



Main Catalogue

The maximum comfort in everyday life

Concept bs range

Power and productivity
for a better world™

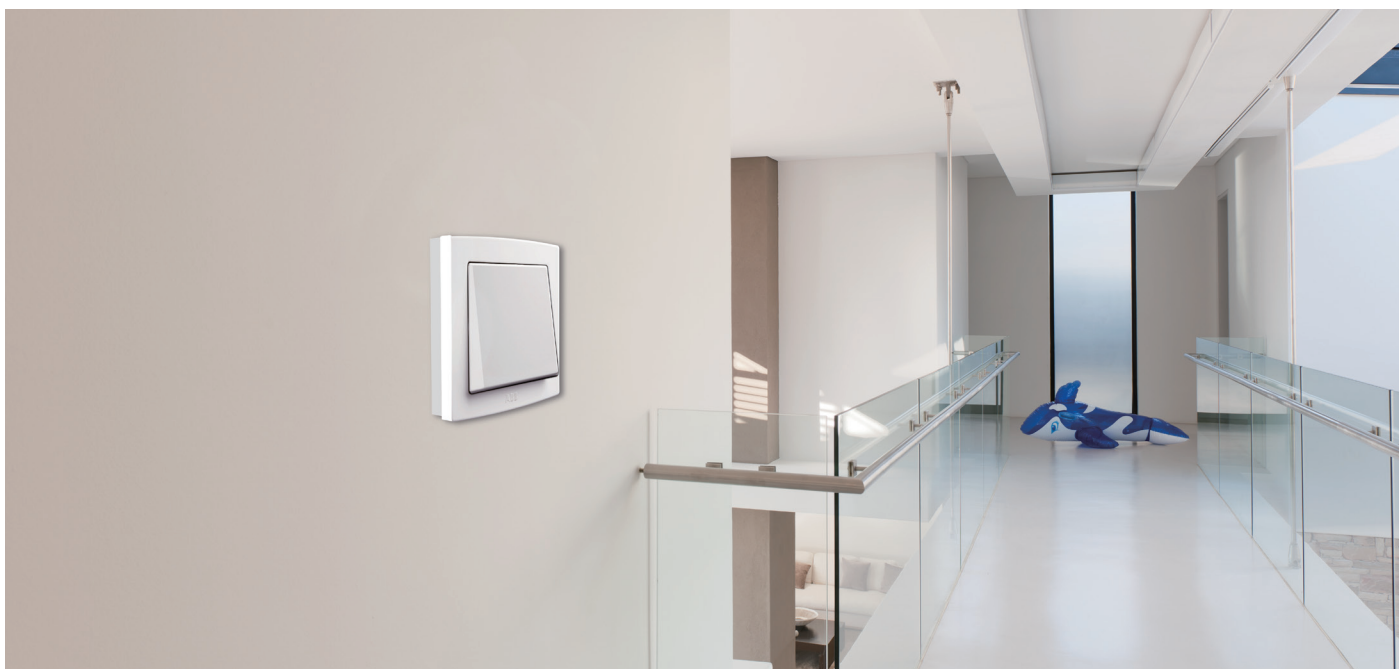


Create an atmosphere of comfort and well-being. The combination of quality, functionality, and elegance makes it the ideal choice for any kind of building.





