

EIB sensors

ABB i-bus® EIB

Intelligent Installation Systems



ABB

Busch EIB sensors. Operation and display the direct way.



There are always more than one way to a target. Networked structures guarantee high efficiency and profitability. In both residential and functional buildings, you can optimise the use of energy and thus operating costs. The Busch EIB sensors embed buildings in a network of units communicating with each other and regulate the use of light, heat and fresh air, as well as the window-blind control. For this purpose, ABB i-bus® EIB uses a separate two-wire line, whereas ABB Powernet EIB uses the existing power supply. Both systems can be installed with little trouble and offer all possibilities for future expansion – both for new buildings and renovations.

The EIB sensors for operation and display can be flexibly adapted to different designs and tastes, and offer several functions for comfortable and secure living and working.



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EIB sensor solo[®]. Unmistakable aesthetics.

Not only for individual private areas, but also in modern industrial and public architecture, everywhere sophisticated forms are preferred, the EIB solo[®] is used. The complete range from the solo[®] switch programme is available, so there are no limits to the possible combinations.



EIB sensor solo[®] Single, double and quadruple



The **single, double and quadruple operating elements** with labelling area form the basic sensors of the new EIB solo[®] range.

Functions

- Switching
- Dimming
- Blinds
- Button

Features

- Inscrutable toggle switches
- Anti-theft protection
- Freely programmable switches
- Lighting

solo[®]

colour harmony

In the solo[®] colour

concept, every shade is

defined as an optical unit.

The shades of colour,

designated as mixed

shades or so-called non-

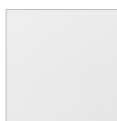
colours, purposely seek

no direct relation to the

furnishings and fittings.

For all uniformity is

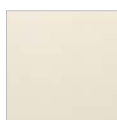
boring.



davos



attica



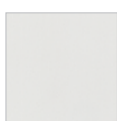
savanna



manhattan



samoa



huskie



toscana



EIB sensor solo®
Quadruple operating element, multi-function with labelling area



This **multi-function sensor** is freely programmable and, in contrast to the basic sensors, has additional separate light scene and valuable objects.

Functions

- Light scenes
- Light scene - secondary point
- Valuable objects
- Switching
- Dimming
- Blinds
- Button

Features

- Inscrutable toggle switches
- Anti-theft protection
- Freely programmable switches
- Lighting

EIB sensor solo®
Room thermostat* Room thermostat with 2-fold sensor



The **room thermostat** has an LCD display which indicates the current temperature and the respective operating status.*1

Functions

- Comfort
- Stand-by
- Night operation
- Frost protection
- Specified temperature
- Time
- Date
- Heating
- Cooling
- Light scenes
- Light scene - secondary point
- Valuable objects

Features

- Inscrutable toggle switches
- Anti-theft protection
- Illuminated display
- Lighting

*Additional operation via 2-fold switch sensor

EIB sensor solo®
IR sensor with triple operating element



The **sensor** has 5 IR channels, of which channels 1–3 are directly coupled with the toggle functions and channels 4 and 5 are freely assignable.

Functions

- 5 IR channels
- 3 IR channels connected directly to the toggle switches
- 2 IR channels freely assignable
- Switching
- Dimming
- Blinds
- Button
- Light scenes
- Light scene secondary point
- Valuable objects

Features

- Inscrutable toggle switches
- Anti-theft protection
- Freely programmable switches
- Lighting

EIB sensor solo®
Flush-mounted movement detector



The **movement detector** is equipped with a comfort lens which allows not only horizontal detection but also at an angle downwards of 7°.

EIB sensor solo®
RS 232 interface* USB-interface



The **interfaces** allow access to the ABB i-bus® EIB.

The range is enlarged by the flush-mounted USB interface. The USB interface enabled programming and commissioning for ABB i-bus® EIB with PC or laptop, suitable only for ETS version 3.0.

EIB sensor future/future linear. Timeless design.

The EIB sensor future/future linear is used in particular in functional buildings. Timeless design is combined with the elementary advantage of excellent practical value. In office buildings such as banks and in the public sector, the formal reduction in their uncompromising clarity forms an attractive oneness with the stylistic purism of modern architecture.



EIB sensor future linear Single, double and quadruple



The **single, double and quadruple operating elements** with labelling area form the basic sensors of the new EIB future linear range.

