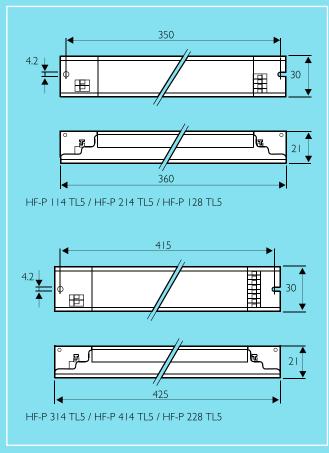
Electronics: TL5 Lamps



HF-P (Flat) TL5 EII





Dimensions in mm

HF-PERFORMER (Flat) TL5 EII

Light weight, high frequency electronic ballasts for TL5 fluorescent lamps.

Features and Benefits

- The combination of HF-PERFORMER and TL5 lamps offers opportunities for miniaturisation and reduces cost of ownership, thanks to the limited dimensions and high system efficacy
- Warm start circuit enables the lamps to be switched on and off without reducing useful life
- Low energy consumption
- Unit is protected against excessive mains voltages and incorrect connections with uniform light independent of mains voltage fluctuations
- Automatic stop circuit is activated within five seconds in case of lamp failure (safety stop); once the lamp has been replaced, the ballast resets automatically.

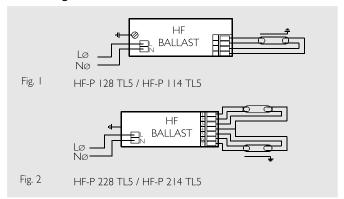
Applications

- Departmental stores, shops, supermarkets
- Suitable for use with infrared remote control systems
- · Airports, railway stations
- Office buildings, hospitals, hotels
- Emergency installations with VDE 0108 with re-ignition < 0.5s
- Suitable for use with infrared remote control systems.

Installation

• Connection wiring is greatly simplified by the use of insert contacts.

Circuit Diagram



Compliances and Approvals

RFI < 30 Mhz EN 55015
RFI > 30MHz EN 55022 A
Harmonics EN 61000-3-2
Immunity EN 61547
Safety EN 61 347-2-3
Performance EN 60 929-IE

Vibration and bump tests IEC 68-2-6 FC IEC 68-2-29 Eb

Quality standard ISO 9000-2000
Environmental standard ISO 1400 I
Approval marks ENEC
VDE-EMV

CE marking

Temperature declared thermally

IEC 61347-1

protected



Fluorescent Electronic Ballasts HF-PERFORMER (Flat)

Technical Data

Ballast	Qty. of	Lamp	System	Input	Lamp	Ballast	Power	EEI
	Lamps	Туре	Power	Current	Power	Losses	Factor	
			W	Α	W		W	
HF-P I 14-35 TL5 HE EII	1	TL5 HE 14 W	18	0.08	15	2.6	0.91	A2
HF-P 2 14-35 TL5 HE EII	2	TL5 HE 14 W	32	0.15	15	2.8	0.95	A2
HF-P I 14-35 TL5 HE EII	1	TL5 HE 28 W	33	0.15	30	3.5	0.98	A2
HF-P 2 14-35 TL5 HE EII	2	TL5 HE 28 W	62	0.27	29	5.0	0.99	A2

Ordering Data

Ballast	Weight Net	Qty. per Box	Dimensions I x w x h	Volume	Weight Gross
	kg.		mm	m³	kg.
HF-P I 14-35 TL5 HE EII	0.25	12	$408 \times 208 \times 87$	0.0074	3.3
HF-P 2 14-35 TL5 HE EII	0.31	12	462 × 208 × 87	0.0090	4.0

Technical Data for Installation

Mains operation 220 - 240 V Rated mains voltage (230 - 240 V)* with tolerances for safety $\pm 10\%$ 198 - 264 V (207 - 264 V)* with tolerances for performance +6% -8% 202 - 254 V (212 - 254 V)* Mains frequency 50/60 Hz Operating frequency 24 - 31 kHz (33 - 43 kHz)** Power factor 0.93 typical (0.93 typical)**

DC voltage operation during emergency back-up

Required battery voltage for

198 - 254 V guaranteed ignition 176 - 254 V Required battery voltage for burning lamps

Earth leakage current

Ignition time

Constant light operation

Dual fixture; master-slave operation

Lamp wiring for HF-P 128 TL5

Overvoltage protection

Automatic restart after lamp replacement or voltage dip

Insulation resistance test

Note: Ensure that the Neutral is reconnected again after abovementioned test is carried out and before the installation is put into operation.

*Values for 2 x 14 W

<0.5 mA per ballast In case of mains voltage fluctuations within 202 - 254 V, the luminous flux changes by a maximum of ± 2% (not applicable to $2 \times 14 \text{ W}$)

Not advisable

It is advised to use 500 V

rated Components with HF

Performer TL5 48 hrs. at 320 VAC 2 hrs. at 350 VAC $(2 \times 14 \text{ W: ballast})$ switches off at 320 V without damages;

higher voltages will damage the ballast)

Yes: tested with a dip down to 30% with a duration of

10 mains cycles 500 V DC from Line/Neutral to Earth (not between Line and

Neutral)