Timeless design in modern colours

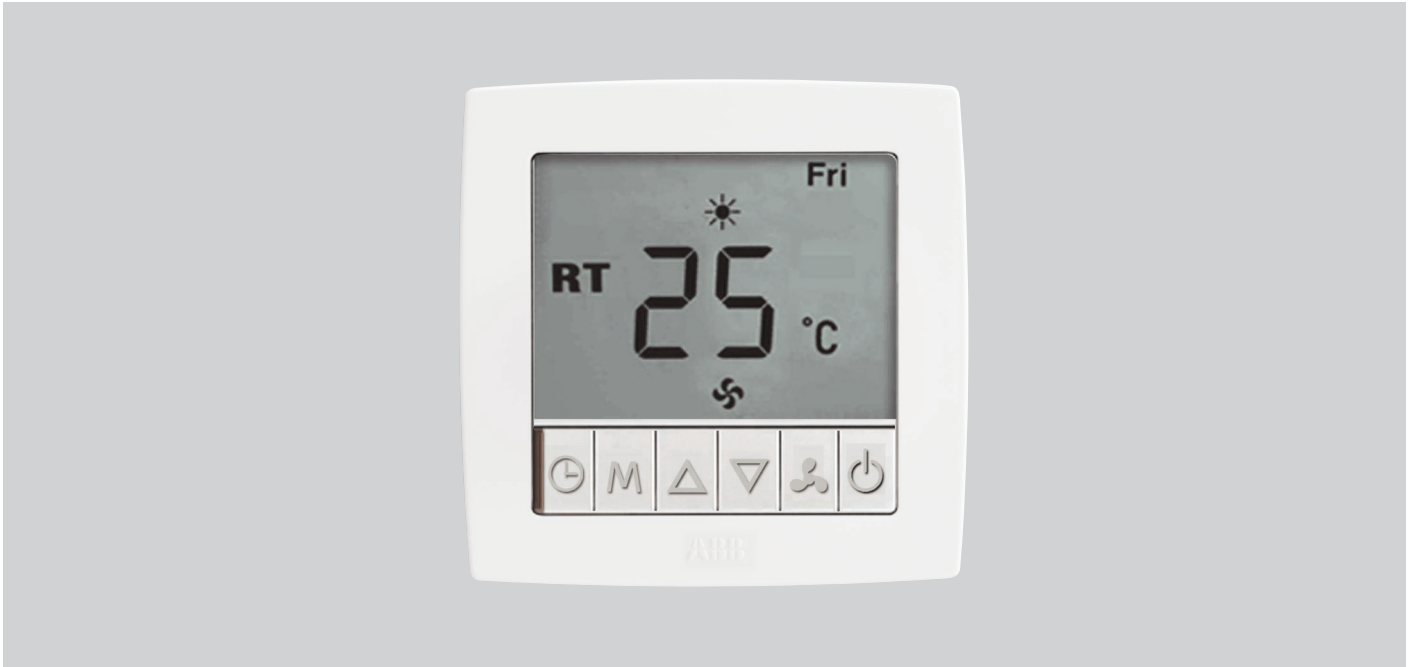


Its unique design makes it the perfect range to meet your desired look and feel of switches and sockets with profound technology and comprehensive functionality. A wide colour variety makes it always a perfect fit to the room decor, and sets an elegant accent to the overall look. Because elegance lies in the detail.



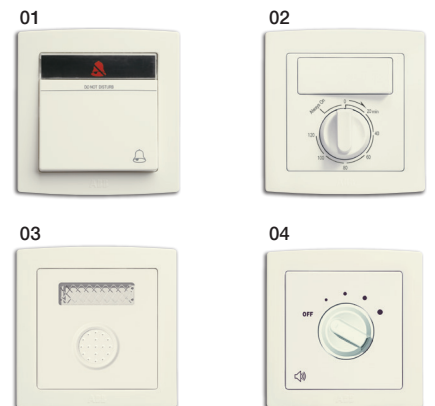
- 01 Silver -S
- 02 Anthracite -81
- 03 Ivory white -82
- 04 Pearl gold -PG
- 05 Stainless steel -866
- 06 Elegant grey -G

Modern lifestyle redefined When expertise becomes touchable



In the 21st century electrical installations consist of more than switches and sockets. Continuous innovation is one major reason for ABB's success in this business, its over 130 years of experience another.

- 01 DND door bell switch
- 02 2 way Time countdown switch
- 03 Sound and light control switch
- 04 Volume control switch



Applications



Home

With its unique design – its square rocker combined with a slight curve on the top and bottom – Concept bs can be combined with any architectural style, and thus helps to turn a house into a home.



Hotels

The Concept bs assortment fulfills the high expectations of owners and guests in all main areas such as guest rooms, restaurants, meeting rooms, and lobbies. With its room thermostat, and its variety of function control products, it even helps to save energy and protect the environment.



Commercials

Concept bs is the right choice, for any project. Whether it is a restaurant, a bar, a shopping mall, or an office building, one can be sure that this switch range will increase the aesthetical appraisal of the room, decrease the energy costs, and thus the impact on the environment.



Features and benefits



A concept behind every detail. The strengths of this switch range derive from numerous technical features, that convert technology into comfort.



Excellent material 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.



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.



Thin design, easy installation

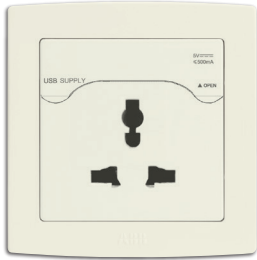
The thickness of the functional part is only 1.2cm, which allows more space inside the wallbox for wiring connections. In addition our products can also be installed in thinner walls.



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



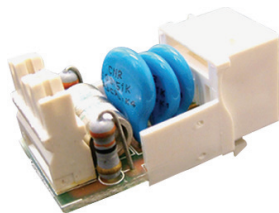
Wide variety of socket outlets

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.



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.



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.



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 KNX range

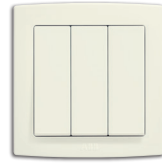
Modular design cuts the time and cost of installation, fixtures are placed onto the grid structure and simply clicked into place. Choice of single, dual, triple and quadruple frame options in different color. More options with KNX and ABB Busch-Jaeger wiring accessories.

