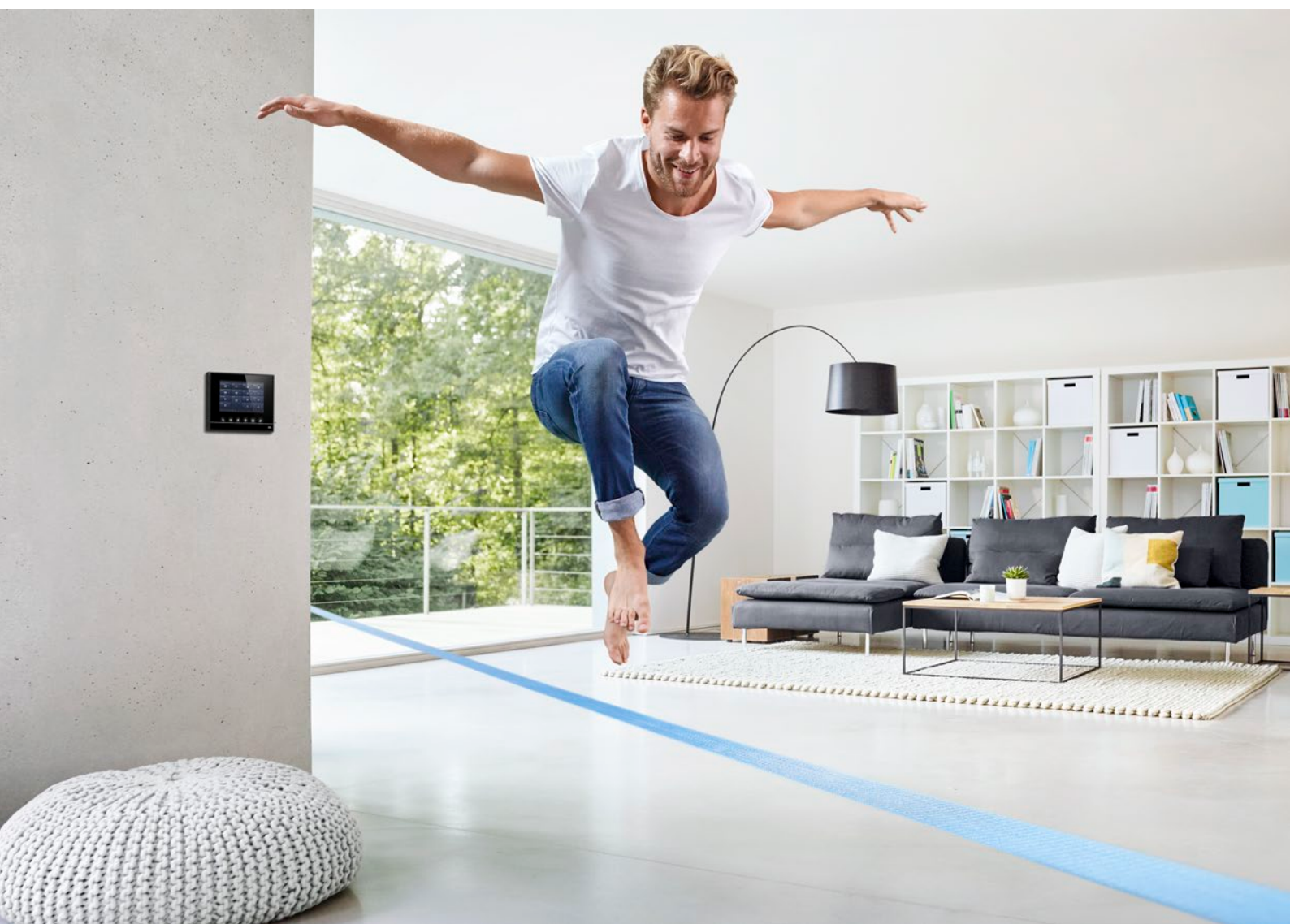


SMART HOME

## **ABB-free@home®**

Making home automation  
easier than ever.





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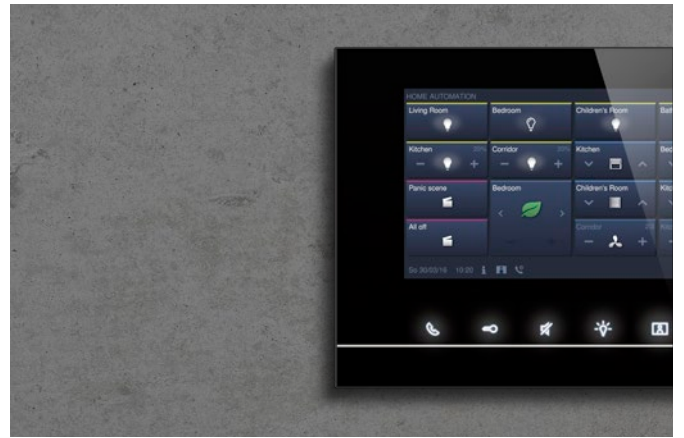
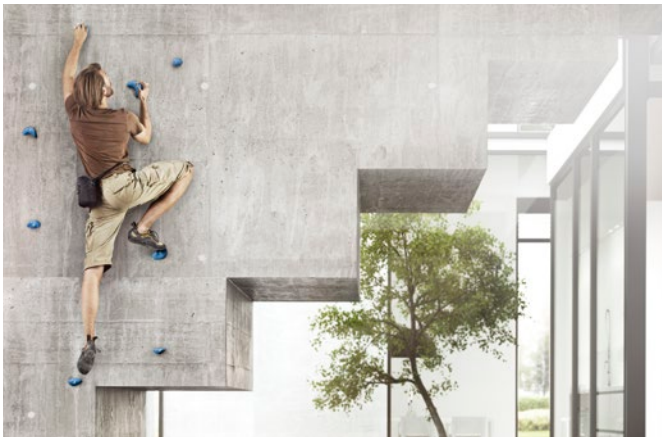
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—  
FREEDOM

# Home becomes smart.



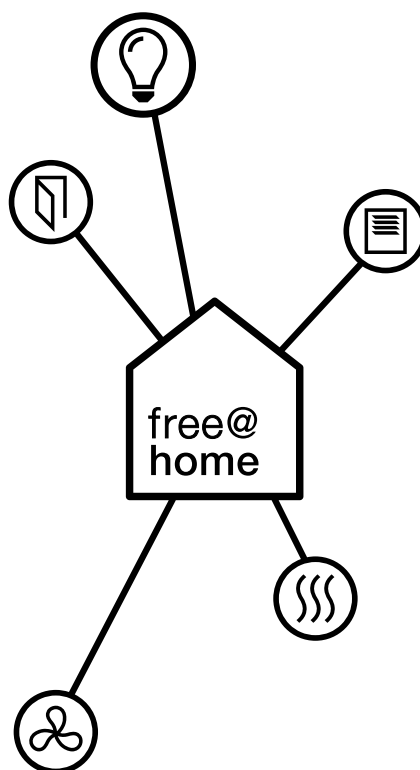


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## Just as you like it.

### 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.





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**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.





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# 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.





Blinds



Light



Heating



Air-conditioning



Door communication

**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.



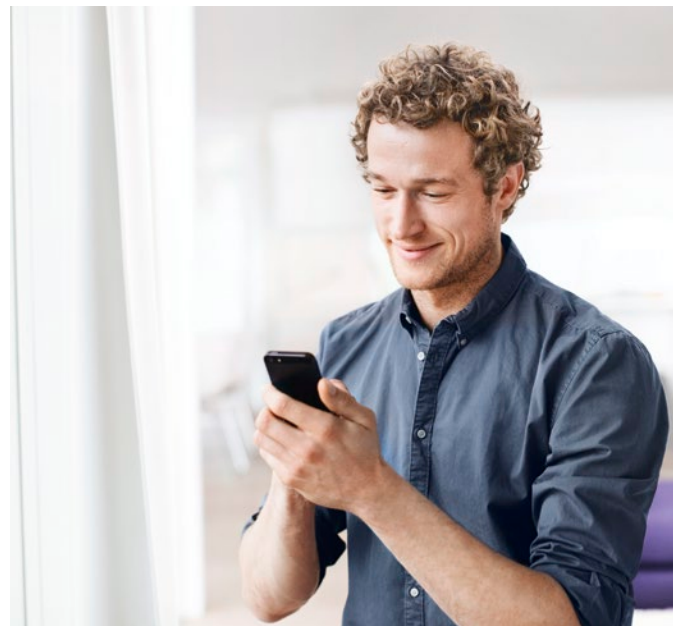
#### Door communication

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", 17.8cm), 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.

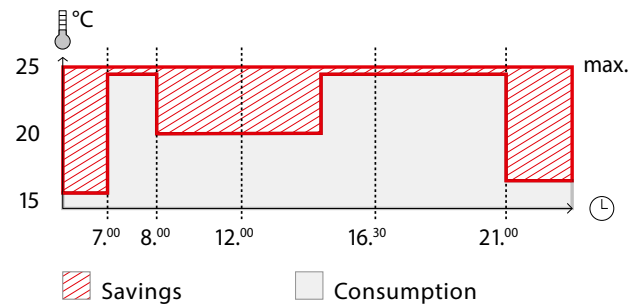
The ideal temperature is never the same. Depending on the time of the day, the room temperature controller provides your personal feel-good temperature. The heating valves are controlled wirelessly – with radio-controlled thermal actuating drives. The room temperature controllers can be integrated into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





### 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

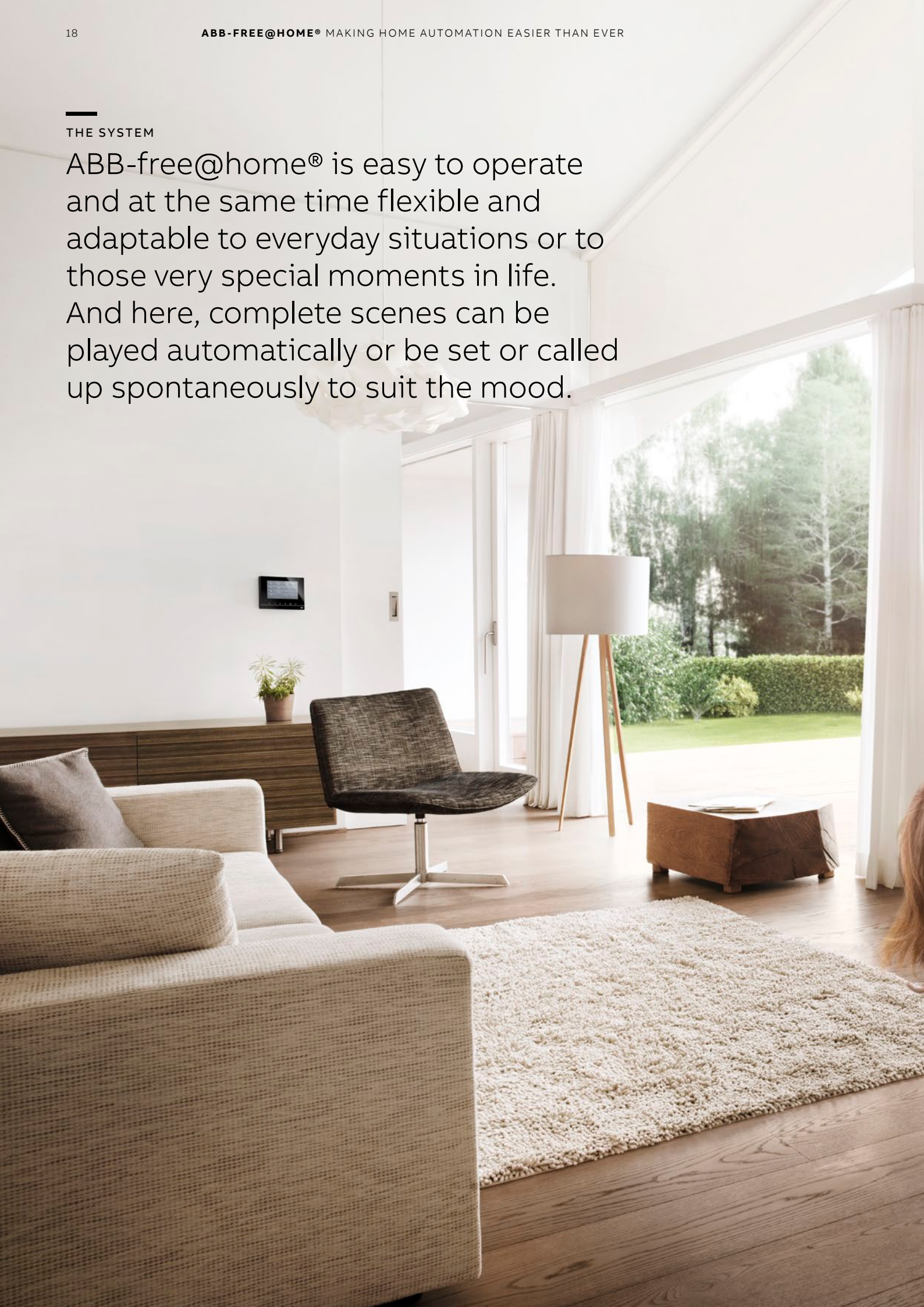


- Heating to suit individual requirements: depending on the daily routines instead of specific requirements
- For conventional heaters or under-floor heating
- Support of energy efficiency
- ECO mode
- Local operation or remote controlled via app for smartphone and tablet

