



HF-Regulator Intelligent Touch and Dali for TL5 lamps

HF-Ri TD 1 14/21/24/39 TL5 E+

Intelligent, flat, lightweight high-frequency electronic regulating ballast, using DALI (Digital Addressable Lighting Interface) or Touch and Dim push-button protocol for TL5 fluorescent lamps.

Product data

• Product Data

Order code	913700670866
Full product code	913700670866
Full product name	HF-Ri TD 1 14/21/24/39 TL5 E+
Order product name	HF-Ri TD 1 14/21/24/39 TL5 E+
Pieces per pack	1
Packing configuration	12
Packs per outerbox	12
Bar code on pack - EAN1	8718291113218
Bar code on outerbox - EAN3	8718291113225
Logistic code(s) - 12NC	913700670866
Net weight per piece	0.259 kg

• General Characteristics

Interface	TD
Rated Number of Lamps	1 piece
Rated Ballast-Lamp Power	14/21/24/39
Rated Lamptype	TL5
Application code	E+
Line Voltage	195-240 V
Line Frequency	50/60 Hz
Housing	L 359x30x21
Ignition Method	Warm Start
Lifetime 90% surv.@Tcaselife	50000 hr
Energy Efficiency Index	A1 BAT

• Operating Characteristics

Automatic restart	Yes
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Battery voltage running lamps	176-254
Battery voltage lamp ignition	198-254 V
Control input protection	Yes
Inrush current Peak	16.5 A
Inrush current Width	0.23 ms
Mains voltage safety (AC)	-10%/+10%
Mains voltage performance (AC)	-8%/+6%
Overvoltage protection 320Vac	48 hr
Overvoltage protection 350Vac	2 hr
PowerFactor 100% output power	0.95 -
Power losses gear	3.4 W
Regulating level power	1%-100%
Stable lamp operation temp.	> 15°C
Total Harmonic Distortion EUR	10 %
Hum and Noise level	Inaudible

• System Char's on driver level

Rated Lamp Power on TL-D	36
System Power on TL-D	35.7
Lamp Power on TL-D	32
Power Loss on TL-D	3.7

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Rated Lamp Power on PL-L	24/36/40
System Power on PL-L	25.9/33.7/41.9
Lamp Power on PL-L	22.5/30.0/38.0
Power Loss on PL-L	3.4/3.7/3.9
Rated Lamp Power on TL5	14/21/24/39
System Power on TL5	16.6/23.9/26.5/40.3
Lamp Power on TL5	13.7/20.7/23.0/36.5
Power Loss on TL5	2.9/3.2/3.5/3.8
Rated Lamp Power on TL5 ECO	13/19/20/34
System Power on TL5 ECO	15.4/22.2/23.2/36.7
Lamp Power on TL5 ECO	12.5/19.1/20.0/33.0
Power Loss on TL5 ECO	2.9/3.1/3.2/3.7

• Wiring Characteristics

Conn.type input terminals	WAGO 251 universal connector [Suitable for both automatic wiring (ALF and ADS) and manual wiring]
Conn.type output terminals	WAGO 251 universal connector [Suitable for both automatic wiring (ALF and ADS) and manual wiring]
Conn.type ctrl input terminals	WAGO 251 universal connector [Suitable for both automatic wiring (ALF and ADS) and manual wiring]
Striplength	8.0-9.0 mm
Dual fixture Master/Slave	Yes [Master/Slave operation possible]
Wcs Control input terminals	0.50-1.00 mm2
Wcs Input terminals	0.50-1.00 mm2
Wcs Output terminals	0.50-1.00 mm2

Wcs auto insertion (ALF/ADS) 0.75 mm2

• Temperature Characteristics

T-case maximum 75 C

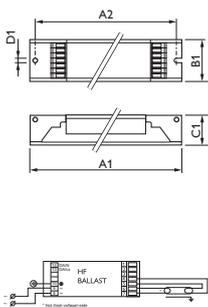
• Approval & Application Char's

EMI 9kHz .. 30 MHz	EN 55015
EMI 30 MHz .. 1000MHz	EN 55022 Class B
Safety Standard	IEC 61347-2-3
Performance Standard	IEC 60929
Quality Standard	ISO 9000:2000
Environmental Standard	ISO 14001
Harmonic current emissions	IEC 61000-3-2
EMC Immunity	IEC 61547
Vibrations	IEC 68-2-6 Fc
Bumps	IEC 68-2-29 Eb
Humidity	EN 61347-2-3 clause 11
Approval marks	ENEC / VDE-EMV
CE marking	Yes
Temperature marking	110 [Yes]
Emergency standard	IEC 60598-2-22

• Product Dimensions

Length A1	359 mm
Fixing Hole Distance	354.6 mm
Length A2	
Width B1	30 mm
Height C1	21 mm
Fixing Hole Diameter	4.2 mm
D1	

Dimensional drawing



Product	A1 (Norm)	A2 (Norm)	B1 (Norm)	C1 (Norm)	D1 (Norm)
HF-Ri TD 1 14/21/24/39 TL5 E+	359	354.6	30	21	4.2



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