Concept bs

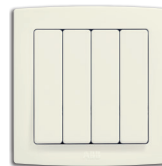
Switches



Type	Description	Technical data
AC101 AC101-S	1 gang 1 way switch	10AX
AC105 AC105-S	1 gang 2 way switch	10AX
AC119 AC119-S	Intermediate switch	10AX
AC110 AC110-S	1 gang 1 way switch	20AX
AC112 AC112-S	1 gang 2 way switch	20AX
AC111 AC111-S	1 gang 1 way double pole switch, with marking "On"	20AX
AC430 AC430-S	1 gang 1 way push switch	10A
AC196 AC196-S	1 gang 2 way double pole switch	20AX



Type	Description	Technical data
AC103 AC103-S	3 gang 1 way switch	10AX
AC107 AC107-S	3 gang 2 way switch	10AX
AC116 AC116-S	3 gang 1 way switch	16AX
AC121 AC121-S	3 gang 2 way switch	16AX



Type	Description	Technical data
AC104 AC104-S	4 gang 1 way switch	10AX
AC108 AC108-S	4 gang 2 way switch	10AX
AC117 AC117-S	4 gang 1 way switch	16AX



Type	Description	Technical data
AC134 AC134-S	Fan isolator 3 pole	10A



Type	Description	Technical data
AC128 AC128-S	3 gang 1 way switch (146 type)	10AX
AC190 AC190-S	3 gang 2 way switch (146 type)	10AX
AC192 AC192-S	3 gang 1 way switch (146 type)	20AX
AC194 AC194-S	3 gang 2 way switch (146 type)	20AX



Type	Description	Technical data
AC102 AC102-S	2 gang 1 way switch	10AX
AC106 AC106-S	2 gang 2 way switch	10AX
AC114 AC114-S	2 gang 1 way switch	20AX
AC115 AC115-S	2 gang 2 way switch	20AX
AC113 AC113-S	2 gang 1 way double pole switch, with marking "On"	20AX
AC438 AC438-S	2 gang 1 way push switch	10A



Type	Description	Technical data
AC129 AC129-S	4 gang 1 way switch (146 type)	10AX
AC191 AC191-S	4 gang 2 way switch (146 type)	10AX
AC193 AC193-S	4 gang 1 way switch (146 type)	20AX
AC195 AC195-S	4 gang 2 way switch (146 type)	20AX

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Switches



Type	Description	Technical data
AC161 AC161-S	1 gang 1 way switch with LED/decorative line	10AX
AC164 AC164-S	1 gang 2 way switch with LED/decorative line	10AX
AC170 AC170-S	1 gang 1 way switch with LED/decorative line	20AX
AC172 AC172-S	1 gang 2 way switch with LED/decorative line	20AX
AC171 AC171-S	1 gang 1 way double pole switch with LED/decorative line and marking "On"	20AX



Type	Description	Technical data
AC171WH AC171WH-S	1 gang 1 way double pole switch with LED/decorative line and marking "On" and "water heater"	20AX



Type	Description	Technical data
AC162 AC162-S	2 gang 1 way switch with LED/decorative line	10AX
AC165 AC165-S	2 gang 2 way switch with LED/decorative line	10AX
AC173 AC173-S	2 gang 1 way switch with LED/decorative line	20AX
AC174 AC174-S	2 gang 2 way switch with LED/decorative line	20AX
AC178 AC178-S	2 gang 1 way double pole switch with LED/decorative line and marking "On"	20AX



Type	Description	Technical data
AC163 AC163-S	3 gang 1 way switch with LED/decorative line	10AX
AC166 AC166-S	3 gang 2 way switch with LED/decorative line	10AX
AC175 AC175-S	3 gang 2 way switch with LED/decorative line	16AX



Type	Description	Technical data
AC429 AC429-S	Push switch with "bell" symbol	10A



Type	Description	Technical data
AC176 AC176-S	1 gang 1 way double pole switch with LED	32A



Type	Description	Technical data
AC177 AC177-S	1 gang 1 way double pole switch with LED	45A



Type	Description	Technical data
AC118 AC118-S	45A double pole switch with neon and 13A switched socket outlet with neon	45A-13A



Type	Description	Technical data
AC120 AC120-S	1 gang 1way double pole switch, with marking "On", with flex outlet	20AX



Type	Description	Technical data
AC120WH AC120WH-S	1 gang 1way double pole switch,with marking "On", "water heater", with flex outlet	20AX



Type	Description	Technical data
AC506 AC506-S	Fused connection unit	13A



Type	Description	Technical data
AC577 AC577-S	Fused connection unit with neon	13A



Type	Description	Technical data
AC507 AC507-S	Switched fused connection unit with neon	13A