---

#### THE 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.

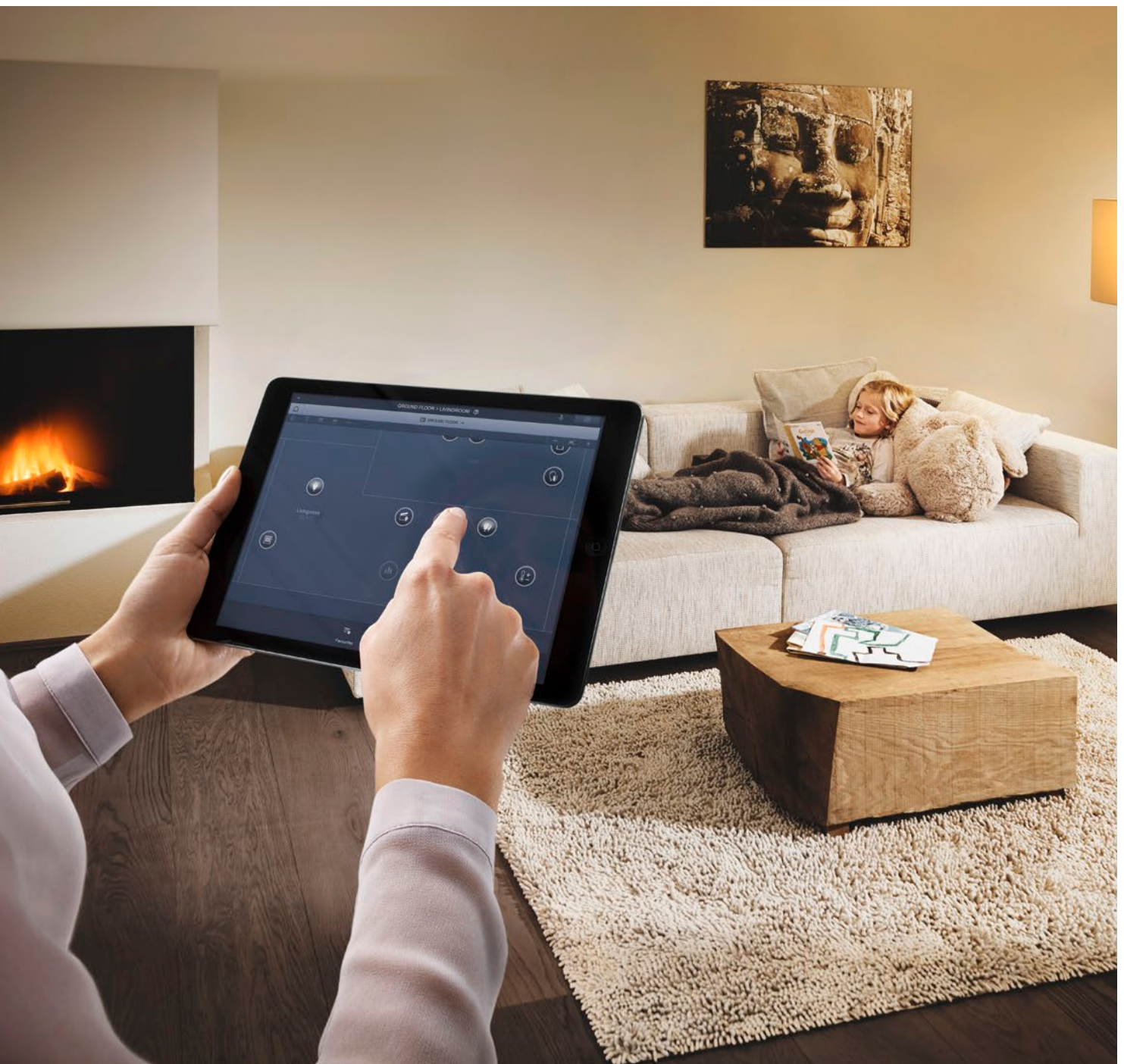




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## Atmosphere at the press of a button. With a personal comfort scene.

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.

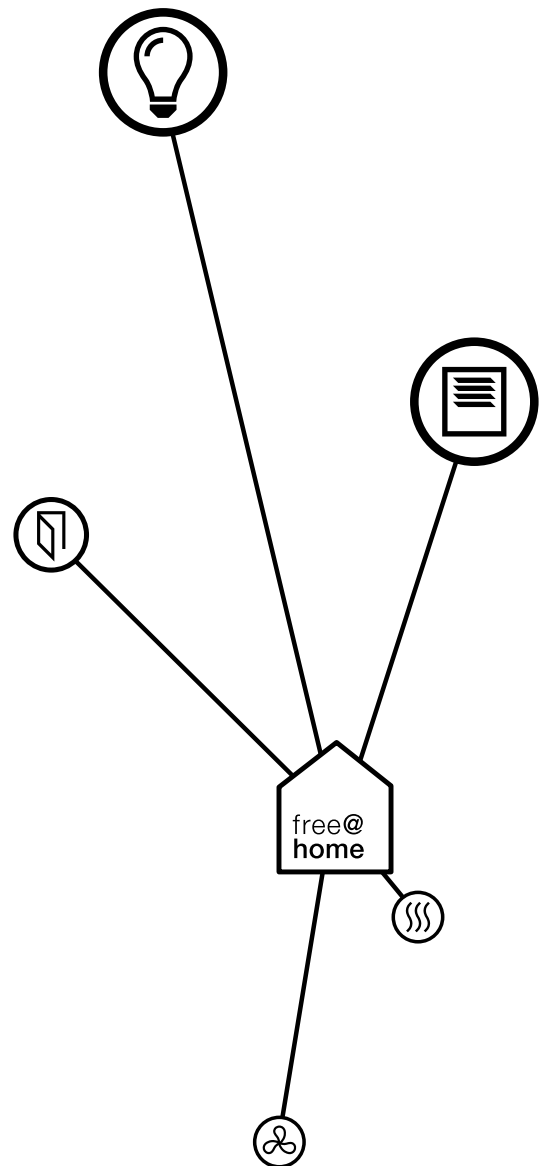


**Sonos**

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.

**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.

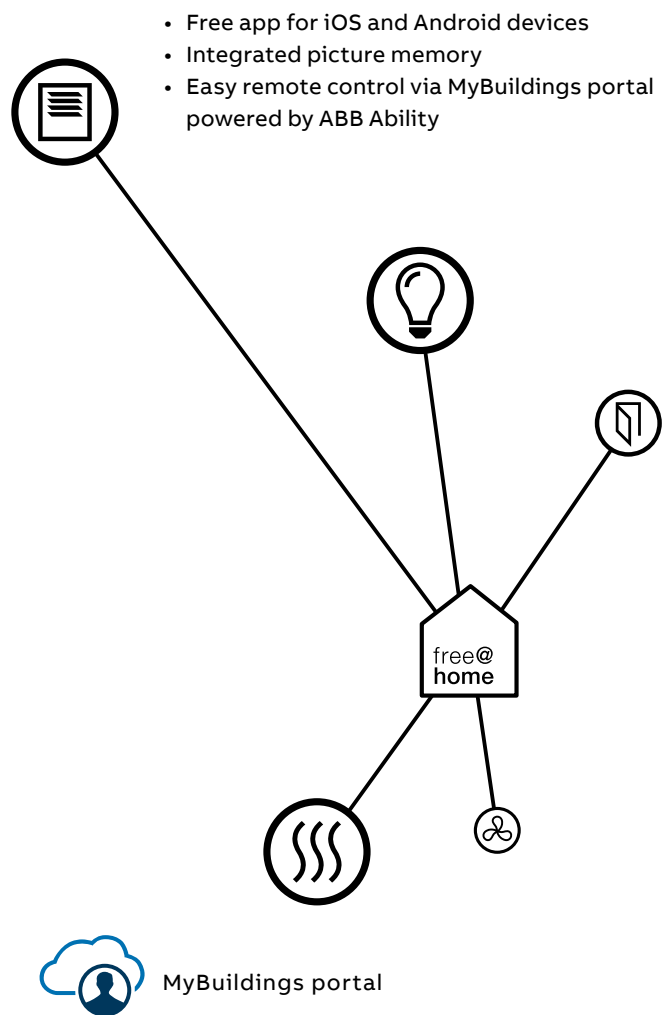
## With presence simulation.

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.



### Presence simulation

Always a good feeling. Because the presence simulation of ABB-free@home® records the weekly actions of all devices in the home. And this is how it convincingly simulates 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 enters 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.

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## Everything off with a single function. A reassuring feeling.

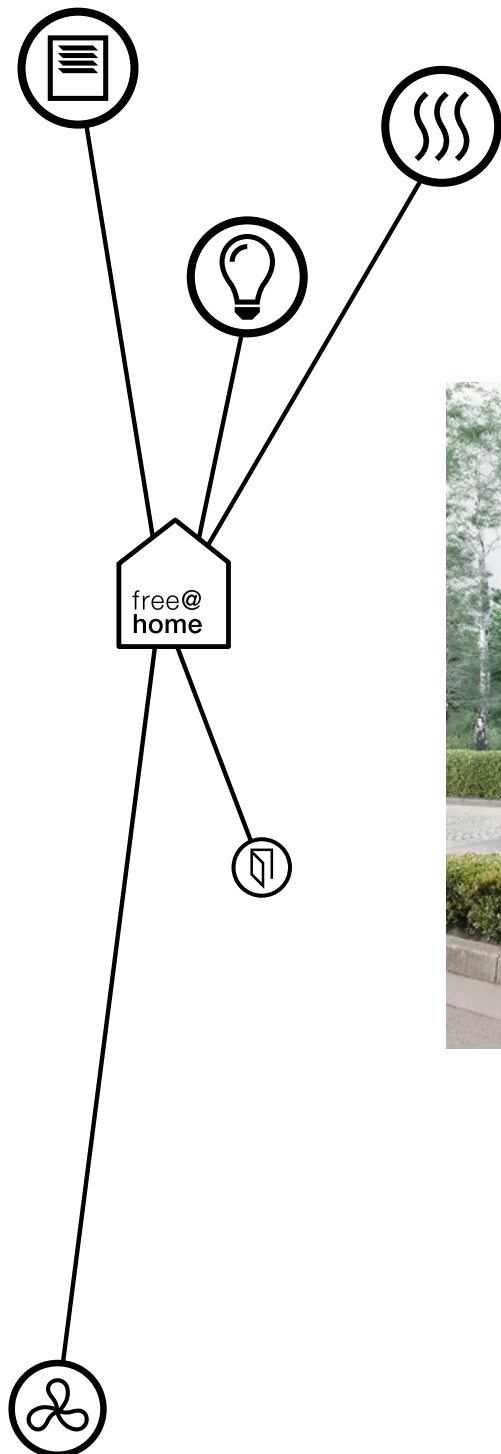
The simplest type of switch-off. ABB-free@home® offers this with the everything-off function. It is especially practical when leaving the house. It simultaneously switches off all networked devices in all rooms.



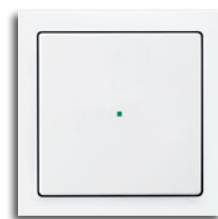
### Rest assured

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.

## 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.

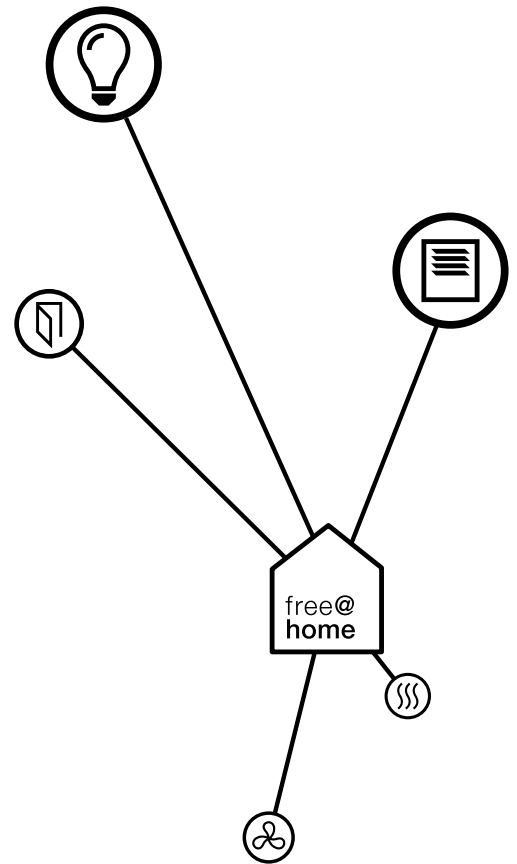


*"Alexa, play music that puts me in a happy mood."*



#### Alexa

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



"Switch on the ceiling light in the living room."

