Outputs: 1x Change-over contacts/normally open contact, potential-bound Rated power: 920 VA Rated current: 4 A Suitable for: Operating mode blind Protection class of device: IP 20 Mounting depth: 31.5 mm

	Sensor/Blind actuator 2/1gang
Article no.	SBA-F-2.1.PB.1
Description	For controlling blind and awning motors. With integrated blind actuator. Blind function is available pre-configured. To be used with ABB-free@home® 4 fold push buttons.
Dimensions (H × W × D)	44 mm x 44 mm x 40.9 mm
Technical data	Outputs: 1x Change-over contacts/normally open contact, potential-bound Rated power: 920 VA Rated current: 4 A Suitable for: Operating mode blind Protection class of device: IP 20 Mounting depth: 31.5 mm

	Room Temperature Controller
Article no.	RTC-F-1.PB
Description	Room temperature control function for controlling commercially available valve drives or analogue valve drives (continuous controllers). With display of set-value temperature. Only to be used with ABB-free@home® Zenit cover plates for room thermostat.
	44 mm x 44 mm x 29.4 mm
	Display elements: LCD Display showing operation modes Protection class of device: IP 20 Mounting depth: 17.9 mm

	Room temperature controller
Article no.	RTC-F-2.1-1.PB-WL
Description	Room temperature control function for controlling commercially available valve drives or analogue valve drives (continuous controllers). With display of set-value temperature. Only to be used with ABB-free@home® Zenit cover plates for room thermostat.
Dimensions (H × W × D)	44 mm x 44 mm x 29.4 mm
Technical data	Display elements: LCD Display showing operation modes Protection class of device: IP 20 Mounting depth: 17.9 mm

	Sensor unit 1gang
Article no.	SU-F-1.0.PB.1
Description	For sending switching, dimming and blind commands to an ABB-free@home® actuator. To be used with ABB-free@home® 2 fold push buttons.
Dimensions (H × W × D)	44 mm x 44 mm x 23.5 mm
Technical data	Control element: Switch contacts top/ bottom Display elements: LED as light for orientation or display of switching state Protection class of device: IP 20 Mounting depth: 14.1 mm

	Sensor unit 2gang
Article no.	SU-F-2.0.PB.1
Description	For sending switching, dimming and blind commands to an ABB-free@home® actuator. To be used with ABB-free@home® 4 fold push buttons.
Dimensions (H × W × D)	44 mm x 44 mm x 23.5 mm
Technical data	Control element: Switch contacts top/ bottom Display elements: LED as light for orientation or display of switching state Protection class of device: IP 20 Mounting depth: 14.1 mm

	Movement detector + 1 actuator
Article no.	MSA-F-1.1.PB.1
Description	With select lens for detection with animal access. Including an integrated actuator for switching 230 V~ devices. To be used with ABB-free@home® Zenit cover plates for movement detector.
Dimensions (H × W × D)	44 mm x 44 mm x 47 mm
Technical data	Outputs: 1× normally open contact, potential free Suitable for: resistive Rated current: 10 A Rated power: 2300 W Suitable for: capacitive Rated current: 10 AX Detection range: frontal 6 m, lateral 3 m Detection angle: 180° Brightness limit value: 1 – 500 lux Protection class of device: IP 20 Mounting depth: 31.5 mm

	Movement detector
Article no.	MD-F-1.0.PB.1

Description	With select lens for detection with animal access. For automatic switching of ABB-free@home® actuators dependent on movement and brightness. To be used with ABB-free@home® Zenit cover plates for movement detector.
Dimensions (H × W × D)	44 mm x 44 mm x 29.6 mm
Technical data	Detection range: frontal 6 m, lateral 3 m Detection angle: 180° Brightness limit value: 1 – 500 lux Protection class of device: IP 20 Mounting depth: 14.1 mm

Sensor/Switch actuator 1/1gang, wireless	
Article no.	SSA-F-1.1.PB.1-WL
Description	For switching 230 V~ devices. With integrated actuator. Switching function is available pre-configured. To be used with ABB-free@home® Zenit cover plates for 2 fold push buttons.
Dimensions (H × W × D)	44 mm x 44 mm x 40.9 mm
Technical data	Outputs: 1× normally open contact, potential free Suitable for: resistive Rated current: 10 A Rated power: 2300 W Suitable for: capacitive Rated current: 10 AX Protection class of device: IP 20 Mounting depth: 31.5 mm

