1. Switch off the power at the mains. Remove the existing switch taking note of the wiring of the switch and the terminal markings. If there are two or more wires in one terminal on the old switch they must be put in the same terminal in the dimmer switch.

2. Clear the wall mounting box of plaster debris etc and ensure that there are no projecting screws. Dimmers must not be under-loaded or overloaded. Under-loading may cause the lamp(s) to flash. Overloading will cause the dimmer overload protection to operate and the lights to be switched off. Removal of the overload will allow the overload protection to reset.

3. To connect the dimmer switch for 1 or 2-way switching, please refer to the diagrams overleaf.

4. When stripping the cables for wiring ensure that no bare conductors can project from the terminals.

5. Dimmer switches with a metal front plate MUST be earthed using the Earth terminal or Earth fly lead on the front plate.

6. After connecting the wiring push the dimmer switch back towards the wall box ensuring the that the wiring is not trapped between the back of the dimmer module and the mounting box or the front plate and the mounting box, tighten the plate fixing screws provided. Do not over-tighten the fixing screws or you may distort or break the front plate.

7. When installation is complete switch on the mains supply and push the dimmer knob to operate.

8. The minimum dimming level can be adjusted to suit the installation. Turn the dimmer to the required light level.

9. Each dimmer overload occurs when controlling a correctly calculated number of transformers, it is likely that the transformers are presenting a bigger load than their rated value. Each dimmer switch is suitable for control of dimmable compact fluorescent downlights.

10. Do not mix transformers with GU10 or dimmable compact fluorescent downlights on the same circuit. Do not mix AU-LPF640/650/660/670 on the same circuit.

AURORA ROTARY CONTROL DIMMER SWITCHES - INSTALLATION INSTRUCTIONS

READ THESE INSTRUCTIONS CAREFULLY IF IN ANY DOUBT, CONSULT A QUALIFIED ELECTRICIAN

READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLATION

APPLICATIONS
Aurora dimmer switches are suitable for the following applications:

- One or two way switching
- Fits a plaster depth (16mm) mounting box
- Smooth dimming operation from 25-100% light output
- Module case ultrasonically sealed to reduce dimmer buzzing
- Integrated over-temperature protection fuse
- Electronic low voltage lighting transformers - maximum load according to the dimmer label - add the VA ratings of the transformers together. De-rating NOT required.

PRODUCT FEATURES
Electronic trailing edge dimmer suitable for control of AU-LPF640/650/660/670 dimmable compact fluorescent downlights:

- AU-DET111 controls 1-15pcs-AU-LPF640/660 or 1-10pcs-AU-LPF650/670
- AU-DET111 controls 1-10pcs-AU-LPF640/660 or 1-15pcs-AU-LPF650/670
- Trail edge phase control
- For use with GU10, G9, incandescent lamps, resistive loads and electronic transformers
- Integrated over-temperature protection fuse
- Module case ultrasonically sealed to reduce dimmer buzzing
- Smooth dimming operation from 25-100% light output
- Fits a plaster depth (16mm) mounting box
- One or two way switching
- Do not mix transformers with GU10 or dimmable compact fluorescent downlights on the same circuit.
- Do not mix AU-LPF640/660 with AU-LPF650/670 on the same circuit.

TRANSACTIONS

- Mains Voltage GLS bulbs - maximum load according to the dimmer label - add the bulb wattages together.
- Mains Voltage halogen bulbs - maximum load according to the dimmer - add the bulb wattages together.
- Do not mix AU-LPF640/660 with AU-LPF650/670 on the same circuit.

DIMMER SWITCH

- AU-DET611 controls 1-20pcs-AU-LPF640/660 or 1-15pcs-AU-LPF650/670
- AU-DET311 controls 1-15pcs-AU-LPF640/660 or 1-10pcs-AU-LPF650/670
- Suitable for control of dimmable electronic transformers and tungsten lamps WITHOUT DE-RATING

PRODUCTION

- Electronic trailing edge dimmer suitable for control of AU-LPF640/650/660/670 dimmable compact fluorescent downlights:
- AU-DET111 controls 1-15pcs-AU-LPF640/660 or 1-10pcs-AU-LPF650/670
- AU-DET111 controls 1-10pcs-AU-LPF640/660 or 1-15pcs-AU-LPF650/670
- Trail edge phase control
- For use with GU10, G9, incandescent lamps, resistive loads and electronic transformers
- Integrated over-temperature protection fuse
- Module case ultrasonically sealed to reduce dimmer buzzing
- Smooth dimming operation from 25-100% light output
- Fits a plaster depth (16mm) mounting box
- One or two way switching
- Do not mix transformers with GU10 or dimmable compact fluorescent downlights on the same circuit.
- Do not mix AU-LPF640/660 with AU-LPF650/670 on the same circuit.

