



Wiring Accessories

Dimmer Switch

Wiring Instructions

1. Power Off

Before commencing work always isolate the power at the consumer unit / fuse box.

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

2a. Replacing an existing accessory

1. Unscrew the accessory from the wall/mounting box.
2. Note the cable connections:
The illustration shows 1 wire of each colour connected to each terminal. There should be an additional connection between the mounting box earth terminal and the accessory earth terminal.
3. Unscrew each terminal to release the wire.

2b. New installation

1. Install mounting box (metal or moulded) for either flush or surface mounting, ensuring appropriate size of product.
2. Select the most suitable entry point of the mounting box (knock-out) and route the cables through. If a metal box is used, a cable grommet should be fitted to the entry point.
3. Cables should be prepared so a sufficient conductor length reaches the terminals. Strip the ends of the individual conductors leaving an adequate length bare to enter terminals.

3. Connection (See diagram)

1. Line up the new accessory to mounting box and take note of where each terminal is located.
2. Connect each wire to the matching terminal.
An earth connection should always be made between the mounting box earth terminal and the accessory earth terminal, where fitted. All bare earth wires must be sheathed with green/yellow sleeving. When connecting the new accessory ensure that only the bare end of the wire enters the terminal and no bare wires are visible.
3. Tighten terminal screws securely. (Do not over tighten)

4. Complete Installation & Test

1. Carefully position the accessory into the mounting box, ensuring that no wires are trapped between the plate and the wall and secure with screws (do not over tighten) then insert screw covers (optional).
2. Once the installation has been completed correctly, replace the fuse/reset MCB (trip), switch the power back on at the consumer unit and test.

Installation Notes

Only one dimmer is allowed in a two-way circuit.

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

For white moulded products, if the dimmer knob blocks the screw fixing holes, remove knobs, fix to wall and then reattach knobs.

Switch types

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 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 repeat wiring method for each switch).

For your safety, this product must be installed in accordance with local Building Regulations. **If in any doubt, or where required by the law, consult a competent person who is registered with an electrical self-certification scheme.** Further information is available online or from your Local Authority.

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 or turning off MCB (trip). Wiring should be in accordance with the latest edition of the IET regulations (BS 7671). To prevent fire hazard always use cable of the correct rating & type for the application.

Warning do not exceed the load rating of this device as stated on the rear of the product.

Wire Identification – Twin & Earth Cable

Note – As from 1st April 2004 new colour codes for hard wire installations were introduced.

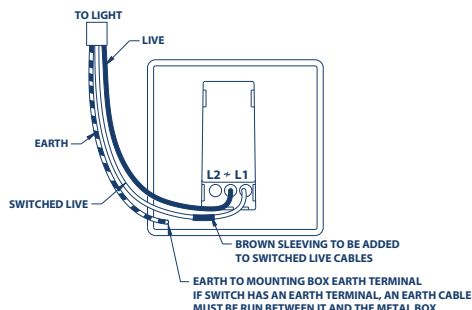
EARTH = Green/Yellow Sleeving

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

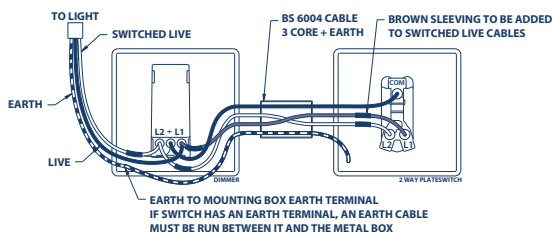
LIVE = Red (pre Apr 04) / Brown (after Apr 04)



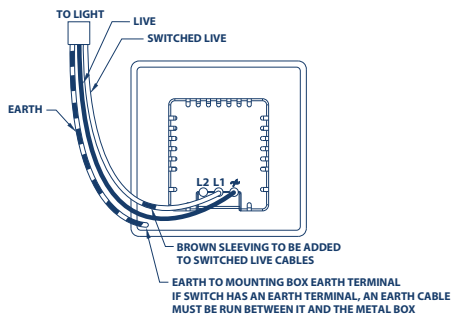
One Way Switching



Two Way Switching



1,000W Dimmer (Export Only)



Load Information

Voltage	200-250V AC
Load Ratings (Max/Min)	
Tungsten Lamp	60-400W
Halogen Lamp (Mains Voltage)	50-400W
Halogen Lamp (Low Voltage, 12V)	35-350W
Dimmable LED **	5-50W
Dimmable Compact Fluorescent (CFL)**	10-100W
Type	Leading Edge

The dimmer unit will emit a faint buzz and may become warm while in operation, this is quite normal and no cause for concern
Suitable for use with wire wound laminated transformers and 'leading edge' dimmable electronic transformers.
Do not use with 'trailing edge', 'lagging edge', 'phase lagging' transformers

Plate Size	NO. of dimmers	max. each dimmer	min. each dimmer	max. total per plate
square plates 86mm X 86mm	1	250W	40W	250W
	1	400W	60W	400W
	1	630W	60W	630W
	2	250W	40W	250W
	2	400W	60W	630W*
*Maximum load of 630W for the plate should not be exceeded				
Plate Size	NO. of dimmers	max. each dimmer	min. each dimmer	max. total per plate
square plates 86mm X 146mm	1	1000W	150W	1000W
	2	630W	60W	1000W*
	3	250W	40W	750W
	3	400W	60W	1000W*
	4	250W	40W	1000W*
	4	400W	60W	1000W*
*Maximum load of 1000W for the plate should not be exceeded.				