Functions

- Switching
- Dimming
- Blinds
- Button

Features

- Inscrutable toggle switches
- Anti-theft protection
- Freely programmable switches
- Lighting

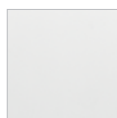
future/future linear

colour harmony

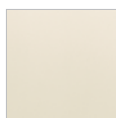
The future colour concept,

with its reduction to the essence, enhances a calm architectural environment, independent of time and trends. Individuality and style as shown by the architecture.

future



studio white



ivory

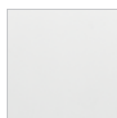


stone

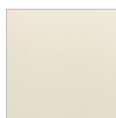


graphite

future linear



studio white



ivory



stone



anthrazit



EIB sensor future
Quadruple operating
element, multi-func-
tion with labelling area



This **multi-function sensor** is freely programmable and, in contrast to the basic sensors, has additional separate light scene and valuable objects.

Functions

- Light scenes
- Light scene secondary point
- Valuable objects
- Switching
- Dimming
- Blinds
- Button

Features

- Inscrutable toggle switches
- Anti-theft protection
- Freely programmable switches
- Lighting

EIB sensor future
Room thermostat*
Room thermostat
with 2-fold sensor



The **room thermostat** has an LCD display which indicates the current temperature and the respective operating status.¹⁾

Functions

- Comfort
- Stand-by
- Night operation
- Frost protection
- Specified temperature
- Time
- Date
- Heating
- Cooling
- Light scenes
- Light scene - secondary point
- Valuable objects

Features

- Inscrutable toggle switches
- Anti-theft protection
- Illuminated display
- Lighting

¹⁾Additional operation via 2-fold switch sensor

EIB sensor future
IR sensor with triple
operating element



The **sensor** has 5 IR channels, of which channels 1–3 are directly coupled with the toggle functions and channels 4 and 5 are freely assignable.

Functions

- 5 IR channels
- 3 IR channels connected directly to the toggle switches
- 2 IR channels freely assignable
- Switching
- Dimming
- Blinds
- Button
- Light scenes
- Light scene secondary point
- Valuable objects

Features

- Inscrutable toggle switches
- Anti-theft protection
- Freely programmable switches
- Lighting

EIB sensor future
Flush-mounted move-
ment detector



The **movement detector** is equipped with a comfort lens which allows not only horizontal detection but also at an angle downwards of 7°.

EIB sensor future
RS 232 interface*
USB-interface



The **interfaces** allow access to the ABB i-bus® EIB.

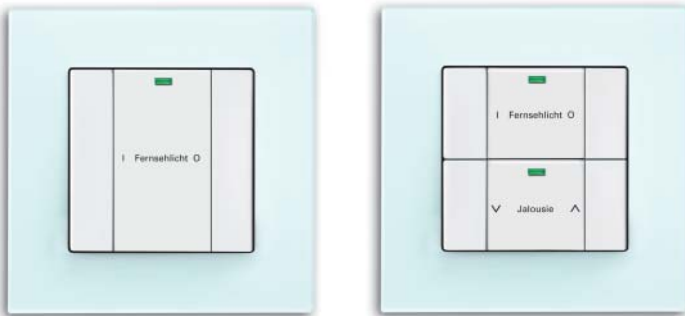
The range is enlarged by the flush-mounted USB interface. The USB interface enabled programming and commissioning for ABB i-bus® EIB with PC or laptop, suitable only for ETS version 3.0.

¹⁾product without picture. Please see product range overview.

EIB-Sensor carat. High-quality design. Genuine materials.

Its straight and elegant shape combined with high-grade natural materials makes **carat** an absolute eye-catcher. On account of its various materials and possible colour variations, the range is appropriate both for sober, design-oriented environments and in timelessly modern, classically stylistic ambiances.

EIB sensor carat Single, double and quadruple



The **single, double and quadruple operating elements** with labelling area forms the basic sensor system of the new EIB solo® range.

carat Colour harmony

Only high-grade genuine materials are used for the frame. The range can be combined with the many colour options of the solo® and future (supplemented with anthracite).



bronze



stainless steel



aluminium
waved chrome

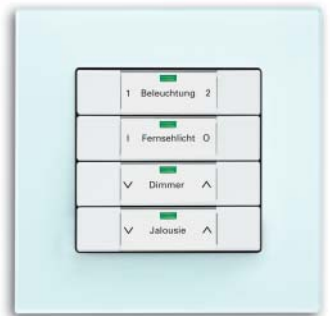


aluminium
waved gold



glass

EIB sensor carat Quadruple operating element Multifunction with labelling area



This **multifunction sensor** is freely programmable and, in contrast to the basic sensors, has additional separate light scenes and valuable objects.

