



Main Catalogue

Switches and Sockets

concept bs range

Power and productivity
for a better world™





€ ABB Group

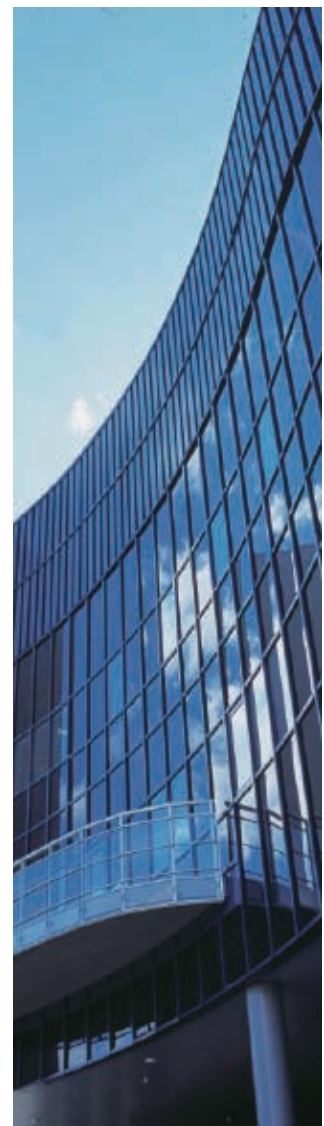
ABB (www.abb.com) is a leader in power and automation technologies that enable utility and industry customers to improve performance while lowering environmental impacts. The ABB Group has about 117,000 employees in more than 100 countries with revenues around \$32 billion in 2009.

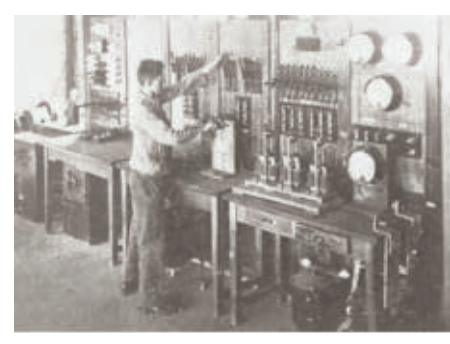
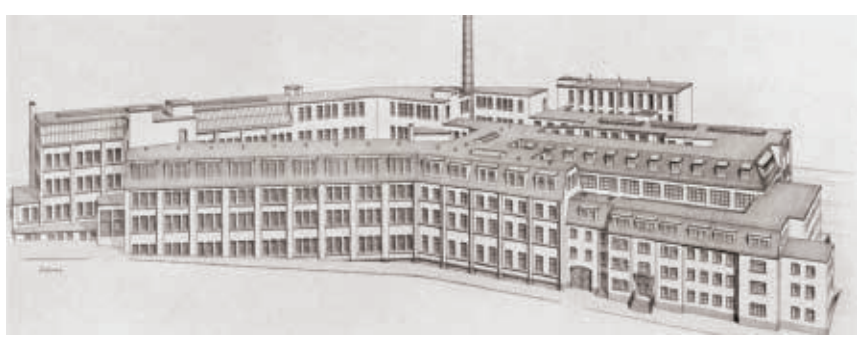
€ ABB Electrical Wiring Accessories (EWA)

ABB first started EWA production and development in Germany over 130 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**





€ Concept in every detail

For over 130 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 poly carbonate material with improved flame-retardant characteristics is used, which is flexible and will not deform or change colour 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.



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 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 thermostat 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 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.



Thin design, easy installation

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



Guarantee

We have pleasure to inform our policy on warranty of ABB *concept bs* series Electrical Wiring Accessories as below:

- > 10 years for mechanical switches and socket outlets
- > 1 year for electronic devices

concept in every detail



€ Features of *concept bs*



Wide variety of socket outlets

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



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", "Please Clean 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.



More options, less time to install, compatible with EIB / KNX range

Modular design cuts the time and cost of installation, fixtures are placed onto the grid structure and simply clicked into place.

Choice of single, dual, triple and quadruple frame options in different color. More options with EIB / KNX and ABB Busch-Jaeger EWA.

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 combination switch

One contact is attached to a time delay switch with a range from 10 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.



AC417/AC420 thermostat controller

- same style and colour, flush-mounted like the switches
- available in 2-pipe or 4-pipe version
- ultra-big LCD screen with blue background
- automatic temperature and fan speed adjustment to reduce energy
- additional contact to switch on/off e.g. via the card switch or via i-bus KNX system.



AC401 Shaver socket outlet



AC321 Telephone outlet, RJ11, 4-pole UTP



AC102 2 gang 1 way switch



AC402 Card switch



AC403 Doorbell switch

The doorbell switch can be customized with "Do Not Disturb", "Please Clean Room", "Please Wait" markings and indicators.