Sensor/Switch actuator 2/1gang, wireless	
Article no.	SSA-F-2.1.PB.1-WL
Description	For switching 230 V~ devices. With integrated actuator. Switching function is available pre-configured. To be used with ABB-free@home® Zenit cover plates for 4 fold push buttons.
Dimensions (H × W × D)	44 mm x 44 mm x 40.9 mm
Technical data	Outputs: 1× normally open contact, potential free Suitable for: resistive Rated current: 10 A Rated power: 2300 W Suitable for: capacitive Rated current: 10 AX Protection class of device: IP 20 Mounting depth: 31.5 mm

Sensor/Switch actuator 2/2gang, wireless	
Article no.	SSA-F-2.2.PB.1-WL
Description	For switching 230 V~ devices. With integrated actuator. Switching function is available pre-configured. To be used with ABB-free@home® Zenit cover plates for 4 fold push buttons.
Dimensions (H × W × D)	44 mm x 44 mm x 40.9 mm
Technical data	Outputs: 2× normally open contact, potential free Suitable for: resistive Rated current: 10 A Rated power: 2 x 1200 W Suitable for: capacitive Rated current: 10 AX Protection class of device: IP 20 Mounting depth: 31.5 mm

Sensor/Dim actuator 1/1gang, wireless	
Article no.	SDA-F-1.1.PB.1-WL
Description	For dimming 230 V~ loads. With integrated universal dimming actuator for controlling different lamps. The dimming function is available pre-configured. To be used with ABB-free@home® Zenit cover plates for 2 fold push buttons.
Dimensions (H × W × D)	44 mm x 44 mm x 40.9 mm
Technical data	Outputs: 1× dimming channel Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformers Rated power: 10–180 W/VA Suitable for: LEDi and energy-saving bulbs Rated power: 2–80 W/VA Protection class of device: IP 20 Mounting depth: 31.5 mm

Sensor/Dim actuator 2/1gang, wireless

Article no.	SDA-F-2.1.PB.1-WL

Description	For dimming 230 V~ loads. With integrated universal dimming actuator for controlling different lamps. The dimming function is available pre-configured. To be used with ABB-free@home® Zenit cover plates for 4 fold push buttons.
Dimensions (H × W × D)	44 mm x 44 mm x 40.9 mm
Technical data	Outputs: 1× dimming channel Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformers Rated power: 10–180 W/VA Suitable for: LEDi and energy-saving bulbs Rated power: 2–80 W/VA Protection class of device: IP 20 Mounting depth: 31.5 mm

Sensor/Blind actuator 1/1gang, wireless

SBA-F-1.1.PB.1-WL

For controlling blind and awning motors. With integrated blind actuator. Blind function is available pre-configured. To be used in combination with ABB-free@home® Zenit cover plates for 2 fold push buttons.

44 mm x 44 mm x 40.9 mm

Outputs: 1× Change-over contacts/normally open contact, potential bound
Rated power: 920 VA
Rated current: 4 A
Suitable for: Operating mode blind
Protection class of device: IP 20
Mounting depth: 31.5 mm

Sensor/Blind actuator 2/1gang, wireless

Article no.	SBA-F-2.1.PB.1-WL

Description	For controlling blind and awning motors. With integrated blind actuator. Blind function is available pre-configured. To be used with ABB-free@home® Zenit cover plates for 4 fold push buttons.
Dimensions (H × W × D)	44 mm x 44 mm x 40.9 mm
Technical data	Outputs: 1× Change-over contacts/normally open contact, potential-bound Rated power: 920 VA Rated current: 4 A Suitable for: Operating mode blind Protection class of device: IP 20 Mounting depth: 31.5 mm

Room Thermostat, wireless

RTC-F-1.PB-WL

Room temperature control function for controlling commercially available valve drives or analogue valve drives (continuous controllers) in connection with HA-M-0.6.1, HA-M-0.12.1, FCA-M-2.3.1. With display of set-value temperature. To be used with ABB-free@home® Zenit cover plates for room temperature controller.

