

Instructions for :
2 way Universal Dimmers

AR1786 Ed E

SAFETY INSTRUCTIONS

Read these instructions fully before commencing work and retain them for future reference.

These accessories are to be installed in accordance with the current edition of the IEE Wiring regulations (BS 7671 : Requirements for Electrical Installations) and appropriate statutory regulations.

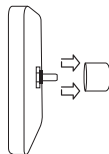
In the Republic of Ireland the installation must be in accordance with the ETCI National Rules for Electrical installations – ET 101.

NOTE: IF YOU ARE IN ANY DOUBT ON HOW TO PROCEED, CONSULT A QUALIFIED ELECTRICIAN.

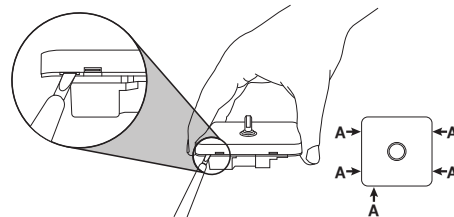
Switch OFF the mains supply and remove the appropriate fuse or switch off the appropriate circuit breaker before commencing installation. Ensure that no one else has access that would enable the supply to be inadvertently reconnected.

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LISSE DECO ACCESSORIES WITH METAL FRONTPLATES



1. Remove the round dimmer knob by pulling it away from the frontplate.



2. Remove the clip-on frontplate by inserting a small screwdriver alternatively into the small slots (A) on the sides of the frontplate and gently prise off.

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Once the socket is installed replace the screwless frontplate by clipping it back in place. **Do this before reconnecting to the mains power.** Push the dimmer knob back into position.

To keep decorative metal frontplates clean, occasionally wipe the frontplate with a clean soft cloth. Do not use any form of cleaning agent as this could damage the decorative finish.

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GENERAL INSTALLATION

1. Remove the existing accessory (if using the new accessory to replace an old one).
2. Remove any plaster debris and dust from the inside of the Plate Switch mounting box (wall box). Ensure that the heads of any box fixing screws do not protrude into the box.
3. On 1 gang 4-lug metal boxes, bend the top and bottom lugs inwards and out of the way to prevent interference with this dimmer profile.
4. Always use cable of the correct rating and type.
5. The layout of the terminal connections may differ between fittings, carefully check the location of the terminal connections before wiring.
6. Some decorative metal plate dimmers are supplied with a clear plastic gasket that must be positioned between the wall and the metal front plate. This gasket must therefore be placed over the wires before they are connected to the dimmer. This is particularly important on freshly decorated or plastered surfaces.

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7. Connect the new accessory as shown in the appropriate wiring diagram ensuring that only the bared copper core(s) enter the terminals and that there are no stray strands. If necessary trim and strip the cable to suit. The terminal screws must be tightened firmly.
8. Where necessary connect the fixed earth wire to the earth terminal on the accessory and then connect a short length of wire from the accessory earth terminal to the earth terminal in the wall box. If the earth wire is bare it should be sheathed with a length of green/yellow PVC sleeving.
9. Secure the accessory by means of the fixing screws provided, positioning the cables in the box so as to avoid them being trapped.
10. Replace the appropriate fuse, or switch on the appropriate circuit breaker. Switch on the mains isolator switch.
11. It is normal for a faint buzzing sound to be heard from the dimmer switch and is no cause for concern.

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IMPORTANT NOTICE

WIRING COLOUR CHANGES

As from 1st April 2004 new installations in the UK could be wired using the new EU harmonised colours for the supply conductors of twin and earth cable:

New colours	Old colours
BROWN – LIVE	RED – LIVE
BLUE – NEUTRAL	BLACK – NEUTRAL

The old colours ceased to be used after 1st April 2006.

Flexible cable colours remain unchanged:

BROWN – LIVE
BLUE – NEUTRAL

Wire conductor colours for twin and earth cable and flexible cable:
BROWN – LIVE
BLUE – NEUTRAL

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CIRCUIT AND OTHER EQUIPMENT COMPATIBILITY

To ensure optimum performance and reliability is obtained from this dimmer switch during its lifetime the following recommendations and precautions should be followed as appropriate to the type of dimmer:

CIRCUITS

It is recommended that the lighting circuit incorporating this dimmer is protected by a 6A or up to a 10A maximum Type B miniature circuit breaker.