AC229 BS switched socket outlet with neon



AC230

2 gang BS single pole switched socket outlet with neon



AC102

2 gang 1 way switch



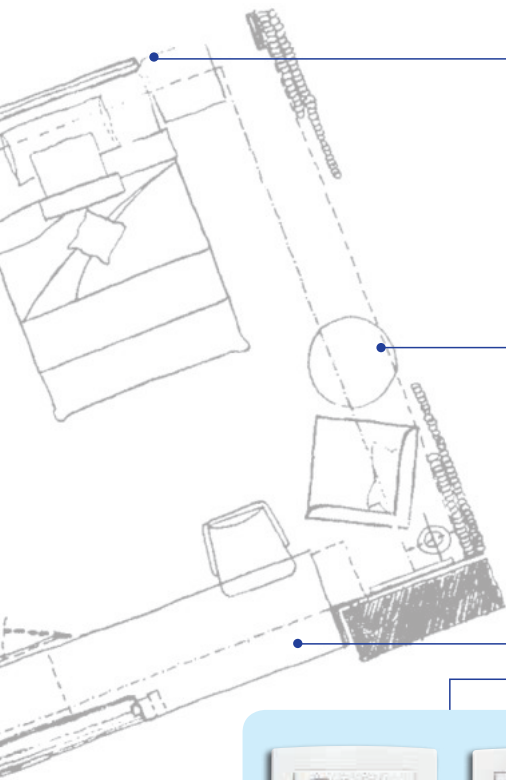
AC101

1 gang 1 way switch



AC323

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



AC230

2 gang BS single pole switched socket outlet with neon



AC301

1 gang TV outlet, dead-end feeder



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.



AC5201(AC101+AC229)

