



HF-Selectalume II for TL5 lamps

HF-S 221-28 TL5 II 220-240V 50/60Hz

HF-Selectalume II TL5 is the most cost-effective, reliable and outstanding solution for fluorescent lamps. These ballasts are part of an overall high-efficiency lighting system that may help you or your customers to achieve any international or local energy code you need to comply with. HF-Selectalume II TL5 ballasts are the ideal choice for a broad range of new construction and retrofit applications within the commercial sector, including general surface mounting or office lighting, parking garages, warehouses, waterproof and other applications.

Product data

• General Characteristics

Application code	II
Rated Lamptype	TL5
Rated Number of Lamps	2 piece
Rated Ballast-Lamp Power	21-28
Line Voltage	220-240 V
Line Frequency	50/60 Hz
Housing	L 280x30x21.5
Energy Efficiency Index	A2
Lifetime 90% surv.@Tcaselife	50000 hr

• Operating Characteristics

Automatic restart	Yes
Preheat time	1.3 s
Operating frequency *	40-60 kHz
Mains voltage safety (AC)	198-264V -10%/+10%
Mains voltage performance (AC)	202-233V +6%-8%
Inrush current Peak	20 (max) A
Inrush current Width	0.25 ms
Earth leakage current	0.5 (max) mA
Power losses gear	5.7-7.5 W
Ballast Lumen Factor	1.03 -
PowerFactor 100% output power	0.98 -
Overvoltage protection 320Vac	48 hr
Overvoltage protection 350Vac	2 hr
Crestfactor	1.7 -

Hum and Noise level < 30 dB(A)

• Wiring Characteristics

Cable-Cap output-wires mutual	200 (max) pF
Conn.type input terminals	WAGO 744 connector
Conn.type output terminals	WAGO 744 connector [Suitable for manual wiring]
Max. cable length	0.75 m
Hot Wires	
Striplength	8.0 mm
Dual fixture Master/Slave	Possible, lamp wires 2m max. length [Master/Slave operation possible]
Wcs Input terminals	0.50-1.50 mm ²
Wcs Output terminals	0.50-1.50 mm ²
Cable-Cap hot output-wires-earth	120 (max) pF
Cable-Cap cold output-wires-earth	200 (max) pF

• System Chars on driver level

Rated Lamp Power on TL5	21/28
System Power on TL5	47.3/62.4
Lamp Power on TL5	41.6/54.9
Power Loss on TL5	5.7/7.5

• Temperature Characteristics

F-marking	Yes
T-case life	75 C
T-case maximum	75 (max) C

PHILIPS

HF-Selectalume II for TL5 lamps

T-ambient -15 (min), 50 (max) C
 T-storage -40 (min), 80 (max) C

• Emergency Characteristics

Bal Lm Fac Emer- 0.7 -
 gency operation
 Light output after 5 50% of EBLF
 sec
 Light output after 60 100% of EBLF
 sec
 Normal operating 220-240 V
 voltage (DC)
 Batt volt guaranteed 186-275 V
 ignition
 Batt volt guaranteed 176-275 V
 operation

• Product Dimensions

Length A1 280 mm
 Fixing Hole Distance 265 mm
 Length A2
 Width B1 30 mm
 Height C1 21.5 mm
 Fixing Hole Diameter 4.2 mm
 D1

• Approval & Application Chars

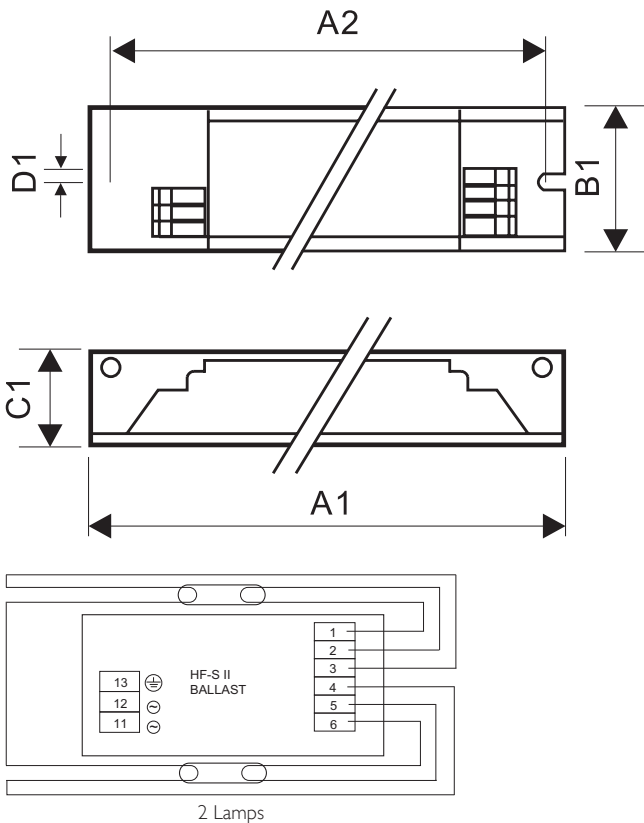
EMI 9kHz .. 30 MHz EN 55015

Vibrations IEC 68-2-6 Fc
 Bumps IEC 68-2-29 Eb (10G/16ms)
 Approval marks CE / CCC / ENEC / VDE-EMV
 CE marking Yes
 ENEC certificate Yes
 C-Tick certificate Yes
 CCC certificate Yes
 PSB certification Yes
 TISI marking Yes
 SIRIM approval Yes
 CB Certificate Yes

• Product Data

Order code 913713033166
 Full product code 913713033166
 Full product name HF-S 221-28 TL5 II 220-240V
 50/60Hz
 Order product name HF-S 221-28 TL5 II 220-240V
 50/60Hz
 Pieces per pack 1
 Packing configuration 12
 Packs per outerbox 12
 Bar code on pack - 8711500998682
 EAN1
 Bar code on 8727900883336
 outerbox - EAN3
 Logistic code(s) - 913713033166
 12NC
 Net weight per piece 0.194 kg

Dimensional drawing



HF-S 221-28 TL5 II 220-240V 50/60Hz

Product	A1 (Norm)	A2 (Norm)	B1 (Norm)	C1 (Norm)	D1 (Norm)
HF-S 221-28 TL5 II 220-240V 50/60Hz	280	265	30	21.5	4.2

Ballast type

HF-S 22 I-28 TL5 II 220-240V 50/60Hz



© 2015 Koninklijke Philips N.V. (Royal Philips)
All rights reserved.

Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips N.V. (Royal Philips) or their respective owners.

www.philips.com/lighting

2015, August 29
data subject to change