44 mm x 44 mm x 29.4 mm

Display elements: LCD Display showing operation modes
Protection class of device: IP 20
Mounting depth: 17.9 mm

wireless

Room Thermostat, wireless

Article no.	RTC-F-2.1-1.PB-WL
Description	Room temperature control function for controlling commercially available valve drives or analogue valve drives (continuous controllers) in connection with HA-M-0.6.1, HA-M-0.12.1, FCA-M-2.3.1. With display of set-value temperature. To be used with ABB-free@home® Zenit cover plates for room temperature controller.
Dimensions (H × W × D)	44 mm x 44 mm x 29.4 mm
Technical data	Display elements: LCD Display showing operation modes Protection class of device: IP 20 Mounting depth: 17.9 mm

wireless

Sensor unit 1gang, wireless

Article no.	SU-F-1.0.PB.1-WL
Description	For sending switching, dimming and blind command to an ABB-free@home® actuator. To be used with ABB-free@home® Zenit cover plates for 2 fold push buttons.
Dimensions	44 mm x 44 mm x 23.5 mm
Technical data	Control element: Switch contacts top/bottom Display elements: LED for orientation or switch state display Protection class of device: IP 20 Mounting depth: 14.1 mm

wireless

Sensor unit 2gang, wireless

Article no.	SU-F-2.0.PB.1-WL
Description	For sending switching, dimming and blind command to an ABB-free@home® actuator. To be used with ABB-free@home® Zenit cover plates for 4 fold push buttons.
Dimensions (H × W × D)	44 mm x 44 mm x 23.5 mm
Technical data	Control element: Switch contacts top/bottom Display elements: LED for orientation or switch state display Protection class of device: IP 20 Mounting depth: 14.1 mm

wireless

Movement detector + 1 actuator, wireless

|	
Article no.	MSA-F-1.1.1-WL
Description	With select lens for detection with animal access. Including an integrated actuator for switching 230 V~ devices. To be used with ABB-free@home® Zenit cover plates for movement detector.
	44 mm x 44 mm x 47 mm
	Outputs: 1× normally open contact, potential free Suitable for: resistive Rated current: 10 A Rated power: 2300 W Suitable for: capacitive Rated current: 10 AX Detection range: frontal 6 m, lateral 3 m Detection angle: 180° Brightness limit value: 1 – 500 lux Protection class of device: IP 20 Mounting depth: 31.5 mm

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Notes
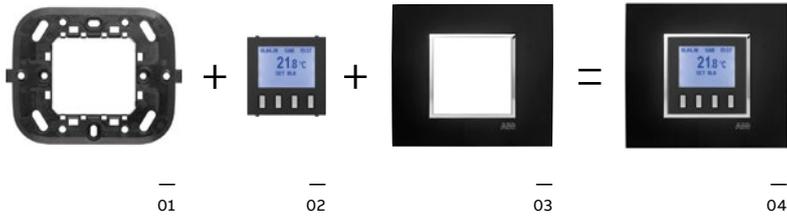
—
01
2 modules Mylos
mounting grid

—
02
2 modules Mylos
free@home device

—
03
2 modules
Mylos frame

—
04
ABB-free@home®
RTC Unit - Mylos
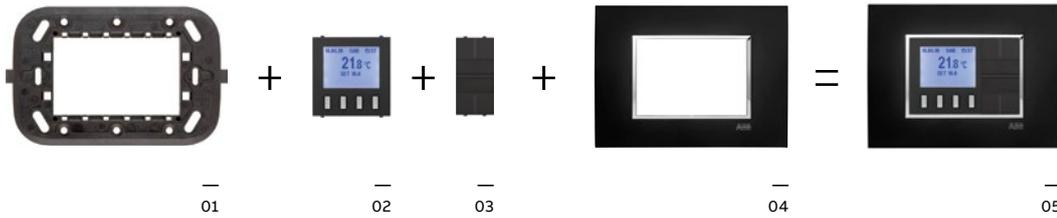
—
01
3 modules Mylos
mounting grid

—
02
2 modules Mylos
free@home device

—
03
1 module Mylos
free@home device

—
04
3 modules Mylos frame

—
05
ABB-free@home®
RTC and actuator unit - Mylos

Color options for key covers
Mylos

Color		Code (c)	Color		Code (c)
■	black	S	□	white	C

Avaliable symbols for key covers

1 module key cover with customization labels

	No symbol			Blind up
OFF	OFF			Blind down
OFF GEN	General OFF			Cocktail scene
ON	ON			Reading scene
ON GEN	General ON			Night scene
·ö·	Light			

2 modules key covers

Input module, 1 rocker switch, 1 module

Article no.	2CSYE1012 **c**
Description	1 module, 1 rocker switch device used as an input channel in ABB-free@home® system. Equipped with programming button for the identification. Flush-mounted installation. Customization labels are available as separate articles 2CSYE1502C and 2CSYE1502S.
Dimensions (H × W × D)	22 mm × 45 mm
Colors (**c**)	C,S