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Sockets



Type	Description	Technical data
AC208 AC208-S	BS socket outlet	13A



Type	Description	Technical data
AC224 AC224-S	BS single pole switched socket outlet	13A
AC237 AC237-S	BS double pole switched socket outlet	



Type	Description	Technical data
AC229 AC229-S	BS single pole switched socket outlet with neon	13A
AC238 AC238-S	BS double pole switched socket outlet with neon	



Type	Description	Technical data
AC209 AC209-S	BS single pole round pin switched socket outlet	15A



Type	Description	Technical data
AC231 AC231-S	BS single pole round pin switched socket outlet with neon	15A



Type	Description	Technical data
AC210 AC210-S	BS round pin socket outlet	5A



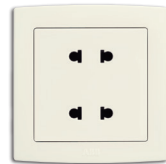
Type	Description	Technical data
AC296 AC296-001	Schuko socket Schuko socket without child protection	16A



Type	Description	Technical data
AC227 AC227-S	2 gang BS single pole switched socket outlet	13A
AC239 AC239-S	2 gang BS double pole switched socket outlet	



Type	Description	Technical data
AC230 AC230-S	2 gang BS single pole switched socket outlet with neon	13A
AC240 AC240-S	2 gang BS double pole switched socket outlet with neon	



Type	Description	Technical data
AC212 AC212-S	2 gang Euro-American socket outlet	10A



Type	Description	Technical data
AC222 AC222-S	2 gang Euro-American switched socket outlet	10A



Type	Description	Technical data
AC234 AC234-S	2 gang Euro-American switched socket outlet with neon	10A



Type	Description	Technical data
AC290 AC290-S	Universal socket outlet with surge protection	13A *



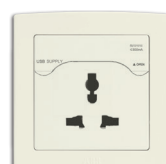
Type	Description	Technical data
AC291 AC291-S	Universal socket outlet	13A *



Type	Description	Technical data
AC294 AC294-S	Switched universal socket outlet	13A *




Type	Description	Technical data
AC292 AC292-S	Universal socket outlet with voltage indicator (127V: green / 230V: red)	13A *





Type	Description	Technical data
AC293 AC293-S	Universal socket outlet with USB supply (output: 5V±5%UC, ≤500mA)	13A *


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Telecommunications


	Type	Description	Technical data
AC321 AC321-S	1 gang telephone outlet, RJ11,	4-pole UTP	


	Type	Description	Technical data
AC322 AC322-S	2 gang telephone outlet, RJ11,	4-pole UTP	


	Type	Description	Technical data
AC326 AC326-S	1 gang telephone outlet	surge protection UTP	

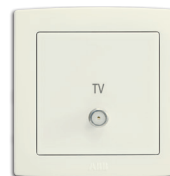
	Type	Description	Technical data
AC331 AC331-S	1 gang computer outlet, RJ45, cat. 5e	8-pole UTP	
AC333 AC333-S	1 gang computer outlet, RJ45, cat. 6		


	Type	Description	Technical data
AC332 AC332-S	2 gang computer outlet, RJ45, cat. 5e	8-pole UTP	
AC329 AC329-S	2 gang computer outlet, RJ45, cat.6		


	Type	Description	Technical data
AC323 AC323-S	2 gang telephone outlet RJ11, 4-pole & computer outlet RJ45, cat. 5e	8-pole UTP	
AC330 AC330-S	2 gang telephone outlet RJ11, 4-pole & computer outlet RJ45, cat. 6		


	Type	Description	Technical data
AC305 AC305-S	1 gang telephone outlet, BT master, RJ11	6-pole UTP	
AC306 AC306-S	1 gang telephone outlet, BT secondary, RJ11		


	Type	Description	Technical data
AC301 AC301-S	1 gang TV outlet	dead-end feeder	
AC304 AC304-S	1 gang TV outlet	loop-through, isolated	


	Type	Description	Technical data
AC303 AC303-S	Sat outlet	F-type dead-end-feeder, isolated	
AC307 AC307-S	TV outlet connector	F-type	

	Type	Description	Technical data
AC312 AC312-S	TV & FM outlet	F-type dead-end feeder, isolated	

	Type	Description	Technical data
AC302 AC302-S	2 gang TV outlet	twin isolated, loop-through, isolated	

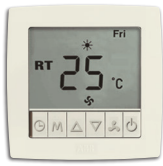
	Type	Description	Technical data
AC324 AC324-S	TV & telephone outlet	UTP	

	Type	Description	Technical data
AC341 AC341-S	Audio outlet	2 terminals	

	Type	Description	Technical data
AC342 AC342-S	Audio outlet	4 terminals	

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Function control switches



Type	Description	Technical data
AC417 AC417-S	Thermostat controller with display, 2 pipe system	Rated current: 1A Sensor: NTC Temperature setting: 5°C -35°C with sleeping, clock display and turn on/off function
AC420 AC420-S	Thermostat controller with display, 4 pipe system	3 inch LCD display Temperature adjustment: ±1°C Depth: 25.5mm



