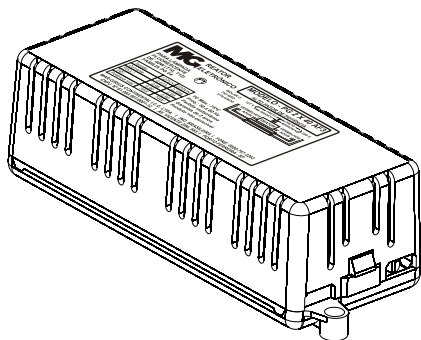




ELECTRONIC BALLASTS

LESS ENERGY: in relation to the conventional ballasts.
MORE LUMINOSITY AND DURABILITY OF THE LAMPS: high efficiency.
ELIMINATION OF FLICKER EFFECT: it operates in high frequency >20 kHz.
HIGH LIFE: two-years warranty.
LESS WEIGHT AND VOLUME: easy and fast installation.
DOES NOT REQUIRE STARTERS.
IN COMPLIANCE WITH ABNT NBR-14417 AND NBR-14418 STANDARDS.
PRODUCED WITH ELECTRONIC COMPONENTS OF HIGH QUALITY.

lighting



STANDARD LINE HIGH FACTOR

- High power factor.
- Luminous flux: 0,9.
- Low THD.
- Independent lamps: the burning of one the lamps does not affect the operation of the other.

Electronic ballasts for tubular fluorescent lamps

Specification	Lamp.	Body	Nominal Voltage	Nominal Current (A)	Power Factor(C)	Total Power(W)	Efficacy Factor	Nominal Frequency of Output(kHz)	Conexion	Size	Starter
PG-1x16 - Bivolt	16W - T8	Plastic	127V 220V	0,172 0,078	0,92 0,94	20 17	4,5 5,3	35 38	Cables	2	Instantaneous
PG-1x32 - Bivolt	32W - T8	Plastic	127V 220V	0,29 0,176	0,97 0,93	35 35	2,57 2,57	37 50	Cables	2	Instantaneous
PG-1x40 - Bivolt	40W - T10/T12	Plastic	127V 220V	0,309 0,181	0,96 0,93	41 41	2,2 2,2	40 54	Cables	2	Instantaneous
PG-2x16 - Bivolt	16W - T8	Plastic	127V 220V	0,285 0,170	0,98 0,94	35 34	2,43 2,72	76 63	Cables	2	Instantaneous
PG-2x20 - Bivolt	20W - T10/T12	Plastic	127V 220V	0,297 0,177	0,97 0,92	40 40	2,25 2,25	37 45	Cables	2	Instantaneous
PG-2x32 - Bivolt	32W - T8	Plastic	127V 220V	0,50 0,30	0,98 0,92	63 62	1,42 1,45	40 45	Cables	2	Instantaneous
PG-2x36/40 - Bivolt	36W - T8 40W - T10/T12	Plastic	127V 220V	0,63 0,36	0,98 0,95	79 77	1,14 1,17	40 55	Cables	3	Instantaneous
PG-2x40 - Bivolt	40W - T10/T12	Plastic	127V 220V	0,57 0,33	0,98 0,95	71 70	1,26 1,28	40 45	Cables	2	Instantaneous

THD: For models PG-1x16, PG-1x32, PG-1x40, PG-2x16, PG-2x20, PG-2x32, PG-2x40, (everyone in 127V) the tax of harmonic distortion (THD) is lower than 10%.

Electronic ballasts for compact fluorescent lamps

Specification	Lamp.	Type of base	Body	Nominal Voltage	Nominal Current (A)	Power Factor (C)	Total Power(W)	Efficacy Factor	Nominal Frequency of Output(kHz)	Size	Starter
PL-1x26 - Bivolt	26W	G24q-3	Plastic	127V 220V	0,228 0,192	0,96 0,92	27 26	3,33 3,46	45 53	2	Instantaneous
PL-2x26 - Bivolt	26W	G24q-3	Plastic	127V 220V	0,430 0,256	0,96 0,92	52 52	1,73 1,73	35 45	2	Instantaneous

- The electronic ballasts for compact lamps only be used in lamps of 4 pins.
- Cable connections.

HIGH OUTPUT LINE

- High power of factor.
- Luminous flux: 0,9.
- Low THD.
- Independent lamps: the burning of one the lamps does not affect the operation of the other.

Electronic ballasts for tubular fluorescent lamps

Specification	Lamp.	Body	Nominal Voltage	Nominal Current (A)	Power Factor (C)	Total Power(W)	Efficacy Factor	Nominal Frequency of Output (kHz)	Size	Starter
PG-1x110 - 220V	110W - T10/T12	Plastic	220V	0,490	0,96	105	0,857	45	3	Instantaneous
PG-1x110 - Bivolt	110W - T10/T12	Plastic	127V 220V	0,840 0,500	0,99 0,96	105	0,857	47 54	3	Instantaneous
PG-2x110 - 220V	110W - T10/T12	Plastic	220V	0,9	0,97	200	0,45	35	4	Instantaneous

ELECTRONIC BALLASTS

STANDARD LINE HIGH POWER FACTOR - T5

- High power factor.
- Low THD (<10%).
- Dependent lamps (auto off): burning one of the lamps causes the other to go out, even if it is not burned.