Functions

- Light scenes
- Light scene - secondary point
- Valuable objects
- Switching
- Dimming
- Blinds
- Buttons

Features

- Inscriptible toggle switches
- Anti-theft protection
- Freely programmable buttons
- Lighting in acc. with Ordinance on Workplaces

Functions

- Switching
- Dimming
- Blinds
- Button

Features

- Inscriptible toggle switches
- Anti-theft protection
- Freely programmable buttons
- Lighting in acc. with Ordinance on Workplaces



EIB sensor carat
Room thermostat*
Room thermostat with
double switch sensor



The **room thermostat** has an LCD display that indicates the current temperature and the respective operating mode.

Functions

- Comfort
- Stand-by
- Night mode
- Frost protection
- Specified temperature
- Time
- Date
- Heating
- Cooling
- Light scenes
- Light scene - secondary point
- Valuable objects
- Fan control

Features

- Inscrutable toggle switches
- Anti-theft protection
- Illuminated display
- Lighting in acc. with Ordinance on Workplaces

EIB sensor carat
IR sensor with 3gang
operating element



The **sensor** has 5 IR channels, of which channels 1-3 are directly connected to the toggle switches, and channels 4 and 5 are freely assignable.

Functions

- 5 IR channels
- 3 IR channels directly connected to operating toggle switches
- 2 IR channels, freely assignable
- Switching
- Dimming
- Blinds
- Button
- Light scenes
- Light scene - secondary point
- Valuable objects

Features

- Inscrutable toggle switches
- Anti-theft protection
- Freely programmable control panels
- Lighting in acc. with Ordinance on Workplaces

EIB sensor carat
Flush-mounted move-
ment detector



The **movement detector** is equipped with a comfort lens, which allows not only horizontal detection, but also at an angle of 7° downwards.

EIB sensor carat
RS 232 interface*
USB-interface



The **interfaces** allow access to the ABB i-bus® EIB.

The range is enlarged by the flush-mounted USB interface. The USB interface enabled programming and commissioning for ABB i-bus® EIB with PC or laptop, suitable only for ETS version 3.0.

*product without picture. Please see product range overview.

EIB sensor Busch-triton®. Elegant ergonomics.

The EIB sensor Busch-triton® is probably the most innovative operating element for building system technology in residential buildings and representative areas, e.g. in hotels. It has freely programmable switches, is multi-functional and is flexibly adjustable to the habits of the users.

EIB sensor Busch-triton®
Single operating element with rear-illuminated labelling area



The single operating element is equipped with a freely programmable "large" switch. It can be assigned to one subject and carry out a maximum of two commands.

Functions

- Switching
- Dimming
- Blinds
- Valuable object
- Button

Features

- Inscrutable toggle switch
- Rear-illuminated labelling field
- Anti-theft protection
- Freely programmable switch
- Lighting
- Combinable with flush-mounted actuators

EIB sensor Busch-triton®
Triple operating element with rear-illuminated labelling area and IR reception



By means of the additional key, it is possible to store light scenes, deactivate the switching error protection and activate the labelling area rear illumination.

Functions

- Switching
- Dimming
- Blinds
- Light scenes
- Switching error protection
- 3 IR channels connected directly to the toggle switches

Features

- Inscrutable toggle switches
- Rear-illuminated labelling field
- Anti-theft protection
- Freely programmable switches
- Lighting
- IR remote-controllable
- Additional key

EIB sensor Busch-triton®
Triple operating element with rear-illuminated labelling field, LCD display and IR reception



By means of the additional key, it is possible to store light scenes, activate the labelling field rear illumination and scroll the display texts.

Functions

- Independent LCD display for 5 text/value messages
- Alarm messages
- Switching
- Dimming
- Blinds
- Light scenes
- 3 IR channels connected directly to the toggle switches

Features

- Inscrutable toggle switches
- Rear-illuminated labelling field
- Anti-theft protection
- Freely programmable switches
- Lighting
- IR remote-controllable
- Additional key

EIB sensor Busch-triton®
Triple operating element with rear-illuminated labelling field, integrated room thermostat without IR reception



The operating element has two operating levels. In the first level, the local operations are triggered, the additional key is used to access the second operating level with which the heating control can be operated.

