Product Catalogue

concept bs Switches and Sockets series

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_ 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.

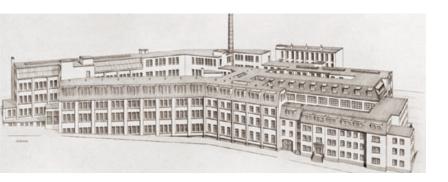
Based on this history ABB is now producing EWA products in over 10 factories, achieving market leading position in many markets around the globe.













Concept in every detail

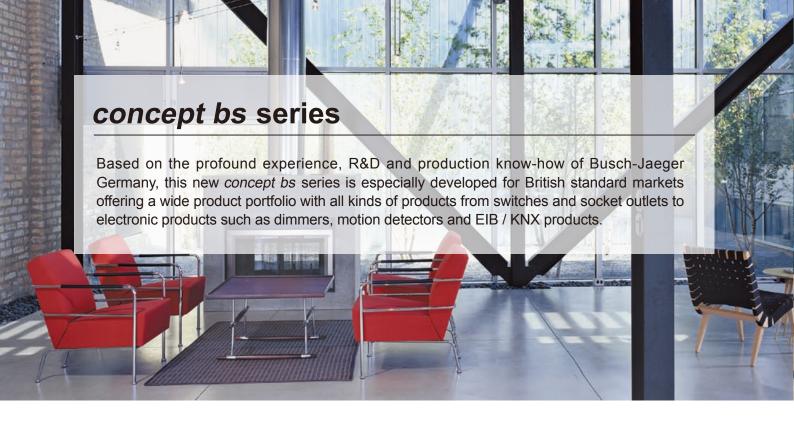
For over 125 years our products have mirrored the growth and development changes in electrical wiring technologies. Quality and reliability of our products have always been our first priority. Having a concept in every detail was, is and always will be our secret to success.

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.









Features of concept bs

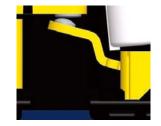


Excellent materials for durability

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.



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.



Silver alloy contacts

Silver-nickel alloy contacts have the advantage of low resistance and increased electrical conductivity to ensure excellent performance over a long life-span.

concept bs switches are available in 10AX and 20AX versions allowing connection to high fluorescent loads.



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.



concept in every detail

Thin design, easy installation

The thickness of the functional part is only 1.2 cm, which allows more space inside the wallbox for wiring connections. In addition our products can also be installed in thinner walls.



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 products

Surge 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.

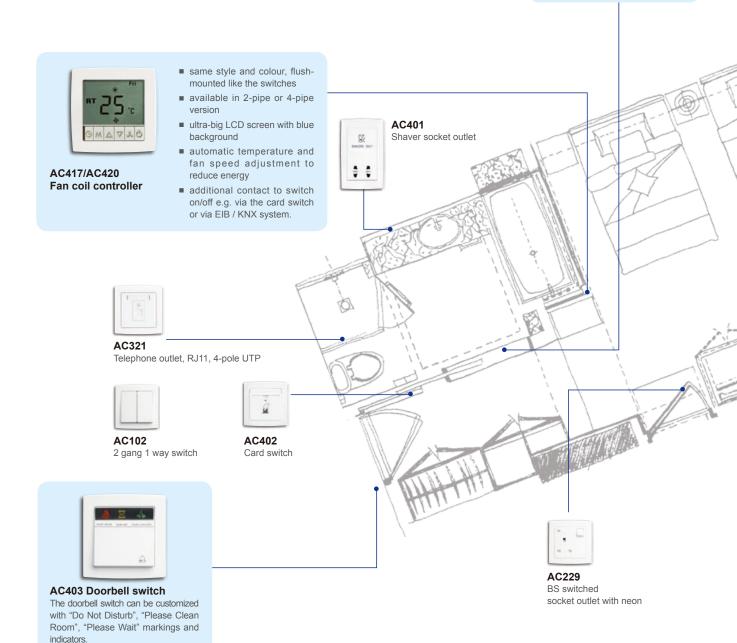
Small capacity loads in rooms or restaurants, as well as large loads in lobbies can be controlled with ABB's assortment of dimmers. Whether installed on a DIN rail in an enclosure like the 4x2A or 8x1A multi-channel dimmer or just flush-mounted at the bedside, you can be sure we have the right kind of 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.