"Okay. The light 'ceiling light' in the living room has been switched on."

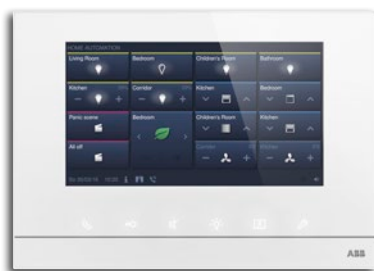
#### Voice control

The intelligent voice control makes the ABB-free@home® app respond to every word. If you say "Switch the ceiling light on", the system will ask "Do you mean the 'ceiling light' in the kitchen, in the living room or in the bathroom?". Very handy if you don't feel like getting up at the moment.



#### 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.

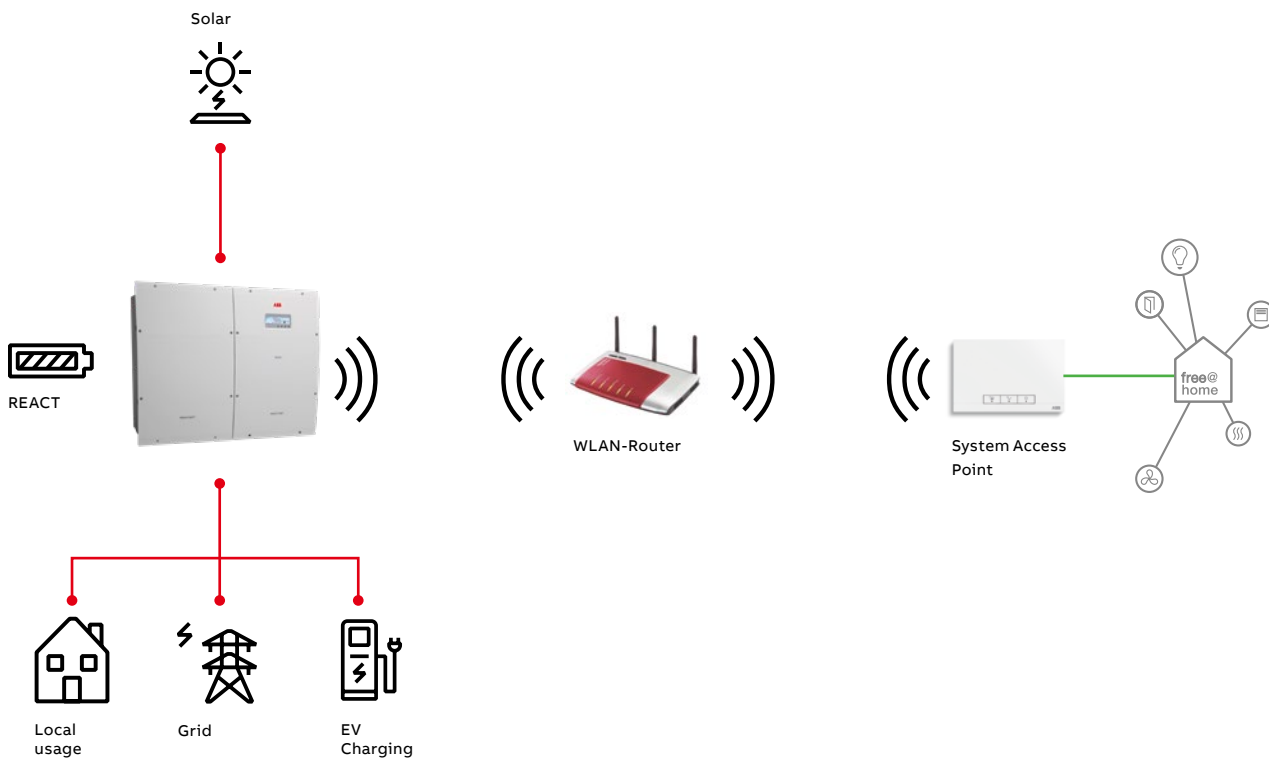
## Energy for your home at all times.

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.



**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

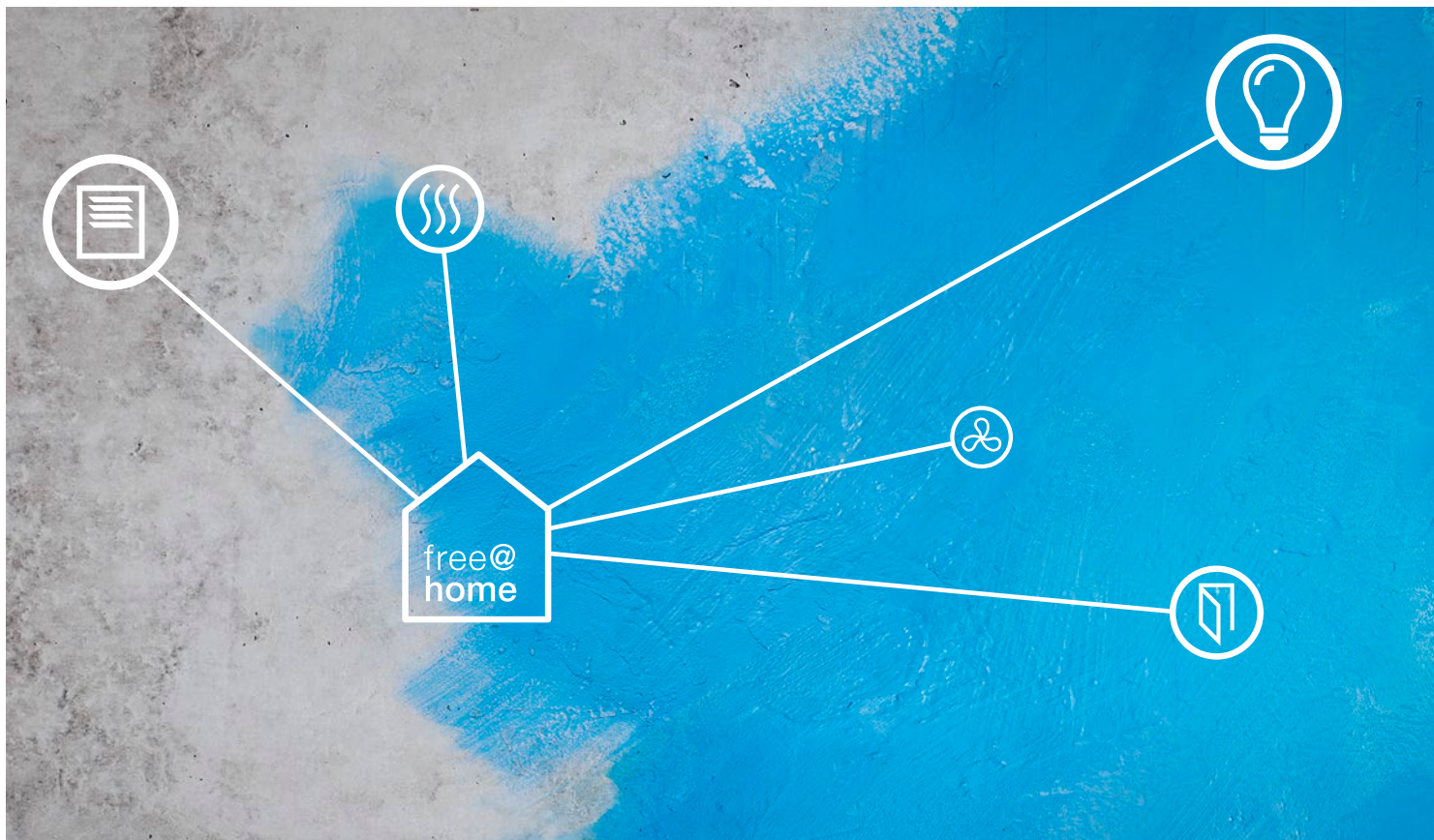
Fast initial installation by the electrician. And easy and convenient operation and later adjustment by the user via app – even via remote control.



# 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

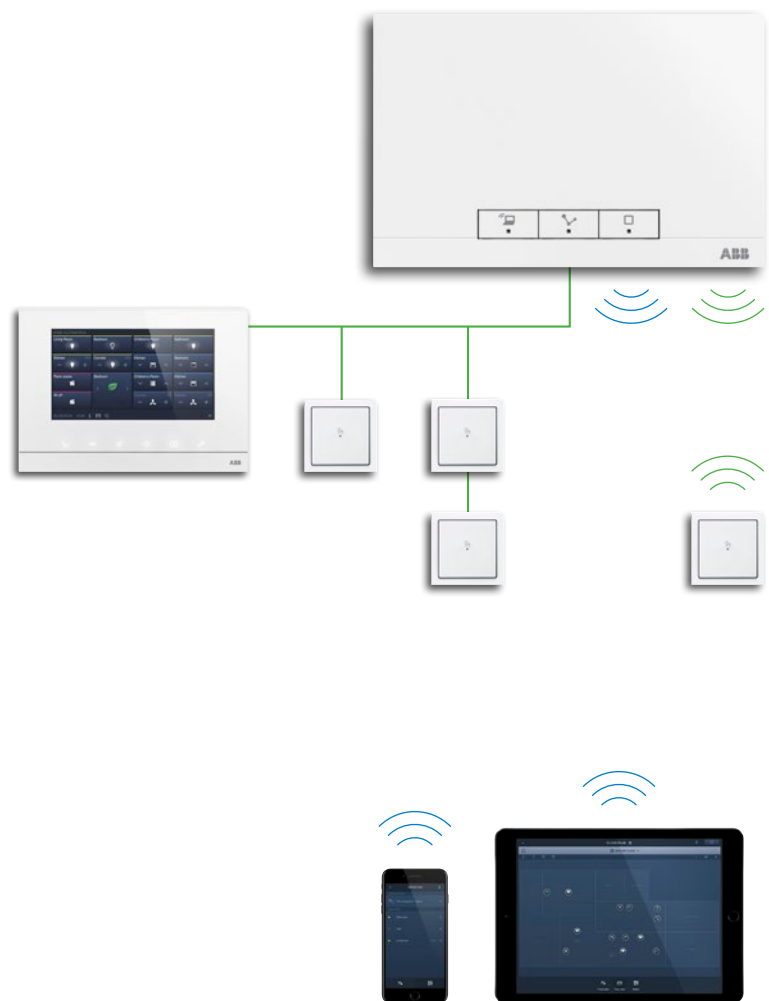
ABB-free@home® means more options, fewer limitations and easier operation. Existing systems can be extended at any time, even without brickwork thanks to wireless technology. The new System Access Point processes all data safely and precise. For the residents everything remains pleasantly in-visible;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



64 + 64

### Double the efficiency

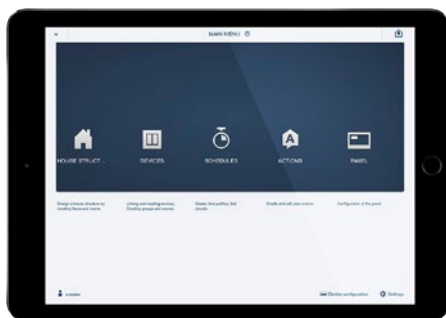
Up to 64 cabled and 64 wireless components can be simultaneously wired to or coupled with the System Access Point – with flush-mounted devices, sensors and actuators for switching, dimming and the control of blinds, with window contacts and with radio-controlled heater thermostats. All elements are compatibly integrated in a complete system.

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# The touch of a finger is sufficient.

For the app that is extremely easy to operate.

