

Instructions for :  
**2 way LED Dimmers**

AR1800 Ed D

**Lisse / Ultimate**

**FITTING INSTRUCTIONS FOR FLAT PLATE ACCESSORIES**

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

**SAFETY INSTRUCTIONS**

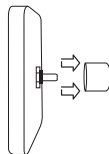
These accessories are to be installed in accordance with the current edition of the IEE Wiring Regulations (BS 7671: Requirements for Electrical Installations) and appropriate statutory regulations.

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**

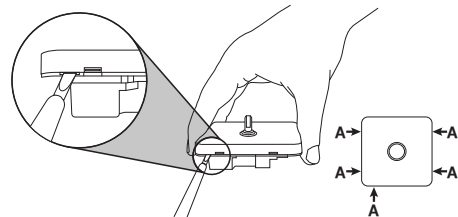
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**LISSE DECO ACCESSORIES WITH METAL FRONTPLATES**



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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1. 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.
2. Remove the existing accessory from the wall (if using the new accessory to replace an old one).
3. Remove any plaster debris and dust from the inside of the mounting box (wall box). Ensure that the heads of any box fixing screws do not protrude into the box.
4. For the best mounting results and visual appearance, it is recommended that prior to installation, the mounting surface beneath the accessory frontplate is first prepared to ensure that it is flat and all high spots have been removed.
5. Certain accessories may require that the top and bottom lugs in 1 gang, 4 lug boxes, are bent inwards and out of the way to ensure the correct installation within the box.
6. Always use cable of the correct rating and type.
7. The layout of the terminal connections may differ between fittings, carefully check the location of the terminal connections before wiring.

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8. Flat plate accessories with metal front plate must be correctly earthed. This is achieved by connecting the fixed earth wire to the earth terminal provided on the accessory or on the metal plate and then connecting a short length of wire from this terminal to the terminal in the back box. If the earth wire is bare it should be sheathed with a length of green/yellow sleeving.
9. Secure the accessory to the wall 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.

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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:

<b>New colours</b>	Brown = Live	Blue = Neutral
<b>Old Colours</b>	Red = Live	Black = Neutral

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

**Flexible cable colours remain unchanged:**

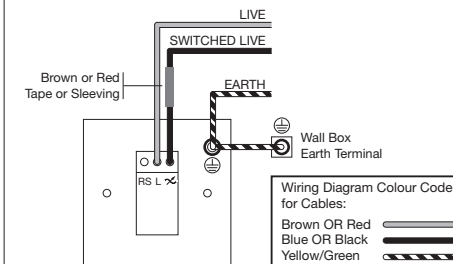
Brown = Live      Blue = Neutral

**Fire conductor colours for twin and earth cable and flexible cable:**

Brown = Live      Blue = Neutral

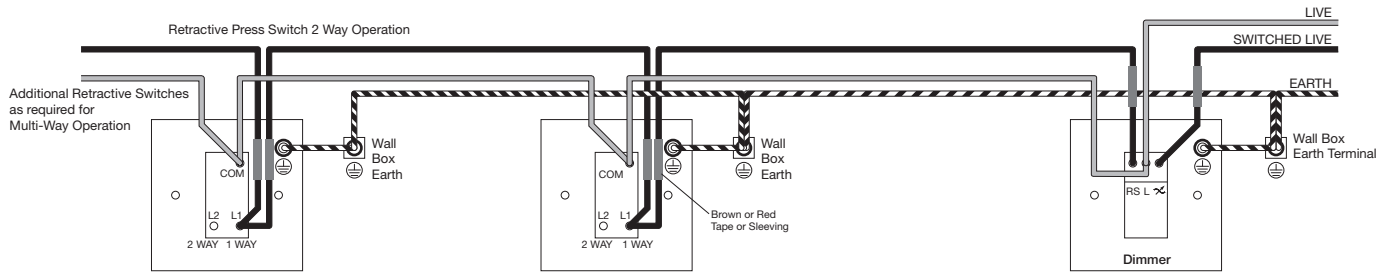
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**1 WAY INSTALLATION WIRING DIAGRAM**



**IMPORTANT NOTES - for 1 Way Installation**  
Do not connect any conductor to dimmer terminal marked RS.  
This is only for use with 2 way switching.

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**IMPORTANT** – for 2 Way and Multi-Way Installation

- Any existing 2 way and intermediate switches **MUST** be replaced with retractive press switches.
- Any number of retractive press switches may be installed provided total cable length does not exceed 50m.
- Either 1 way or 2 way retractive push switches may be used.
- If 2 way retractive switches are used, connect to Common (COM) and normally open L1 (1 way) terminals as shown. Do NOT use the L2 (2 way) terminal.
- If replacing an existing 2 way switch, cut back and insulate the unused 2 way wire previously connected to the L2 (2 way) terminal.
- Do NOT connect more than 1 dimmer in the same circuit.
- Remove label covering the terminal marked RS on rear of dimmer. This terminal is to be connected to retractive switch as shown in wiring diagram. Do NOT connect any other conductor to this terminal.

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**Technical specification**

Rated Voltage: 220 V-230 Vac 50 Hz  
(not compatible with 100-125 Vac or 60 Hz supplies)  
Product standards: EN 60669-2-1

Type of ballast	Minimum Load	Maximum load
Mains voltage tungsten halogen lamp	25 W	100 W
Low voltage halogen lamp	25 W	100 W
LED lamp*	5 W	**100 W

\* For LED lamp compatibility please visit [www.dimmer-test.com](http://www.dimmer-test.com)

If the LED lamp flickers at minimum dim Level, use the below procedure to set the LED lamp to a adjust and set a higher minimum dimmer position. Please note by using this procedure the minimum dim level of the LED lamp would be increased.

\*\* For the 3-4 gang dimmer version, the maximum load is 75W / dimmer.

Total load 3 gang = 225W  
Total load 4 gang = 300W

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**Attention:**

\* Only to be used if the lamp flickers at the minimum brightness:

- Switch on the lamp with a single push on the dimmer knob. Lamp ON
- Dim it down to the lowest level.
- Press & hold the knob for 5-6 secs until the lamp oscillates from full brightness to minimum brightness.   
A. Lamp oscillates from min to max for 4 secs.
- During these 4 secs (see right (A)) rotate the knob to position the desirable min level (higher than the current min level position).
- Push the knob once and the lamp will auto oscillate from min to max to confirm the settings have been set.

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- Do NOT use with Compact Fluorescent Lamps (CFL) even if marked 'dimmable' or fluorescent lamps or motor loads.
- When running multiple dimmable lamps 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.
- 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.
- For two-way or more switching **ONLY** use retractive switches. Do NOT use two-way switches.
- Do NOT mix dimmable LED lamps with mains voltage Tungsten Halogen lamps on the same dimmer switch.
- These dimmer switches use Trailing edge (phase cut) dimming technology and must therefore be used with compatible good quality dimmable Trailing edge LED lamps.

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