

ABB


## ABB Group

ABB (www.abb.com) is a leader in power and automation technologies that enable utility and industry customers to improve performance while lowering environmental impacts. The ABB Group of companies operates in around 100 countries and employs about 111,000 people worldwide.

## ABB Electrical Wiring Accessories (EWA)

ABB first started EWA production and development in Germany over 125 years ago. In 1879 Hans-Curt Jaeger together with his brother Georg founded a metal ware factory in Luedenscheid, Germany which later became the market leader in Electrical Wiring Accessories in Germany under the brand name of Busch-Jaeger Elektro. In 1969 Busch-Jaeger became part of BBC (today, the ABB Group) selling over 5,700 types of products to countries all over the world.

Based on this history ABB is now producing EWA products in over 10 factories, achieving market leading position in many markets around the globe.




## Concept in every detail

For over 125 years our products have mirrored the growth and development changes in electrical wiring technologies. Quality and reliability of our products have always been our first priority. Having a concept in every detail was, is and always will be our secret to success.

With its unique design - its square rocker combined with a slight curve on the top and bottom - concept bs is the best choice to meet your pursuit of EWA products with high quality and attractive design.


## concept bs series

Based on the profound experience, R\&D and production know-how of Busch-Jaeger Germany, this new concept bs series is especially developed for British standard markets offering a wide product portfolio with all kinds of products from switches and socket outlets to electronic products such as dimmers, motion detectors and EIB / KNX products.

Features of concept bs


## Excellent materials for durability

High quality PC material with improved flame-retardant characteristics is used, which is flexible and will not deform or change color even after long-term use or prolonged exposure to direct sunlight.

Big square rocker, unique design With its unique design - its square rocker combined with a slight curve on the top and bottom - concept bs is the perfect fit for any interior design.


## LED indicator light

All switches use LED light indicators combining the attribute of low electricity consumption with the longevity of over 100,000 operating hours.

The decorative line uses combined moulding technology, allowing the perfect shape for the LED light.


2/4 pipe fan coil controller
Available in the same style and color as the whole EWA series using an ultra - big LCD with blue background - simple to read \& easy to use. Our Temperature controller will automatically reduce the fan speed the closer the temperature comes to the set point to save energy and increase comfort for the user. Via its additional contact, the room temperature controller can be switched on and off e.g. via a card switch in a hotel or via EIB/KNX system.


## Features of concept bs



## Wide variety of socket outlets

For all kinds of requirements. All sockets are equipped with shutters for increased safety. All the sockets are equipped with shutters. Switched and unswitched versions with and without neon. 13A and 15A British standard, international and Euro American socket outlet.


## More safety with concept bs

 surge protection productsSurge protection is available for international, computer and telephone socket outlets. concept bs surge protection devices help to safeguard from the risk of personal injury and/or damage to equipment resulting from lightning strikes or voltage surges.


## Hospitality range

concept bs also offers a wide range of products such as night light, shaver socket outlet, volume control, key card switch with time delay and doorbell switch. The doorbell switch can be customized with "Do Not Disturb", "Make Up Room" and "Please Wait" markings and indicators.


## Wide variety of data communication outlets

For all kinds of applications in one gang and two gang versions. The labeling field avoids confusion in a structured PC Network. The concept bs series provides both cat. 5e and cat. 6 computer socket outlets to meet present customer expectations.

## concept bs series: the best solution for your hotel

ABB offers products to fulfill the high expectations of owners and guests in all main areas such as guest rooms, restaurants, meeting rooms, corridors and lobbies.

Small capacity loads in rooms or restaurants, as well as large loads in lobbies can be controlled with ABB's assortment of dimmers. Whether installed on a DIN rail in an enclosure like the $4 \times 2 \mathrm{~A}$ or $8 \times 1 \mathrm{~A}$ multi-channel dimmer or just flush-mounted at the bedside, you can be sure we have the right kind of dimmer for your application to ensure a comfortable atmosphere, while simultaneously saving energy. In the corridors, presence detectors can be used to fulfill this requirement.

In conference rooms, a remote control helps the presenter to set the right scene for their speech, presentation or meeting and allows control of light, electric shutters and blinds or presentation screens from all areas of the room.


AC411 Countdown timer switch
One contact is attached to a time delay switch with a range from 0 to 120 minutes that stops the fan automatically after the set time. The other contact can be used to control the bathroom lamp, via the switch.



