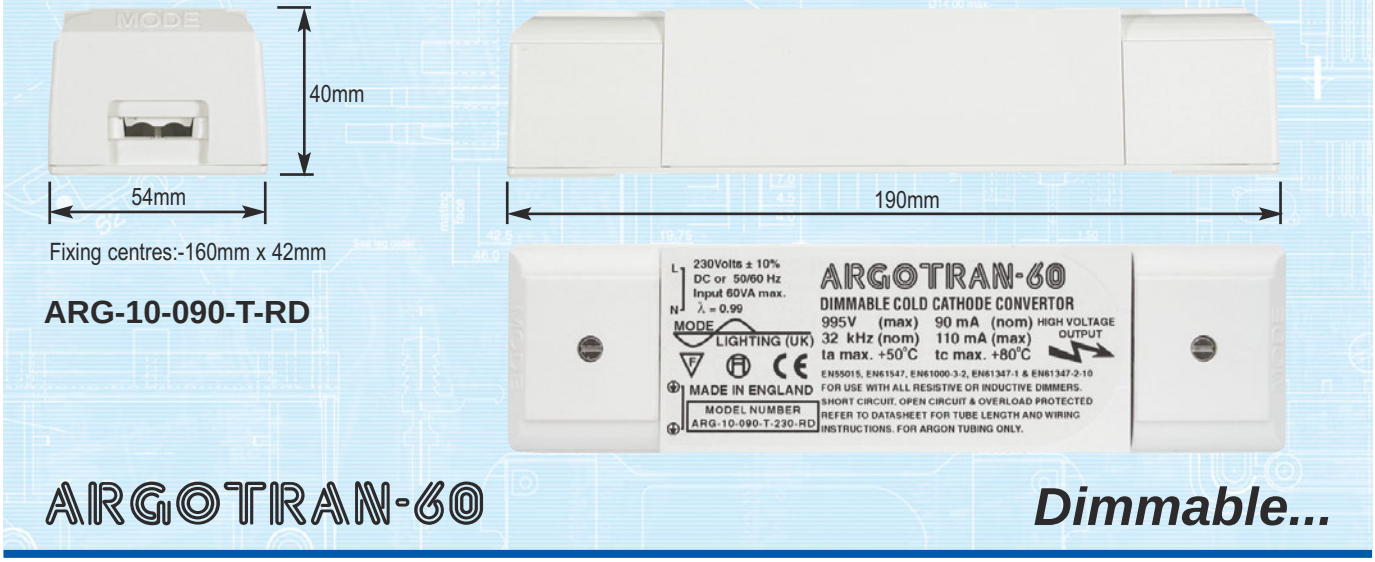
MODE LIGHTING (UK)

Cold Cathode Convertor

ARGOTRAN-60



ARGOTRAN-60

Dimmable...

- Dimmable with all types of dimmer.
- Leading and trailing edge compatible.
- Constant current High Frequency output.
- Designed for use with Argon tubes.
- No minimum length of tubing.
- Open circuit, short circuit and overload protected.
- Lightweight and compact size.
- Terminal covers with cable clamps.
- Complies with EC EMC and Low Voltage Directives (CE).
- Designed to meet EN 61050 and EN 50107/EN61347-2-10 (Draft).
- Mode products are guaranteed for two years.

TECHNICAL DATA		ARG-10-090-T-RD
INPUT	**Voltage** **Power** **Power Factor** **Frequency** **Connection**	* 230 Volts +/-10% (*115 Volts +10% versions available to special order) 60 watts maximum 0.99 DC or 50/60 Hz Screw terminals
OUTPUT	**Voltage** **Current** **S/C Current** **Frequency** **Connection**	995V maximum (low voltage) 90mA nominal 110mA maximum 32kHz Brass terminals
EFFICIENCY		92% typical
REGULATION		5% typical
ISOLATION		4240 volt to EN 60065
TEMPERATURE	**Ambient** **Case**	-20°C to +50°C maximum. +80°C maximum
DIMENSIONS		190mm x 54mm x 40mm
FIXING CENTRES		160mm x 42mm
WEIGHT		250 grammes
PROTECTION	**Open Circuit** **Overload**	Shut down Shut down Short circuit proof
FUSING	**Primary**	Fusible PCB link
EMC EMISSION		EN 55015
EMC IMMUNITY		EN 61547
HARMONICS		EN 61000-3-2
SAFETY		EN 61050 EN 50107 EN 61347-2-10 (Draft)
CASE MATERIAL		Flame retardant to UL94 - V0
CASE COLOUR		White

* 115 Volts ±10% versions available to special order.

