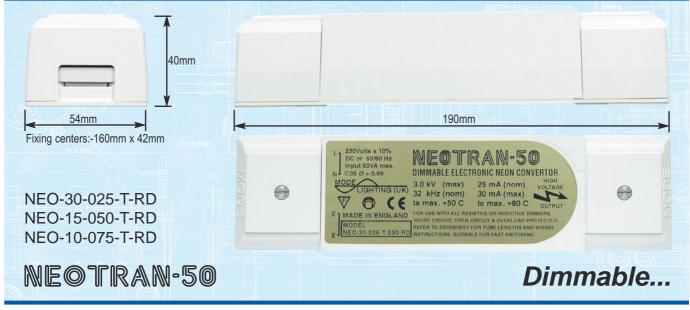
MODE LIGHTING (UK)

Neon Convertors

NEOTRAN-50



- Oimmable with all types of dimmer.
- Onstant current High Frequency output.
- No minimum length of tubing.
- Open circuit, short circuit and overload protected.
- Lightweight and compact size.

- Complies with EC EMC and Low Voltage Directives (CE).
- Designed to meet EN 61050 and EN 50107/EN61347-2-10 (Draft)
- Terminal covers and cable clamps.
- Mode products are guaranteed for two years.

TECHNICA	L DATA	NEO-30-025-T	NEO-15-050-T	NEO-10-075-T				
INPUT	Voltage Power Power Factor Frequency Connection	* 230 Volts +,10% 50 watts maximum 0.99 DC or 50/60 Hz Screw terminals	* 230 Volts +,/10% 50 watts maximum 0.99 DC or 50/60 Hz Screw terminals	* 230 Volts+,/10% 50 watts maximum 0.99 DC or 50/60 Hz Screw terminals				
OUTPUT	Voltage Current S/C Current Frequency Connection	3000V maximum 25mA nominal 30mA maximum 32kHz Brass terminals	1500V maximum 50mA nominal 60mA maximum 32kHz Brass terminals	995V maximum (low voltage) 75mA nominal 90mA maximum 32kHz Brass terminals				
EFFICIENCY		92% typical	92% typical	92% typical				
REGULATION		5% typical	5% typical	5% typical				
ISOLATION		4240 volt to EN 60065	4240 volt to EN 60065	4240 volt to EN 60065				
TEMPERATURE	Ambient Case	-20°C to +50°C maximum. +80°C maximum	-20°C to +50°C maximum. +80°C maximum					
DIMENSIONS		190mm x 54mm x 40mm	190mm x 54mm x 40mm	190mm x 54mm x 40mm				
FIXING CENTRES		160mm x 42mm	160mm x 42mm	160mm x 42mm				
WEIGHT		250 grammes	250 grammes	250 grammes				
PROTECTION	Open Circuit Overload	Shut down Shut down Short circuit proof	Shut down Shut down Short circuit proof	Shut down Shut down Short circuit proof				
FUSING	Primary	Fusible PCB link	Fusible PCB link	Fusible PCB link				
EMC EMISSION		EN 55015	EN 55015	EN 55015				
EMC IMMUNITY		EN 61547	EN 61547	EN 61547				
HARMONICS		EN 61000-3-2	EN 61000-3-2	EN 61000-3-2				
SAFETY		EN 61050 EN 50107 EN 61347-2-10 (Draft)	EN 61050 EN 50107 EN 61347-2-10 (Draft)	EN 61050 EN 50107 EN 61347-2-10 (Draft)				
CASE MATERIAL		Flame retardant to UL94 - V0	Flame retardant to UL94 - V0	Flame retardant to UL94 - V0				
CASE COLOUR		White * 115 Volte	White ±10% versions available to special o	White				

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DESCRIPTION

Mode NEOTRAN High Frequency Electronic Neon and Argon Convertors have unique circuitry for fast flashing and smooth dimming with all types of dimmer. They are an ideal choice for static or animated displays, interior signs, cornice lighting and discotheque lighting. They have a considerable weight and size advantage over similarly rated wirewound transformers.

Under load fault conditions the NEOTRAN will shut down requiring the mains supply to be switched off for ten seconds to reset the convertor.

INSTALLATION INSTRUCTIONS

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

CONNECTION

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

The Mode NEOTRAN 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.

H.T. (OUTPUT) CABLE LENGTHS

MAXIMUM CABLE LENGTH: A + B + C (see connection diagram)										
MOUNTING SURFACE	DIGITRAN 30-025-T-DD	DIGITRAN 15-050-T-DD	DIGITRAN 10-075-T-DD							
Mounted directly onto Metal. Use only type C cable.	4m	8m	12m							
Mounted directly onto Brick or Concrete	5m	10m	15m							
Mounted on 35 mm supports above any surface	10m	20m	30m							

LOADING CHARTS (50VA)

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

MODEL	ARGON GAS (BLUE)						MODEL	ARGON GAS (BLUE)					MODEL	ARGON GAS (BLUE)					
30-025	Nº OF TUBES					15-050	№ OF TUBES				10-075	Nº OF TUBES							
ømm	1	2	3	4	5		ømm	1	2	3	4	5	ømm	1	2	3	4	5	
	Total length (metres)						Тс	Total length (metres)			s)		Total length (metre			es)			
20 18 15 12 10	6.4 5.5 4.6 3.7 3.2	6.1 5.2 4.4 3.5 3.0	5.8 4.9 4.2 3.3 2.8	5.5 4.6 4.0 3.1 2.6	5.2 4.3 3.8 2.9 2.4		20 18 15	3.2 2.8 2.3	3.0 2.6 2.1	2.9 2.5 2.0	2.7 2.4 1.9	2.6 2.3 1.8	25 20 18 15	2.3 2.1 1.8 1.5	2.2 2.0 1.7 1.4	2.1 1.9 1.6 1.3	2.0 1.8 1.5 1.2	1.9 1.7 1.4 1.1	
MODEL	NEON GAS (RED)					MODEL	NEON GAS (RED)				MODEL	NEON GAS (RED)							
30-025	Nº OF TUBES					15-050		N⁰	OF T	UBES		10-075		N⁰	OF TI	JBES			
ømm	1	2	3	4	5		ømm	1	2	3	4	5	ømm	1	2	3	4	5	
	Total length (metres)						Total length (metres)					Total length (metres)							
20 18 15 12 10	5.3 4.5 3.8 3.0 2.7	5.1 4.3 3.6 2.8 2.5	4.9 4.1 3.4 2.6 2.3	4.7 3.9 3.2 2.4 2.1	4.5 3.7 3.0 2.2 1.9		20 18 15	2.7 2.3 1.9	2.6 2.2 1.8	2.5 2.1 1.7	2.4 2.0 1.6	2.3 1.9 1.5	25 20 18 15	1.9 1.8 1.5 1.3	1.8 1.7 1.4 1.2	1.7 1.6 1.3 1.1	1.6 1.5 1.2 1.0	1.5 1.4 1.1 0.9	
CE Complies with EC EMC and Low Voltage Directives.																			