2 gang frame concept bs



AC102

2 gang 1 way switch

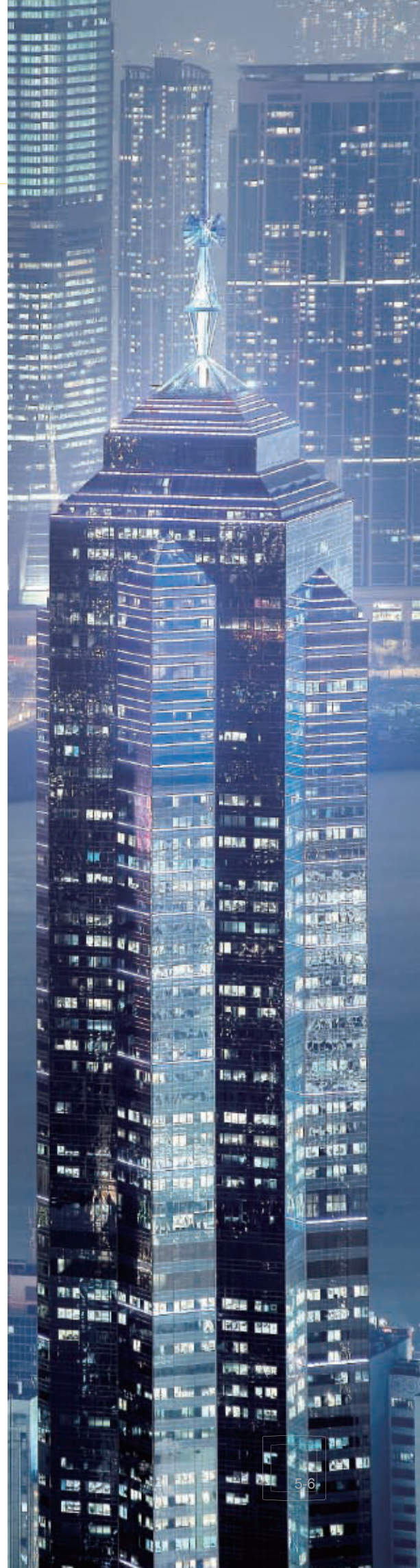













ABB Switches

Type	Colour	Description	Rated current	Type	Colour	Description	Rated current
 AC101	white	1 gang 1 way switch	10AX	 AC103	white	3 gang 1 way switch	10AX
AC101-S	silver			AC103-S	silver		
 AC105	white	1 gang 2 way switch	10AX	 AC107	white	3 gang 2 way switch	10AX
AC105-S	silver			AC107-S	silver		
AC119	white	Intermediate switch	10AX	AC116	white	3 gang 1 way switch	16AX
AC119-S	silver			AC116-S	silver		
AC110	white	1 gang 1 way switch	20AX	AC121	white	3 gang 2 way switch	16AX
AC110-S	silver			AC121-S	silver		
AC112	white	1 gang 2 way switch	20AX	 AC104	white	4 gang 1 way switch	10AX
AC112-S	silver			AC104-S	silver		
AC111	white	1 gang 1 way double pole switch, with marking "On"	20AX	 AC108	white	4 gang 2 way switch	10AX
AC111-S	silver			AC108-S	silver		
AC134	white	Fan isolator 3 pole	10A	AC117	white	4 gang 1 way switch	16AX
AC134-S	silver			AC117-S	silver		
AC430	white	1 gang 1 way push switch	10A	 AC109	white	Pull cord switch	10AX
AC430-S	silver						
 AC102	white	2 gang 1 way switch	10AX	 AC128	white	3 gang 1 way switch	10AX
AC102-S	silver			AC128-S	silver	(146 type)	
 AC106	white	2 gang 2 way switch	10AX	AC190	white	3 gang 2 way switch	10AX
AC106-S	silver			AC190-S	silver	(146 type)	
AC114	white	2 gang 1 way switch	20AX	AC192	white	3 gang 1 way switch	20AX
AC114-S	silver			AC192-S	silver	(146 type)	
AC115	white	2 gang 2 way switch	20AX	AC194	white	3 gang 2 way switch	20AX
AC115-S	silver			AC194-S	silver	(146 type)	
AC113	white	2 gang 1 way double pole switch, with marking "On"	20AX	 AC129	white	4 gang 1 way switch	10AX
AC113-S	silver			AC129-S	silver	(146 type)	
AC438	white	2 gang 1 way push switch	10A	AC191	white	4 gang 2 way switch	10AX
AC438-S	silver			AC191-S	silver	(146 type)	
				AC193	white	4 gang 1 way switch	20AX
				AC193-S	silver	(146 type)	
				AC195	white	4 gang 2 way switch	20AX
				AC195-S	silver	(146 type)	
















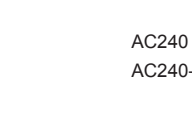




































	Type	Colour	Description	Rated current		Type	Colour	Description	Rated current
	AC161	white	1 gang 1 way switch with LED/decorative line	10AX		AC429	white	Push switch with "bell" symbol	10A
	AC161-S	silver				AC429-S	silver		
	AC164	white	1 gang 2 way switch with LED/decorative line	10AX					
	AC164-S	silver							
	AC170	white	1 gang 1 way switch with LED/decorative line	20AX		AC176	white	1 gang 1 way double pole switch with LED	32A
	AC170-S	silver				AC176-S	silver		
	AC172	white	1 gang 2 way switch with LED/decorative line	20AX					
	AC172-S	silver							
	AC171	white	1 gang 1 way double pole switch with LED/decorative line and marking "On"	20AX		AC177	white	1 gang 1 way double pole switch with LED	45A
	AC171-S	silver				AC177-S	silver		
	AC171WH	white	1 gang 1 way double pole switch with LED/decorative line and marking "On" and "water heater"	20AX					
	AC171WH-S	silver				AC118	white	45A double pole switch with neon and 13A switched socket outlet with neon	45A-13A
						AC118-S	silver		
	AC162	white	2 gang 1 way switch with LED/decorative line	10AX					
	AC162-S	silver							
	AC165	white	2 gang 2 way switch with LED/decorative line	10AX		AC120	white	1 gang 1way double pole switch,with marking "On", with flex outlet	20AX
	AC165-S	silver				AC120-S	silver		
	AC173	white	2 gang 1 way switch with LED/decorative line	20AX					
	AC173-S	silver							
	AC174	white	2 gang 2 way switch with LED/decorative line	20AX		AC120WH	white	1 gang 1way double pole switch, with marking "On", "water heater", with flex outlet	20AX
	AC174-S	silver				AC120WH-S	silver		
	AC178	white	2 gang 1 way double pole switch with LED/decorative line and marking "On"	20AX					
	AC178-S	silver							
	AC163	white	3 gang 1 way switch with LED/decorative line	10AX		AC506	white	Fused connection unit	13A
	AC163-S	silver				AC506-S	silver		
	AC166	white	3 gang 2 way switch with LED/decorative line	10AX		AC507	white	Switched fused connection unit with neon	13A
	AC166-S	silver				AC507-S	silver		
	AC175	white	3 gang 2 way switch with LED/decorative line	16AX					
	AC175-S	silver							