Type	Description	Technical data
AC424 AC424-S	Thermostat controller with display, 2 pipe system	Rated current: 1A Sensor: NTC Temperature setting: 5°C -35°C
AC425 AC425-S	Thermostat controller with display, 4 pipe system	2.5 inch LCD display Temperature adjustment: ±1°C Depth: 25.5mm



Type	Description	Technical data
AC414 AC414-S	Touch type time delay switch	100W, 230V~ Time delay: 1-3min adjustable Short-circuit protection



Type	Description	Technical data
AC415 AC415-S	Sound and light control switch	100W, 230V~ Time delay: 1-3min adjustable Sound threshold: 60±5dB Brightness threshold: 0-150Lux adjustable Short-circuit protection



Type	Description	Technical data
AC416 AC416-S	Volume control switch	5-15W, (0-100)V~ With fire alarm terminal
AC416-001 AC416-S01	Volume control switch	Max.5W, (0-100)V~ With fire alarm terminal low resistance, average 8 Ohm



Type	Description	Technical data
AC413 AC413-S	4 step rotary switch	300W, 230V~ With high, mid, low fan speed selection



Type	Description	Technical data
AC411 AC411-S	Countdown timer & 1 gang 1 way combination switch	10AX, 250V~ Time setting: 10-120min Two separate switching contacts



Type	Description	Technical data
AC422 AC422-S	Fan Controller	500VA, 250V~, 50Hz



Type	Description	Technical data
AC419 AC419-S	Emergency switch	6A, 230V~ Sending alarm signal manually, using key to release

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Hotel series



Type	Description	Technical data
AC402 AC402-S	Card switch * Suitable for several loads, time delay: 30±5s	20A



Type	Description	Technical data
AC403-001 AC403-S01	Bell push-switch "Do Not Disturb" marking and indicator	10A



Type	Description	Technical data
AC403-002 AC403-S02	Bell push-switch "Do Not Disturb" & "Please Clean Room" marking and indicator	10A



Type	Description	Technical data
AC403 AC403-S	Bell push-switch "Do Not Disturb", & "Please Clean Room" & "Please Wait" marking and indicator	10A



Type	Description	Technical data
AC401 AC401-S	Shaver socket outlet	input: 230V~, 50Hz/60Hz output: 115V/230V~, 20VA



Type	Description	Technical data
AC401-001 AC401-S01	Shaver socket outlet (horizontal)	input: 230V~, 50Hz/60Hz output: 115V/230V~, 20VA



Type	Description	Technical data
AC406 AC406-S	Night light	5W, 230V~

Accessories



Type	Description
AC504 AC504-S	1 gang blank plate



Type	Description
AC505 AC505-S	2 gang blank plate



Type	Description
AC503 AC503-S	1 gang adapter plate for Busch-Jaeger solo / future / carat / pure series (64mm x 64mm)



Type	Description
AC5101 AC5101-S AC5101-C	1 gang frame <i>concept bs</i>



Type	Description
AC5201 AC5201-S AC5201-C	2 gang frame <i>concept bs</i> for dual gang box (screw hole distance: 26mm)

AC5103 AC5103-S AC5103-C	3 gang frame <i>concept bs</i> (screw hole distance: 26mm)
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AC5104 AC5104-S AC5104-C	4 gang frame <i>concept bs</i> (screw hole distance: 26mm)
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AC5105 AC5105-S AC5105-C	5 gang frame <i>concept bs</i> (screw hole distance: 26mm)
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Concept bs

Dimmers

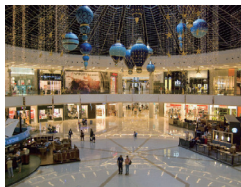


Description	Colour	Ref. No. Insert	Ref. No. Cover	Adapter plate	Power		Lighting				Remark
					Min	Max	incandescent and 230V halogen lamps	low voltage halogen lamps with conventional transformer	low voltage halogen lamps with electronic transformer	fluorescent lamps with electronic ballasts	
Rotary dimmer	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
Rotary dimmer LED		6523 U-500	6540-84-102 6540-83-102	AC503 AC503-S	2W/VA	100W/VA		✓ ⁽¹⁾	✓ ⁽²⁾		With rotary control, soft-catch and with leading edge control.
Rotary dimmer DALI		2117 U-500	6540-84-102 6540-83-102	AC503 AC503-S							DALI Power-potentiometer insert
Rotary dimmer DALI		2117/11 U-500	6540-84-102 6540-83-102	AC503 AC503-S							DALI Power-potentiometer insert With integrated power supply
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
Touch dimmer LED		6524 U-500	6066-84 6066-83	AC503 AC503-S	2W/VA	700W/VA		✓ ⁽¹⁾	✓ ⁽²⁾		For incandescent lamps, 230V tungsten halogen lamps and low-voltage