Functions

- LCD display for room thermostat functions
- Comfort
- Stand-by
- Night operation
- Frost protection
- Heating
- Cooling
- Fan control
- Switching
- Dimming
- Blinds
- Valuable objects

Features

- Inscrutable toggle switches
- Rear-illuminated labelling field
- Anti-theft protection
- Freely programmable switches
- Lighting
- One operating element per room



EIB sensor Busch-triton®
5-fold operating element with rear-illuminated labelling area and IR reception

EIB sensor Busch-triton®
5-fold operating element with rear-illuminated labelling field, LCD display and IR reception

EIB Sensor Busch-triton®
5-fold operating element with rear-illuminated labelling field, integrated room thermostat incl. IR reception.



By means of the additional key, it is possible to store light scenes or to activate the labelling field rear illumination.

Functions

- Switching
- Dimming
- Blinds
- Light scenes
- 5 IR channels connected directly to toggle switches

Features

- Inscrutable toggle switches
- Rear-illuminated labelling field
- Anti-theft protection
- Freely programmable switches
- Lighting
- IR remote-controllable
- Additional key

By means of the additional key, it is possible to store light scenes, activate the labelling field rear illumination and scroll the display texts.

Functions

- In addition to the functions of the 5-fold operating element:
- Independent display for 5 text/value messages
 - Displays and alarm messages

Features

- (additional)
- LCD display
 - Alarm messages

The operating element has two operating levels. In the first level, the local operations are triggered, the additional key is used to access the second operating level with which the heating control can be operated.

Functions

- LCD display for room thermostat functions
- Comfort
- Stand-by
- Night operation
- Frost protection
- Heating
- Cooling
- Fan control
- Switching
- Dimming
- Blinds
- Valuable objects
- Light scenes



Features

- Inscrutable toggle switches
- Rear-illuminated labelling field
- Anti-theft protection
- Freely programmable switches
- Lighting
- One operating element per room

EIB sensor *alpha exclusive*[®]. Individual accents.

Sets the tone for an individual style in residential and functional buildings. The *alpha exclusive*[®] is superior and unconventional in shape. It can adapt to the style of its environment and still prove its individuality. In its shape it combines elegance and extravagance, and sets the tone in an exclusive environment.



EIB sensor
***alpha exclusive*[®]**
Single, double and quadruple



The **single, double and quadruple operating elements** form, as standard operating elements, the basis of the *alpha exclusive*[®] range.

Functions

- Switching
- Dimming
- Blinds
- Button
- Valuable objects

Features

- Vertical operating toggle switches
- Lighting

alpha exclusive[®]

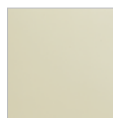
colour harmony

The colours of this series of switches rely on individuality in detail. They stand for materials with everlasting charm – from prehistoric rock to

high-grade metal. Its clarity and power of expression are as unique as nature itself.



alabaster



ivory



titanium



palladium



obsidian



chrome /amber



**EIB sensor
alpha exclusive®
Room thermostat**



The **room thermostat** has LEDs which display the individual operating modes. The specified temperature is set by means of the dial on the front of the unit.

Functions

- Comfort
- Stand-by
- Night operation
- Frost protection
- Dew point object
- Heating
- Cooling

Features

- Specified temperature adjusted by dial
- Anti-theft protection
- Operating modes shown by status LEDs

**EIB sensor
alpha exclusive®
Flush-mounted
IR interface**



The **IR sensor** with single operating element.

Functions

- IR channels can be parametered
- Switching
- Dimming
- Blinds

Features

- Remote-controllable
- 5 IR channels
- Local operation

**EIB sensor
alpha exclusive®
Flush-mounted
movement detector**



The **movement detector** is equipped with a comfort or multiple lens. The comfort lens has a horizontal surveillance zone. The multiple lens provides, in addition to the horizontal surveillance zone, surveillance at an angle of 7° downwards.

Functions

- Continuous light
- Adjustable sensitivity
- Adjustable afterrun control

Features

- Potentiometer
- Sliding ON/OFF switch

**EIB sensor
alpha exclusive®
RS 232 interface*
USB-interface**



The **interfaces** allow access to the ABB i-bus® EIB.