2 binary inputs module, 1 rocker switch

	2CSYE1002 **c**
	2 modules device equipped with:1 rocker switch that can be used as the input channel; 2 input channels that can be used to interface binary inputs to ABB-free@home® system. LEDs for the functional signaling of the load to which the rocker switch is connected. Flush-mounted installation.
	44 mm × 45 mm
	C,S

2 binary inputs module, 2 rocker switches

Article no.	2CSYE1003 **c**
Description	2 modules device equipped with:2 rocker switches that can be used as the input channels; 2 input channels that can be used to interface binary inputs to ABB-free@home® system. LEDs for the functional signaling of the load to which the rocker switches are connected. Flush-mounted installation.
Dimensions (H × W × D)	44 mm × 45 mm
Colors (**c**)	C,S

16A relay actuator

	2CSYE1101 **c**
	2 modules device with 1 16A relay. Equipped with programming button for identification and LED for functional signaling. Flush-mounted installation.
	44 mm × 45 mm
	C,S

16A relay actuator, 1 rocker switch

Article no.	2CSYE1102 **c**
Description	2 modules device with 1 16A relay with rocker switch (pre-programmed linkage). Equipped with LED for load functional signaling. Flush-mounted installation.
Dimensions (H × W × D)	44 mm × 45 mm
Colors (**c**)	C,S

16A relay actuator, 2 rocker switches

|	
	2CSYE1103 **c**
	2 modules device equipped with:1 16A relay with rocker switch (pre-programmed linkage with the opportunity to invert the button to be associated); 1 rocker switch to be used as input channel. Equipped with LED for functional signaling of the loads the channels are associated with. Flush-mounted installation.
	44 mm × 45 mm
	C,S

Actuator, 2 8A relays, 2 rocker switches

Article no.	2CSYE1106 **c**
Description	2 modules device with 2 8A relays with rocker switches (the pre-programmed linkage cannot be changed). Equipped with LED for load functional signaling. Flush-mounted installation.
Dimensions (H × W × D)	44 mm × 45 mm
Colors (**c**)	C,S

Blind actuator

Article no.	2CSYE1104 **c**
Description	2 modules device equipped with blind control actuator. Equipped with LED for functional signaling. Flush-mounted installation.
	44 mm × 45 mm
	C,S

Blind actuator, 1 rocker switch

Article no.	2CSYE1105 **c**
Description	2 modules device equipped with blind control actuator and rocker switch. Equipped with LED for functional signaling. Flush-mounted installation.
Dimensions (H × W × D)	44 mm × 45 mm
Colors (**c**)	C,S

350W dimmer with rocker switch

Article no.	2CSYE1205 **c**
Description	2 modules device with 350W dimmer and rocker switch (preprogrammed linkage). Suitable for inductive and capacitive load with automatic recognition. Equipped with LED for load functional signaling.Flush-mounted installation.
	44 mm × 45 mm
	C,S

Reg1/10V dimmer with rocker switch

Article no.	2CSYE1206 **c**
Description	2 modules device equipped with 1/10V dimmer with rocker switch (pre-programmed linkage). Suitable for loads with ballast adjustment. Equipped with LED for load functional signaling. Flush-mounted installation.
Dimensions (H × W × D)	44 mm × 45 mm
Colors (**c**)	C,S

Thermostat

Article no.	2CSYE1202 **c**
Description	2 modules thermostat with display. 4 operating modes, centralized management via touch panel or remotely. Flush-mounted installation. NOTE: To be linked to the 8A thermostat ralay actuator (2CSYE1107C S) or to the 6/12-channel heating actuators (2CSYF1431M or 2CSYF1432M)
	44 mm × 45 mm
	C,S

8A heating relay actuator module

Article no.	2CSYE1107 **c**

Description	1 module device with 1 8A relay. To be used as an output channel or as an actuator for thermoregulation. Equipped with programming button for the identification. Flush-mounted installation.
Dimensions (H × W × D)	22 mm × 45 mm
Colors (**c**)	C,S

1 module key covers

Article no.	2CSYE1501 **c**

Description	1 module key covers, customizable with labels available as separate articles 2CSYE1502C and 2CSYE1502S
Dimensions	22 mm × 45 mm
Colors	C,S

Customization labels

Article no.	2CSYE1502 **c**

Description	Customization lables for 1 module key covers
Dimensions (H × W × D)	
Colors (**c**)	C,S

2 modules key cover

Article no.	2CSYE1503 **c**

Description	2 modules key cover without symbols
Dimensions	44 mm × 45 mm
Colors	C,S