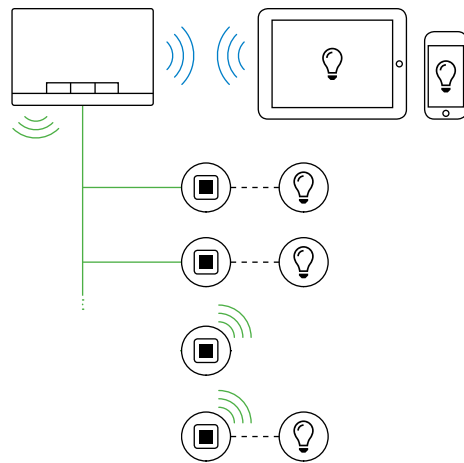
Home automation has never been easier. The ABB-free@home® app is suitable for controlling the entire technology in the networked house. And making adjustments is as simple



## 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 Access 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.

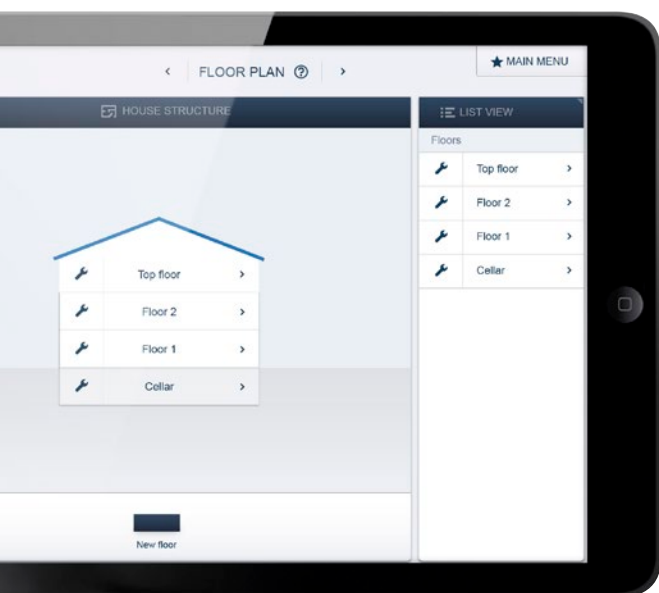


- Easy to install
- Easy to configure
- Easy to change later
- Intuitive operation

# So easy, anyone can do it.

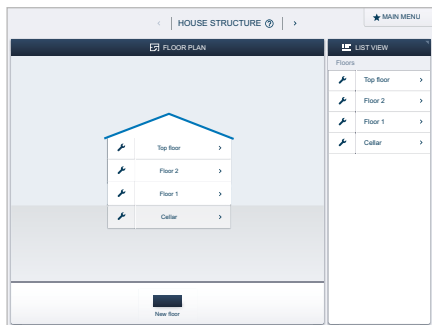
## Creating scenes.

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.



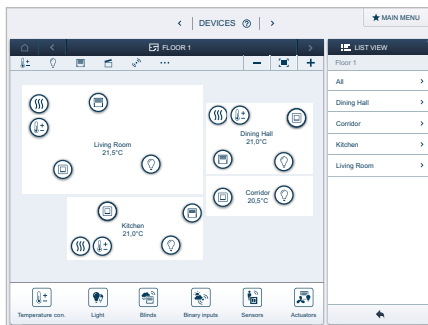
### Easy to install – and even easier to operate

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.



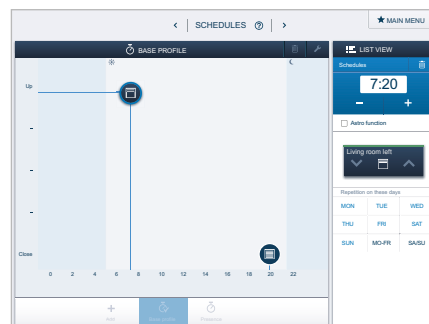
### Simple and time-saving

The electrician performs the initial configuration of the system via app. Operation is particularly fast and saves on costly billable hours.



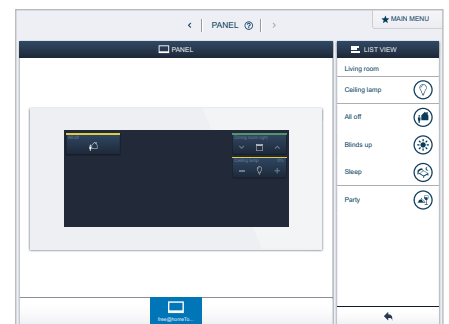
### Scene control

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.

- 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.



02



03



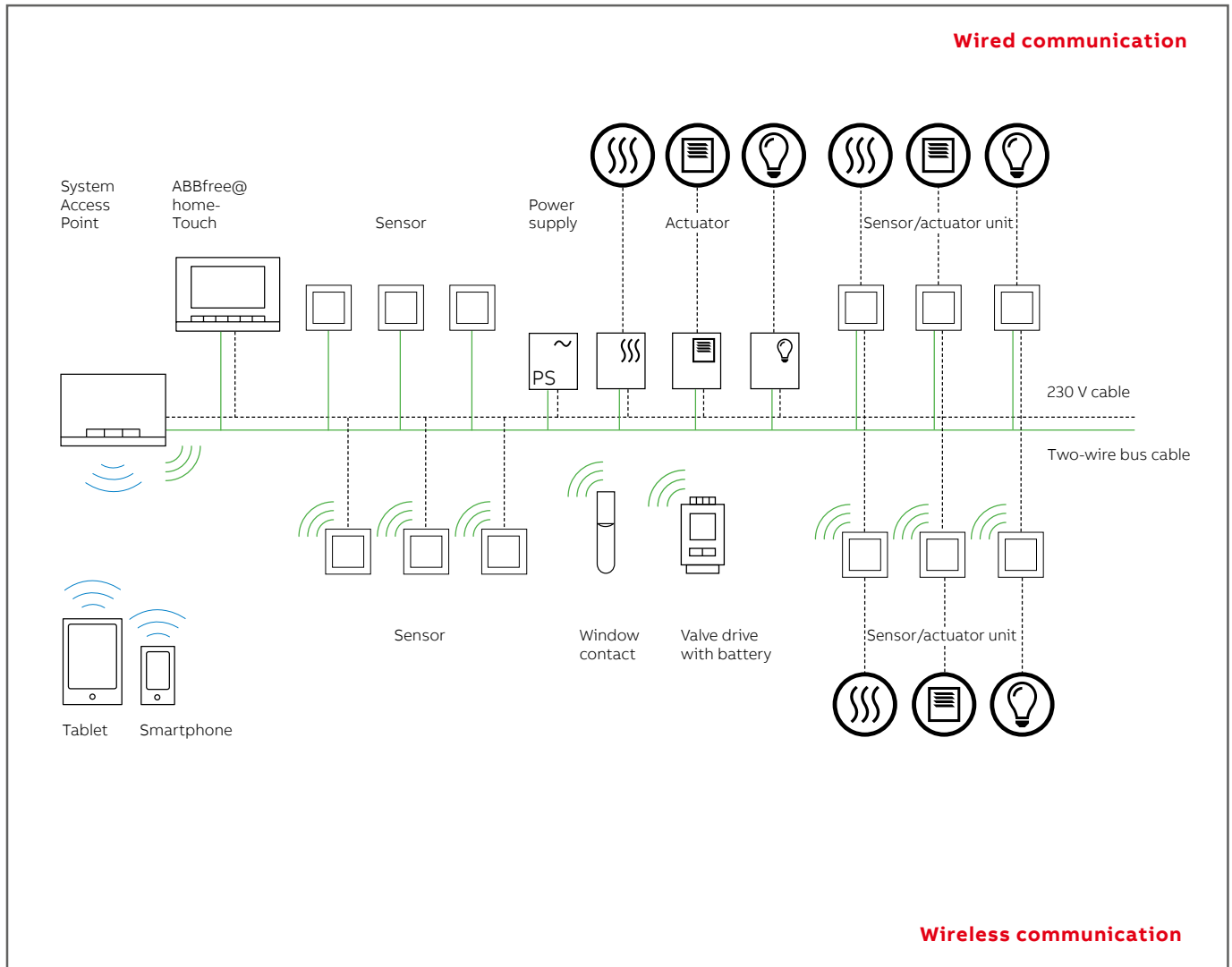
04



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.



### 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.

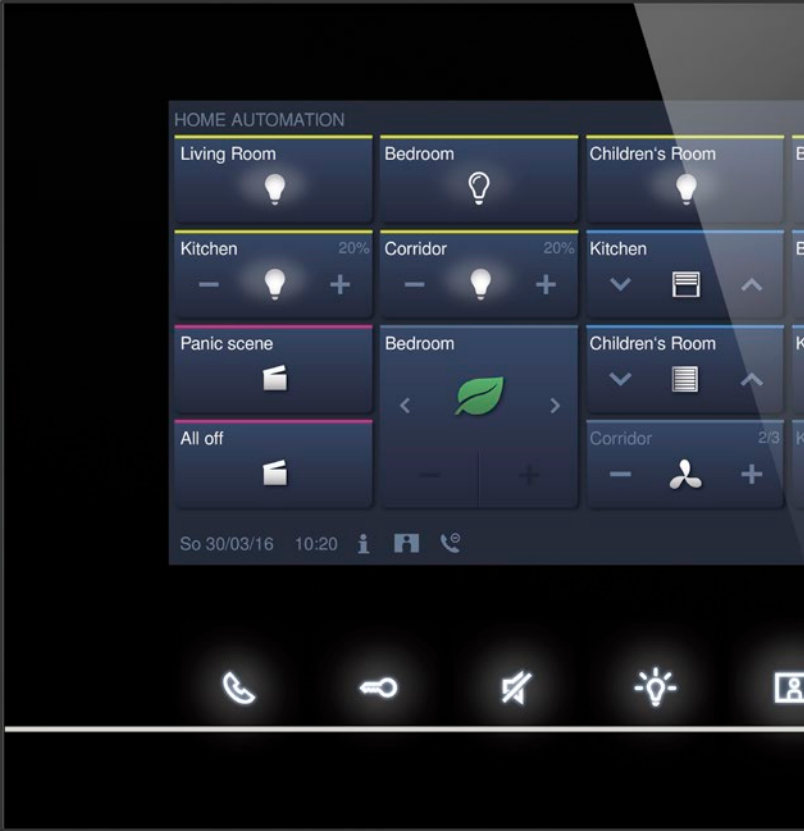


#### Sensor/actuator unit

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.



# Range



## The range.

Modularity makes everything possible.



| System Access Point    |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article no.            | SAP-S-2                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 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 control 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. |
| Dimensions (H × W × D) | 110 mm × 170 mm × 31 mm                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Technical data         | Display elements: LED for status display<br>Nominal voltage: 230 V~<br>Rated frequency: 50 Hz/60 Hz<br>Protection type of device: IP 20                                                                                                                                                                                                                                                                                                            |



### ABB-free@homeTouch 7"

black: DP7-S-625  
white: DP7-S-611

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.

155 mm × 218 mm × 29 mm

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" |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article no.             | black: DP4-1-625<br>white: DP4-1-611                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 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). |
| Dimensions (H × W × D)  | 104 mm × 143 mm × 53 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Technical data          | Display size: 10.9 cm (4.3")<br>Display resolution: 480 × 854<br>Mounting height: 8 mm<br>Display elements: 1 LCD display<br>Bus voltage: 24 V~<br>Protection class (Device): IP 30                                                                                                                                                                                                                                                                                                                                            |



### Installation box, FM

DP4-F

For flush-mounted and hollow-wall installation of the ABB-free@homeTouch 4.3" DP4-1-6XX. Windproof.

82 mm × 123 mm × 50 mm

Mounting depth: 50 mm



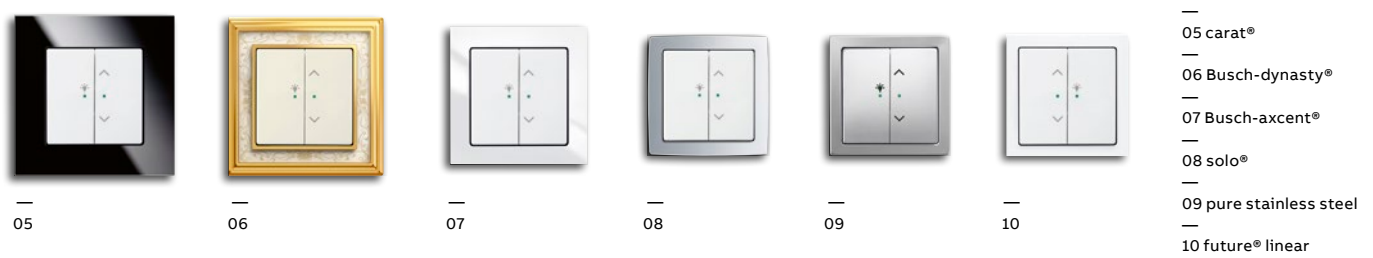
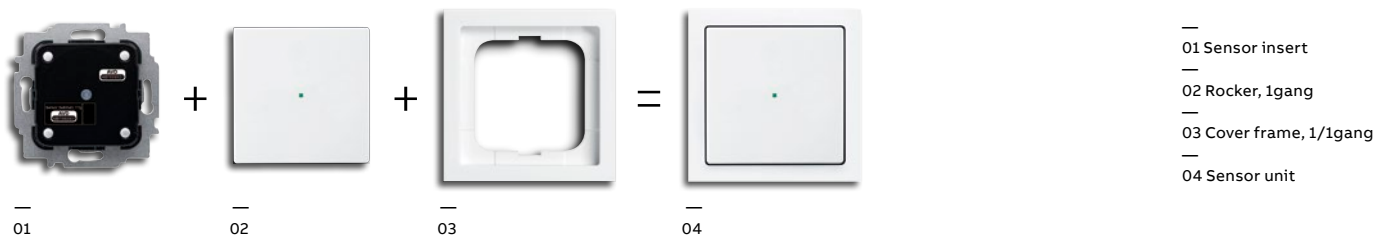
### Temperature sensor

DP4-T-1

For use as remote sensor.