ABB Socket outlets

Type	Colour	Description	Rated current	Type	Colour	Description	Rated current		
	AC208 AC208-S	white silver	BS socket outlet	13A		AC230 AC230-S	white silver	2 gang BS single pole switched socket outlet with neon	13A
	AC224 AC224-S	white silver	BS single pole switched socket outlet	13A		AC240 AC240-S	white silver	2 gang BS double pole switched socket outlet with neon	13A
	AC237 AC237-S	white silver	BS double pole switched socket outlet	13A		AC212 AC212-S	white silver	2 gang Euro-American socket outlet	10A
	AC229 AC229-S	white silver	BS single pole switched socket outlet with neon	13A		AC222 AC222-S	white silver	2 gang Euro-American switched socket outlet	10A
	AC238 AC238-S	white silver	BS double pole switched socket outlet with neon	13A		AC234 AC234-S	white silver	2 gang Euro-American switched socket outlet with neon	10A
	AC209 AC209-S	white silver	BS single pole round pin switched socket outlet	15A		AC290 AC290-S	white silver	Universal socket outlet with surge protection	13A *
	AC231 AC231-S	white silver	BS single pole round pin switched socket outlet with neon	15A		AC291 AC291-S	white silver	Universal socket outlet	13A *
	AC210 AC210-S	white silver	BS round pin socket outlet	5A		AC292 AC292-S	white silver	Universal socket outlet with voltage indicator (127V: green / 230V: red)	13A *
	AC220 AC220-S	white silver	BS single pole round pin switched socket outlet	5A		AC293 AC293-S	white silver	Universal socket outlet with USB supply	13A *
	AC221 AC221-S	white silver	BS double pole round pin switched socket outlet	5A					
	AC227 AC227-S	white silver	2 gang BS single pole switched socket outlet	13A					
	AC239 AC239-S	white silver	2 gang BS double pole switched socket outlet	13A					

* can not be used in UK market

Type	Colour	Description	Type	Colour	Description
 AC321	white	1 gang telephone outlet, RJ11, 4-pole UTP	 AC301	white	1 gang TV outlet, dead-end feeder
AC321-S	silver		AC301-S	silver	
 AC322	white	2 gang telephone outlet, RJ11, 4-pole UTP	 AC304	white	1 gang TV outlet, loop-through, isolated
AC322-S	silver		AC304-S	silver	
 AC326	white	1 gang telephone outlet with surge protection UTP	 AC303	white	Sat outlet, F-type dead-end-feeder, isolated
AC326-S	silver		AC303-S	silver	
 AC331	white	1 gang computer outlet, RJ45, cat. 5e, 8-pole UTP	 AC307	white	TV outlet connector, F-type
AC331-S	silver		AC307-S	silver	
 AC333	white	1 gang computer outlet, RJ45, cat. 6, 8-pole UTP	 AC312	white	TV & FM outlet, F-type dead-end-feeder, isolated
AC333-S	silver		AC312-S	silver	
 AC332	white	2 gang computer outlet, RJ45, cat. 5e, 8-pole UTP	 AC302	white	2 gang TV outlet, twin isolated, loop-through, isolated
AC332-S	silver		AC302-S	silver	
 AC329	white	2 gang computer outlet, RJ45, cat.6, 8-pole UTP	 AC324	white	TV & telephone outlet, UTP
AC329-S	silver		AC324-S	silver	
 AC323	white	2 gang telephone outlet RJ11, 4-pole & computer outlet RJ45, cat. 5e, 8-pole UTP	 AC341	white	Audio outlet, 2 terminals
AC323-S	silver		AC341-S	silver	
 AC330	white	2 gang telephone outlet RJ11, 4-pole & computer outlet RJ45, cat. 6, 8-pole UTP	 AC342	white	Audio outlet, 4 terminals
AC330-S	silver		AC342-S	silver	
 AC305	white	1 gang telephone outlet, BT master, RJ11, 6-pole UTP			
AC305-S	silver				
 AC306	white	1 gang telephone outlet, BT second, RJ11, 6-pole UTP			
AC306-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.

ABB Hotel series



















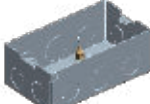
Type	Colour	Description	Rated current
 AC402 AC402-S	white silver	Card switch * Suitable for several loads, time delay: 30±5s	20A
 AC403-001 AC403-S01	white silver	Bell push-switch "Do Not Disturb" marking and indicator 	10A
 AC403-002 AC403-S02	white silver	Bell push-switch "Do Not Disturb" & "Please Clean Room" marking and indicator 	10A
 AC403 AC403-S	white silver	Bell push-switch "Do Not Disturb", & "Please Clean Room" & "Please Wait" marking and indicator 	10A
 AC401 AC401-S	white silver	Shaver socket outlet	
 AC406 AC406-S	white silver	Night light 5-10W, 230V~	
		Further hotel products with additional markings and indicators are available upon special request	

ABB Accessories

Type	Colour	Description
 AC504 AC504-S	white silver	1 gang blank plate
 AC505 AC505-S	white silver	2 gang blank plate
 AC503 AC503-S	white silver	1 gang adapter plate for Busch-Jaeger solo / future / carat / pure series (64mm × 64mm)
 AC5101 AC5101-S AC5101-C	white silver chrome	1 gang frame <i>concept bs</i>
 AC5201 AC5201-S AC5201-C	white silver chrome	2 gang frame <i>concept bs</i> for dual gang box (screw hole distance: 26mm)
 AC5103 AC5103-S AC5103-C	white silver chrome	3 gang frame <i>concept bs</i> (screw hole distance: 26mm)
 AC5104 AC5104-S AC5104-C	white silver chrome	4 gang frame <i>concept bs</i> (screw hole distance: 26mm)
 AC541		3.5mm hole height of the box: 50mm depth of the box: 48.8mm thickness of the box: 1.2mm external dimension(mm): 1G: 73×73×50 2G: 133×73×50 material: Q235 (Cold Rolled Steel Sheel) screw hole distance: 26mm
 AC542		2 gang wall box