2 modules key cover with blind symbol

Article no.	2CSYE1504 **c**

Description	2 modules key cover with blind symbol
Dimensions (H × W × D)	44 mm × 45 mm
Colors (**c**)	C,S

2 modules key cover with dimmer symbol

Article no.	2CSYE1505 **c**

Description	2 modules key cover with dimmer symbol
Dimensions (H × W × D)	44 mm × 45 mm
Colors (**c**)	C,S

Binary input 2gang	
Article no.	BI-F-2.0.1
Description	Conventional push-buttons or auxiliary contacts can be connected to 2 channels. The information of the contact enquiry can be used for activating ABB-free@home® actuators or for recording status information. The contact polling voltage is made available from the binary input itself. Extension of the connecting cables possible by a maximum of 10 m. Flush-mounted device for installation in a 60 mm device box or distribution box.
Dimensions (H × W × D)	39 mm × 40 mm × 12 mm
Technical data	Inputs: 2 Polling voltage: 20 V– Protection type of device: IP 20

Binary input 4gang	
Article no.	BI-F-4.0.1
Description	Conventional push-buttons or auxiliary contacts can be connected to 4 channels. The information of the contact enquiry can be used for activating ABB-free@home® actuators or for recording status information. The contact polling voltage is made available from the binary input itself. Extension of the connecting cables possible by a maximum of 10 m. Flush-mounted device for installation in a 60 mm device box or distribution box.
Dimensions (H × W × D)	39 mm × 40 mm × 12 mm
Technical data	Inputs: 4 Polling voltage: 20 V– Protection type of device: IP 20

Split Unit Gateway, FM	
Article no.	SUG-F-1.1
Description	The device is used to interface between the free@home system and many manufacturers' air conditioners, so-called split units. The device converts the free@home telegrams into infrared commands and transmits them to the split unit. The transmitter of the supplied cable is bonded directly onto the split unit's receiver. The split unit then no longer receives the commands from a remote control. Instead, it can be operated via any free@home sensors. The model of the split unit can be selected during commissioning. Auxiliary voltage is not required.
Dimensions (H × W × D)	39 mm x 40 mm x 12 mm
Technical data	Outputs: 1 Bus voltage: 24 V Protection class (device): IP 20

	Fan coil actuator, MDRC	**Power supply**
Article no.	FCA-M-2.3.1	PS-M-64.1.1
Description	For controlling blower convectors. Supports 2-pipe and 4-pipe system for heating and cooling. The fan speed levels can be switched using a changeover or step switch function. Three contacts for switching a three-stage fan. Two contacts for activating the heating and cooling valves. With two binary inputs for connecting dewpoint and condensation contacts. The scanning voltage is provided by the device. The bus connection is provided via the enclosed bus terminal.	Power supply with integrated choke. Fast diagnosis due to LED display for operational readiness and errors.
Dimensions (H × W × D)	90 mm × 108 mm × 64 mm	90 mm × 72 mm × 64 mm
Technical data	Supports 24 V and 230 V valves Outputs: 3x Normally open contact, potential free Suitable for: AC3 Rated current: 6 A Output voltage: 230 V~ Protection type of device: IP 20 Module width: 6 MW	Display element: operating/overload LED Nominal voltage: 230 V~, +10 %/-15 % Secondary: 30 V, +2 V/-2 V Rated frequency: 50 Hz/60 Hz Outputs: 1 Nominal current: 640 mA Protection type of device: IP 20 Module width: 4 MW

	Binary input 4gang
Article no.	BI-M-4.0.1
Description	Records 10 to 230 V AC/DC signals via 4 channels. The information of the signal evaluation can be used for activating ABB-free@home® actuators or for recording status information.
Dimensions (H × W × D)	90 mm × 36 mm × 64 mm
Technical data	Inputs: 4 Protection type of device: IP 20 Module width: 2 MW

	Switch actuator 4gang
	SA-M-0.4.1
	For switching 4 independent 230 V~ loads. Each contact has a manual operation function independent of auxiliary voltage for additionally displaying the contact setting.
	90 mm × 72 mm × 64 mm
	Outputs: 4 Type of load: AC1 Nominal current: 16 A, at cos φ 0.8 Output voltage: 230 V~ Type of load: AC3 Nominal current: 8 A, at cos φ 0.45 Protection type of device: IP 20 Module width: 4 MW