MINIMUM LEVEL DIMMING ADJUSTMENT

There can be issues with dimming CFL and LED lamps at a low lighting level. The light output from the lamp can 'elapse', suddenly switch off, rather than continuing dimming to a low level. The DM400AP 400W module has a minimum level dial on the rear of the module which can be used to adjust the lighting output at a low level, to stabilise the load.

- This dimmer has been factory set to dim a broad range of dimmable CFLs.
- Some dimmable CFLs have the ability to dim lower than the dimmer's default setting.
- Most dimmable LEDs and all incandescent/halogen lamps have the ability to dim lower than the dimmer's default setting.

Notes about CFL or LED bulb performance:

- Most dimmable CFLs and LEDs will not achieve as low a light level as incandescent or halogen lamps.
- The dimming range of dimmable CFLs and LEDs can vary from bulb to bulb and from manufacturer to manufacturer
- CFL's and LEDs may suddenly switch off (no visible light output) or are unstable (excessive flickering or flashing) during low level dimming, that will lead to damage or degradation of the bulb

DIMMING RANGE ADJUSTMENT

Warning - It is recommended for safety that adjustments are made in small intervals, and with the power isolated before adjusting.

Install the dimmer as per the guidance. If you are happy with the light level finalise the Installation.

To adjust please follow the instructions below,

1. Turn dimmer on and move the control knob to the lowest position (anti-clockwise).
2. On the rear of the dimmer module use a small screwdriver to turn adjustment clockwise until the lowest light level is achieved and light output is stable for all lamps.
Note: If dial stops, do not continue to turn.
3. Turn dimmer off, then back on to verify lamps turn on.
4. If all lamps do not turn on, turn adjustment dial down (counter-clockwise) slightly and repeat step 3.
5. Once all lamps are dimming properly, complete the installation.

Adjusting the rear dial to its maximum position will result in the main control having no dimming ability.

Setting the adjustment dial so that no light output is visible or output is unstable (excessive flickering or flashing) may damage or degrade the bulb.

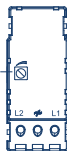
REAR VIEW OF DIMMER

For a lower minimum level dimming turn dial

counter clockwise.

For a higher minimum level turn dial clockwise.

Low Level Adjuster
Counter Clockwise
Lower
Clockwise
Higher



Additional Advice for Decorative Products

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 frontplates WITH screw fixing holes, fix the unit to the back box using two fixing screws supplied. All Decorative products MUST have an earth connection between the frontplate and back box. Frontplates WITHOUT screw fixing holes. These products comprise main unit with integral gasket, and frontplate as separate item. Fix unit to back box using two fixing screws supplied. Clip frontplate 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.

Care

To maintain the high quality appearance of decorative finish switches and sockets, BG Electrical 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.

BG Electrical recommends avoiding using, but not restricted to, these substances from becoming in contact with the decorative metal frontplates when cleaning or decorating:

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

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

Technical

Voltage : 200-250V ac

Frequency : 50/60Hz

Dimmer Type: Leading Edge

Rating : See charts

Terminal capacity : 2 x 1mm² 2 x 1.5mm²

Min box depth (profiled plates) : 1 & 2 gang switches 25mm 3, & 4 gang switches 35mm

Min box depth (flat plates) : 35mm

ASTA Approved

The ASTA quality mark is evidence that the product has been independently tested to comply with the relevant clauses of the applicable standards.



Batch Code explanation

yyWxx Manufacturing date code, year of manufacture (yy) and week of manufacture (Wxx)

Address/Helpline

Lucoco PLC

Stafford Park 1
Telford TF3 3BD
ENGLAND

(EU) Lucoco SE

C/ Bobinadora 1-5
08302 Mataró, Barcelona
SPAIN

If you have further technical assistance you can get in touch with our

Technical Helpline on:

+44 (0)3300 249 279

technical.support@bgelectrical.co.uk

Environmental Protection



This symbol is known as the "Crossed-out Wheelie Bin Symbol". When this symbol is marked on a product or battery, it means that it should not be disposed of with your general household waste. Some chemicals contained within electrical/ electronic products or batteries can be harmful to health and the environment. Only dispose of electrical/electronic/ battery items in separate collection schemes, which cater for the recovery and recycling of materials contained within. Your co-operation is vital to ensure the success of these schemes and for the protection of the environment.