The range is enlarged by the flush-mounted USB interface. The USB interface enabled programming and commissioning for ABB i-bus® EIB with PC or laptop, suitable only for ETS version 3.0.

**EIB sensor
alpha exclusive®
Flush-mounted
LCD display**



The **LCD display** serves to display texts, values and operating statuses. By means of the keys, functions can be activated directly and scrolling between the individual displays of the 8-line display is possible.

Functions

- 2 x 4 line display of 16 characters
- Switch objects
- Valuable objects
- Alarm messages
- Sensor function

Features

- Display rear illumination
- Switch functions
- Rear-illuminated display

*product without picture. Please see product range overview.

EIB sensor *alpha nea*®. Harmonious proportions.

This series of switches for residential and functional buildings combines comfort and atmosphere in equal proportion. Thanks to the significantly reduced form and expressive details, such as the gently rounded edges, the *alpha nea*® can be integrated in nearly every furnishing concept.



EIB sensor *alpha nea*®
Single, double and quadruple



The **single, double and quadruple operating elements** form, as standard operating elements, the basis of the *alpha nea*® range.

Functions

- Switching
- Dimming
- Blinds
- Button
- Valuable objects

Features

- Vertical operating toggle switches
- Lighting

alpha nea®

pure aesthetics

The *alpha nea*® colour

concept underlines the

harmony of any architectural environment.

Colours for people whose

love of detail is evident in

the environment of a

comfortable atmosphere.



studio white



studio white, matt



ivory



bronze



platinum



marine blue



marine blue/platinum



EIB sensor *alpha nea*®
Room thermostat



The **room thermostat** has LEDs which display the individual operating modes. The specified temperature is set by means of the dial on the front of the unit.

Functions

- Comfort
- Stand-by
- Night operation
- Frost protection
- Dew point object
- Heating
- Cooling

Features

- Specified temperature adjusted by dial
- Anti-theft protection
- Operating modes shown by status LEDs

EIB sensor *alpha nea*®
Flush-mounted
IR interface



The **IR sensor** with single operating element.

Functions

- IR channels can be parametered
- Switching
- Dimming
- Blinds

Features

- Remote-controllable
- 5 IR channels
- Local operation

EIB sensor *alpha nea*®
Flush-mounted
movement detector



The **movement detector** is equipped with a comfort or multiple lens. The comfort lens has a horizontal surveillance zone. The multiple lens provides, in addition to the horizontal surveillance zone, surveillance at an angle of 7° downwards.

Functions

- Continuous light
- Adjustable sensitivity
- Adjustable afterrun control

Features

- Potentiometer
- Sliding ON/OFF switch

EIB sensor *alpha nea*®
RS 232 interface*
USB-interface



The **interfaces** allow access to the ABB i-bus® EIB.

The range is enlarged by the flush-mounted USB interface. The USB interface enabled programming and commissioning for ABB i-bus® EIB with PC or laptop, suitable only for ETS version 3.0.

EIB sensor *alpha nea*®
Flush-mounted
LCD display



The **LCD display** serves to display texts, values and operating statuses. By means of the keys, functions can be activated directly and scrolling between the individual displays of the 8-line display is possible.

Functions

- 2 x 4 line display of 16 characters
- Switch objects
- Valuable objects
- Alarm messages
- Sensor function

Features

- Display rear illumination
- Switch functions
- Rear-illuminated display

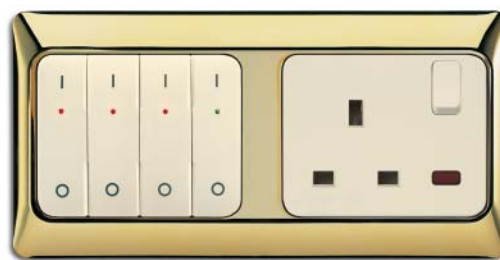
*product without picture. Please see product range overview.

EIB sensor *alpha bs*[®].

This series of switches for residential and functional buildings combines comfort and atmosphere in equal proportion. Thanks to the significantly reduced form and expressive details, such as the gently rounded edges, the *alpha bs*[®] can be integrated in nearly every furnishing concept.



EIB sensor *alpha bs*[®]
Single, double and quadruple



The **single, double and quadruple operating elements** form, as standard operating elements, the basis of the *alpha bs*[®] range.