Electronic ballasts for tubular fluorescent T5 - Metallic Body

Specification	Lamp	Body	Nominal Voltage	Nominal Current (A)	Power Factor (C)	Total Power(W)	Efficacy Factor	Nominal Frequency of Output (kHz)	Conexion	Size	Starter
MG-2x14 - Autovolt	14W	Metallic	100 - 240V	0,266 0,152	0,99	34 34	2,64 2,64	32	Cables	8	Fast
MG-2x28 - Autovolt	28W	Metallic	100 - 240V	0,496 0,293	0,99	64 63	1,40 1,42	35	Cables or Connectors	8	Fast
MG-2x54 - 220V	54W	Metallic	220V	0,54	0,99	117	0,81	35	Cables	8	Fast

Electronic ballasts for tubular fluorescent T5 - Plastic Body

Specification	Lamp	Body	Nominal Voltage	Nominal Current (A)	Power Factor (C)	Total Power(W)	Efficacy Factor	Nominal Frequency of Output (kHz)	Conexion	Size	Starter
PG-2x14 - Autovolt	14W	Plastic	100 - 240V	0,25 0,145	0,96	31	3,06	37,7	Cables	3	Fast
PG-2x28 - Autovolt	28W	Plastic	100 - 240V	0,49 0,29	0,99	62	1,53	36,5	Cables	3	Fast
PG-2x54 - 220V	54W	Plastic	220V	0,52	0,99	114	0,83	45	Cables or Connectors	5	Fast

THD: For models of electronic ballasts for tubular fluorescent T5 the tax of harmonic distorcion (THD) is lower than 10%.

STANDARD LINE AUTO OFF

- High power factor.
- Luminous flux: 0,9.
- Low THD.
- Dependent lamps (auto off): burning one of the lamps causes the other to go out, even if it is not burned.

Electronic ballasts for tubular fluorescent lamps

Specification	Lamp.	Body	Nominal Voltage	Nominal Current (A)	Power Factor (C)	Total Power(W)	Efficacy Factor	Nominal Frequency of Output (kHz)	Size	Starter
SG-2x16 - Bivolt	16W - T8	Plastic	127V 220V	0,264 0,160	0,98 0,94	33	2,72	44	2	Instantaneous
SG-2x20 - Bivolt	20W - T10/T12	Plastic	127V 220V	0,31 0,18	0,99 0,95	41	2,19	40	2	Instantaneous

STANDARD LINE LOW POWER FACTOR

- Low power factor.
- Luminous fux: 0,9.
- Independent lamps: the burning of one the lamps does not affect the operation of the other.

Electronic ballasts for tubular fluorescent lamps

Specification	Lamp	Body	Nominal Voltage	Nominal Current (A)	Power Factor (C)	Total Power(W)	Efficacy Factor	Nominal Frequency of Output (kHz)	Size	Starter
PG-1x4 - Bivolt	4W - T5	Plastic	127V 220V	0,12 0,06	0,40 0,33	6 4,5	15 20	33	1	Fast
PG-1x8 - Bivolt	8W - T5	Plastic	127V 220V	0,18 0,09	0,45 0,41	10 9	9,0 10,0	43	1	Fast
PG-1x10 - Bivolt	10W - T8	Plastic	127V 220V	0,198 0,112	0,49 0,45	12,2 11,2	7,3 8,0	26	1	Instantaneous
PG-1x16 - Bivolt	16W - T8	Plastic	127V 220V	0,29 0,155	0,49 0,46	19,5 18	4,6 5	29	1	Instantaneous
PG-1x20 - Bivolt	20W - T10/T12	Plastic	127V 220V	0,29 0,17	0,55 0,52	22 21	4 4,3	29	1	Instantaneous

Electronic ballasts for compact fluorescent lamps

Specification	Lamp.	Type of base	Body	Nominal Voltage	Nominal Current (A)	Power Factor(C)	Total Power(W)	Efficacy Factor	Nominal Frequency of Output (kHz)	Size	Starter
PL-1x18 - Bivolt	18W	2G11	Plastic	127V 220V	0,31 0,18	0,55 0,51	22 21	4,09 4,29	23 23	1	Instantaneous

- The electronic ballasts for compact lamps only be used in lamps of 4 pins.