Cable length: 4 m

Line type: H03 VV-F  
Type: NTC 10 kohm



## Color options for rockers\*

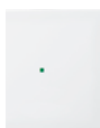
| Color           | Code (c) | Color             | Code (c) |
|-----------------|----------|-------------------|----------|
| anthracite      | 81       | ivory white       | 82       |
| aluminum silver | 83       | stainless steel   | 866      |
| antique brass   | 840      | studio white      | 84       |
| 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        |        |          |



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



|                        | <b>Rocker, 1gang</b>                       |
|------------------------|--------------------------------------------|
| Article no.            | SRi-1- <b>c</b>                            |
| Description            | As cover for ABB-free@home® 1gang switches |
| Dimensions (H × W × D) | 63 mm × 63 mm                              |
| Colors ( <b>c</b> )    | 81, 82, 83, 84, 803, 840, 866, 884, 885    |
| Symbols ( <b>i</b> )   | L, B, S, D                                 |



|                                                                                                                                                    | <b>Rocker, 2gang</b>                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Left: SRi-2-L- <b>c</b><br>Right: SRi-2-R- <b>c</b><br>No icon: SR-2- <b>c</b> (both left / right)<br>Blind icon: SR-2- <b>c</b> (both left/right) |                                            |
| Description                                                                                                                                        | As cover for ABB-free@home® 2gang switches |
| Dimensions (H × W × D)                                                                                                                             | 63 mm × 63 mm                              |
| Colors ( <b>c</b> )                                                                                                                                | 81, 82, 83, 84, 803, 840, 866, 884, 885    |
| Symbols ( <b>i</b> )                                                                                                                               | L, S, D                                    |



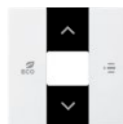
|                        | <b>Movement detector</b>                                                                                                                                               |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article no.            | MD-F-1.0.1- <b>c</b>                                                                                                                                                   |
| Description            | For automatic switching of ABB-free@home® actuators dependent on movement and brightness                                                                               |
| Dimensions (H × W × D) | 71 mm x 71 mm x 30 mm                                                                                                                                                  |
| Colors ( <b>c</b> )    | 81, 82, 83, 84, 803, 840, 866, 884, 885                                                                                                                                |
| Technical data         | Detection range: frontal 6 m, lateral 3 m<br>Detection angle: 180°<br>Brightness limit value: 1 – 500 lux<br>Protection class of device: IP 20<br>Mounting depth: 9 mm |



|                        | <b>Movement detector/switch actuator, 1gang</b>                                                                                                                                                                              |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article no.            | MSA-F-1.1.1- <b>c</b>                                                                                                                                                                                                        |
| Description            | For switching 230 V~ devices. Switching function is available pre-configured                                                                                                                                                 |
| Dimensions (H × W × D) | 71 mm x 71 mm x 53 mm                                                                                                                                                                                                        |
| Colors ( <b>c</b> )    | 81, 82, 83, 84, 803, 840, 866, 884, 885                                                                                                                                                                                      |
| Technical data         | Outputs: 1x normally open contact, potential free<br>Suitable for: resistive, current: 10 A<br>Rated power: 2300 W<br>Suitable for: capacitive, current: 10 AX<br>Protection class of device: IP 20<br>Mounting depth: 32 mm |



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



|                        | <b>Cover plate for fan coil controller</b>          |
|------------------------|-----------------------------------------------------|
| Article no.            | CP-FCC- <b>c</b>                                    |
| Description            | As cover for ABB-free@home® room thermostat RTC-F-1 |
| Dimensions (H × W × D) | 63 mm × 63 mm                                       |
| Colors ( <b>c</b> )    | 81, 82, 83, 84, 803, 840, 866, 884, 885             |



| <b>Sensor/Switch actuator 1/1gang</b> |                                                                                                                                                                                                                                              |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>Suitable for: resistive<br>Rated current: 10 A<br>Rated power: 2300 W<br>Suitable for: capacitive<br>Rated current: 10 AX<br>Protection class of device: IP 20<br>Mounting depth: 32 mm |



| <b>Sensor/Switch actuator 2/1gang</b> |                                                                                                                                                                                                                                              |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article no.                           | SSA-F-2.1.1                                                                                                                                                                                                                                  |
| 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® 2gang rockers.                                                                        |
| Dimensions (H×W×D)                    | 71 mm x 71 mm x 45 mm                                                                                                                                                                                                                        |
| Technical data                        | Outputs: 1x normally open contact, potential free<br>Suitable for: resistive<br>Rated current: 10 A<br>Rated power: 2300 W<br>Suitable for: capacitive<br>Rated current: 10 AX<br>Protection class of device: IP 20<br>Mounting depth: 32 mm |



| <b>Sensor/Switch actuator 2/2gang</b> |                                                                                                                                                                                                                                                                                       |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>Rated current: 6 A<br>Rated power: 1380 W<br>Suitable for: capacitive<br>Rated current: 4 AX<br>Rated power: 920 VA<br>Suitable for: inductive<br>Rated current: 4 AX<br>Rated power: 920 VA<br>Protection class of device: IP 20<br>Mounting depth: 32 mm |



| <b>Sensor/Dim actuator 1/1gang</b> |                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article no.                        | SDA-F-1.1.1                                                                                                                                                                                                                                                                                                                     |
| 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® 1gang rockers.                                                                                                                           |
| Dimensions (H×W×D)                 | 71 mm x 71 mm x 45 mm                                                                                                                                                                                                                                                                                                           |
| Technical data                     | Outputs: 1x dimming channel<br>Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformers<br>Rated power: 10–180 W/VA<br>Suitable for: LEDi and energy-saving bulbs<br>Rated power: 2–80 W/VA<br>Protection class of device: IP 20<br>Mounting depth: 32 mm |



| <b>Sensor/Dim actuator 2/1gang</b> |                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformer.<br>Rated power: 20 - 180 W/VA<br>Suitable for: LEDi and energy-saving bulbs; typical<br>Rated power: 2 - 80 W/VA<br>Protection class of device: IP 20<br>Mounting depth: 32 mm |



| <b>Sensor/Blind actuator 1/1gang</b> |                                                                                                                                                                                                                                                   |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>Suitable for: Operation mode Blind<br>Rated current: 4 A<br>Output voltage: 230 V~<br>Rated power: 920 VA<br>Protection class of device: IP 20<br>Mounting depth: 32 mm |



| <b>Sensor/Blind actuator 2/1gang</b> |                                                                                                                                                                                                                            |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>Rated power: 920 VA<br>Rated current: 4 A<br>Suitable for: Operating mode blind<br>Protection class of device: IP 20<br>Mounting depth: 32 mm    |



| <b>Room Thermostat</b> |                                                                                                                                                                                                                                                                                    |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>Protection class of device: IP 20<br>Mounting depth: 14 mm                                                                                                                                                                |



| <b>Sensor unit, 1gang</b> |                                                                                                                                                                                           |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>Display elements: LED as light for orientation or display of switching state<br>Protection class of device: IP 20<br>Mounting depth: 9 mm |



| <b>Sensor unit, 2gang</b> |                                                                                                                                                                                           |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>Display elements: LED as light for orientation or display of switching state<br>Protection class of device: IP 20<br>Mounting depth: 9 mm |



| <b>Weather station</b> |                                                                                                                                                                                                                                                                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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~<br>Rated frequency: 50 Hz - 60 Hz<br>Bus voltage: 24 V-<br>Inputs: 4<br>Protection class (Device): IP 44<br>Temperature range (Device): -20 °C to 55 °C<br>Brightness limit value: 1 Lux - 100000 Lux                                                                                                            |


**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<br>Display elements: LED as light for orientation or display of switching state<br>Protection class of device: IP 20<br>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<br>Display elements: LED as light for orientation or display of switching state<br>Protection class of device: IP 20<br>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<br>Display elements: LCD showing operation modes<br>Rated voltage: 230 V~<br>Rated frequency: 50 Hz / 60 Hz<br>Protection class (Device): IP 20<br>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<br>Display elements: LCD showing operation modes<br>Rated voltage: 230 V~<br>Rated frequency: 50 Hz / 60 Hz<br>Outputs: 1 Normally open contact, potential-bound<br>Suitable for: ohmic<br>Rated current: 16 A<br>Output voltage: 230 V~<br>Rated power: 3680 W<br>Protection class (Device): IP 20<br>Mounting depth: 32 mm |



| <b>Sensor/Switch actuator 1/1gang, Wireless</b> |                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>Suitable for: ohmic<br>Rated current: 10 A<br>Output voltage: 230 V~<br>Rated power: 2300 W<br>Suitable for: capacitive<br>Rated current: 10 AX<br>Rated power: 2300 VA<br>Suitable for: inductive<br>Rated current: 10 A<br>Rated power: 2300 VA<br>Protection class (Device): IP 20<br>Mounting depth: 32 mm |



| <b>Sensor/Switch actuator 2/1gang, Wireless</b> |                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.                                                                                                                              |
| Dimensions (H×W×D)                              | 71 mm x 71 mm x 45 mm                                                                                                                                                                                                                                                                                                                                               |
| Technical data                                  | Outputs: 1 Normally open contact, potential-bound<br>Suitable for: ohmic<br>Rated current: 10 A<br>Output voltage: 230 V~<br>Rated power: 2300 W<br>Suitable for: capacitive<br>Rated current: 10 AX<br>Rated power: 2300 VA<br>Suitable for: inductive<br>Rated current: 10 A<br>Rated power: 2300 VA<br>Protection class (Device): IP 20<br>Mounting depth: 32 mm |



| <b>Sensor/Switch actuator 2/2gang, Wireless</b> |                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>Suitable for: ohmic<br>Rated current: 5 A<br>Output voltage: 230 V~<br>Rated power: 1200 W<br>Suitable for: capacitive<br>Rated power: 920 VA<br>Suitable for: inductive<br>Rated power: 800 VA<br>Protection class (Device): IP 20<br>Mounting depth: 32 mm |



| <b>Sensor/Dim actuator 1/1gang, Wireless</b> |                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformer.<br>Rated power: 20 - 180 W/VA<br>Suitable for: LEDi and energy-saving bulbs; typical<br>Rated power: 2 - 80 W/VA<br>Protection class (Device): IP 20<br>Mounting depth: 32 mm |



| <b>Sensor/Dim actuator 2/1gang, Wireless</b> |                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article no.                                  | 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. |
| Dimensions (H×W×D)                           | 71 mm x 71 mm x 45 mm                                                                                                                                                                                                                                                                                                                       |
| Technical data                               | Outputs: 1 dimming channel<br>Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformer.<br>Rated power: 20 - 180 W/VA<br>Suitable for: LEDi and energy-saving bulbs; typical<br>Rated power: 2 - 80 W/VA<br>Protection class (Device): IP 20<br>Mounting depth: 32 mm  |



| <b>Sensor/Blind actuator 1/1gang, Wireless</b> |                                                                                                                                                                                                                                     |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>Suitable for: Operation mode Blind<br>Rated current: 4 A<br>Output voltage: 230 V~<br>Rated power: 920 VA<br>Protection class (Device): IP 20<br>Mounting depth: 32 mm         |



| <b>Sensor/Blind actuator 2/1gang, Wireless</b> |                                                                                                                                                                                                                                   |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article no.                                    | 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. |
| Dimensions (H×W×D)                             | 71 mm x 71 mm x 45 mm                                                                                                                                                                                                             |
| Technical data                                 | Outputs: 2 Normally open contact, potential-bound<br>Suitable for: Operation mode Blind<br>Rated current: 4 A<br>Output voltage: 230 V~<br>Rated power: 920 VA<br>Protection class (Device): IP 20<br>Mounting depth: 32 mm       |



wireless



wireless

|                        | 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. 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 x W x D) | cable lengths: 1.5 m                                                                                                                                                                        | 63 mm x 48 mm x 84 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Technical data         |                                                                                                                                                                                             | With lime protection function.<br>With frost protection function.<br>Noiseless running.<br>Installation with sleeve nut M 30 x 1.5.<br>Fits many popular valve bases (e.g. Braukmann, Heimeier, Honeywell, Junkers, MNG).<br>The adapters for Danfoss RAV, Danfoss RA and Danfoss RAVL are included in the scope of supply.<br>Adapters for additional valves are available as accessories.<br>Battery included in scope supply.<br>Battery type: 2 x AA<br>Protection class (Device): IP 20 |



wireless



|                        | 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 x W x D) | 63 mm x 48 mm x 84 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                    |
| Technical data         | With lime protection function.<br>With frost protection function.<br>Noiseless running.<br>Installation with sleeve nut M 30 x 1.5.<br>Fits many popular valve bases (e.g. Braukmann, Heimeier, Honeywell, Junkers, MNG).<br>The adapters for Danfoss RAV, Danfoss RA and Danfoss RAVL are included in the scope of supply.<br>Adapters for additional valves are available as accessories.<br>Battery included in scope supply.<br>Battery type: 2 x AA<br>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 x W x 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