Functions

- Switching
- Dimming
- Blinds
- Button
- Valuable objects

Features

- Vertical operating toggle switches
- Lighting

alpha bs[®]

different by design

The *alpha bs*[®] colour

concept underlines the

harmony of any architectural environment.

Colours for people whose

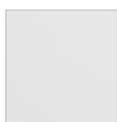
love of detail is evident in

the environment of a

comfortable atmosphere.



ivory



studio white



gold/ivory



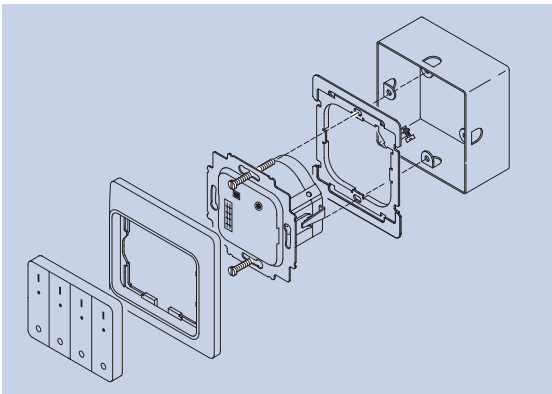
palladium



platinum



bronze



Specialities, like electronic devices, are to be installed with the help of an adapter plate.

EIB sensor *alpha bs*®

Step 1:
Choose your
insert



Step 2:
Choose your
frame



Step 3:
Choose your
coverplate



Final
product



Switch Connection Unit EIB.

The Switch Connection Unit offers the opportunity to design economical solutions with EIB in commercial Projects, which have a basic budget for the electrical installation system. It is fully compatible to the wiring accessories of ABB. Illumination integrated. ABB wiring accessories are available for VDE (e.g. Germany, Spain, France, ...) and British Standard.



Ricarda-Huch-school, Giessen



Examples of functional options

1 gang Switch	2 gang Switch	1 gang push switch	2 gang push switch
1 x Switch	2 x Switch	1 x Switch	2 x Switch
		1 x Dimmer	2 x Dimmer
			1 x shutter

Multiple combination option*

German Range



Spanish Range



Czech Range

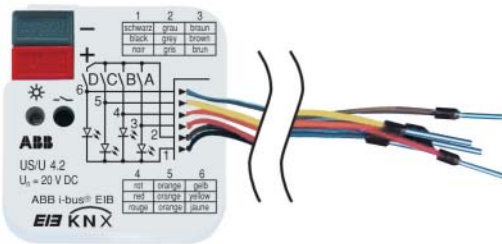


*the mentioned range is a collection of ABB ranges worldwide.
Please ask your local distributor for the available ranges in your country.

Universal interface EIB.

The Universal Interface allows the integration of EIB in buildings worldwide and independent from the local installation standards. Lots of common EIB functions are covered by use of the Universal Interface, as Switch-, and Dimmfunctions, but as well shutter control, Scenes ... Illumination of traditional wiring accessories is possible.

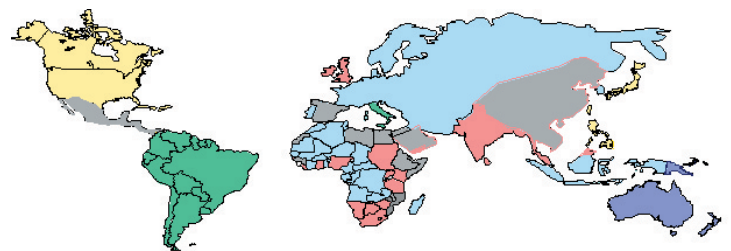
Universal interface EIB



The Universal Interface with 2 or 4 channels respectively which can parameterised as input or output. Conventional push-buttons, auxiliary contacts, LEDs and electronic relays can be used together with the device to fulfil a wide variety of applications worldwide.



Installation standards worldwide



	60 mm	VDE-System
	80 x 80 mm	UK-System
	96 x 59 mm	NEMA System
	59 x 96 mm	Italian System
	95 x 76 mm	Australian System
		Mixture of various Systems

SMARTtouch. Harmony of function and design.

The Busch-Jaeger LEAN- and SMARTtouch do not just look good, they also offer numerous functions for switching and controlling an EIB or Powernet system. This versatile display and operating unit can be used simply and with intuition.



