



Technical Data

10 Amp 10 AX Switches

Brief product description:

BG's Nexus range of plate switches have been designed to perform at 10AX inductive loads. The screwless slim line design in a range of finishes will blend with any décor - suitable for domestic or commercial installations. The Fan Isolator switch has a triple pole switching design, however can be used for double pole applications if required.

Features:

- Fixed integrated plastic gasket to protect metal edges from moisture
- Under 5mm thick
- Flat profile with rounded edges
- Available in 4 metal finishes
- Secure easy "Clip on, Clip off frontplate design
- Backed out captive screws for easy installation
- 10 Amp, 10AX inductive rated

Product Images

Black Nickel



FBN12/FBN13



FBN15



FBN42



FBN43



FBN44



FBN46

Polished Chrome



FPC12/FPC13



FPC15



FPC42



FPC43



FPC44



FBN46

Polished Brass



FPB12/FPB13



FPB15



FPB42



FPB43



FPC44



FBN46

Brushed Steel



FBS12/FBS13



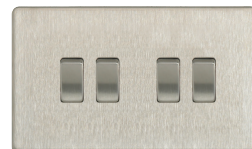
FBS15



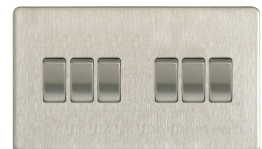
FBS42



FBS43



FPC44



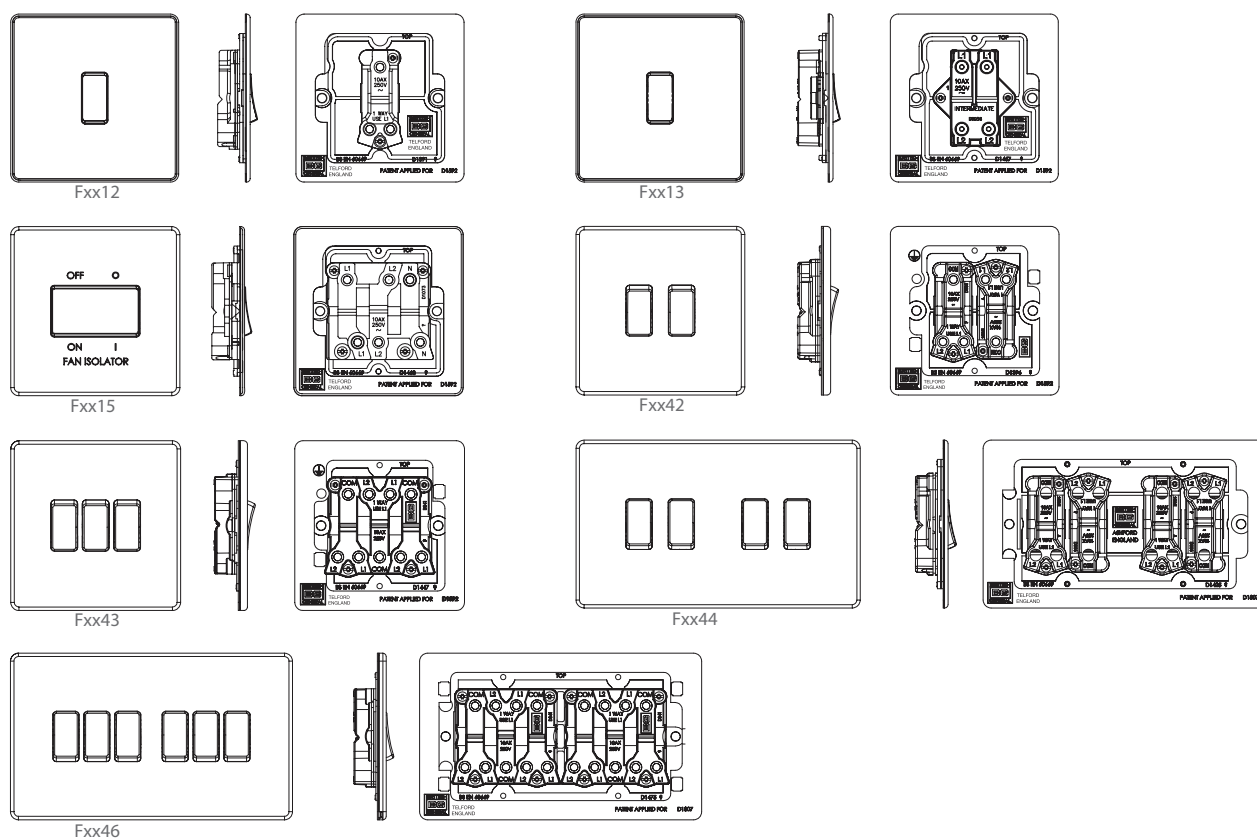
FBN46

10 Amp 10 AX Switches

Technical Specifications

Standard(s)	BS EN 60669-1
Rating	10 Amp, 250V~(10AX – no derating for inductive or fluorescent loads)
Contact Gap	3.0mm minimum
Terminal Capacity	4 x 1.0mm ² 4 x 1.5mm ² 2 x 2.5mm ² 1 x 4.0mm ²
RoHS Directive	No
WEEE Directive	No
Mounting Box Depth(Min)	16mm (Fxx12, Fxx13, Fxx15, Fxx42, Fxx43 products) 25mm (Fxx44, Fxx46 products)
Fixing Centres	60.3mm (Fxx12, Fxx13, Fxx15, Fxx42, Fxx43 products) 120.6mm (Fxx44, Fxx46 products)
Size	87.4mm x 87.4mm x 21.2mm (Fxx12, Fxx13, Fxx15, Fxx42, Fxx43 products) 147.9mm x 87.4mm x 21.2mm (Fxx44, Fxx46 products)

Line Diagrams



Weights & Dimensions

Cat No.	Description	Pack Quantity			Dimension (W x L x H) cm			Weight (g)			CMB (m ³)