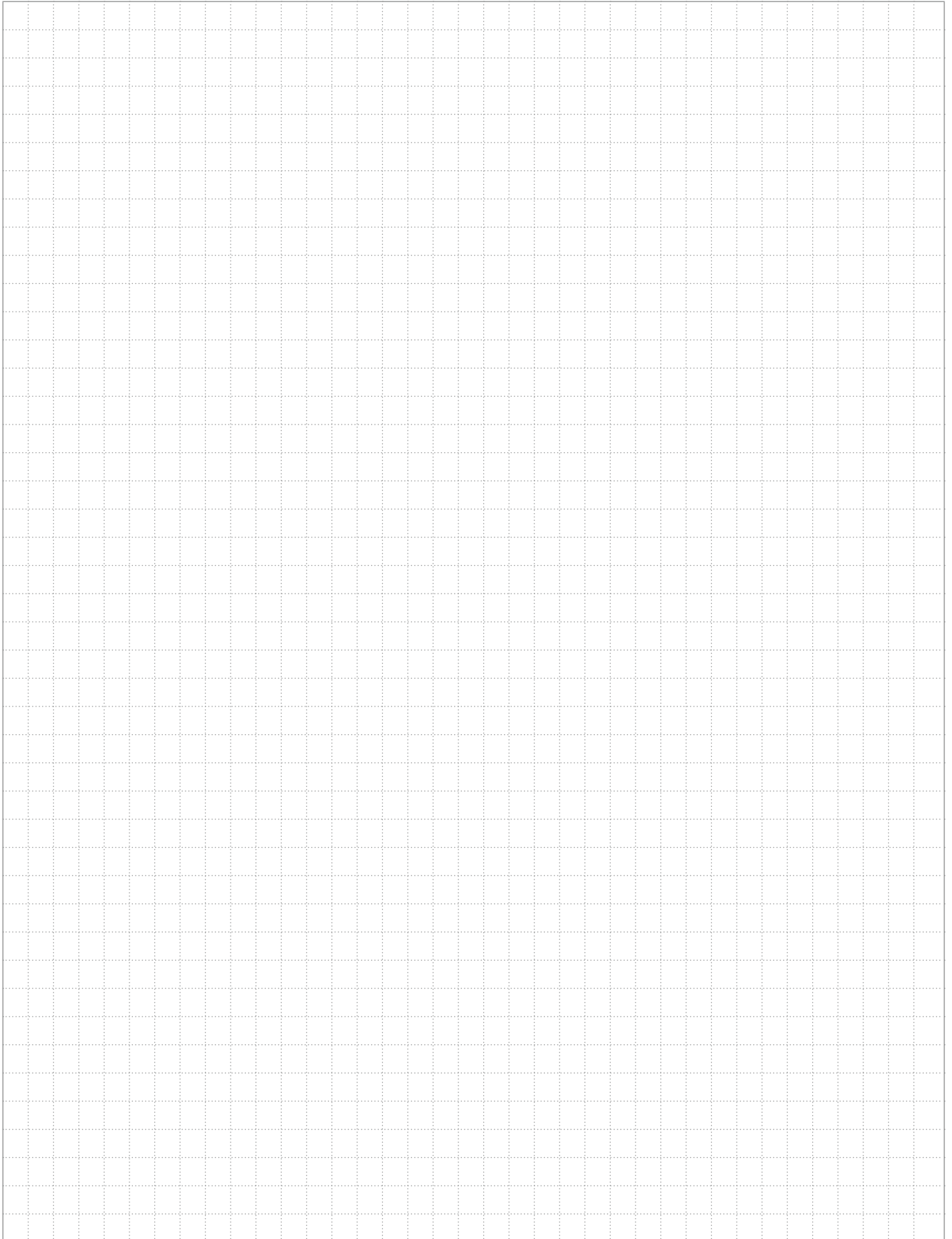
Description For monitoring and transmission of the state (open, closed) of dormer windows, skylights, doors and gates. Additional connection option for an external, potential-free sensor (choice of normally closed or normally open contact). The status can be visualized on the free@home panel and in the 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.

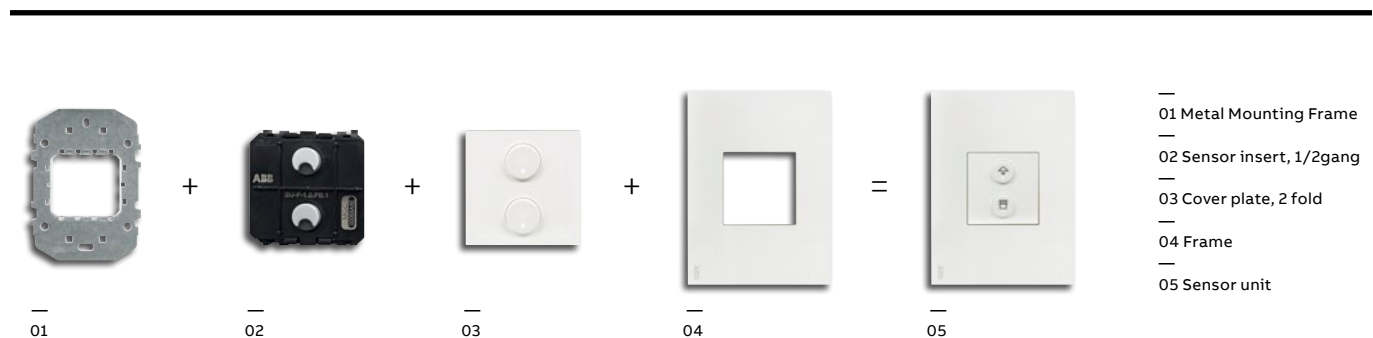
Dimensions 118 mm x 30 mm x 22 mm

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



# Notes





### 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**

Article no.

SR-2-N2 **c**

Description

As cover for ABB-free@home® 1gang switches of Zenit VDE and NEMA ranges

Dimensions  
(H×W×D)

44 mm×44 mm

Colors (**c**)

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**

Article no.

CP-MD-N2 **c**

Description

As cover for ABB-free@home® movement detector of Zenit VDE and NEMA ranges

Dimensions  
(H×W×D)

44 mm×44 mm

Colors (**c**)

AN, BL, CV, PL


**Rectangular Frame, NEMA**

Article no.

N2372.1 **c**

Description

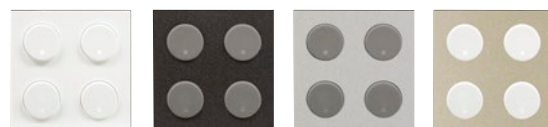
As frame for ABB-free@home® sensors and rockers of Zenit NEMA range

Dimensions  
(H×W×D)

122 mm×90 mm

Colors (**c**)

AN, OX, CV, PZ, PL, BL, CB, CN, WG


**Cover plate for 4 fold push buttons incl neutral symbols**
SR-4-N2 **c**

As cover for ABB-free@home® 2gang switches of Zenit VDE and NEMA ranges

44 mm×44 mm

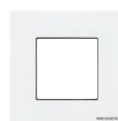
AN, BL, CV, PL


**Cover Plate for Room Temperature Controller**
CP-RTC-N2 **c**

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

44 mm×44 mm

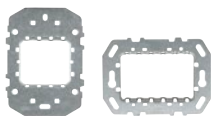
AN, BL, CV, PL


**Square Frame, VDE**
N2271 **c**

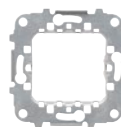
As frame for ABB-free@home® sensors and rockers of Zenit VDE range

90 mm×90 mm

AN, OX, BL



|                       | <b>Metal Mounting Frame NEMA</b>                                  |
|-----------------------|-------------------------------------------------------------------|
| Article no.           | Vertical: N2371.9 V<br>Horizontal: N2373.9                        |
| Description           | Metal mounting frame for flush mounted units of Zenit NEMA range. |
| Dimensions<br>(H×W×D) | 102 mm x 74 mm, 74 mm x 102 mm                                    |



|                       | <b>Metal Mounting Frame VDE</b>                                  |
|-----------------------|------------------------------------------------------------------|
| Article no.           | N2271.9                                                          |
| Description           | Metal mounting frame for flush mounted units of Zenit VDE range. |
| Dimensions<br>(H×W×D) | 71 mm x 71 mm                                                    |



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



| <b>Sensor/Switch actuator 1/1gang</b> |                                                                                                                                                                                                                                                |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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×44 mm×40.9 mm                                                                                                                                                                                                                            |
| Technical data                        | Outputs: 1x normally open contact, potential free<br>Suitable for: resistive<br>Rated current: 10 A<br>Rated power: 2300 W<br>Suitable for: capacitive<br>Rated current: 10 AX<br>Protection class of device: IP 20<br>Mounting depth: 31.5 mm |



| <b>Sensor/Switch actuator 2/1gang</b> |                                                                                                                                                                                                                                                |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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×44 mm×40.9 mm                                                                                                                                                                                                                            |
| Technical data                        | Outputs: 1x normally open contact, potential free<br>Suitable for: resistive<br>Rated current: 10 A<br>Rated power: 2300 W<br>Suitable for: capacitive<br>Rated current: 10 AX<br>Protection class of device: IP 20<br>Mounting depth: 31.5 mm |



| <b>Sensor/Switch actuator 2/2gang</b> |                                                                                                                                                                                                                                                    |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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×44 mm×40.9 mm                                                                                                                                                                                                                                |
| Technical data                        | Outputs: 2× normally open contact, potential free<br>Suitable for: resistive<br>Rated current: 10 A<br>Rated power: 2 x 1200 W<br>Suitable for: capacitive<br>Rated current: 10 AX<br>Protection class of device: IP 20<br>Mounting depth: 31.5 mm |



| <b>Sensor/Dim actuator 1/1gang</b> |                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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×44 mm×40.9 mm                                                                                                                                                                                                                                                                                                               |
| Technical data                     | Outputs: 1x dimming channel<br>Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformers<br>Rated power: 10–180 W/VA<br>Suitable for: LEDi and energy-saving bulbs<br>Rated power: 2–80 W/VA<br>Protection class of device: IP 20<br>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×44 mm×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×44 mm×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×44 mm×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×44 mm×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

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



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×44 mm×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×44 mm×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×44 mm×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×44 mm×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<br>Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformers<br>Rated power: 10–180 W/VA<br>Suitable for: LEDi and energy-saving bulbs<br>Rated power: 2–80 W/VA<br>Protection class of device: IP 20<br>Mounting depth: 31.5 mm |


**Sensor/Blind actuator 1/1gang, wireless**

SBA-F-1.1.PB.1-WL

|                    |                                                                                                                                                                                                                            |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description        | 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.             |
| 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<br>Rated power: 920 VA<br>Rated current: 4 A<br>Suitable for: Operating mode blind<br>Protection class of device: IP 20<br>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<br>Rated power: 920 VA<br>Rated current: 4 A<br>Suitable for: Operating mode blind<br>Protection class of device: IP 20<br>Mounting depth: 31.5 mm |


**Room Thermostat, wireless**

RTC-F-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<br>Protection class of device: IP 20<br>Mounting depth: 17.9 mm                                                                                                                                                                                                      |