AC229 BS switched socket outlet with neon

Wide variety of socket outlets

- 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.



2 gang 1 way switch

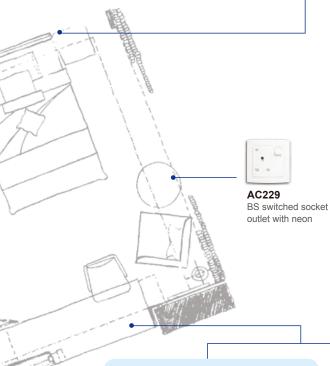


1 gang 1 way switch



AC323

Telephone outlet RJ11, 4-pole & computer outlet RJ45 cat. 5e, 8-pole UTP



outlet with neon



AC290 Universal socket outlet with surge protection

AC326 1 gang telephone

outlet with surge protection UTP A hotel brings many different nationalities

together from all over the world. Laptops and electronic devices with various configurations can be plugged into the universal socket outlet with surge protection. To help safeguard from the risk of personal injury and/or damage to equipment resulting from lightning strikes, PC and telephone outlets with surge protection can be used.



AC301

1 gang TV outlet, dead-end feeder



AC5201(AC101+AC229) 2 gang frame concept bs



AC102

2 gang 1 way switch



ABB Switches

Труе	Colour	Description	Rated current	Труе	Colour	Description	Rated current
AC101 AC101-S	white silver	1 gang 1 way switch	10AX	AC103 AC103-S	white silver	3 gang 1 way switch	10AX
AC105 AC105-S	white silver	1 gang 2 way switch	10AX	AC107 AC107-S	white silver	3 gang 2 way switch	10AX
AC119 AC119-S	white silver	Intermediate switch	10AX	AC116 AC116-S	white silver	3 gang 1 way switch	16AX
AC110 AC110-S	white silver	1 gang 1 way switch	20AX				
AC112 AC112-S	white silver	1 gang 2 way switch	20AX	AC104 AC104-S	white silver	4 gang 1 way switch	10AX
AC111 AC111-S	white silver	1 gang 1 way double pole switch with marking "On"	, 20AX	AC108 AC108-S	white silver	4 gang 2 way switch	10AX
AC430 AC430-S	white silver	1 gang 1 way push switch	10A	AC117 AC117-S	white silver	4 gang 1 way switch	16AX
AC102 AC102-S	white silver	2 gang 1 way switch	10AX				
AC106 AC106-S	white silver	2 gang 2 way switch	10AX				
AC114 AC114-S	white silver	2 gang 1 way switch	20AX				
AC115 AC115-S	white silver	2 gang 2 way switch	20AX				
AC113 AC113-S	white silver	2 gang 1 way double pole switch, with marking "On"	20AX				
AC438 AC438-S	white silver	2 gang 1 way push switch	10A				



Труе	Colour	Description	Rated current	Труе	Colour	Description	Rated current
AC429 AC429-S	white silver	Push switch with "bell" symbol	I 10A	AC162 AC162-S	white silver	2 gang 1 way switch with LED/decorative line	10AX
				AC165 AC165-S	white silver	2 gang 2 way switch with LED/decorative line	10AX
AC161 AC161-S	white silver	1 gang 1 way switch with LED/decorative line	10AX	AC173 AC173-S	white silver	2 gang 1 way switch with LED/decorative line	20AX
AC164 AC164-S	white silver	1 gang 2 way switch with LED/decorative line	10AX	AC174 AC174-S	white silver	2 gang 2 way switch with LED/decorative line	20AX
AC170 AC170-S	white silver	1 gang 1 way switch with LED/decorative line	20AX				
AC172 AC172-S	white silver	1 gang 2 way switch with LED/decorative line	20AX	AC163 AC163-S	white silver	3 gang 1 way switch with LED/decorative line	10AX
AC171 AC171-S	white silver	1 gang 1 way double pole switch with LED/decorative line and marking "On"	20AX	AC166 AC166-S	white silver	3 gang 2 way switch with LED/decorative line	10AX
AC171WH AC171WH-9		1 gang 1 way double pole switch with LED/decorative line and marking "On" and "water heater"	20AX	AC175 AC175-S	white silver	3 gang 2 way switch with LED/decorative line	16AX