ABB Switches

| Tpye | Colour | Description | Rated current | Tpye | Colour | Description | Rated current |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AC101 <br> AC101-S <br> AC105 <br> AC105-S | white silver <br> white silver | 1 gang 1 way switch <br> 1 gang 2 way switch | 10AX 10AX | AC103 <br> AC103-S <br> AC107 <br> AC107-S | white silver <br> white silver | 3 gang 1 way switch <br> 3 gang 2 way switch | $\begin{aligned} & 10 \mathrm{AX} \\ & 10 \mathrm{AX} \end{aligned}$ |
| AC119 AC119-S | white silver | Intermediate switch | 10AX | AC116 <br> AC116-S | white silver | 3 gang 1 way switch | 16AX |
| AC110 <br> AC110-S | white silver | 1 gang 1 way switch | 20AX |  |  |  |  |
| AC112 <br> AC112-S | white silver | 1 gang 2 way switch | 20AX | AC104 <br> AC104-S | white silver | 4 gang 1 way switch | 10AX |
| AC111 <br> AC111-S | white silver | 1 gang 1 way double pole switch, with marking "On" | 20AX | AC108 <br> AC108-S | white silver | 4 gang 2 way switch | 10AX |
| $\begin{aligned} & \text { AC430 } \\ & \text { AC430-S } \end{aligned}$ | white silver | 1 gang 1 way push switch | 10A | AC117 <br> AC117-S | white silver | 4 gang 1 way switch | 16AX |


| - | $\begin{aligned} & \text { AC102 } \\ & \text { AC102-S } \end{aligned}$ | white <br> silver | 2 gang 1 way switch | 10AX |
| :---: | :---: | :---: | :---: | :---: |
| $\square$ | AC106 <br> AC106-S | white silver | 2 gang 2 way switch | 10AX |
|  | AC114 <br> AC114-S | white silver | 2 gang 1 way switch | 20AX |
|  | AC115 <br> AC115-S | white silver | 2 gang 2 way switch | 20AX |
|  | AC113 <br> AC113-S | white silver | 2 gang 1 way double pole switch, with marking "On" | 20AX |
|  | $\begin{aligned} & \text { AC438 } \\ & \text { AC438-S } \end{aligned}$ | white silver | 2 gang 1 way push switch | 10A |



ABB Socket outlets

|  | Type | Colour | Description | Rated current |  | Type | Colour | Description | Rated current |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| " ${ }^{*}$ | AC208 <br> AC208-S | white silver | BS socket outlet | 13A | $\cdots$ | $\stackrel{*}{=}$ |  |  |  |
|  |  |  |  |  |  | AC227 <br> AS227-S | white <br> silver | 2 gang BS switched <br> socket outlet | 13A |
| $\stackrel{*}{*}$ | AC224 <br> AC224-S | white silver | BS switched socket outlet | 13A | ** | AC212 <br> AC212-S | white silver | 2 gang Euro-American socket outlet | 10A |


AC229 white
AC229-S silver

BS switched socket outlet with neon

13A


AC222 white
2 gang Euro-American
10A


AC209 white
BS round pin switched socket outlet

15A
AC209-S silver


| AC234 | white |
| :--- | :--- |
| AC234-S | silver |

2 gang Euro-American
10A
switched socket outlet with neon

## AC231 white <br> AC231-S silve socket outlet with neon

15A


AC290 white
Universal socket outlet with
13A
AS290-S silver surge protection


AC230 white
AS230-S silver

2 gang BS switched socket outlet with neon

13A

## ABB Telecommunications


Type Colour Description

Type
Colour Description
AC303 whit

AC303-S silver
4-pole UTP


| AC322 | white | 2 gang telephone outlet, |
| :--- | :--- | :--- |
| AC322-S | silver | RJ11, 4-pole UTP |



AC312 white
AC312-S silve
TV \& FM outlet,
dead-end-feeder, isolated


AC326 white
1 gang telephone outlet
AC326-S silver with surge protection UTP


## AC302 white

AC302-S silver
2 gang TV outlet, twin isolated,
AC326-S loop-through , isolated


| AC331 | white |
| :--- | :--- |
| AC331-S | silver |
| AC333 | white |
| AC333-S | silver |

1 gang computer outlet, RJ45 cat. 5e,
8-pole UTP
1 gang computer outlet, RJ45 cat. 6 ,
8-pole UTP


AC324 white
AC324-S silver
TV \& telephone outlet, UTP


| AC341 | white |
| :--- | :--- |
| AC341-S | silver |

Audio outlet, 2 terminals

| AC332 | white | 2 gang computer outlet, |
| :--- | :--- | :--- |
| AC332-S | silver | RJ45, cat. 5e, 8-pole UTP |