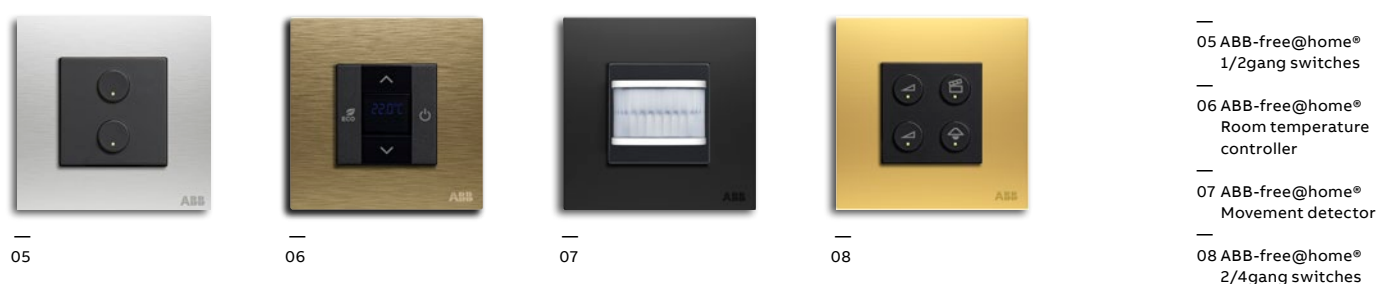
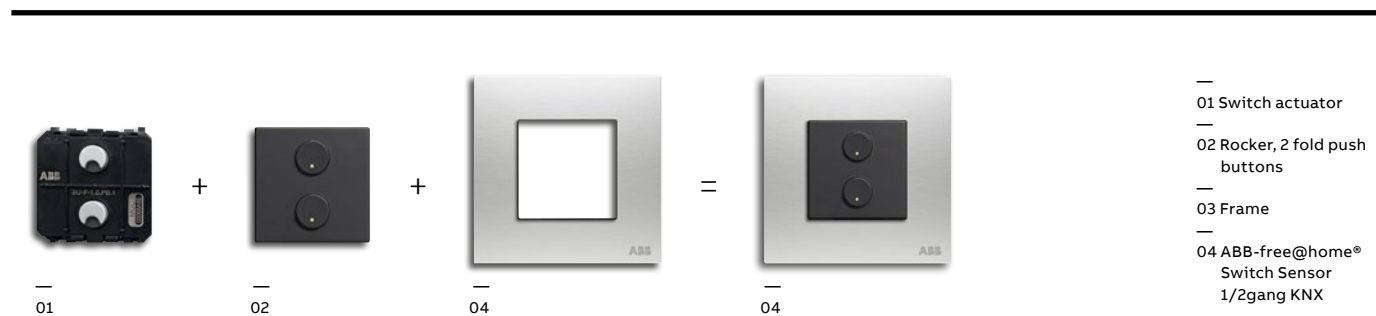
| <b>Room Thermostat, wireless</b> |                                                                                                                                                                                                                                                                                                                            |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 x W x D)           | 44 mm x 44 mm x 29.4 mm                                                                                                                                                                                                                                                                                                    |
| Technical data                   | Display elements: LCD Display showing operation modes<br>Protection class of device: IP 20<br>Mounting depth: 17.9 mm                                                                                                                                                                                                      |



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



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



### 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- <b>c</b> |

|                      |                                                                                                       |
|----------------------|-------------------------------------------------------------------------------------------------------|
| 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 ( <b>c</b> )  | AG, MG, SB, ST                                                                                        |
| Symbols ( <b>i</b> ) |                                                                                                       |



| Icon for Millenium Rockers |                   |
|----------------------------|-------------------|
| Article no.                | SB <b>i</b> -AMAN |

|                      |                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------------------------|
| Description          | Interchangeable icons for Millenium rockers, available with several icon design options ( <b>i</b> ) in color anthracite. |
| Colors ( <b>c</b> )  |                                                                                                                           |
| Symbols ( <b>i</b> ) | AN<br>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×44 mm×40.9 mm                                                                                                                                                                                                                            |
| Technical data     | Outputs: 1x normally open contact, potential free<br>Suitable for: resistive<br>Rated current: 10 A<br>Rated power: 2300 W<br>Suitable for: capacitive<br>Rated current: 10 AX<br>Protection class of device: IP 20<br>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×44 mm×40.9 mm                                                                                                                                                                                                                            |
| Technical data     | Outputs: 1x normally open contact, potential free<br>Suitable for: resistive<br>Rated current: 10 A<br>Rated power: 2300 W<br>Suitable for: capacitive<br>Rated current: 10 AX<br>Protection class of device: IP 20<br>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×44 mm×40.9 mm                                                                                                                                                                                                                                |
| Technical data     | Outputs: 2× normally open contact, potential free<br>Suitable for: resistive<br>Rated current: 10 A<br>Rated power: 2 x 1200 W<br>Suitable for: capacitive<br>Rated current: 10 AX<br>Protection class of device: IP 20<br>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×44 mm×40.9 mm                                                                                                                                                                                                                                                                                                               |
| Technical data     | Outputs: 1x dimming channel<br>Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformers<br>Rated power: 10–180 W/VA<br>Suitable for: LEDi and energy-saving bulbs<br>Rated power: 2–80 W/VA<br>Protection class of device: IP 20<br>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×44 mm×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×44 mm×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×44 mm×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×44 mm×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

**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

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



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×44 mm×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

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.

44 mm×44 mm×40.9 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  
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×44 mm×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

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.

44 mm×44 mm×40.9 mm

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<br>Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformers<br>Rated power: 10–180 W/VA<br>Suitable for: LEDi and energy-saving bulbs<br>Rated power: 2–80 W/VA<br>Protection class of device: IP 20<br>Mounting depth: 31.5 mm |


**Sensor/Blind actuator 1/1gang, wireless**

SBA-F-1.1.PB.1-WL

|                    |                                                                                                                                                                                                                            |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description        | 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.             |
| 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<br>Rated power: 920 VA<br>Rated current: 4 A<br>Suitable for: Operating mode blind<br>Protection class of device: IP 20<br>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<br>Rated power: 920 VA<br>Rated current: 4 A<br>Suitable for: Operating mode blind<br>Protection class of device: IP 20<br>Mounting depth: 31.5 mm |


**Room Thermostat, wireless**

RTC-F-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<br>Protection class of device: IP 20<br>Mounting depth: 17.9 mm                                                                                                                                                                                                      |



| <b>Room Thermostat, wireless</b> |                                                                                                                                                                                                                                                                                                                            |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 x W x D)           | 44 mm x 44 mm x 29.4 mm                                                                                                                                                                                                                                                                                                    |
| Technical data                   | Display elements: LCD Display showing operation modes<br>Protection class of device: IP 20<br>Mounting depth: 17.9 mm                                                                                                                                                                                                      |



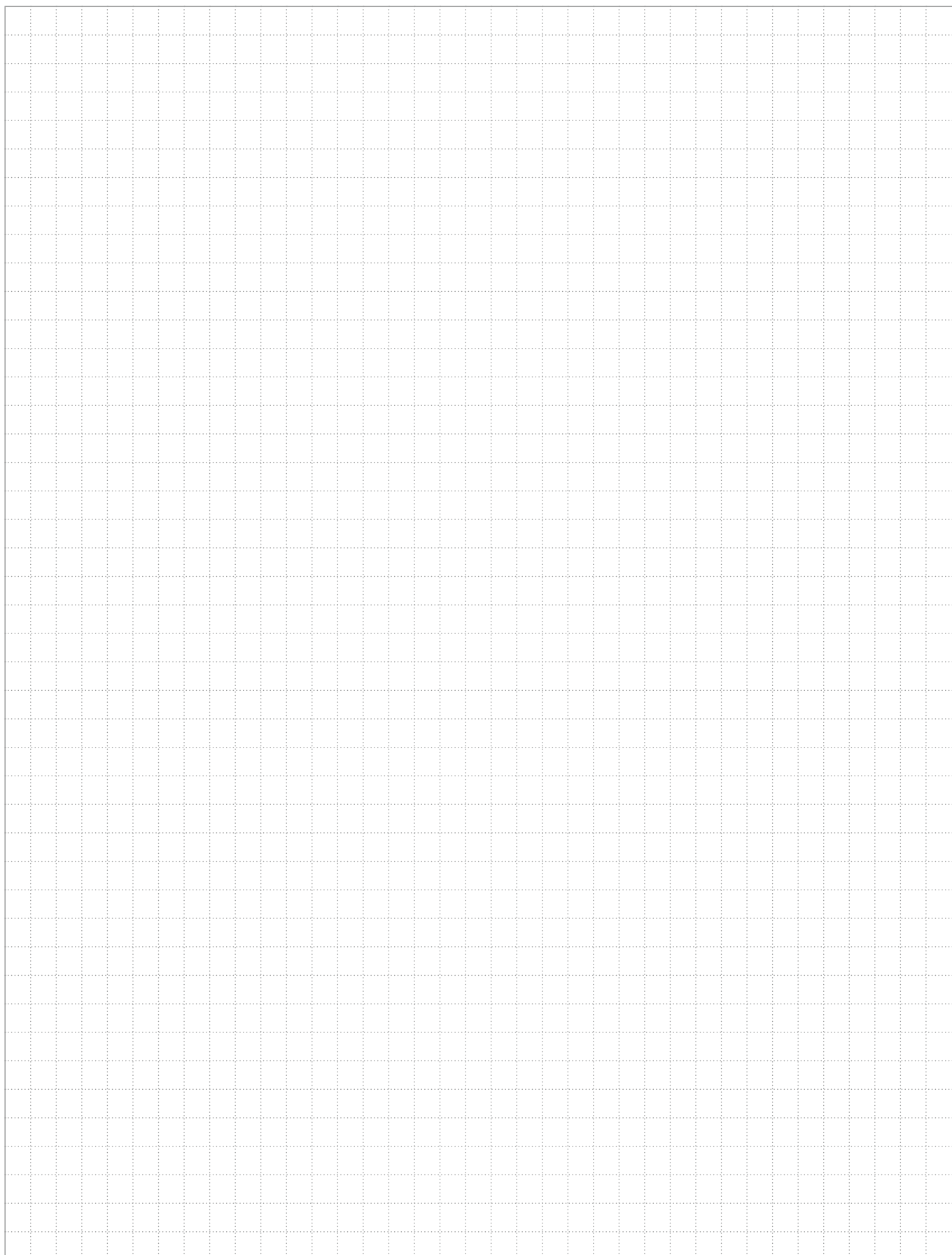
| <b>Sensor unit 1gang, wireless</b> |                                                                                                                                                                              |
|------------------------------------|----------------------------------------------------------------------------------------------------------------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

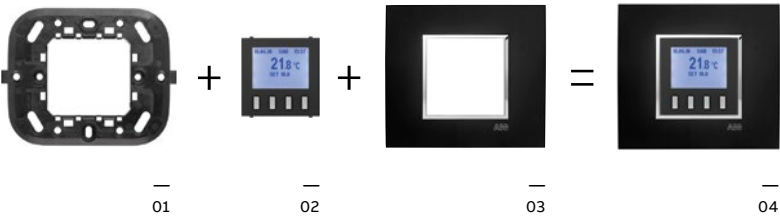


| <b>Sensor unit 2gang, wireless</b> |                                                                                                                                                                              |
|------------------------------------|----------------------------------------------------------------------------------------------------------------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

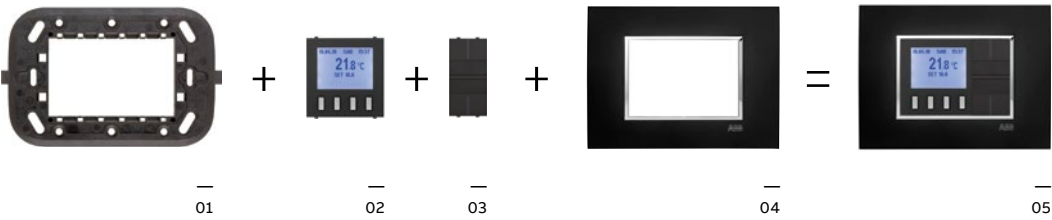


# Notes





- 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

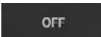
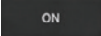
Color options for key covers  
Mylos

| Color                                                                                     | Code (c) | Color                                                                                     | Code (c) |
|-------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------|----------|
|  black | S        |  white | C        |

Available symbols for key covers

1 module key cover with customization labels



|                                                                                     |             |                                                                                     |                |
|-------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|----------------|
|  | No symbol   |  | Blind up       |
|  | OFF         |  | Blind down     |
|  | General OFF |  | Cocktail scene |
|  | ON          |  | Reading scene  |
|  | General ON  |  | Night scene    |
|  | Light       |                                                                                     |                |

2 modules key covers




**Input module, 1 rocker switch, 1 module**

|                                               |                                                                                                                                                                                                                                                             |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article no.                                   | 2CSYE1012 <span style="color: red;">c</span>                                                                                                                                                                                                                |
| 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 ( <span style="color: red;">c</span> ) | C,S                                                                                                                                                                                                                                                         |


**2 binary inputs module, 1 rocker switch**

|                                               |                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article no.                                   | 2CSYE1002 <span style="color: red;">c</span>                                                                                                                                                                                                                                                    |
| Description                                   | 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. |
| Dimensions (H × W × D)                        | 44 mm × 45 mm                                                                                                                                                                                                                                                                                   |
| Colors ( <span style="color: red;">c</span> ) | C,S                                                                                                                                                                                                                                                                                             |


**2 binary inputs module, 2 rocker switches**

|                                               |                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article no.                                   | 2CSYE1003 <span style="color: red;">c</span>                                                                                                                                                                                                                                                          |
| 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 ( <span style="color: red;">c</span> ) | C,S                                                                                                                                                                                                                                                                                                   |