ABB Socket outlets

	Туре	Colour	Description	Rated current		Туре	Colour	Description	Rated current
	AC208 AC208-S	white silver	BS socket outlet	13A		,			
						AC227 AS227-S	white silver	2 gang BS switched socket outlet	13A
	AC224 AC224-S	white silver	BS switched socket outlet	13A	4.	AC212 AC212-S	white silver	2 gang Euro-American socket outlet	10A
-, -	AC229 AC229-S	white silver	BS switched socket outlet with neon	13A		AC222 AC222-S	white silver	2 gang Euro-American switched socket outlet	10A
o •	AC209 AC209-S	white silver	BS round pin switched socket outlet	15A	•••	AC234 AC234-S	white silver	2 gang Euro-American switched socket outlet with neon	10A
The second second	AC231 AC231-S	white silver	BS round pin switched socket outlet with neon	15A	Communication of the second	AC290 AS290-S	white silver	Universal socket outlet with surge protection	13A
-,	,								
	AC230 AS230-S	white silver	2 gang BS switched socket outlet with neon	13A					



ABB Telecommunications

	Туре	Colour	Description		Туре	Colour	Description
	AC321 AC321-S	white	1 gang telephone outlet, RJ11, 4-pole UTP	77	AC303 AC303-S	white silver	Sat outlet, dead-end-feeder, isolated
	AC322 AC322-S	white silver	2 gang telephone outlet, RJ11, 4-pole UTP	77 70	AC312 AC312-S	white silver	TV & FM outlet, dead-end-feeder, isolated
	AC326 AC326-S	white silver	1 gang telephone outlet with surge protection UTP		AC302 AC302-S	white silver	2 gang TV outlet, twin isolated, loop-through , isolated
	AC331 AC331-S AC333 AC333-S	white silver white silver	1 gang computer outlet, RJ45 cat. 5e, 8-pole UTP 1 gang computer outlet, RJ45 cat. 6, 8-pole UTP	70 8	AC324 AC324-S	white silver	TV & telephone outlet, UTP
	AC332 AC332-S	white silver	2 gang computer outlet, RJ45, cat. 5e, 8-pole UTP	••	AC341 AC341-S	white silver	Audio outlet, 2 terminals
	AC323 AC323-S	silver	2 gang telephone outlet RJ11, 4-pole & computer outlet RJ45 cat. 5e, 8-pole UTP		AC342 AC342-S	white silver	Audio outlet, 4 terminals
1	AC301 AC301-S AC304 AC304-S	white silver white silver	1 gang TV outlet, dead-end feeder 1 gang TV outlet, loop-through, isolated				



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.

ABB Hotel series

ABB Accessories

						<u> </u>						
	Туре	Colour	Description	Rated current		Туре	Colour	Description				
ě	AC402 AC402-S	white silver	Card switch * Suitable for several loads, time delay: 30±5s	20A		AC504 AC504-S	white silver	Blank plate				
<u>A</u>	AC403-001-S		Bell push-switch "Do Not Disturb" marking and indicator	10A		AC503 AC503-S	white silver	1 gang adapter plate for Busch-Jae solo/future/carat/pure series				
<u>a</u> <u>a</u>	AC403-002-S		Bell push-switch "Do Not Disturb" & "Please Clean Room" marking and indicator	10A								
8	AC403 AC403-S	white silver	Bell push-switch "Do Not Distu "Please Clean Room"and "Please Wait" marking and in			AC5201 AC5201-S	white silver	2 gang frame concept bs				
SHACES ONLY	AC401 AC401-S	white silver	Shaver socket outlet									
	AC406 AC406-S	white silver	Night light 5-10W, 230V~									
State Seaso	and indicate	ors for "Do N	with additional markings lot Disturb", "Make Up Room" available upon special request									

ABB Floor sockets

Туре	Material	Description		Туре	Material	Description
AC537 AC537-S	copper aluminium	2 gang telephone floor outlet RJ11, 4-pole	1	AC536 AC536-S	copper aluminium	2 gang computer floor outlet, RJ45 cat. 5e, 8-pole & telephone floor outlet RJ11, 6-pole UTP
AC538	copper	2 gang computer floor outlet,				



