

# Instruction for the use of the electronic transformer for low voltage halogen lamps

## Model: SET70M

### Applications

The transformer SET70M is dimmable electronic transformer (both with leading edge and trailing edge dimmers) for the use in halogen lamp systems (e.g. tube and rail systems, halogen lamp sets, hanging lamps, ceiling lamps). The transformer operates with a soft start that produces a steadily rising current after switching-on.

An electronic protection circuit switches off the transformer in case of short circuit or overload in the secondary circuit as well as open circuit. After the removing of the faults, the transformer is ready for operation again.

### Important information for the installation

The unit conforms to the directive **2004/108/EC** for the electromagnetic compatibility and the low voltage directive **73/23/EEC**.

This unit uses dangerous mains voltage (230V~). The connection of the transformer to the mains voltage must be carried out by authorized personnel according to the VDE regulations resp. the safety regulations of the respective country.

For the installation also note in any case the following points:

- The transformer can only be used with the halogen lamps. The protection against the electric shock must be ensured during the installation.
- The transformer is only suitable for indoor use. Protect the transformer against humidity and excessive heat (permissible operating temperature range -20 to +50°C).
- A thermal fuse has been built into the transformer, which will cut off the circuit of the transformer in the case of overheating.

- As a mains cable it is recommended to use a PVC flat cable according to VDE 0281 of a cross section of at least 0.75mm<sup>2</sup>. The cross section of the lamp supply cables must be 0.75 to 1.50mm<sup>2</sup>. To avoid RF interfering radiation, the lengths of the supply cables of the lamps must not be more than max. 4m.

- The loads indicated on the transformer must neither exceed nor below the following values:

**SET70M: 20-70W**

- Connect the lamps to the electronic transformer according to the schematic drawing. The mains cable and the lamp supply cables must not cross each other.

- The transformer should be mounted as near as possible to the halogen lamps. However, due to the heat radiation of the lamps, a minimum distance of approx. 30cm has to be observed. As the electronic transformer is heating up itself, the mounting place must be sufficiently ventilated.

- The transformer is provided with an insulation protection. Therefore there is no connection of the ground-wire. Phase and neutral wire may be connected at will.

- If the transformer is used for purposes other than originally intended or it is connected in the wrong way, no liability can be taken over for possible damages.

### Specifications:

Input voltage:	230-240V~ +6-10% 50Hz
Output voltage:	11.6V~rms
Rated power:	20-70W
Rated current:	0.30A
Ambient temperature <b>ta</b> :	Max. 50°C
Case temperature <b>tc</b> :	Max. 75°C
Primary cable:	H03VVH2-F 2x0.75mm <sup>2</sup>
Secondary cable:	H03VVH2-F 2x0.75-1.50mm <sup>2</sup>
	1 to 2 cable(s) of min. 0.3m, and max. 4m long; or
	3 cable of min. 0.3m, and max. 3m long; or
	4 to 6 cable(s) of min. 0.3m, and max. 2m long.