**16A relay actuator**

|                                               |                                                                                                                                                      |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article no.                                   | 2CSYE1101 <span style="color: red;">c</span>                                                                                                         |
| Description                                   | 2 modules device with 1 16A relay. Equipped with programming button for identification and LED for functional signaling. Flush-mounted installation. |
| Dimensions (H × W × D)                        | 44 mm × 45 mm                                                                                                                                        |
| Colors ( <span style="color: red;">c</span> ) | C,S                                                                                                                                                  |


**16A relay actuator, 1 rocker switch**

|                                               |                                                                                                                                                             |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article no.                                   | 2CSYE1102 <span style="color: red;">c</span>                                                                                                                |
| 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 ( <span style="color: red;">c</span> ) | C,S                                                                                                                                                         |


**16A relay actuator, 2 rocker switches**

|                                               |                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article no.                                   | 2CSYE1103 <span style="color: red;">c</span>                                                                                                                                                                                                                                                                          |
| Description                                   | 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. |
| Dimensions (H × W × D)                        | 44 mm × 45 mm                                                                                                                                                                                                                                                                                                         |
| Colors ( <span style="color: red;">c</span> ) | C,S                                                                                                                                                                                                                                                                                                                   |


**Actuator, 2 8A relays, 2 rocker switches**

|                                               |                                                                                                                                                                                     |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article no.                                   | 2CSYE1106 <span style="color: red;">c</span>                                                                                                                                        |
| 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 ( <span style="color: red;">c</span> ) | C,S                                                                                                                                                                                 |


**Blind actuator**

|                                               |                                                                                                                                |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Article no.                                   | 2CSYE1104 <span style="color: red;">c</span>                                                                                   |
| Description                                   | 2 modules device equipped with blind control actuator. Equipped with LED for functional signaling. Flush-mounted installation. |
| Dimensions (H × W × D)                        | 44 mm × 45 mm                                                                                                                  |
| Colors ( <span style="color: red;">c</span> ) | C,S                                                                                                                            |


**Blind actuator, 1 rocker switch**

|                                               |                                                                                                                                                  |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Article no.                                   | 2CSYE1105 <span style="color: red;">c</span>                                                                                                     |
| 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 ( <span style="color: red;">c</span> ) | C,S                                                                                                                                              |


**350W dimmer with rocker switch**

|                                               |                                                                                                                                                                                                                                  |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article no.                                   | 2CSYE1205 <span style="color: red;">c</span>                                                                                                                                                                                     |
| 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. |
| Dimensions (H × W × D)                        | 44 mm × 45 mm                                                                                                                                                                                                                    |
| Colors ( <span style="color: red;">c</span> ) | C,S                                                                                                                                                                                                                              |


**Reg1/10V dimmer with rocker switch**

|                                               |                                                                                                                                                                                                                   |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article no.                                   | 2CSYE1206 <span style="color: red;">c</span>                                                                                                                                                                      |
| 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 ( <span style="color: red;">c</span> ) | C,S                                                                                                                                                                                                               |


**Thermostat**

|                                               |                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article no.                                   | 2CSYE1202 <span style="color: red;">c</span>                                                                                                                                                                                                                                       |
| Description                                   | 2 modules thermostat with display. 4 operating modes, centralized management via touch panel or remotely. Flush-mounted installation.<br>NOTE: To be linked to the 8A thermostat relay actuator (2CSYE1107C S) or to the 6/12-channel heating actuators (2CSYF1431M or 2CSYF1432M) |
| Dimensions (H × W × D)                        | 44 mm × 45 mm                                                                                                                                                                                                                                                                      |
| Colors ( <span style="color: red;">c</span> ) | 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

2CSYE1501 c

1 module key covers, customizable with labels available as separate articles 2CSYE1502C and 2CSYE1502S

22 mm × 45 mm

C,S



#### Customization labels

Article no.

2CSYE1502 c

Description

Customization labels for 1 module key covers

Dimensions  
(H × W × D)Colors (c)

C,S



#### 2 modules key cover

2CSYE1503 c

2 modules key cover without symbols

44 mm × 45 mm

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

2CSYE1505 c

2 modules key cover with dimmer symbol

44 mm × 45 mm

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<br>Polling voltage: 20 V–<br>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<br>Polling voltage: 20 V–<br>Protection type of device: IP 20                                                                                                                                                                                                                                                                                                                                                                        |



### Fan coil actuator, MDRC

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article no.            | FCA-M-2.3.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 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. |
| Dimensions (H × W × D) | 90 mm × 108 mm × 64 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Technical data         | Supports 24 V and 230 V valves<br>Outputs: 3x Normally open contact, potential free<br>Suitable for: AC3<br>Rated current: 6 A<br>Output voltage: 230 V~<br>Protection type of device: IP 20<br>Module width: 6 MW                                                                                                                                                                                                                                                                 |



### Power supply

|                        |                                                                                                                                                                                                                                                |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article no.            | PS-M-64.1.1                                                                                                                                                                                                                                    |
| Description            | Power supply with integrated choke. Fast diagnosis due to LED display for operational readiness and errors.                                                                                                                                    |
| Dimensions (H × W × D) | 90 mm × 72 mm × 64 mm                                                                                                                                                                                                                          |
| Technical data         | Display element: operating/overload LED<br>Nominal voltage: 230 V~, +10%/-15%<br>Secondary: 30 V, +2 V/-2 V<br>Rated frequency: 50 Hz/60 Hz<br>Outputs: 1<br>Nominal current: 640 mA<br>Protection type of device: IP 20<br>Module width: 4 MW |



| <b>Binary input 4gang</b> |                                                                                                                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>Protection type of device: IP 20<br>Module width: 2 MW                                                                                                                 |



| <b>Switch actuator 4gang</b> |                                                                                                                                                                                                                        |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article no.                  | SA-M-0.4.1                                                                                                                                                                                                             |
| Description                  | For switching 4 independent 230 V~ loads. Each contact has a manual operation function independent of auxiliary voltage for additionally displaying the contact setting.                                               |
| Dimensions (H × W × D)       | 90 mm × 72 mm × 64 mm                                                                                                                                                                                                  |
| Technical data               | Outputs: 4<br>Type of load: AC1<br>Nominal current: 16 A, at cos φ 0.8<br>Output voltage: 230 V~<br>Type of load: AC3<br>Nominal current: 8 A, at cos φ 0.45<br>Protection type of device: IP 20<br>Module width: 4 MW |



| <b>Switch actuator 8gang</b> |                                                                                                                                                                                                                                                                                      |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>Polling voltage: 32 V<br>Max. cable length: ≤100m<br>Outputs: 8<br>Suitable for: AC1<br>Rated current: 6 A, at cos φ 0.8<br>Output voltage: 230 V~<br>Suitable for: AC3<br>Rated current: 6 A, at cos φ 0.45<br>Protection class of device: IP 20<br>Module width: 8 MW |



| <b>Dim actuator 4gang</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article no.               | DA-M-0.4.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Description               | Multi-channel universal dimming actuator for controlling LEDs, incandescent lamps, 230 V halogen lamps, low-voltage halogen lamps with conventional or electronic transformers, and dimmable energy-saving halogen lamps. For dimmable retrofit LED lamps (LEDi). Parallel switching of channels for increasing the loads through wire bridges possible. The outputs can be switched parallel in any combination. Outputs automatically recognise the connected load. In addition, the operating mode can be selected manually. Status display of the outputs via LED. |
| Dimensions (H × W × D)    | 90 mm × 144 mm × 64 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Technical data            | Display elements: status display of outputs via LED<br>Nominal voltage: 230 V~<br>Rated frequency: 50 Hz/60 Hz<br>Outputs: 4 × dimming channel<br>Type of load: 230 V incandescent lamps and low-voltage halogen lampst with conventional transformers or electronic transformers<br>Nominal power: 10–315 W/VA<br>Type of load: LEDi and energy-saving lamps; typical<br>Nominal power: 2–80 W/VA<br>Protection type of device: IP 20<br>Module width: 8 MW                                                                                                           |



### Blind actuator 4gang

Article no. BA-M-0.4.1

Description For controlling 4 independent blind or roller shutter drives. The outputs are inversely blocked.

Dimensions (H × W × D) 90 mm × 72 mm × 64 mm

Technical data  
 Outputs: 4  
 Type of load: AC3  
 Nominal current: 6 A, at  $\cos \phi$  0.45  
 Output voltage: 230 V~  
 Protection type of device: IP 20  
 Module width: 4 MW



### Heating actuator 6gang

HA-M-0.6.1

For controlling thermoelectric actuating drives in heating/cooling systems. The outputs are protected against short-circuit and overload.

90 mm × 72 mm × 64 mm

Outputs: 6  
 Type of load: resistive  
 Nominal current: 160 mA  
 Protection type of device: IP 20  
 Module width: 4 MW



### Heating actuator 12gang

Article no. HA-M-0.12.1

Description For controlling thermoelectric actuating drives in heating/cooling systems. The outputs are protected against short-circuit and overload.

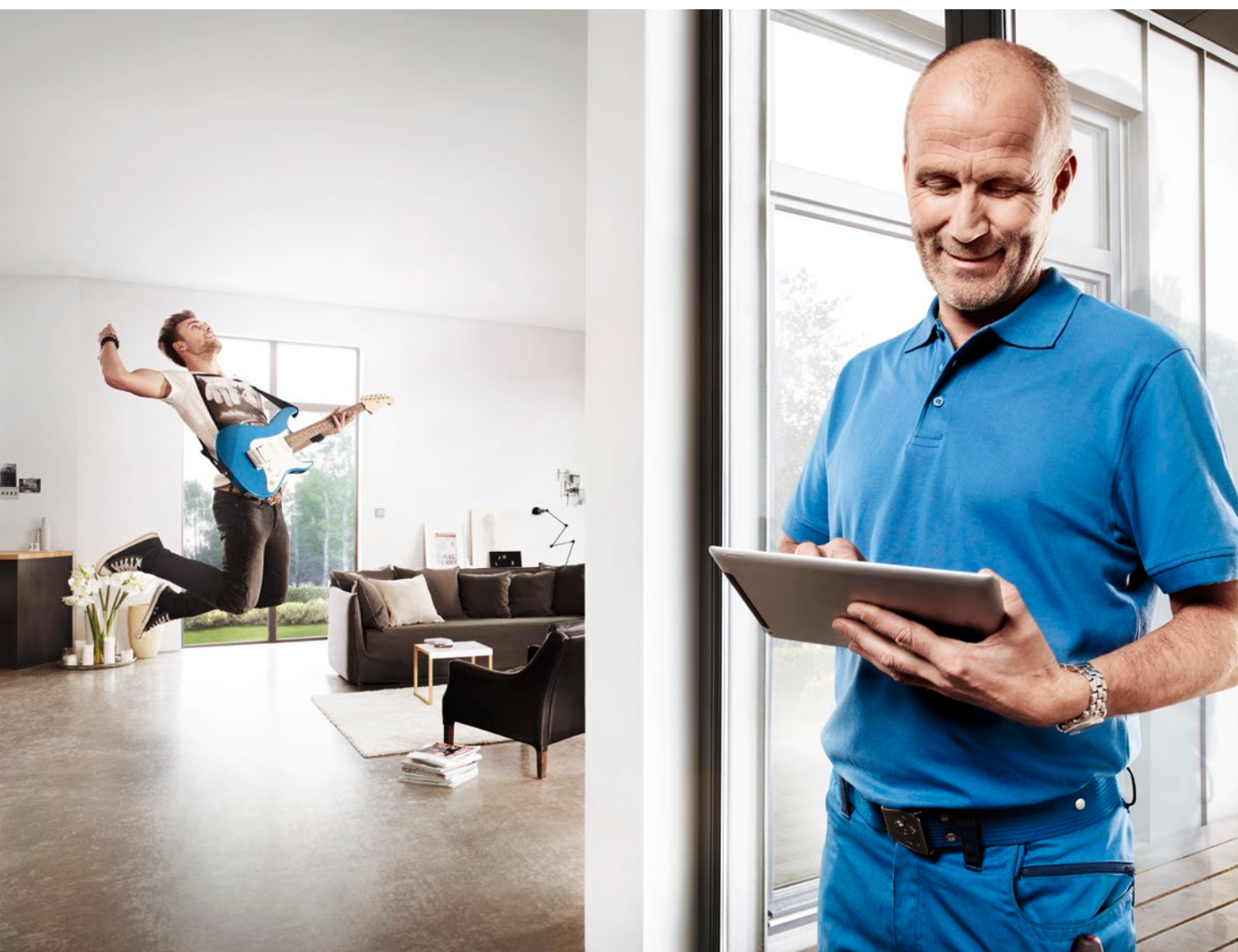
Dimensions (H × W × D) 90 mm × 144 mm × 64 mm

Technical data  
 Outputs: 12  
 Type of load: resistive  
 Nominal current: 160 mA  
 Protection type of device: IP 20  
 Module width: 8 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.

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