



HF-Essential II for TL5 and TL-D

HF-Essential II for TL5/TL-D

Essentially smart and reliable HF-Essential II is the most cost-effective solution for reliable operation of a fluorescent lamp. It is also the ideal entry-level product for electromagnetic system users who want to take advantage of the benefits provided by electronic ballasts. The cost-saving and reliable HF-Essential II is energy efficiency class A2, and its robust design meets all relevant international safety and performance standards. HF-Essential II is the ideal choice for a broad range of new construction and retrofit applications within the commercial sector, including general surface mounting and office lighting, parking garages, warehouses and other applications. The ballast is primarily designed for Indoor application. For outdoor application, the luminaire should be minimum Class II and need to be sufficiently protected against water & dust. The installation should also be guard against any lightning surge or any other necessary electrical protection as deemed in such typical installation & application.

Benefits

- Average nominal service lifetime over 45,000 hours (at Ta 50 °C)
- Optimized lamp preheating for min. 25,000 on/off switch operations without replacement of lamps
- Has CE, KEMA, CCC marks of conformity

Features

- Multi-power technology for precision operation of multiple lamp types of various wattages
- Mono/Dual function: operation with 1 or 2 lamps
- Maximum reliability in system operation

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Application

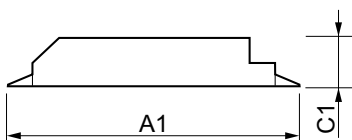
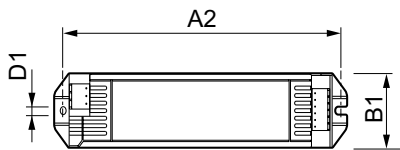
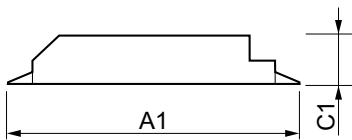
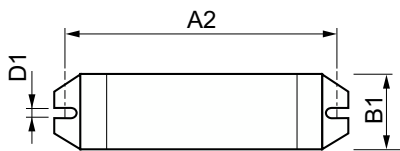
- Suitable for DC operation and emergency lighting installations
- Extended lamp life in frequent- switching applications without replacement of lamps, e.g. where occupancy sensors or motion detectors are used with 15 switches per day
- For luminaires of protection class I and protection class II used in office buildings, hospitals, supermarkets, department stores, and schools

Versions



HF-E 1/2 49 TL5 II 220-240V 50/60Hz

Dimensional drawing



| Product | D1 | C1 | A1 | A2 | B1 |
|-------------------------------------|--------|---------|----------|----------|---------|
| HF-E II 418 TL-D 220-240V 50/60Hz | 4.2 mm | 28.7 mm | 211.0 mm | 198.0 mm | 39.6 mm |
| HF-E 1/2 54 TL5 II 220-240V 50/60Hz | 4.2 mm | 22.7 mm | 280.0 mm | 270.0 mm | 30.0 mm |
| HF-E II 136 TL-D 220-240V 50/60Hz | 4.2 mm | 28.0 mm | 150.0 mm | 138.0 mm | 39.6 mm |
| HF-E II 236 TL-D 220-240V 50/60Hz | 4.2 mm | 28.7 mm | 211.0 mm | 198.0 mm | 39.6 mm |

| Product | D1 | C1 | A1 | A2 | B1 |
|--------------------------------------|--------|---------|----------|----------|---------|
| HF-E 1/2 58 TL-D II 220-240V 50/60Hz | 4.2 mm | 28.7 mm | 211.0 mm | 198.0 mm | 40.0 mm |

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Approval and application

Energy Efficiency Index A2

Operating and electrical

Input Frequency 50 to 60 Hz

Input Voltage 220 to 240 V

Emergency operation

Emergency Ballast Lumen Factor (EBLF) (Nom) 100 %

General information

| Order Code | Full Product Name | Number Of Products On MCB (16A Type B) | | Lamp Type |
|--------------|---|--|-----------------|-----------|
| | | (Nom) | Number Of Lamps | |
| 913713040866 | HF-E 1/2 54 TL5 II 220-240V 50/60Hz | 20 | 1/2 piece/unit | TL5 II |
| 913713040966 | HF-E 1/2 58 TL-D II 220-240V 50/60Hz | 20 | 1/2 piece/unit | TL-D II |
| 913713041066 | HF-E II 136 TL-D 220-240V 50/60Hz | 20 | 1/2 piece/unit | TL-D II |

| Order Code | Full Product Name | Number Of Products On MCB (16A Type B) | | Lamp Type |
|--------------|--------------------------------------|--|-----------------|-----------|
| | | (Nom) | Number Of Lamps | |
| 913713041166 | HF-E II 236 TL-D 220-240V 50/60Hz | 16 | 2 piece/unit | TL-D II |
| 913713041266 | HF-E II 418 TL-D 220-240V 50/60Hz | 16 | 4 piece/unit | TL-D II |

Mechanical and housing

| Order Code | Full Product Name | Housing |
|--------------|--------------------------------------|---------------|
| 913713040866 | HF-E 1/2 54 TL5 II 220-240V 50/60Hz | L280x30x22,7 |
| 913713040966 | HF-E 1/2 58 TL-D II 220-240V 50/60Hz | L 211x40x28,7 |
| 913713041066 | HF-E II 136 TL-D 220-240V 50/60Hz | L 150x40x28 |

| Order Code | Full Product Name | Housing |
|--------------|-----------------------------------|---------------|
| 913713041166 | HF-E II 236 TL-D 220-240V 50/60Hz | L 211x40x28,7 |
| 913713041266 | HF-E II 418 TL-D 220-240V 50/60Hz | L 211x40x28,7 |

System characteristics

| Order Code | Full Product Name | Lamp Power On TL5 | Lamp Power On TL-D | Rated Ballast- |
|--------------|--------------------------------------|--------------------|--------------------|----------------|
| | | | | Lamp Power |
| 913713040866 | HF-E 1/2 54 TL5 II 220-240V 50/60Hz | 53.3-47.75-47.91 W | - | 54/55/58 W |
| 913713040966 | HF-E 1/2 58 TL-D II 220-240V 50/60Hz | - | 49.1-48.42-54.42 W | 58/55 W |
| 913713041066 | HF-E II 136 TL-D 220-240V 50/60Hz | - | 29.84 W | 36/18 W |

| Order Code | Full Product Name | Lamp Power On TL5 | Lamp Power On TL-D | Rated Ballast- |
|--------------|-----------------------------------|-------------------|-----------------------|----------------|
| | | | | Lamp Power |
| 913713041166 | HF-E II 236 TL-D 220-240V 50/60Hz | - | 30.07/29.95 W | 36 W |
| 913713041266 | HF-E II 418 TL-D 220-240V 50/60Hz | - | 14.5/14.6/14.5/14.4 W | 18 W |

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