ABB Function control switches

	Туре	Colour	Description	Technical data					
"25°	AC417 AC417-S	white silver	Thermostat controller with display, 2 pipe system	Rated power: 220W Sensor: NTC Temperature setting: 5°C-35°C	Temperature adjustment: ±1°C Depth: 25.5mm				
ONITAL	AC420 AC420-S	white silver	Thermostat controller with display, 4 pipe system						
0	AC411 AC411-S	white silver	Countdown time switch, 1 gang 1 way	10AX, 250V~ Time setting: 0-120min Two seperate switching contacts					
	AC414 AC414-S	white silver	Touch type time delay switch	100W, 230V~ Time delay: 1-3min adjustable Short-circuit protection					
	AC415 AC415-S	white silver	Sound and light control switch	100W, 230V~ Time delay: 1-3min adjustable Sound threshold: 60±5dB	Brightness threshold: 0-150Lux adjustable Short-circuit protection				
	AC416 AC416-S	white silver	Volume control switch	5-15W, (0-100)V~ With fire alarm terminal					
	AC413 AC413-S	white silver	4 step fan regulator	300W, 230V~ With high, mid, low fan speed sele	ction				
	AC419 AC419-S	white silver	Emergency switch	6A, 230V~ Sending alarm signal manually, us	ing key to release				

ABB Function control switches

	Description	Colour	Ref. No. Insert	Ref. No. Cover	Frame	Technical data	
3-0	Bush watchdog 220 professional line	white	6845/11 AGM-204-500			Aperture angle: 220° Detection	neight: 2.5m range: frontal: 16m, lateral: 16m s: (L x W x D): 97mm x 97mm x 159mr
	Watchdog 90 professional	white	6853 AGM-204-500			Aperture angle: 90° Detection	neight: 2.5m range: frontal: 12m, lateral: 6m s: (L x W x D): 97mm x 97mm x 159mr
	Presence tech master	white	6401 U-102-500	6813-101-500		Rated power: 2300W/VA, 10AX Suitable for: 230V incandescent lamps, 230V lamps with conventional transformers or electron	
	Presence tech slave	white	6805 U-500	6813-101-500		Rated power: 2300W/VA, To be connected with master	
Δ	Blind control	white silver	6411 U-500-101	6430-84-102 6430-83-102	AC503 AC503-S	Rated power: 690VA, 3A Outputs: 2 normally open contact Running ti Multi-way input terminals (Up/Down)	me: 3min
₹	For luminosity sensor	white silver	6411 U/S-500-101	6430-84-102 6430-83-102	AC503 AC503-S	Rated power: 690VA, 3A Outputs: 2 normally open contact Multi-way input terminals(Up/Down) Running ti Connectio	me: 3min n with brightness sensor 6414-500
<u> </u>	Blind control with IR	white silver	6411 U-500-101	6066-84 6066-83	AC503 AC503-S	Rated power: 690VA, 3A Outputs: 2 normally open contact Multi-way input terminals (Up/Down)	me: 3min
	Blind control with IR	white silver	6411 U/S-500-101	6066-84 6066-83	AC503 AC503-S	Rated power: 690VA, 3A Outputs: 2 normally open contact Multi-way input terminals (Up/Down) Running ti Connection	me: 3min n with brightness sensor 6414-500
-	Universal relay	white silver	6401 U-102-500	6067-84 6067-83	AC503 AC503-S	Manual/remote control Outputs: 1 normally open contact Suitable for: 230V incandescent lamps, 230V lamps with conventional transformers or electron	
-	Universal relay 2 gang	white silver	6402 U-500	6067-84 6067-83	AC503 AC503-S	Manual/remote control Outputs: 2 normally open contact Suitable for: 230V incandescent lamps, 230V lamps with conventional transformers or electron	
•••	Memory timer	white silver	6457+6418 U	1773 JA-84 1773 JA-83	AC503 AC503-S	Rated power: 690VA, 3A Manual our automatic operation Outputs: 2 normally open contact Command Running ti	s in a 24-hour rhythm me: 3min
	Luminosity sensor	white	6414-500			For combination with 6411 U/S-500-101 shutte with 2m connecting cable. Measuring range: 15-50, 000Lux	control switches,
Till I	IR remote	white	6010-25-500			Detection range: frontal: 15m For controlling up to 10 receivers in 2 groups (1	-5/6-10)