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



Infinity tower
UAE



Marina Mall hotel
UAE



Skyview tower
UAE



Liwa suite
Saudi Arabia



Fontana towers
Bahrain



Udaya Samudra beach hotel
India



Jayee hotel
India



Keangnam tower
Vietnam



Oasis hotel
Singapore



Perdana Residence
Malaysia

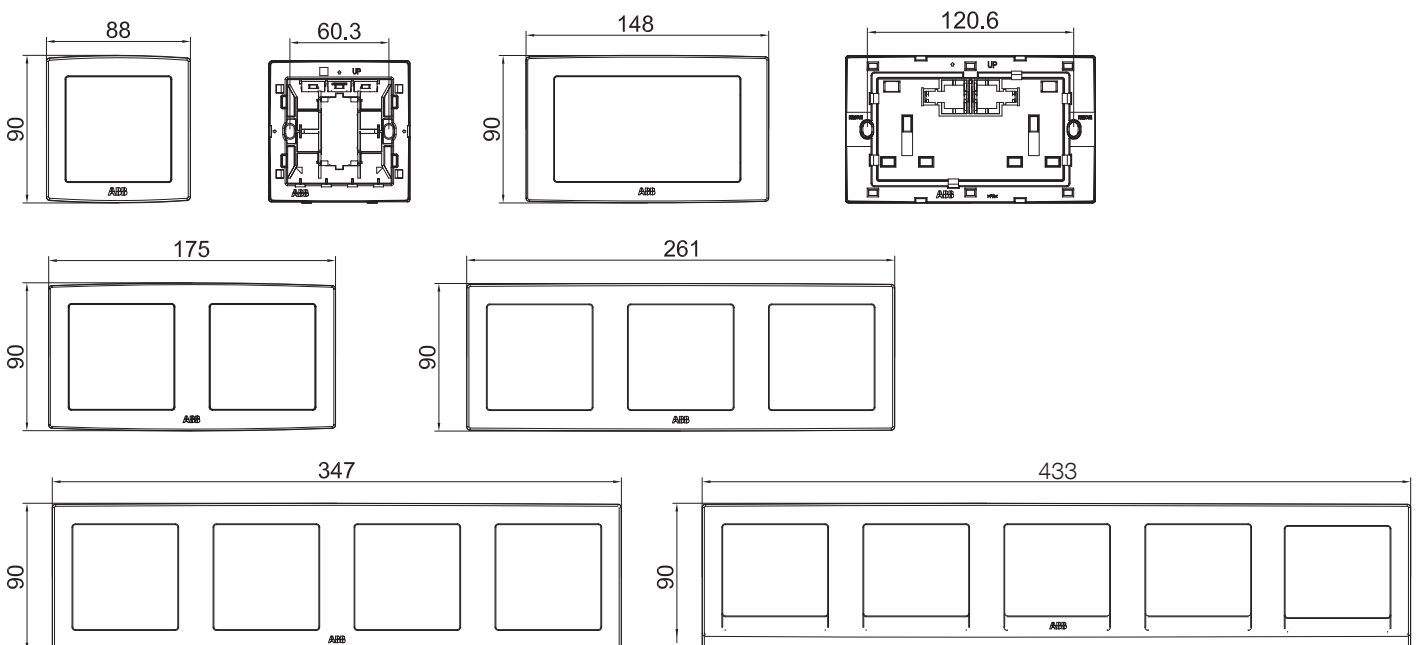
Concept bs

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

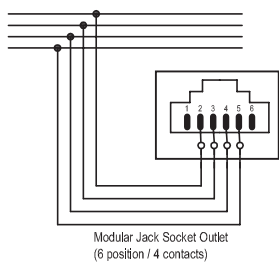
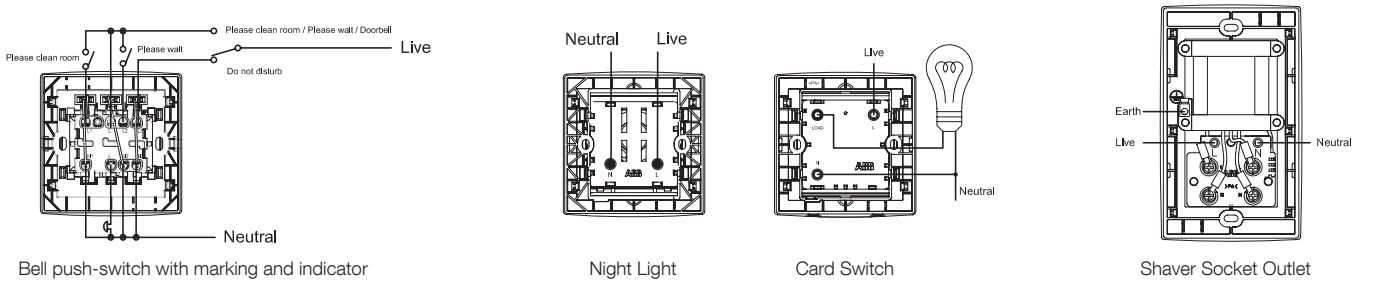
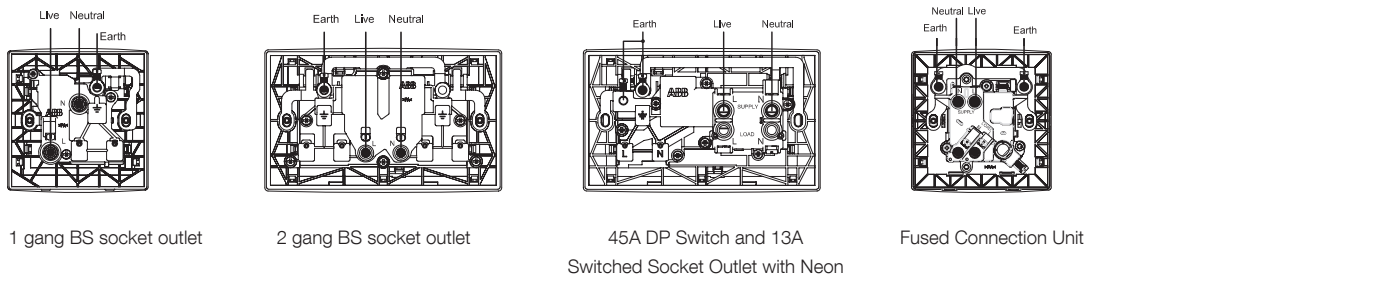
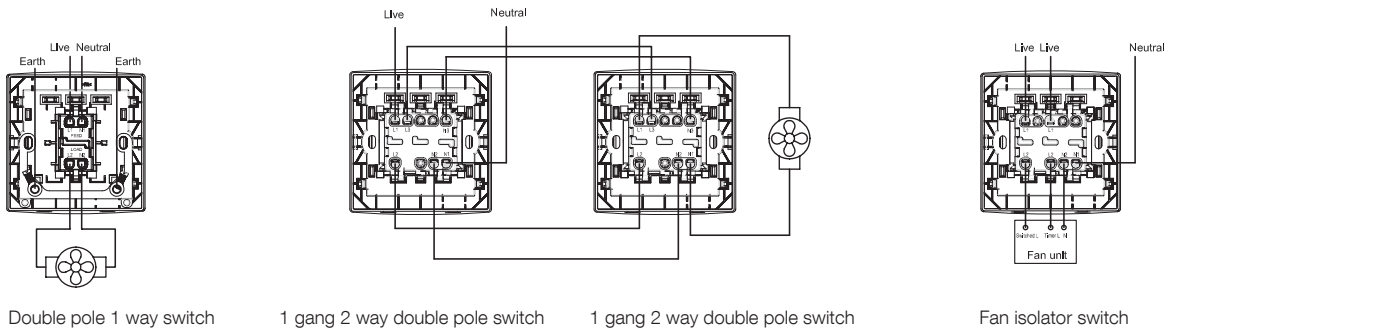
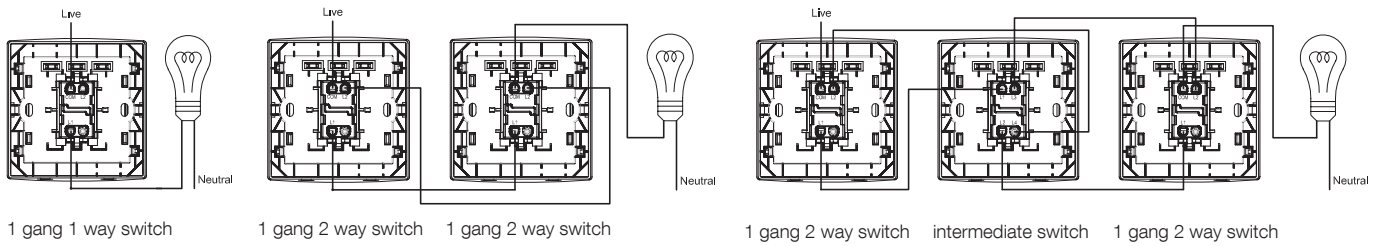
Dimensions of Concept bs

