ELECTRONIC BALLASTS
for DIMMER
with control phase dimmer.
Type BEG

ECONOMY

- A wide range of ballasts for use with standard KRYPTON tubes, 26 dia HF ARGON tubes or 4-pin compact fluorescent lamps.
- Significant energy savings : from 35 to 80%.
- Very low ballast unit drop.
- Power factor (0,80).
- Lifetime : 70.000 hours (average) at 50°C at ballast test point Tc. Tc max = 70°C.
- Very high luminous efficiency.
- Current consumption virtually zero when lamp burns out.
- Saving of 30% on the cost of power cabling.
- Sharp reduction of costs for lamp replacement program.
- Very significant savings on airconditioning cost.

SAFETY

- Unaffected by transient power drop-outs.
- Internal protection against ballast shortcircuits.
- Thermal protection with restart automatically. 130
- Self-extinguishing case; can withstand 850°C at incandescent wire.
- For class F luminaires.

COMFORT

- Fast and clean lighting up. Ta = +10°C +50°C.
- Very quiet.

PERFORMANCES

- Performance level meeting EN 60628 standard.
- Shielding meeting EN 55015 standard.
- Un : 230 VAC +/-10 %, 50/60 Hz.
- Lamp life : conforming to IEC 81 (3 hours cycle).
- For protection class I luminaires.

RECOMMANDATIONS

- Use lighting fixtures with good thermal dissipation for better efficiency and longer life. (HF ballast life is reduced by 50% as the temperature at Tc rises by 10°C).
- Ballasts and lighting fixtures should be earthed.
- The ballasts must be integrated into the luminaires.
- In case of assembly the luminaires in discontinous line, shielded screened cable must be used for the ballast-lamp connection outside luminaires.
- Do not use BEG with timer circuits and for frequent lighting up.
- When replacing the BEG ballast, replace all the tubes.
- As a rule, automatic switch-on after defective tubes replacement. Otherwise, turn off the mains supply and restart.
- The gradated phase should be connected to ballast terminal L.
- Do not run mains power supply cables through the lighting fixtures.
- Do not connect different types of ballasts to the same dimmer.
- If a three-phase mains supply is used, make sure that the neutral is ALWAYS connected to the earth or an OVERVOLTAGE condition may occur and dammage the ballast

INSTALLATION

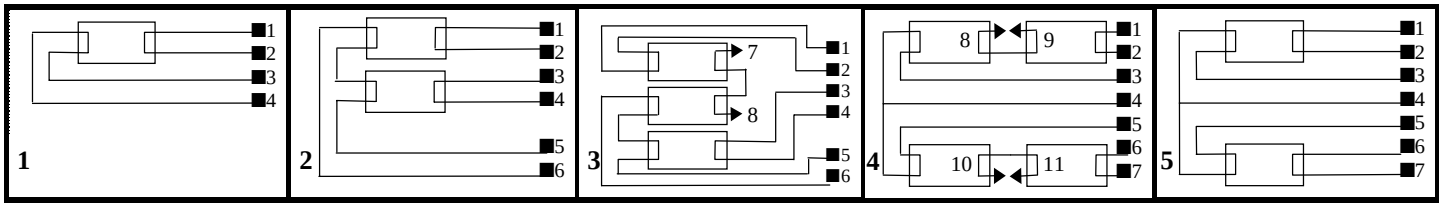
- For good dimming and light stability, a clean mains supply without disturbances is essential.
- Do not use BEG via an inverter.
- Allow new lamps to operate about 100 hours at full flux before using the light dimming control.
- Use dimmers for fluorescence at the lower flux level and observe the preload value recommended by the manufacturer.
- Minimum flux level adjustement should be performed with the tubes or lamps in stable therminal rate (after one hour of operation) and at the desired lower flux level (refer to the electrical characteristics table). Make sure, however, that after the mains supply has been turned off, all the lamps light up at this lower level at restart.
- With some dimmers with 0-10 V control by push- button(s), a physial external cutout device must be provided for the dimmer supply, as soon as the 0% flux rating is reached. This is to prevent the ballasts and lamps from operating in a preheating condition.
- In all cases, check the lamp filament resistance. Poor contact in the lamps or in the ballast lamp circuit will cause premature wear of the lamp electrodes, or even ballast destruction.
- In some places in France, the dimmer control circuit can be periodically disturbed by EDF control signals called “PULSADIS”. These short time (3-4 seconds) disturbances can cause the lamps to flicker. To avoid this, install a pulsadis filter up-stream from dimmer.