Special color & special printing



* Mix and match for added versatility, For more information, please check with ABB local distributor

**concept in
every detail**

ABB Function control switches










	Type	Colour	Description	Technical data
	AC417	white	Thermostat controller with display, 2 pipe system	Rated power: 220W Sensor: NTC Temperature setting: 5°C-35°C
	AC417-S	silver		
	AC420	white	Thermostat controller with display, 4 pipe system	
	AC420-S	silver		
	AC411	white	Countdown timer & 1 gang 1 way combination switch	10AX, 250V~ Time setting: 10-120min Two separate switching contacts
	AC411-S	silver		
	AC414	white	Touch type time delay switch	100W, 230V~ Time delay: 1-3min adjustable Short-circuit protection
	AC414-S	silver		
	AC415	white	Sound and light control switch	100W, 230V~ Time delay: 1-3min adjustable Sound threshold: 60±5dB Brightness threshold: 0-150Lux adjustable Short-circuit protection
	AC415-S	silver		
	AC416	white	Volume control switch	5-15W, (0-100)V~ With fire alarm terminal
	AC416-S	silver		
	AC413	white	4 step rotary switch	300W, 230V~ With high, mid, low fan speed selection
	AC413-S	silver		
	AC422	white	Fan Controller	500VA, 250V~, 50Hz
	AC422-S	silver		
	AC419	white	Emergency switch	6A, 230V~ Sending alarm signal manually, using key to release
	AC419-S	silver		

ABB Floor sockets

Type	Material	Description	Type	Material	Description
	AC537	brass		AC536	brass
	AC537-S	aluminium		AC536-S	aluminium
	AC538	brass			
	AC538-S	aluminium			2 gang computer floor outlet, RJ45 cat. 5e, 8-pole
	AC527	brass		AC523	brass
	AC527-S	aluminium		AC523-S	aluminium

ABB Function control switches

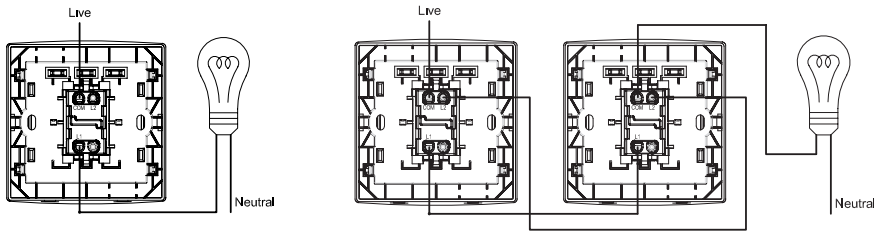
	Description	Colour	Ref. No. Insert	Ref. No. Cover	Adapter plate	Technical data
	Busch Watchdog 220 Professional Line (add: incl. Remote Control)	white	6845 AGM-204-500			Rated power: 3680W/VA, 16AX Mounting type: surface-mounted Aperture angle: 220° Protection class (Device): IP55 Mounting height: 2.5m Detection range: frontal: 16m, lateral: 16m Dimensions: (L x W x D): 97mm x 97mm x 159mm
	Busch Watchdog 90 Professional Line	white	6853 AGM-204-500			Rated power: 3680W/VA, 16AX Mounting type: surface-mounted Aperture angle: 90° Protection class (Device): IP55 Mounting height: 2.5m Detection range: frontal: 12m, lateral: 6m Dimensions: (L x W x D): 97mm x 97mm x 159mm
	Presence tech master	white	6401 U-102-500	6813-101-500		Rated power: 2300W/VA, 10AX Suitable for: 230V incandescent lamps, 230V halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformer
	Presence tech slave	white	6805 U-500	6813-101-500		Rated power: 2300W/VA, To be connected with master
	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 Multi-way input terminals (Up/Down) Running time: 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 time: 3min Connection with brightness sensor 6414-500
	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) Running time: 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 time: 3min Connection 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 halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformer
	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 halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformer
	Memory timer	white silver	6457+6418 U	1773 JA-84 1773 JA-83	AC503 AC503-S	Rated power: 690VA, 3A Manual or automatic operation Outputs: 2 normally open contact Commands in a 24-hour rhythm Running time: 3min
	Luminosity sensor	white	6414-500			For combination with 6411 U/S-500-101 shutter control switches, with 2m connecting cable. Measuring range: 15-50, 000Lux
	IR remote	white	6010-25-500			Detection range: frontal: 15m For controlling up to 10 receivers in 2 groups (1-5/6-10)