			Ref. No. Insert	Ref. No. Cover		Po	wer		Ligh	ting		
	Description	Colour			Frame	Min	Max	incandescent and 230V halogen lamps	low voltage halogen lamps with conventional transformer	low voltage halogen lamps with electronic transformer	fluorescent lamps with electronic ballasts	Remark
	Rotary dimmer	white silver		AC412 AC412-S		25W	600W	~	√ ⁽¹⁾			Short circuit protection Ambience temperature: -5-+40°C Base in box: 31.3mm
	Rotary dimmer	white silver	2247 U-500	6540-84-101 6540-83-101	AC503 AC503-S	20W/VA	500W/VA	~	V ⁽¹⁾			Provided with terminal for net disconnection devices
	Rotary dimmer	white silver	6513 U-102-500	6540-84-101 6540-83-101		40W/VA	420W/VA	V		✓ ⁽²⁾		Provided with terminal for net disconnection devices, short-circuit protected, overload-protected
	Rotary dimmer	white silver	6591 U-101-500	6540-84-101 6540-83-101	AC503 AC503-S	60W/VA	420W/VA	~	V ⁽¹⁾	V ⁽²⁾		Provided with terminal for net disconnection devices
	Rotary dimmer slave		6592 U-500	6540-84-101 6540-83-101								A maximum of 5 multi-way extensions can be connected to a 6591u-101-501
	Rotary dimmer	white silver	2112 U-101-500	6540-84-101 6540-83-101	AC503 AC503-S		700W/VA				~	Control current max. 50mA DC
_	Touch-type dimmer	white silver	6593 U-500	6543-84-101 6543-83-101		60W/VA	420W/VA	~	✓ ⁽¹⁾	√ ⁽²⁾		Short-circuit protected, overload-protected
	Touch-type dimmer	white silver	6550 U-101-500	6543-84-101 6543-83-101	AC503 AC503-S		700W/VA				V	Control current max. 50mA DC operation also possible via conventional push buttons
+	Dimmer 2 gang	white silver	6565 U-500	6545-84 6545-83	AC503 AC503-S	40W/VA	315W/VA	V		✓ ⁽²⁾		Short-circuit protected, overload-protected
	Touch-type dimmer with IR	white silver	6593 U-500	6066-84 6066-83	AC503 AC503-S	60W/VA	420W/VA	V	V ⁽¹⁾	V ⁽²⁾		Manual/remote control
	Touch-type dimmer with IR	white silver	6550 U-101-500	6066-84 6066-83	AC503 AC503-S		700W/VA				V	Manual/remote control Control current max. 50mA DC
75	Universal master dimmer		6583-500			60W/VA	500W/VA	V	✓ ⁽¹⁾	✓ ⁽²⁾		Can combine with 6584-500 to extend power up to 3000W, short-circuit protected, overload-protected, operation also possible via conventional push buttons
	Universal master dimmer capacity booster		6584-500			200W/VA	420W/VA	V	✓ ⁽¹⁾	✓ ⁽²⁾		Combine with 6583-500, short-circuit protected, overload-protected
Part I I	Multi channel dimmer 4X2A		6197/50-515			60W/VA	460W/VA	V	✓ ⁽¹⁾	V ⁽²⁾		Please check manual to select transformer
	Multi channel dimmer 8X1A		6197/51-515			60W/VA	230W/VA	V	✓ ⁽¹⁾	✓ ⁽²⁾		Please check manual to select transformer
H. PG	Electronic transformer		6576-70-515			20W/VA	70W/VA					Can be connected with 6197/50-515 and 6197/51-515
Second 70	Electronic transformer		6576-105-515			35W/VA	105W/VA					Can be connected with 6197/50-515 and 6197/51-515

- 1) In the case of conventional transformers, take ~20% transformer loss into account. 2) In case of electronic transformers, 5% transformer losses.





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