AC341-S silver


| AC323 | white | 2 gang telephone outlet RJ11, 4-pole |
| :--- | :--- | :--- |
| AC323-S | silver | \& computer outlet RJ45 cat. 5e, |
|  |  | 8-pole UTP |



Audio outlet, 4 terminals

| 1 1 | AC301 <br> AC301-S | white <br> silver | 1 gang TV outlet, dead-end feeder |
| :--- | :--- | :--- | :--- |
|  | AC304 | white <br> AC304-S | silver |

## Surge protection products

Safeguard from the risk of personal injury and/or damage to equipment resulting from lightning strikes or voltage surges and the loss of important data on your hard disk.




Further hotel products with additional markings 10AX and indicators for "Do Not Disturb", "Make Up Room" and "Please Wait" are available upon special request


## ABB Function control switches



| Type | Colour | Description |
| :--- | :--- | :--- |
| AC417 | white | Thermostat controller with display, 2 pipe system |
| AC417-S | silver |  |
| AC420 | white | Thermostat controller with display, 4 pipe system |
| AC420-S | silver |  |

## Technical data

Rated power: 220W
Sensor: NTC
Temperature setting: $5^{\circ} \mathrm{C}-35^{\circ} \mathrm{C}$
Temperature adjustment: $\pm 1^{\circ} \mathrm{C}$ Depth: 25.5 mm

10AX, 250V~
Time setting: 0-120min
Two seperate switching contacts


AC414 white
AC414-S silver
Touch type time delay switch
00W, 230V~
Time delay: 1-3min adjustable
Short-circuit protection


## AC415 white

AC415-S silver
Sound and light control switch
100W, 230V
Time delay: 1-3min adjustable Brightness threshold: 0-150Lux adjustable
Sound threshold: $60 \pm 5 \mathrm{~dB} \quad$ Short-circuit protection


AC413 white
4 step fan regulator
AC413-S silver
Volume control switch
5-15W, (0-100)V~
AC416 white
AC416-S silver

300W, 230V~

6A, 230V~
Sending alarm signal manually, using key to release

## ABB Function control switches



# Description Colour <br> Ref. No. <br> Insert 

Ref. No.
Cover
Frame Technical data

Bush watchdog 220 white professional line

6845/11 AGM-204-500

Watchdog 90 white 6853 AGM-204-500
professional


Presence tech white master

Presence tech white slave


| Blind control | white <br> silver | 6411 U-500-101 |
| :--- | :--- | :--- |
| For luminosity | white | 6411 U/S-500-101 |

sensor silver

with $\mathrm{IR} \quad$ silve

Blind control whi
with IR silver


| Universal relay | whit <br> silve |
| :--- | :--- |
|  |  |

Universal relay whit
2 gang silve

Memory timer white silver

6813-101-500

6813-101-500

| $6430-84-102$ | AC503 |
| :--- | :--- |
| $6430-83-102$ | AC503-S |
|  |  |
| $6430-84-102$ | AC503 |
| $6430-83-102$ | AC503-S |

Rated power: 690VA, 3A
Outputs: 2 normally open contact Running time: 3min Multi-way input terminals (Up/Down)

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Outputs: 2 normally open contact Running time: 3 min
Multi-way input terminals(Up/Down) Connection with brightness sensor 6414-500

| $6066-84$ | AC503 |
| :--- | :--- |
| $6066-83$ | AC503-S |

Outputs: 2 normally open contact Running time: 3 min Multi-way input terminals (Up/Down)

Rated power: 690VA, 3A
Outputs: 2 normally open contact Running time: 3 min
Multi-way input terminals (Up/Down) Connection with brightness sensor 6414-500

Manual/remote contro
Outputs: 1 normally open contac
Suitable for: 230 V incandescent lamps, 230 V halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformer

Manual/remote contro
Outputs: 2 normally open contact
Suitable for: 230 V incandescent lamps, 230 V halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformer

For combination with 6411 U/S-500-101 shutter control switches,
with $2 m$ connecting cable.
Measuring range: $15-50,000$ Lux

## Detection range: frontal: 15 m

For controlling up to 10 receivers in 2 groups (1-5/6-10

ABB Dimmers


[^0]
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[^0]:    1) In the case of conventional transformers, take $\sim 20 \%$ transformer loss into account.
    2) In case of electronic transformers, $5 \%$ transformer losses.