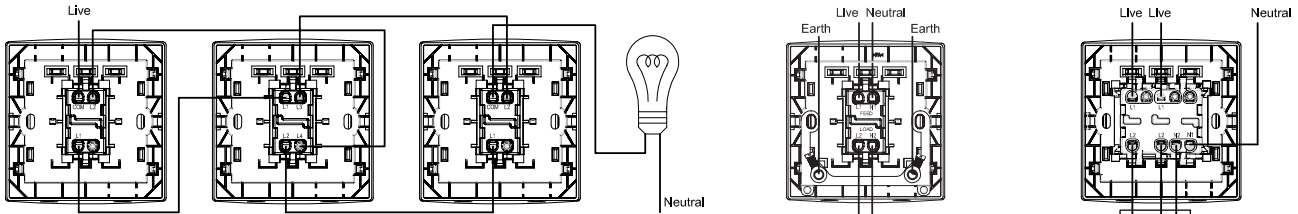
Description	Colour	Ref. No. Insert	Ref. No. Cover	Adapter plate	Power		Lighting				Remark
					Min	Max	incandescent and 230V halogen lamps	low voltage halogen lamps with conventional transformer	low voltage halogen lamps with electronic transformer	fluorescent lamps with electronic ballasts	
Rotary dimmer	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	✓	✓ ⁽¹⁾			Provided with terminal for net disconnection devices
Rotary dimmer	white silver	6513 U-102-500	6540-84-101 6540-83-101	AC503 AC503-S	40W/VA	420W/VA	✓		✓ ⁽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	✓	✓ ⁽¹⁾	✓ ⁽²⁾		Provided with terminal for net disconnection devices
Rotary dimmer slave		6592 U-500	6540-84-101 6540-83-101	AC503 AC503-S							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	AC503 AC503-S	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				✓	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	✓		✓ ⁽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	✓	✓ ⁽¹⁾	✓ ⁽²⁾		Manual/remote control
Touch-type dimmer with IR	white silver	6550 U-101-500	6066-84 6066-83	AC503 AC503-S		700W/VA				✓	Manual/remote control Control current max. 50mA DC
Universal master dimmer		6583-500			60W/VA	500W/VA	✓	✓ ⁽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	✓	✓ ⁽¹⁾	✓ ⁽²⁾		Combine with 6583-500, short-circuit protected, overload-protected

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

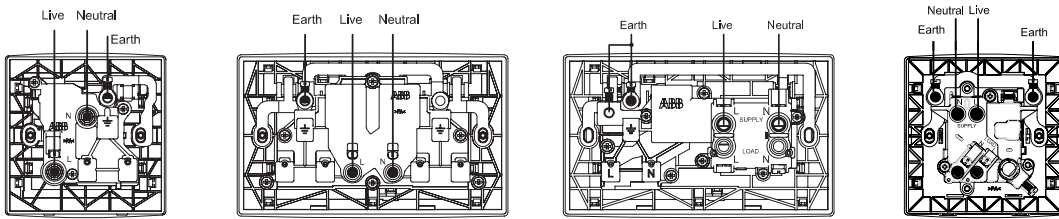
Circuit connection diagrams



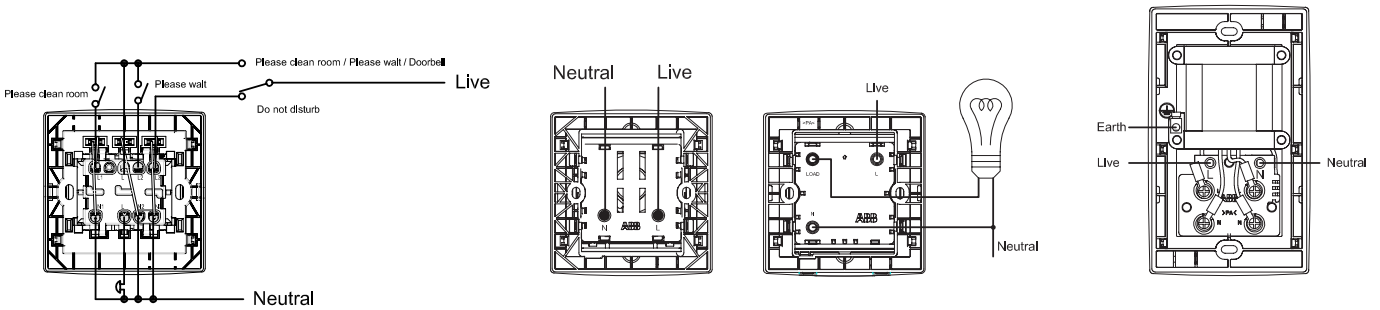
1 gang 1 way switch 1 gang 2 way switch 1 gang 2 way switch