Unit: mm



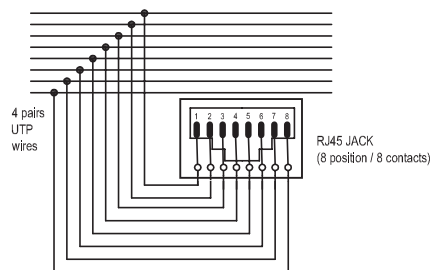
Concept bs

Circuit connection diagrams



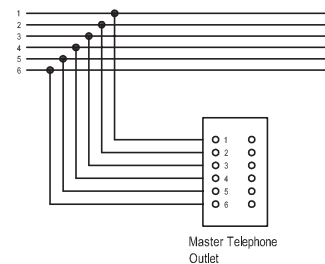
Wiring Colour Code		
Pin Number	Base Colour	Indication
1	-	-
2	Black	Earth
3	Red	L2
4	Green	L1
5	Yellow	Spare
6	-	-

Telephone Outlet - RJ11



Wiring Colour Code		
Pin Number	EIA-T568A Wire Colour	EIA-T568B Wire Colour
1	White / Green	White / Orange
2	Green	Orange
3	White / Orange	White / Green
4	Blue	Blue
5	White / Blue	White / Blue
6	Orange	Green
7	White / Brown	White / Brown
8	Brown	Brown

Computer outlet - RJ45

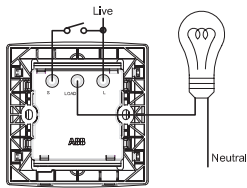


Wiring Colour Code	
Pin Number	Base Colour / Stripe
1	Green / White
2	Blue / White
3	Orange / White
4	White / Orange
5	White / Blue
6	White / Green

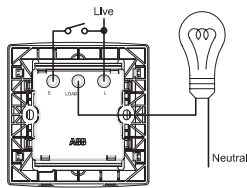
Telephone Outlet - BT

Concept bs

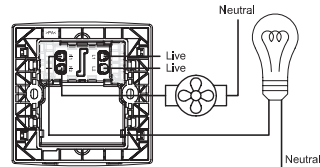
Circuit connection diagrams



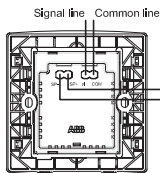
Touch type time delay switch



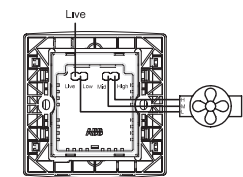
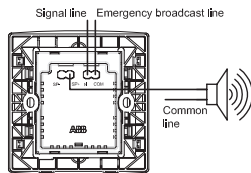
Sound and light control switch



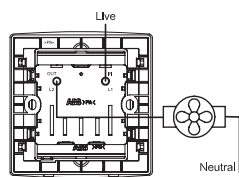
Countdown time switch, 1 gang 1 way



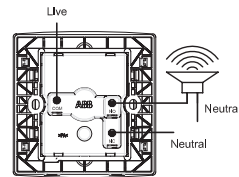
Volume control switch



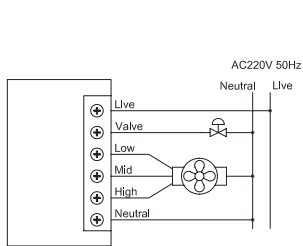
4 step rotary switch



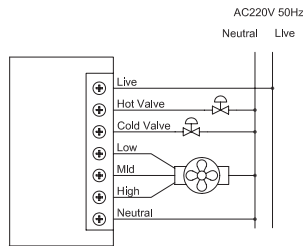
Fan Controller



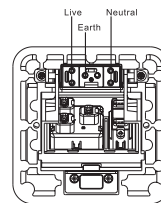
Emergency switch



Thermostat controller with display, 2 pipe system

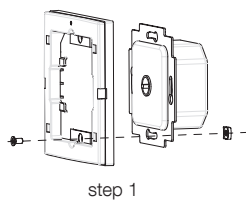


Thermostat controller with display, 4 pipe system

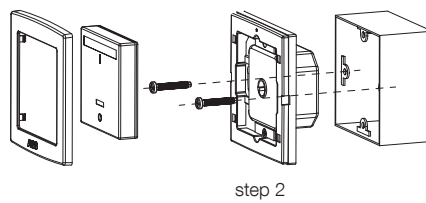


1 gang BS single pole floor socket outlet

The usage of AC503(adapter plate)

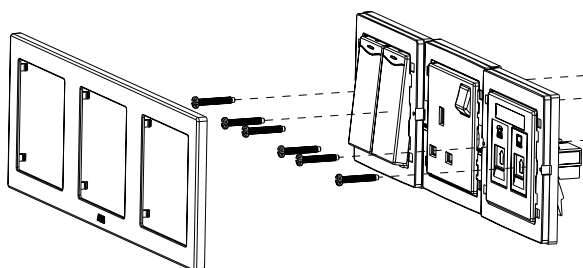


step 1



step 2

The usage of the multi-gang frame



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