

# HUGO

## 12V AC TRANSFORMER

### Electronic Transformer TRANS070

#### IMPORTANT INFORMATION

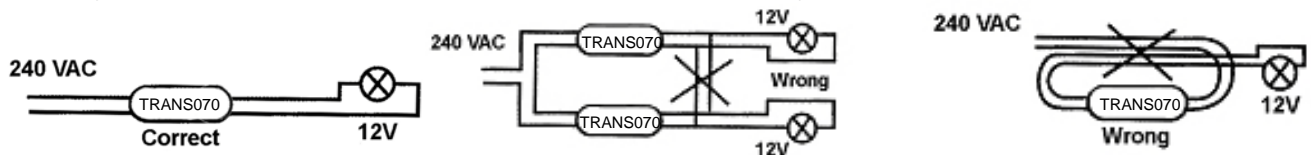
- ♦ **CAUTION:** Luminaires and their auxiliary equipment may pose a risk of fire or damage to property if not installed or maintained correctly.
- ♦ Must be installed to the latest electrical safety regulations, consult a qualified electrician if you have any questions.
- ♦ The transformer is designed to be used exclusively with 12V halogen lamps.
- ♦ Soft start protects filaments and prolongs lamp life.
- ♦ In case of short circuit and overload, the unit shall automatically reset when fault is removed.
- ♦ Ensure all electricity is switched off before you commence maintenance or insulation.
- ♦ Ensure all electrical connections are tight with no loose strands, including factory made connections.
- ♦ These luminaires are for indoor use only.

Model No	<b>TRANS070</b>	Storage temperature	-20°C ~ +80°C
Dimensions	(L)120 x (W)45 x (D)25mm	Operating ambient temp.	-5°C ~ +40°
Insulation	Class II Double Insulated	Case material	PBT
Supply voltage	230/240V 50Hz	Flammability	Withstands 650°C Glow wire test
Supply current	0.27A $\cos\phi \geq 0.99$	Max case temperature	tc 75°C
Min/max loading	20W ~ 70W	Connection	screw terminals
Start delay (cold)	approx 0.5 second	Min/max length to lamp(s)	30cm < L < 2m
Output voltage	11.4V SELV	Ingress protection	IP20
Output Frequency	35kHz	Guarantee	5 years
Dimmable range	0 ~ 100%	Contains no user serviceable parts	

#### FEATURES:

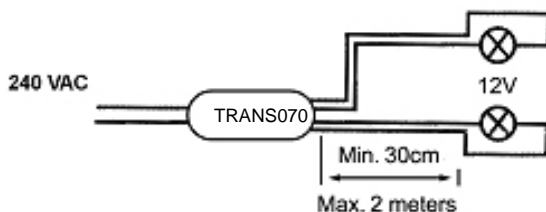
Preheat function to protects against current surge	Integral in-line fuse to ensure complete safety at end of life
Secondary side short circuit protection	Thermal fuse to ensure safe failure if in excess ambient temp.
Thermal overload protection	Radio interference suppression in accordance with EN55015
Dimmable with most standard dimmers (leading edge & trailing edge types)	Safety and performance in accordance with EN61046

HUGO Electronic transformers may be used in the same circuit as inductive loads up to 2A (wire wound transformers, fluorescent lamps, discharge lamps, ventilating fans etc). Separate load circuits must be provided where the inductive loads exceed 2A to enjoy maximum transformer life. Under load on dimmer may lead to unstable transformer operation and lamp flickering. The length of the secondary wire (12V side) must not exceed 2 meters (radio interference may be broadcast by long secondary cables).



#### Caution!

1. It is important to separate the mains voltage primary cables and secondary low voltage cables by at least 50mm or greater. Not doing this may also cause electro magnetic interference. In common with other electronic transformers their principle of operation leads to the generation of radio frequency interference (RFI), which although suppressed, could still, under certain conditions, cause some breakthrough on the long, medium and short wave frequency bands.
2. Do not extend the secondary cable more than 2m, more than 2m may cause radio interference and interfere with other electronic equipment. In order to keep interference to a minimum, electronic transformer output leads should be kept as short as possible.
3. Avoid overheating due to being too close to the lamp. Long 12V wires may radiate radio interference.

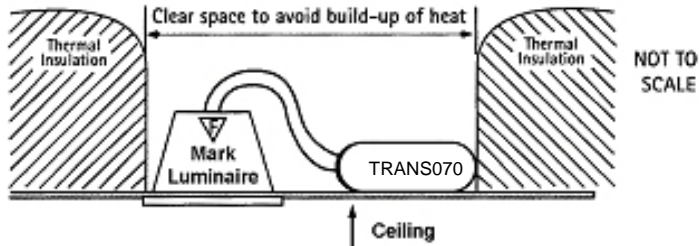


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Do Not load the transformer over its maximum wattage as indicated.

Do not test with a high voltage (>500V) insulation resistance Meggar tester. Doing so will damage the transformer. When testing remove all transformers from the circuit..

Do Not install on common circuit with an Inductive load, such as standard Fluorescent fittings greater than 2 Amps

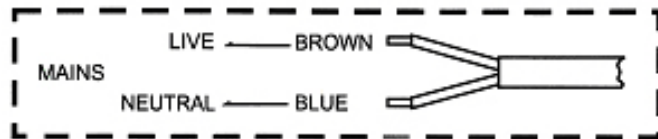


The Transformers should be installed in a ventilated area, free of insulation materials, mineral wool or similar, and not located directly above or immediately adjacent to light fitting or other sources of heat. Although protected against normal mains voltage surges and transients, do not install electronic transformers into circuits with large inductive loads or where repetitive voltage surges or transients could be experienced.

- These electronic transformers give no or very little output unless connected to a load of the correct rating.
- To measure the output voltage of an electronic transformer use a true rms voltmeter with a band width > 40kHz.
- If using with a dimmer, ensure the loading on the dimmer is within its min. and max. limits.
- When using with a standard dimmer, the load on the dimmer should not be less than 50% of the max. load rating or flicker may occur when the lamp is dimmed.
- Very low audible noise under normal conditions. This may increase slightly when phase control dimmers are used. Therefore, avoid mounting transformers onto surfaces which may act as sounding boards and amplify any noise.
- Important: lamp changes by unqualified persons must not render an installation unsafe. Always ensure that transformers in a ceiling void cannot unwittingly be drawn too close to the lamp by using a luminaire with a bracket to anchor the lampholder terminals.
- Important: Neither transformer nor light fitting may be covered by thermal insulation

## INSTALLATION

1. Ensure mains is turned off before you commence insulation or perform maintenance
2. Mains supply should be connected to Primary input terminals, Black/Blue – Neutral, Red/Brown – Live



3. Connect 12V MR16 Lamp to Secondary outputs
4. It is recommended to consult an electrician before switching on power.

## GUARANTEE

- ♦ HUGO provides warranty for 5 year for these fittings against defects in the material and/or workmanship. This period commences from the date of delivery and is only valid if the fitting is installed in accordance to the instructions provided and to local regulations. If defective material or workmanship is found within the warranty period, it must be returned to the supplier with details and proof of the original delivery and purchase dates. Any additional costs including labour must be submitted in writing and approved by HUGO prior to remedial work being initiated.
- ♦ Warranty becomes null and void if components have been tampered, altered or modified in any way. Damage to fittings by fire, water or similar will revoke the warranty.
- ♦ HUGO reserves the right to improve, modify or update the designs without prior notice.