



# HF-Essential for TL5/TL-D

## HF-E 228 TL5 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.

### Product data

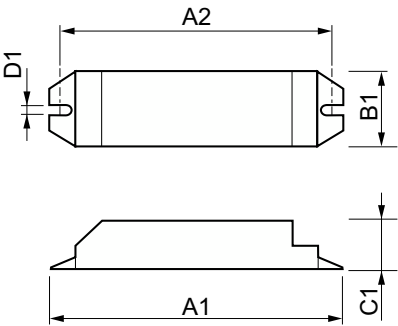
Operating and Electrical	
Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Input Frequency	50 to 60 Hz
Earth Leakage Current (Max)	0.5 mA
Inrush Current Width	0.35 ms
Inrush Current Peak (Max)	20 A
Wiring	
Connector Type Input Terminals	Insert
Connector Type Output Terminals	Insert
Temperature	
Ambient temperature range	0 °C to 50 °C
T-Case Lifetime (Nom)	75 °C
T-Case Maximum (Max)	75 °C

Mechanical and Housing	
Housing	L 275x29.6x25.5
Approval and Application	
Ingress protection code	IP20 [Finger-protected]
Energy Efficiency Index	A2
Approval Marks	CE marking C-Tick certificate CB Certificate KEMA Keur certificate ISO9001 RoHS Compliant
Product Data	
Order product name	HF-E 228 TL5 220-240 50/60Hz
Full product name	HF-E 228 TL5 220-240 50/60Hz
Full product code	871829166887900
Order code	66887900
Material Nr. (12NC)	913713039766
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718291668879

HF-Essential for TL5/TL-D

Numerator - Packs per outer box	20
EAN/UPC - Case	8718291668886

Dimensional drawing



Product	D1	C1	A1	A2	B1
HF-E 228 TL5 220-240 50/60Hz	4.2 mm	25.5 mm	275.0 mm	263.0 mm	29.6 mm

