

### IMPORTANT NOTE TO THE INSTALLER

These instructions contain important information. Please ensure that a copy is left with the user/maintenance engineer.

### WARNING

This product should be installed by a qualified electrician in accordance with these instructions and the latest edition of the I.E.E. Wiring Regulations (BS 7671) and other relevant regulations (e.g Building, Fire etc).

For use with 12V tungsten halogen lamps in Class III low voltage luminaires only.

Isolate from the mains supply before installation or maintenance.

### INSTALLATION INSTRUCTIONS

The wires of the mains lead are coloured as follows:

**Blue - Neutral**

**Brown - Live**

The transformer should be sited in a well ventilated position. Do not enclose or cover the transformer with thermal insulating materials. The ambient temperature during operation must not exceed the  $t_a$  °C rating of the transformer.

Keep the transformer away from direct sources of heat such as low voltage lamps (see Figure 1 below). Do not fit the transformer above the luminaire (see Figure 2 below).

Note: the transformer may be used in the same lighting circuit as inductive loads (fluorescent lamps, ventilating fans etc.) The transformer is protected against mains surges of up to 1.0kW (in accordance with EN61547)

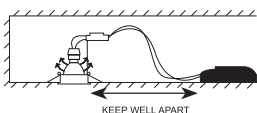
The output leads must not exceed 2m in length.

Ensure that the wattage of the lamp does not exceed the rating of the transformer.

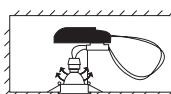
Do not allow the input and output wiring to cross (see Figure 3 below).

Replace failed lamps immediately.

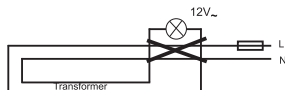
(Figure.1 - CORRECT Installation)



(Figure.2 - INCORRECT Installation)



(Figure.3)  
DO NOT CROSS INPUT AND OUTPUT WIRING



### FAULT FINDING

Electronic transformers give little or no output unless connected to a load of the correct rating. To measure output voltage use a true r.m.s. A.C. voltmeter with a bandwidth >30Khz. Do not use a Megger or similar insulation resistance tester on circuits with electronic transformers connected as permanent damage to the transformer may result. Disconnect the transformers before testing.

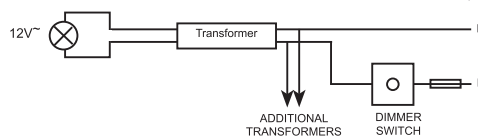
### DIMMING

This transformer may be dimmed with most types of standard resistive and inductive dimmer switches. Minimum load for dimming 35-Watts.

Install the dimmer switch on the primary (mains) side of the transformer.

A slight buzzing noise is normal with some types of dimmer switch.

The dimmer should be loaded to at least 75% of its maximum capacity.



INSTALLATION WITH DIMMER SWITCH

### RADIO INTERFERENCE

In common with other high frequency convertors this product may cause radio interference. Under certain circumstances break through may be experienced on the medium and long wave bands. Please note that this transformer is suppressed to all relevant EMC standards.

### TECHNICAL DATA

Model	Wattage	Pri. Current	Sec. Current	Ambient Temp.	Max. Case Temp.
HA-SE60	20-60W	0.26A	5A	-20 - +50C	+75C



Environmental Protection (W.E.E.E.) – Aurora's WEEE Reg.No. WEE/BG0130YX (UK only)

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 in the country of purchase for a period of 3 years from the date of purchase. The guarantee is invalid in the case of improper use, installation, tampering, removal of the Q.C. date label, installation in an improper working environment or installation not according to the current edition of the National Wiring Regulations. 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 the replacement of this product. This warranty is in addition to the statutory rights in your country of purchase. Aurora reserves the right to alter specifications without prior notice.