



# Product Description

## HF-Regulator II for PL-L lamps

Flat, lightweight high-frequency electronic regulating ballast, using 1-10V protocol for PL-L fluorescent lamps

### Benefits

- High quality dimming ballast, compliant to existing and upcoming legislation (NEN, ENEC, CE..)
- HF operation improves light quality; lamp life time and combined with controls additional energy savings can be achieved
- Via the Analog control input (according to the 1-10V industry standard), the lamp power can be regulated from 1 to 100%

### Features

- Quick programmed start: 0.5 s, flicker-free warm start by preheating the lamp electrodes enables the lamps to be switched on and off without reducing useful life. Ideal for areas with a high switching frequency
- Smart power ensures constant light, independent of mains fluctuations
- Philips HF-Regulator EII gear is equipped with Extended Cable Flexibility (ECF) Technology. ECF Technology is based on a dedicated integrated circuit that ensures independent control of lamps, and in doing so takes care that:
  - Up to 60% reduction in energy consumption by using automatic lighting control systems
  - Flat ballast design, 22 mm high, equipped with WAGO 251 connectors suitable for automatic wiring
  - Protected against excessive mains voltages, incorrect connections and incorrect lamp use
  - Striation-free operation, no stroboscopic effects
  - Stop circuit is activated within 5 s in case of lamp failure (safety stop)
  - Ballast resets automatically after lamp replacement

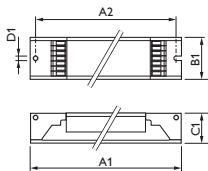
### Application

- 1-10V installations with daylight linking and/or movement detection (for energy savings)
- 1-10V installations with remote control systems (combining energy savings with comfort)
- Installations with emergency back-up, according to IEC 60598-2-22

Related products



Dimensional drawing



Product	A1 (Norm)	A2 (Norm)	B1 (Norm)	C1 (Norm)	D1 (Norm)
HF-R 136 PL-L EII 220-240V 50/60Hz	360	350	30	22	4.2
HF-R 236 PL-L EII 220-240V 50/60Hz	360	350	30	22	4.2
HF-R 224 TL5/PL-L EII 220-240V 50/60Hz	359	350	30	22	4.2

Compare table

Order code	Full product name	Interface	Rated Number of Lamps	Housing	Rated Lamptype	Application code	Line Voltage	Line Frequency	Rated Ballast-Lamp Power	Energy Efficiency Index
913700619966	HF-R 136 PL-L EII 220-240V 50/60Hz	1-10V	1	L 360x30x21	PL-L	EII	220-240	50/60	36	A1
913700620066	HF-R 236 PL-L EII 220-240V 50/60Hz	1-10V	2	L 360x30x21	PL-L	EII	220-240	50/60	36	A1
913700633166	HF-R 224 TL5/PL-L EII 220-240V 50/60Hz	1-10V	2	L 359x30x22	TL5/PL-L	EII	220-240	50/60	24	A1



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