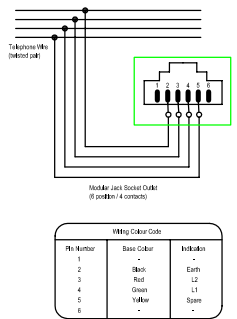
1 gang 2 way switch intermediate switch 1 gang 2 way switch Double-pole 1 way switch Fan isolator switch



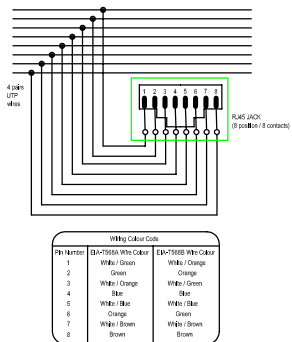
1 gang BS socket outlet 2 gang BS socket outlet 45A DP Switch and 13A Switched Socket Outlet with Neon Fused Connection Unit



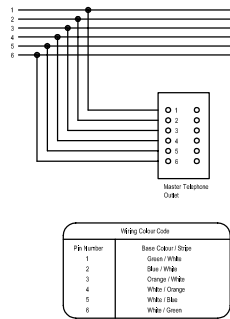
Bell push-switch with marking and indicator Night Light Card Switch Shavers Socket Outlet



Telephone Outlet - RJ11

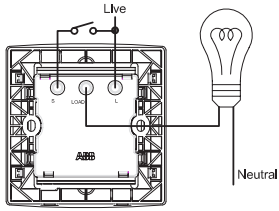


Computer outlet - RJ45

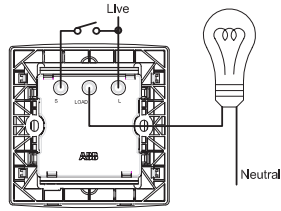


Telephone Outlet - BT

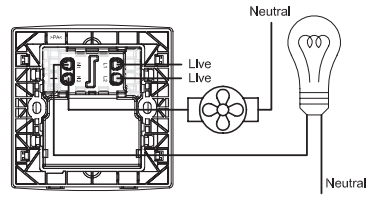
Circuit connection diagrams



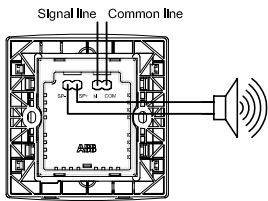
Touch type time delay switch



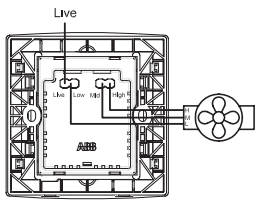
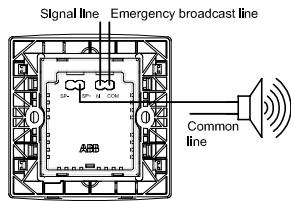
Sound and light control switch



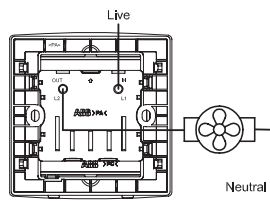
Countdown time switch,
1 gang 1 way



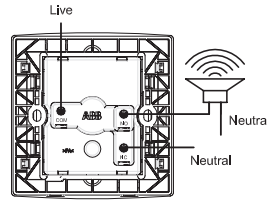
Volume control switch



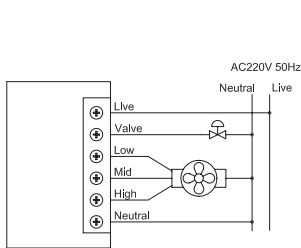
4 step rotary switch



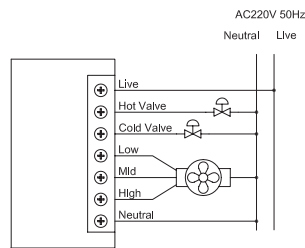
Fan Controller



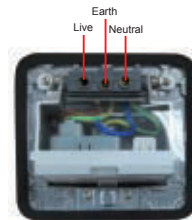
Emergency switch



Thermostat controller with display,
2 pipe system

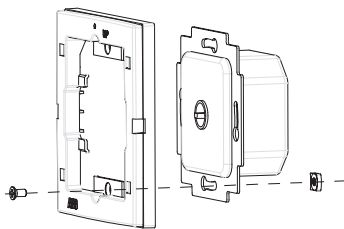


Thermostat controller with display,
4 pipe system

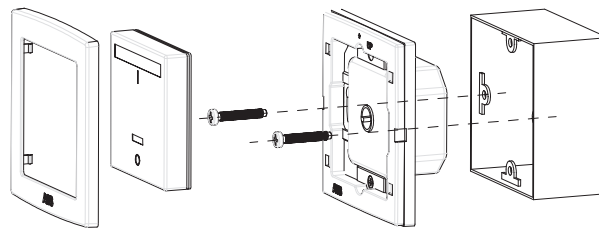


1 gang BS single pole
floor socket outlet

The usage of AC503 (adapter plate)