	Switch actuator 8gang
Article no.	SA-M-8.8.1
Description	The binary inputs can be used as an interface for convenient operation of free@home systems via potential free pushbuttons or for reading technical binary signals. The switching outputs can be switched independently as a function of other sensors connected to the bus.
Dimensions (H × W × D)	90 mm × 144 mm × 64 mm
Technical data	Inputs: 8 Polling voltage: 32 V Max. cable length: ≤100m Outputs: 8 Suitable for: AC1 Rated current: 6 A, at cos φ 0.8 Output voltage: 230 V~ Suitable for: AC3 Rated current: 6 A, at cos φ 0.45 Protection class of device: IP 20 Module width: 8 MW

	Blind actuator 4gang
	BA-M-0.4.1
	For controlling 4 independent blind or roller shutter drives. The outputs are inversely blocked.
	90 mm × 72 mm × 64 mm
	Outputs: 4 Type of load: AC3 Nominal current: 6 A, at cos φ 0.45 Output voltage: 230 V~ Protection type of device: IP 20 Module width: 4 MW

	Dimming actuator, 4gang
Article no.	DA/M.4.210.2.1
Description	Multichannel universal dimming actuator optimised for dimming retrofit LED lamps (LEDi). Also suitable for dimming incandescent lamps, low-voltage halogen lights with conventional or electronic transformers, 230 V halogen lamps and dimmable energy-saving halogen lamps. Automatic load detection (can be deactivated). Separate N-connection per channel. Parallel connection of the outputs possible to increase the output power. Outputs can be connected in parallel in any configuration. Minimum load: 2 W.
Dimensions (H × W × D)	90 mm x 108 mm x 64 mm
Technical data	Rated voltage: 110 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 4x dimming channel Rated power: 2 - 210 W/VA Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 90 mm x 108 mm x 64 mm Mounting depth: 68 mm Module width: 6 MW

	Dimming actuator, 6gang
	DA/M.6.210.2.1
	Multichannel universal dimming actuator optimised for dimming retrofit LED lamps (LEDi). Also suitable for dimming incandescent lamps, low-voltage halogen lights with conventional or electronic transformers, 230 V halogen lamps and dimmable energy-saving halogen lamps. Automatic load detection (can be deactivated). Separate N-connection per channel. Parallel connection of the outputs possible to increase the output power. Outputs can be connected in parallel in any configuration. Minimum load: 2 W.
	90 mm x 144 mm x 64 mm
	Rated voltage: 110 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 6x dimming channel Rated power: 2 - 210 W/VA Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 90 mm x 144 mm x 64 mm Mounting depth: 68 mm Module width: 8 MW

|	**DALI Gateway, MDRC**
Article no.	HA-M-0.12.1
Description	The device is used to interface between DALI and free@home installations and incorporates the DALI power supply. One DALI output for up to 16 DALI Slaves.
Dimensions (H × W × D)	90mm x 72 mm x 64 mm
Technical data	Bus voltage: 24 V Rated voltage: 100 – 240 V ~ Rated frequency: 50 Hz, 60 Hz DALI outputs: 1 Protection class (device): IP 20

	Heating actuator 12gang	**Heating actuator 6gang**
Article no.	HA-M-0.12.1	HA-M-0.6.1
Description	For controlling thermoelectric actuating drives in heating/cooling systems.The outputs are protected against short-circuit and overload.	For controlling thermoelectric actuating drives in heating/cooling systems. The outputs are protected against short-circuit and overload.
Dimensions (H × W × D)	90 mm × 144 mm × 64 mm	90 mm × 72 mm × 64 mm
Technical data	Outputs: 12 Type of load: resistive Nominal current: 160 mA Protection type of device: IP 20 Module width: 8 MW	Outputs: 6 Type of load: resistive Nominal current: 160 mA Protection type of device: IP 20 Module width: 4 MW

Communicative and competent
The ABB partner close to you

Advice and assistance close to you. Your electrician will be happy to explain to you in detail the advantages of ABB-free@home® in a face-to-face discussion. This will allow home automation to be planned to suit your individual requirements.

free@home
for iOS

free@home
for Android
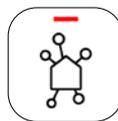
The ABB-free@home® app
The activation of the voice control in the ABB-free@home® app suffices to control the climate, lights and safety in the entire house via voice input: "Switch on the lamp in the living room", "Move all the blinds up", and whatever else you wish, without having to learn special commands, without laborious configuration. The previously defined names of rooms, floors and devices continue to be used without interruption. Everything remains in the one system for the future.

ABB

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