



HF-Regulator II for TL5 lamps – Dimming: a next step in energy saving

HF-Regulator II for TL5 lamps

High-frequency electronic dimming ballast, using the analog protocol (1-10 V) for TL5 HE/HO and TL5 Eco lamps

Benefits

- The lamp power can be dimmed from 1 to 100% via the Analog control input (in accordance with the 1-10 V industry standard)
- Compliant with European and Asian norms and suitable for emergency lighting systems
- HF operation improves light quality, lamp lifetime
- Combined with controls, additional energy savings can be achieved

Features

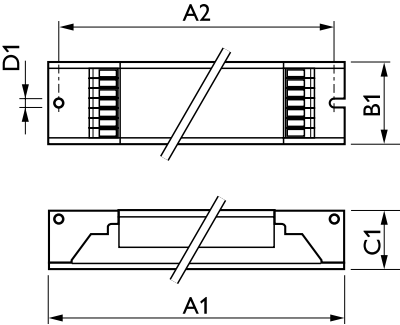
- Programmed start: flicker-free ignition < 0.5 seconds and striation-free operation, no stroboscopic effects. Preheating the lamp electrodes enables the lamps to be switched on and off without reducing life
- Smart power ensures constant light, independent of mains fluctuations
- Up to 60% reduction in energy consumption by using automatic lighting control systems
- Stop circuit is activated within 5 seconds in the event of lamp failure (safety stop), and ballast resets automatically after lamp replacement

Application

- Indoor, general and task lighting applications in combination with lighting control systems (personal control, daylight linking and/or movement detection)

HF-Regulator II for TL5 lamps

Dimensional drawing



| Product | D1 | C1 | A1 | A2 | B1 |
|--|--------|-------|--------|--------|-------|
| HF-R 149 TL5 EII 220-240V 50/60Hz | 4.2 mm | 22 mm | 360 mm | 350 mm | 30 mm |
| HF-R 249 TL5 EII 220-240V 50/60Hz | 4.2 mm | 22 mm | 360 mm | 350 mm | 30 mm |
| HF-R 280 TL5/PL-L EII 220-240V 50/60Hz | 4.2 mm | 22 mm | 425 mm | 415 mm | 30 mm |
| HF-R 414 TL5 EII 220-240V 50/60Hz | 4.2 mm | 22 mm | 359 mm | 350 mm | 39 mm |
| HF-R 424 TL5/PL-L EII 220-240V 50/60Hz | 4.2 mm | 22 mm | 359 mm | 350 mm | 39 mm |
| HF-R 2 14-35 TL5 EII 220-240V 50/60Hz | 4.2 mm | 22 mm | 360 mm | 350 mm | 30 mm |
| HF-R 1 14-35 TL5 EII 220-240V 50/60Hz | 4.2 mm | 22 mm | 360 mm | 350 mm | 30 mm |
| HF-R 139 TL5 EII 220-240V 50/60Hz | 4.2 mm | 22 mm | 359 mm | 350 mm | 30 mm |
| HF-R 239 TL5 EII 220-240V 50/60Hz | 4.2 mm | 22 mm | 359 mm | 350 mm | 30 mm |

| Approval and application | |
|--------------------------|--------------|
| Energy Efficiency Index | A1 BAT |
| Operating and electrical | |
| Input Frequency | 50 to 60 Hz |
| Input Voltage | 220 to 240 V |
| General information | |
| Lamp Type | TL5 |
| Mechanical and housing | |
| Housing | L 360x30x21 |

General information

| Order Code | Full Product Name | Number Of Products On MCB (16A Type B) (Nom) | Number Of Lamps |
|------------|-----------------------------------|--|-----------------|
| 90998530 | HF-R 149 TL5 EII 220-240V 50/60Hz | 28 | 1 piece/unit |
| 91003530 | HF-R 249 TL5 EII 220-240V 50/60Hz | 12 | 2 piece/unit |

| Order Code | Full Product Name | Number Of Products On MCB (16A Type B) (Nom) | Number Of Lamps |
|------------|---------------------------------------|--|-----------------|
| 91178030 | HF-R 2 14-35 TL5 EII 220-240V 50/60Hz | 12 | 2 piece/unit |
| 91180330 | HF-R 1 14-35 TL5 EII 220-240V 50/60Hz | 28 | 1 piece/unit |

System characteristics

| Order Code | Full Product Name | Rated Ballast-Lamp Power |
|------------|-----------------------------------|--------------------------|
| 90998530 | HF-R 149 TL5 EII 220-240V 50/60Hz | 49 W |
| 91003530 | HF-R 249 TL5 EII 220-240V 50/60Hz | 49 W |

| Order Code | Full Product Name | Rated Ballast-Lamp Power |
|------------|---------------------------------------|--------------------------|
| 91178030 | HF-R 2 14-35 TL5 EII 220-240V 50/60Hz | 14-35 W |
| 91180330 | HF-R 1 14-35 TL5 EII 220-240V 50/60Hz | 14-35 W |

HF-Regulator II for TL5 lamps