ELECTRICAL DATA

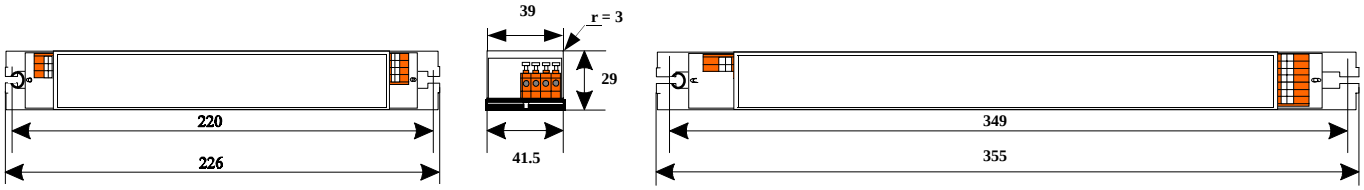
Input voltage 230V, factor power 0.80 at full flux, for Ta = 20°C, with good ground and good lamps.

Tubes Diam.26 T8	Reference ballast	Dimming flux possibility (%)	Mini flux level adjustment (%)	Operating frequency Khz	Lumen factor (%)	Network In (A)	Network P (w)	Mecha-nical data	Wiring diagram
	For fluorescent standard KRYPTON T8 tubes, Dia.26 mm.								
1 X 18	BEG 118	100 % à 10 %	45 %	22 à 29 Khz	96 %	0,11	20	1	1
2 X 18	BEG 218	100 % à 10 %	10 %	21 à 30 Khz	96 %	0,22	40	1	2
3 X 18	BEG 318	100 % à 10 %	10 %	28 à 33 Khz	96 %	0,33	60	1	3
4 X 18	BEG 418	100 % à 10 %	10 %	17 à 25 Khz	96 %	0,42	76	2	4
1 X 36	BEG 136	100 % à 10 %	10 %	21 à 28 Khz	96 %	0,21	38	1	1
2 X 36	BEG 236	100 % à 10 %	10 %	16 à 24 Khz	96 %	0,40	74	2	5
1 X 58	BEG 158	100 % à 10 %	10 %	18 à 27 Khz	96 %	0,31	57	1	1
2 X 58	BEG 258	100 % à 10 %	10 %	17 à 26 Khz	90 %	0,55	104	2	5
	For fluorescent HF ARGON T8 tubes, Dia.26 mm.								
1 X 16 HF	BEG 116 HF	5 % à 100 %	5 %	27 à 31 Khz	100 %	0,11	20	1	1
1 X 32 HF	BEG 132 HF	5 % à 100 %	5 %	22 à 30 Khz	100 %	0,21	36	1	1
1 X 50 HF	BEG 150 HF	5 % à 100 %	5 %	25 à 35 Khz	100 %	0,31	57	1	1
	For fluorescent lamps socket 2G11.								
1 X 36	BEG 136 SE	100 % à 25 %	25 %	20 à 28 Khz	96 %	0,21	38	1	1
2 X 36	BEG 236 SE	100 % à 25 %	25 %	16 à 24 Khz	96 %	0,40	74	2	5
1 X 55	BEG 155 SE	100 % à 25 %	25 %	17 à 27 Khz	96 %	0,31	57	1	1
2 X 55	BEG 255 SE	100 % à 25 %	25 %	17 à 26 Khz	90 %	0,53	101	2	5
	For compact fluorescent lamps socket G(x)24 q-2 or 3								
1 X 18	BEG 118 DE / TE	100 % à 25 %	25 %	26 à 39 Khz	96 %	0,11	20	1	1
1 X 26	BEG 126 DE / TE	100 % à 25 %	25 %	19 à 31 Khz	96 %	0,15	29	1	1
1 X 32	BEG 132 TE	100 % à 25 %	25 %	20 à 27 Khz	100 %	0,21	38	1	1

◊ Wiring diagrams.



◊ Mechanical data.



TYPE 1 : **Weight** approx : 420 gr. Unit pack : 10 pieces.

TYPE 2 : Weight approx : 730 gr. Unit pack : 10 pieces.

(*) " **2-YEAR EXCHANGE WARRANTY** " covers the replacement of returned defective ballasts, with no other compensation, for a period of 2 years.
The following will cancel the warranty :

- Tube operation under conditions not conforming to the international standards, worn or not suitable to the ballast.
- Supply voltage out of tolerances (230 V +/- 10 %).
- Transient overvoltages such as connection between phases, neutral disconnection, or other.
- Ballast operating temperature higher than that shown at test point. Tc max = 70°C.
- Use out of the dimming range.
- Any other abnormal operating conditions.