Only use two-way (push) dimmers in two-way switching circuits. Only use one two-way dimmer in a two-way switching circuit.

LAMPS

These dimmer switches are suitable for dimming incandescent lamps and dimmable CFL lamps only and are NOT to be used with Fluorescent lamps, Light Emitting Diode (LED) lamps of any description or motor loads.

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When using mains voltage Tungsten Halogen lamps, it is essential that these types of lamps incorporate internal fuses and are from quality lamp manufacturers. The use of inferior low quality lamps without internal fuses is not recommended and will invalidate any guarantee or warranty supplied with the dimmer switch.

Unless Compact Fluorescent (CFL) lamps are marked 'Dimmable' they must NOT be used with these dimmer switches. Use of non-dimmable CFL lamps may permanently damage the dimmer or the lamp and will invalidate any guarantee or warranty supplied with the dimmer switch.

It is recommended that a maximum number of 5 dimming CFL lamps only should be connected to an individual dimmer switch.

LOW VOLTAGE TRANSFORMERS

Always check transformer compatibility BEFORE installation and if in doubt always check with the dimmer Helpline or the transformer manufacturer

These dimmer switches use leading edge (phase delay) dimming technology and must therefore be used with compatible good quality dimmable electronic or wire-wound transformers. Trailing edge (phase cut) dimmable transformers must not be used.

Do NOT mix electronic and magnetic transformers on the same dimmer switch.

It is recommended that a maximum number of 5 Low Voltage transformers only should be connected to an individual dimmer switch.

It is recommended that dimmable electronic transformers be loaded to at least 70% of their rated maximum wattage.

When running multiple lamps on dimmable electronic transformers ensure that all lamps are working correctly. Replace failed lamps as soon as possible as a single failed lamp may cause flickering of other lamps.

LOADING TABLE

PLATE SIZE	No. of Dimmers	Max. each Dimmer	Min. each Dimmer	Total per Plate
	1	250W/VA	60W/VA	250W/VA
	1	400W/VA	60W/VA	400W/VA
	2	250W/VA	60W/VA	500W/VA

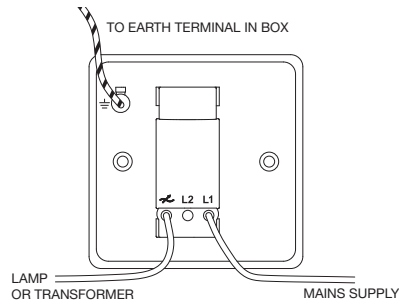
Maximum load of 500W/VA for the plate should not be exceeded.

PLATE SIZE	No. of Dimmers	Max. each Dimmer	Min. each Dimmer	Total per Plate
	3	250W/VA	60W/VA	750W/VA
	4	250W/VA	60W/VA	1000W/VA

Maximum load of 1000W/VA for the plate should not be exceeded.

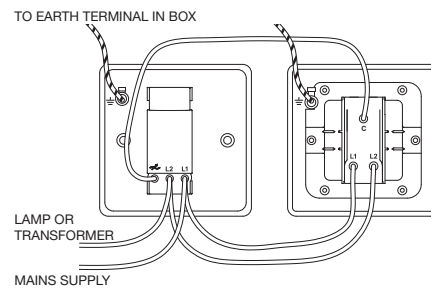
NOTE: The dimmer VA rating refers to the total circuit load, not the lamp load. Allowances must be made for transformer losses typically 20% for wire wound laminated and toroidal transformers and 15% for dimmable electronic transformers.

INSTALLATION WIRING DIAGRAM – 2 WAY DIMMERS WIRED IN 1 WAY CIRCUIT



(For multi-gang dimmers treat each circuit separately and connect as above.)

INSTALLATION WIRING DIAGRAM – 2 WAY DIMMERS WIRED IN 2 WAY CIRCUIT



(For multi-gang dimmers treat each circuit separately and connect as above.)

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