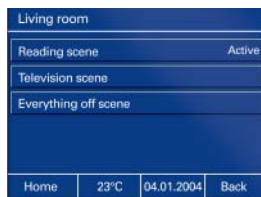
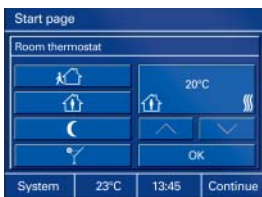
The chromium-plated flap automatically opens downwards when slight pressure is applied.



The LEAN- and SMARTtouch offer a number of functions, depending on version, e.g. switching, dimming, blind control, measurement value display, switch time control, light scene control or display and storage of alarm and disturbance signals. In addition, the panel can be used as a room thermostat or timer/alarm clock, and has an addi-

tional information function with which information can be recorded. Operation is simple and intuitive. By means of the PDA pen, the functions are carried out by means of the touchscreen buttons labelled in clear text. Control of the functions is facilitated by a clear menu structure. The LEAN- and SMARTtouch can be operated conveniently

by means of an infrared hand-held transmitter, which allows the equipment or functions to be controlled from a distance. The panel is available in three versions: as LEANTouch with monochrome display for approx. 30 functions, and as SMARTtouch with monochrome or colour display for approx. 100 functions.



On the Start page of the SMARTtouch, there are up to 10 touch-screens, which, for example, reflect the room layout of a house. With the buttons of the footer, the room temperature and time can be read off at any time, and also direct access to the integrated individual room thermostat and time programs is possible. If a touch button on the start page is touched with the PDA

pen, you go directly to the overview of the individual functions of the room (e.g. of the living room) or function group. On the display, the current statuses, e.g. the switch functions or measurement values, are displayed in clear text. With another touch on the respective individual function, an operation window opens, by means of

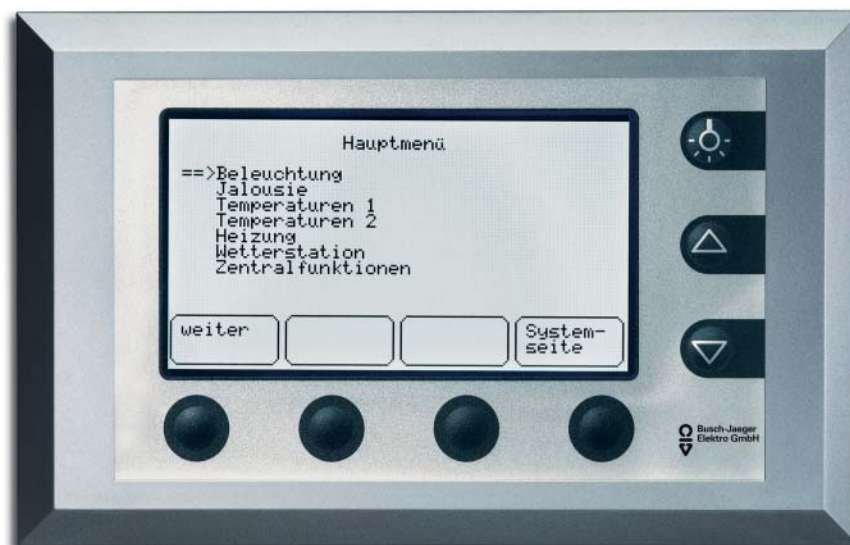
which, for example, the brightness of the ceiling light can be altered. By means of the "Home" button in the footer, you can return from the operation page back to the start page. In addition, the LEAN-/SMARTtouch has a "child-proofing device", with which the entire operation can be blocked. The respective locking symbol is displayed in the header.



Behind the chromium-plated flap (illustration on Page 20), there are function elements such as the PDA pen for operating the touch-screen.

Flush-mounted LCD panel. Perfect overview.

This panel provides maximum control and is fast, easy and obvious to operate. The functions of the ABB i-Bus® EIB are flexible and can be tailored to meet individual needs.



Flush-mounted LCD panel visualises switch status and error messages.

Any and all buttons can be displayed and controlled on the display of the LCD panel. The display is operated using the pushbuttons on the panel.



Because the ABB i-Bus® EIB operates using decentral methods, the panel, from which all functions can be monitored and controlled, can be integrated and initiated any time and with little effort.



Simultaneously, it takes control of the display functions and provides information regarding the current states of the EIB system. It maintains the programmed configurations of the user interface even if a power failure occurs.

A member of
the ABB group

Your EIB-partner