step 1



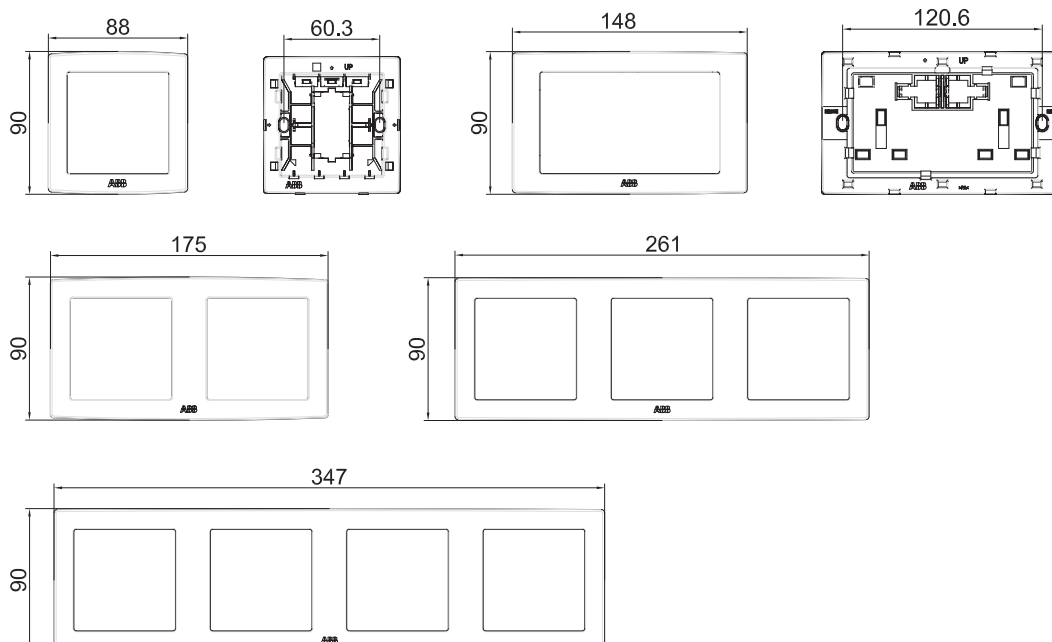
step 2

International standard

Product description	Standard	Description
Switches	BS EN 60669-1/IEC 60669-1/SS 227/MS IEC 60669-1	Switches for household and similar fixed electrical installation
Fan isolator 3 pole	IEC 60947-1/IEC 60947-3 BS EN 60947-1/BS EN 60647-3	Low-voltage switchgear and controlgear-Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units
Fused connection unit, cord outlet	BS 1363-4	Specification for 13A fused connection units switched and unswitched
32A/45A double pole switches	IEC 60669-1	Switches for household and similar fixed electrical installation
45A Cooker control unit	BS 4177	Cooker control unit
13A socket outlets	BS 1363-2/MS 589-2/SS 145	13A switched and unswitched socket outlets
15A socket outlets	BS 546/SS 472/MS 1577	Two-pole and earthing-pin plugs, socket outlets and socket-outlet adaptors
5A socket outlets	BS 546	Two-pole and earthing-pin plugs, socket outlets and socket-outlet adaptors
Euro-American socket outlets	IEC 60884/BS 5733	Plugs and socket outlets for Household and Similar Purposes
Universal socket outlets	BS 5733/IEC 60884/IEC 61643-1	Plugs and socket outlets for Household and Similar Purposes
Telephone outlet RJ11, 4-pole	TIA/EIA 568-A,568-B	Commercial building telecommunications cabling standard-Part2: Balanced twisted pair cabling components
BS Telephone outlet, 6-pole	BS 6312-2-1/BS 6312-2-2.2	Connectors for analogue telecommunication interfaces
Computer outlet, RJ45, 8-pole	TIA/EIA 568-A,568-B	Commercial building telecommunications cabling standard-Part2: Balanced twisted pair cabling components
TV outlet	BS 3041-2/IEC 60169-2	Radio-frequency connectors. Specification for coaxial unmatched connector
Shaver Unit	IEC 61558-1/IEC61558-2-5	Safety of power transformers, power supply units and similar-Part 2-5: particular requirement for shaver transformers and shaver supply units
Electronic Switches	IEC 60669-2-1	Switches for household and similar fixed electrical installations-Part 2-1: Particular requirements-Electronic switches
Night light	IEC 60598-1/IEC 60598-2-1	Luminaires-Part2-1:Particular requirements-fixed general purpose Luminaires
Thermostat Controller	IEC 60730-1/IEC 60730-2-9	Automatic electrical controls for household and similar use-Part 2-9: Particular requirements for temperature sensing controls
Frames and plates	BS 5733/MS 1144	Specification for general requirements for electrical accessories

Dimensions of *concept bs*

Unit: mm



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