Electronic ballasts for circular fluorescent lamps

Specification	Lamp.	Type of base	Body	Nominal Voltage	Nominal Current (A)	Power Factor (C)	Total Power(W)	Efficacy Factor	Nominal Frequency of Output (kHz)	Size	Starter
FC-1x22 - Bivolt	22W	G10q	Plastic	127V 220V	0,32 0,19	0,55 0,51	23,5 22	3,8 4,1	23 23	1	Instantaneous

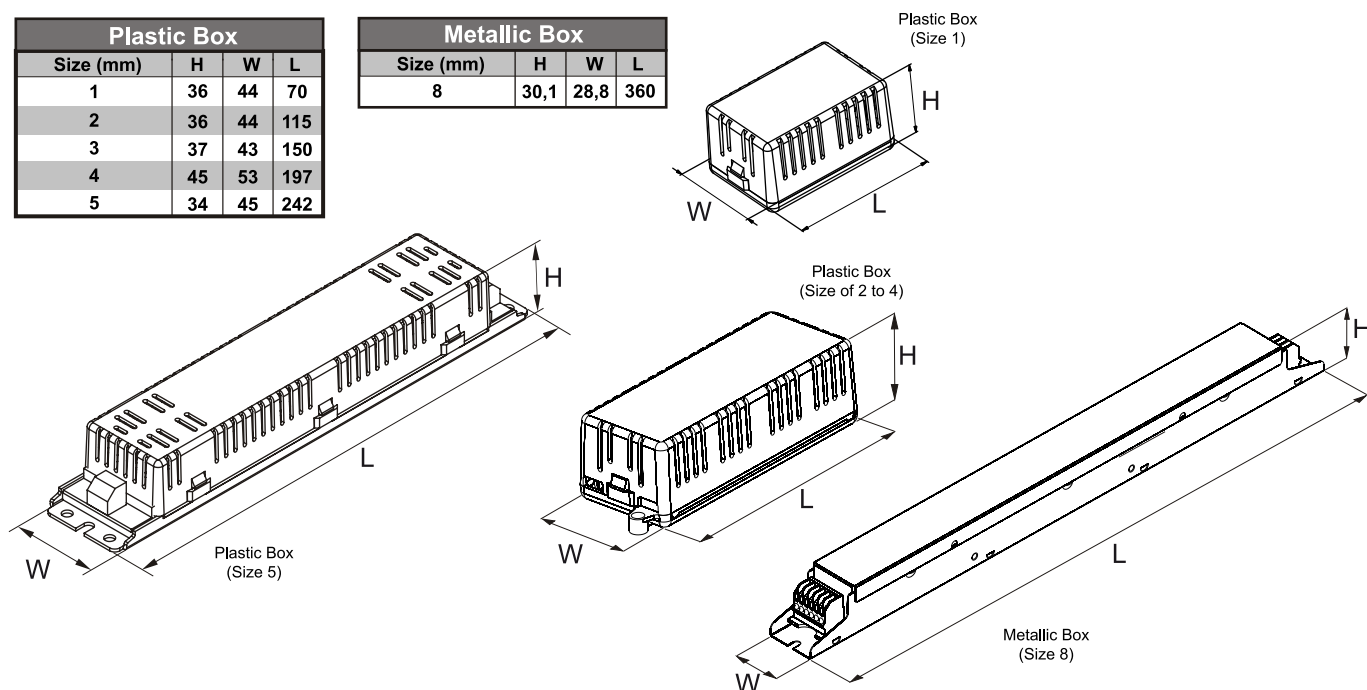
- The ballasts for circular lamps are supplied with sockets for connection.

ELECTRONIC BALLASTS

DIMENSIONS

Plastic Box			
Size (mm)	H	W	L
1	36	44	70
2	36	44	115
3	37	43	150
4	45	53	197
5	34	45	242

Metallic Box			
Size (mm)	H	W	L
8	30,1	28,8	360



WIRING*

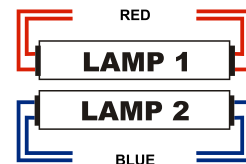


You must insulate the wire which has not been used

Connection for 1 lamp



Connection for 2 lamps



* The wiring show the instalations more commun in ballasts. For specific wirings take a look on the product body.

POWER FACTOR

BF – Low Factor (<0,92)

AF – High Factor (>0,92)

VOLTAGE

1 - 127VAC

2 - 220VAC

3 - Bivolt (127 or 220VAC)

6 - Autovolt (100 to 240VAC)

BODY

M - Metallic

P - Plastic

PACKAGE

G - Bulk (colective box)

P - Plastic

SELECTION GUIDE

Model	power factor	voltage	body	package
BF	BF	1	M	P
AF	AF	2	P	G
		3		
		6		

Note:

- Environment temperature: 10 to 50°C.
- Maximum temperature on the framework: 75°C
- The protection against accidental contact (electrical discharge) with live parts of the ballast don't depend on the cover of luminaire housing.
- Bivolt - It can be used in 127V with the black and white cables and 220V with the black and brown cables, according to the diagram connection marked on the body of electronic ballast.
- Electronic ballasts in which a sum of lamps power is greater than 25W, are available only in the high power factor version.
- Connections through wire clamps to rigid cables of 0,5 to 1,5mm² with stripped end from 7,5 to 8,5mm.
- For other options contact us.