		Each	Inner Box	Outer Box	Product	Inner Box	Outer Box	Each	Inner Box	Outer Box	
Fxx12	10AX 1G,2W	1	10	100	3.3 x 9 x 9.2	20 x 18 x 9.8	41.5 x 52.5 x 19	156.6	1666	17446	
Fxx13	10AX Intermediate	1	10	100	3.3 x 9 x 9.2	20 x 18 x 9.8	41.5 x 52.5 x 19				
Fxx15	10AX Fan Isolator	1	10	100	3.3 x 9 x 9.2	20 x 18 x 9.8	41.5 x 52.5 x 19	176	1860	19386	
Fxx42	10AX 2G,2W	1	10	100	3.3 x 9 x 9.2	20 x 18 x 9.8	41.5 x 52.5 x 19	172.6	1826	19046	
Fxx43	10AX 3G,2W	1	10	100	3.3 x 9 x 9.2	20 x 18 x 9.8	41.5 x 52.5 x 19	181.4	1914	19926	
Fxx44	10AX 4G,2W	1	5	50	3.3 x 9 x 15.2	16 x 18 x 9.8	33.5 x 52.5 x 19				
Fxx46	10AX 6G,2W	1	5	50	3.3 x 9 x 15.2	16 x 18 x 9.8	33.5 x 52.5 x 19	289	1531	15940	

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Packaging Information

Cat No.	Description	Barcode			Cat No.	Description	Barcode		
		Individual	Inner Box	Outer Box			Individual	Inner Box	Outer Box
FBS12	10AX 1G,2W	5050765006132	/	/	FBS42	10AX 2G,2W	5050765006163	/	/
FPC12	10AX 1G,2W	5050765005203	/	/	FPC42	10AX 2G,2W	5050765005234	/	/
FPB12	10AX 1G,2W	5050765008464	/	/	FPB42	10AX 2G,2W	5050765008471	/	/
FBN12	10AX 1G,2W	5050765006682	/	/	FBN42	10AX 2G,2W	5050765006712	/	/
FBS13	10AX Intermediate	5050765006149	/	/	FBS43	10AX 3G,2W	5050765006170	/	/
FPC13	10AX Intermediate	5050765005210	/	/	FPC43	10AX 3G,2W	5050765005241	/	/
FPB13	10AX Intermediate	5050765008501	/	/	FPB43	10AX 3G,2W	5050765008488	/	/
FBN13	10AX Intermediate	5050765006699	/	/	FBN43	10AX 3G,2W	5050765006729	/	/
FBS15	10AX Fan Isolator	5050765006156	/	/	FBS44	10AX 4G,2W	5050765006187	/	/
FPC15	10AX Fan Isolator	5050765005227	/	/	FPC44	10AX 4G,2W	5050765005258	/	/
FPB15	10AX Fan Isolator	5050765008518	/	/	FPB44	10AX 4G,2W	5050765008495	/	/
FBN15	10AX Fan Isolator	5050765006705	/	/	FBN44	10AX 4G,2W	5050765006736	/	/
FBS46	10AX 6G,2W	5050765006194	/	/	FPB46	10AX 6G,2W	5050765018531	/	/
FPC46	10AX 6G,2W	5050765005265	/	/	FBN46	10AX 6G,2W	5050765006743	/	/