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DESCRIPTION

The Mode ARGOTRAN range has been designed specifically to operate argon pumped cold cathode lighting of 18-25mm in diameter.
Generally, the term cold cathode lighting is used to describe concealed lighting in coffers or cornices and is often used as an indirect uplighter. Because the light source is concealed a higher brightness is required, as you are not looking directly at a tube. There are three high output models of ARGOTRAN to choose from, a single lamp unit with a 90mA output, a single lamp unit with an 180mA output and a twin lamp unit with two outputs of 90mA each. All models have an output voltage of less than 1kV and are therefore classified as Low Voltage convertors.
The ARGOTRAN is fully dimmable by all types of leading and trailing edge dimming systems and they have short circuit, open circuit and overload protection. Due to their compact size and lightweight, they are suitable to mount next to the tubing within a coffer or cornice, making the installation very quick and easy.

INSTALLATION INSTRUCTIONS

The ARGOTRAN operates at High Frequency (32kHz) and it is important that the HT lead capacitance is kept to a minimum. Observe the following:-

- Keep all HT leads as short as possible. See maximum cable length chart below.
- Use the correct type of HT cable. Do not use screened HT cable types A, D, or E. For HT wiring use either of these low capacitance cables:

  i) Type B - Silicone with a minimum diameter of 6.5mm

  ii) Type C - 8.0 mm PVC sheathed silicone with a minimum silicone diameter of 6.5 mm.

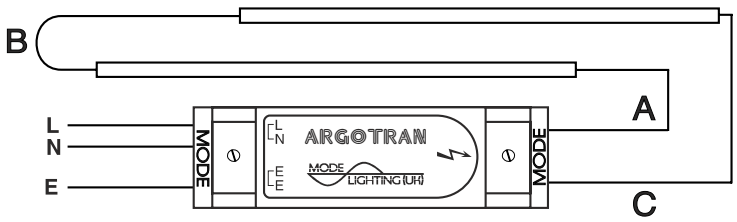
  iii) Type H - 6.5 mm PVC sheathed polyethylene with a minimum polyethylene diameter of 3.0 mm.

- Separate all HT cables and tubes of different circuits by at least 30 mm.
- Observe the maximum total tube length as specified in the loading charts below.

The Mode ARGOTRAN should be mounted in a well ventilated position and should not be covered by insulation materials. It can be safely mounted onto any metal surface. Ensure that all cables are secured by the cable clamps and that the terminal covers are correctly fitted.

Installation should be in accordance with the relevant National Wiring Regulations and other applicable Regulations. Compliance with the EC EMC and Low Voltage Directives may be invalidated if not used or installed according to the published specification.

CONNECTION



H.T. (OUTPUT) CABLE LENGTHS

MAXIMUM CABLE LENGTH: A + B + C (see connection diagram)	
MOUNTING SURFACE	**ARG-10-090-T**
Mounted directly onto Metal. Use only Type C cable.	12m
Mounted directly onto Brick or Concrete	15m
Mounted on 35 mm supports above any surface	30m

LOADING CHARTS (60VA)

All tubes must be connected up to the total maximum tube length as detailed below. All tube lengths are in metres and are measured between electrodes.

MODEL 10-90	ARGON GAS (BLUE)				
	Nº OF TUBES				
ømm	1	2	3	4	5
	Total length (metres)				
25	2.3	2.2	2.1	2.0	1.9
20	2.1	2.0	1.9	1.8	1.7
18	1.8	1.7	1.6	1.5	1.4

CE Complies with EC EMC and Low Voltage Directives.

Independent convertor.

HIGH VOLTAGE OUTPUT High Output Voltage

Mode Lighting (UK) Limited reserve the right without notice to amend the technical information and specifications.