



# HF-Essential for TL5/TL-D

## HF-E 236 TL-D 220-240 50/60Hz

Essentially smart and reliable. HF-Essential is the most cost-effective, slim and affordable ballast to reliably operate a fluorescent lamp. It is also the ideal entry-level product for EM system users who want to enjoy the benefits offered by electronic ballasts. The cost-saving and reliable HF-Essential has an energy efficiency class A2, and its robust design meets all relevant international safety and performance standards. HF-Essential is intended for use with indoor lighting fixtures such as recessed luminaires, which are largely used in office, industrial, hotel, restaurant and other applications. The ballast is primarily designed for Indoor application. For outdoor application, the luminaire should be minimum Classland need to be sufficiently protected against water & dust. The installation should also be guard against any lightening surge or any other necessary electrical protection as deemed in such typical installation & application.

### Product data

| Operating and Electrical        |              |
|---------------------------------|--------------|
| Input Voltage                   | 220 to 240 V |
| Line Frequency                  | 50 to 60 Hz  |
| Input Frequency                 | 50 to 60 Hz  |
| Earth Leakage Current (Max)     | 0.5 mA       |
| Inrush Current Width            | 0.37 ms      |
| Inrush Current Peak (Max)       | 20 A         |
| Wiring                          |              |
| Connector Type Input Terminals  | Insert       |
| Connector Type Output Terminals | Insert       |

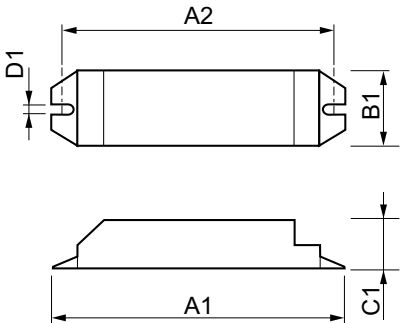
| Temperature              |                                                                                      |
|--------------------------|--------------------------------------------------------------------------------------|
| T-Case Lifetime (Nom)    | 75 °C                                                                                |
| T-Case Maximum (Max)     | 75 °C                                                                                |
| Mechanical and Housing   |                                                                                      |
| Housing                  | L211x40x30                                                                           |
| Ingress protection code  | IP20 [Finger-protected]                                                              |
| Net Weight (Piece)       | 0.100 kg                                                                             |
| Approval and Application |                                                                                      |
| Energy Efficiency Index  | A2                                                                                   |
| Approval Marks           | CE marking C-Tick certificate CB Certificate KEMA<br>Keur certificate RoHS Compliant |

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|                           |                               |
|---------------------------|-------------------------------|
| Ambient temperature range | -10 °C to 50 °C               |
| Product Data              |                               |
| Order product name        | HF-E 236 TL-D 220-240 50/60Hz |
| Full product name         | HF-E 236 TL-D 220-240 50/60Hz |
| Full product code         | 871829166873200               |
| Order code                | 913713039166                  |

|                                 |               |
|---------------------------------|---------------|
| Material Nr. (12NC)             | 913713039166  |
| Numerator - Quantity Per Pack   | 1             |
| EAN/UPC - Product/Case          | 8718291668732 |
| Numerator - Packs per outer box | 20            |
| EAN/UPC - Case                  | 8718291668749 |

Dimensional drawing



| Product                       | D1     | C1      | A1       | A2       | B1      |
|-------------------------------|--------|---------|----------|----------|---------|
| HF-E 236 TL-D 220-240 50/60Hz | 4.2 mm | 30.0 mm | 211.0 mm | 197.0 mm | 40.0 mm |