Installation Information

Safety Warning

Before use please read carefully and use in accordance with these safety wiring instructions.

Before commencing any electrical work ensure the supply **is switched off at the mains**. Either by switching off the consumer unit or by removing the appropriate fuse.

Wiring should be in accordance with the latest edition of the IEE regulations (BS 7671).

Wire Identification – Twin & Earth Cable

EARTH = Green/Yellow Sleaving

NEUTRAL = Black (pre Apr 04) / Blue (after Apr 04)

LIVE = Red (pre Apr 04) / Brown (after Apr 04)



Technical Helpline: 0845 194 7584

If in doubt consult a competent electrician.

The ends of the individual conductors should have the insulation removed by approx. 12mm. Any bare earth conductors should be sleeved to within 12mm of the ends. (These details are for general information only and conductor lengths may need to be trimmed in certain installations).

General Installation Instructions

- 1) If using the new product to replace an old one, note the cable connections and wire up new product in the same way as the old one, with Earthing as stated in these instructions.
- 2) Ensure the mounting box (metal or patress) for either flush or surface mounting is the appropriate size for the product.
- 3) Route the cable through the most suitable entry point of the mounting box. If a metal box is used, a protective cable grommet should be used.
- 4) Cables should be prepared so a sufficient conductor length reaches the terminals. Strip the ends of the individual conductors so that an adequate length enters the terminals.
- 5) Carefully arrange the wiring to lie along the edges of the product or box, keeping the central area clear.
- 6) To assist with the correct installation please consult the appropriate wiring diagram on this leaflet.
- 7) When connecting the new accessory ensure that only the bare end of the wire enters the terminal, and no bare wires are visible.

Always tighten the terminal screws securely, but do not overtighten.

An earth connection should always be made between the mounting box earth terminal, and the accessory earth terminal, where fitted. If this earth wire is bare, it is essential that it is sheathed with a length of green/yellow sleeving.

- 8) Carefully position the accessory into the wall box, ensuring that no wires are trapped between the plate and the wall. Do not overtighten the screws. (Fit screw covers + clip-on)

- 9) Once work has been completed correctly, replace the fuse for the circuit, switch the power back on, and test.

The product is now ready for use.

* Note - If your installation uses a four lug metal mounting box, remove the top and bottom lugs or bend fully back.

Decorative Front Plate Fixing

Fixing method varies depending on which product range is supplied. Always ensure wall surface is reasonably flat and smooth, with no bumps or projections.

Metal Front plates WITH screw fixing holes. These products comprise main unit with integral front plate and rear gasket. Fix unit to back box using two fixing screws supplied.

Front plates WITHOUT screw fixing holes. These products comprise main unit with integral gasket, and front plate as separate item. Fix unit to back box using two fixing screws supplied.

Clip front plate onto main assembly, ensuring screwdriver notch is located bottom right hand corner. To remove plate, place medium size flat bladed screwdriver in notch and lever off against gasket.

For all Decorative Plates - It is essential the gasket is fitted between product and wall, to reduce possibility of discolouration of front plate edges due to natural moisture in some wall finishes.

To keep the finish of this product, wipe over with soft cloth periodically.