Aurora dimmers switches comply with the latest European Safety and EMC Regulations

- EMC Compliance - EN 55015
- Safety Compliance - EN 60669-2-1:2000
- Aura dimmer switches are suitable for control of dimmable compact fluorescent downlights.

- AU-DET111 controls 1-15pcs-AU-LPF640/660 or 1-10pcs-AU-LPF650/670
- AU-DET111 controls 1-10pcs-AU-LPF640/660 or 1-15pcs-AU-LPF650/670
- Trail edge phase control
- For use with GU10, G9, incandescent lamps, resistive loads and electronic transformers
- Integrated over-temperature protection fuse
- Module case ultrasonically sealed to reduce dimmer buzzing
- Smooth dimming operation from 25-100% light output
- Fits a plaster depth (16mm) mounting box
- One or two way switching
- Do not mix transformers with GU10 or dimmable compact fluorescent downlights on the same circuit.
- Do not mix AU-LPF640/660 with AU-LPF650/670 on the same circuit.

Please note - DO NOT perform insulation resistance tests on a lighting circuit with a dimmer switch connected. An insulation resistance test may damage the electronic components in the dimmer beyond repair.

A slight buzzing noise may be heard from the dimmer switch in operation, this is perfectly normal.
Aurora rotary dimmer switches are suitable for 1 or 2-way lighting circuits. The dimmer has a push-on, push-off switch action and a rotary action to dim the light. Each dimmer module has 3 screw terminals, L1, L2 & C (common).

1-Way Switching

In 1-way lighting circuits each light is controlled by 1 switch. Your Aurora dimmer switch should replace this switch. Remove the existing switch taking note of the wiring of the switch and the terminal markings. Connect the two wires either way round, to the C terminal and either L1 or L2. One of the L terminals is not used for 1-way switching. See Figure 1. The wiring terminal can be accessed by removing the front plate of the dimmer.

![1-way switching wiring diagram](image)

2-Way Switching

2-Way lighting circuits have two switches controlling the same lights from two different locations. This arrangement is commonly used at the top and bottom of staircases or at the entry and exit doors to a room.

Only one standard plate switch may be replaced with a dimmer switch for 2-way switching applications or the lights will flicker on and off. There are commonly two ways to wire 2-way switching. See figures 2 & 3 for typical 2-way circuits. The wiring terminal can be accessed by removing the front plate of the dimmer.

Remove one of the existing switches taking note of the wiring of the switch and the terminal markings. The wires connected to the COMMON terminal of the plate switch should be connected to the C terminal of the dimmer switch. The wires connected to the other two terminals of the plate switch should be connected either way round to terminals L1 & L2 of the dimmer switch.

![2-way switching wiring diagrams](image)

Environmental Protection (W.E.E.E.) – Aurora’s WEEE Reg.No. WEEE/000130YX

Waste Electrical & Electronic Equipment Regulations (WEEE) requires that any of our products showing this marking (left) must not be disposed of with other household or commercial waste. Aurora does not levy any WEEE disposal charges to its customers for affected WEEE related products. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate any such product from other waste types and recycle it responsibly at your local facilities. Check with your Local Authority, Recycling Centre or retailer for recycling advice. If, when you purchased any Aurora product, your supplier included a WEEE disposal fee, you should then contact your supplier for advice on his takeback of the product for the correct disposal.

GUARANTEE

This product is guaranteed for a period of 1 year from the date of purchase. The guarantee is invalid in the case of improper use or installation, tampering, removal of the Q.C. date label, installation in an improper working environment or installation not in accordance with the current edition of the I.E.E. Wiring Regulations (BS 7671).

This product must not have been used with fluorescent or energy saving lamps or overloaded beyond its rating. It must only have been used on a 200-240-Volt supply. Should this product fail during the guarantee period it will be replaced free of charge, subject to correct installation and return of the faulty unit. Aurora does not accept responsibility for any installation costs associated with replacement of this product. Your statutory rights are not affected. Aurora reserve the right to alter specifications without prior notice.

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