All Decorative products MUST have an earth connection between the front-plate and back box

To maintain the high quality appearance of decorative finish switches and sockets, BG Electricals recommend the use of a soft cloth periodically to clean the front face. When installing a decorative product please ensure that the wall is decorated, finished and free of moisture prior to installation. Please note that it can take several weeks for the chemicals in paint or wallpaper paste to become inert. Before this time there is a danger that they will react with the product if it has a metal faceplate.

BG recommends avoiding using, but not restricted to, the substances from becoming in contact with the decorative metal front-plates when cleaning or decorating;

- Adhesive tape, including masking tape
- Solvents
- White spirit
- Multi surface cleaners
- Industrial multipurpose cleaning wipes
- Wet wipes

Using these items like those listed above may cause a degrading effect to the front-plates lacquer/plated finish, although the function will remain unaffected.

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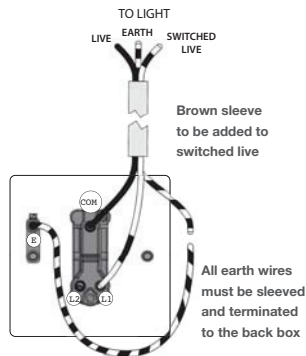
Installation Information

One Way Switching

One way switching is used in installations that require just one switch to control a light (or circuit) i.e. on or off.

A two-way switch can be used for one-way connection, use COM and L1 terminals.

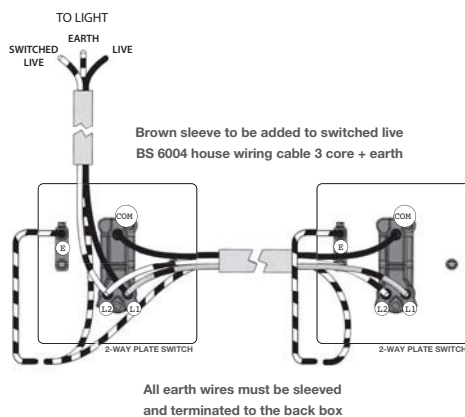
For multiple gang switches (2, 3, 4 & 6) repeat wiring method for each switch.



Two Way Switching

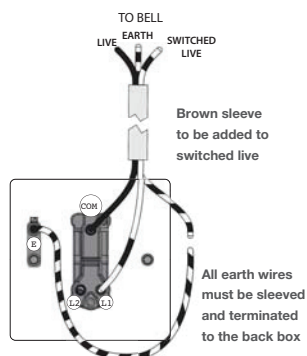
Two way switching is used where a light is controlled by two switches.

For multiple gang switches (2, 3, 4 & 6) repeat wiring method for each switch.



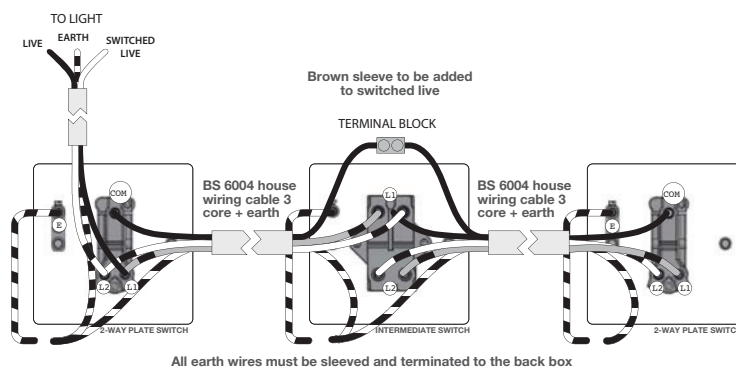
Bell Push

The bell push is a one way switch with a retractive rocker switch. Before installing, ensure a bell unit is suitable for supply voltage.



Intermediate Switching

Intermediate switching is used in installations that require three or more switches to control a light, and should be used together with two 2-way switches.



Fan Isolator - 3 Pole Switch

During repair or installation or routine maintenance the power supply to the fan unit must be disconnected. This isolating switch can be installed as shown in the diagrams to enable the remainder of the circuit to remain live.

These instructions should be read in conjunction with the instructions supplied with the fan unit and the latest IEE Wiring Regulations.

Please follow the appropriate wiring diagram below for your particular installation.

Important

The continuity of the protective conductors must be maintained. The isolator switch shall be so situated as to be inaccessible to a person using a fixed bath or shower.

