



# HF-Regulator Intelligent Touch and Dali for TL5 lamps

HF-Ri TD 1 28/35/49/54 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

### • General Characteristics

Interface	TD
Rated Number of Lamps	1 piece
Rated Ballast-Lamp Power	28/35/49/54
Rated Lamptype	TL5
Application code	E+
Line Voltage	195-240 V
Line Frequency	50/60 Hz
Housing	L 360x30x22
Ignition Method	Warm Start
Lifetime 90% surv.@Tcaselife	50000 hr
Energy Efficiency Index	A1 BAT

Overvoltage protection 350Vac	2 hr
PowerFactor 100% output power	0.95 -
Power losses gear	3.8 W
Regulating level power	1%-100%
Stable lamp operation temp.	> 15°C
Standby power consumption	0.35 (max) W
Ballast Lumen Factor	1 -
Crestfactor	1.7 (max) -
Ignition time	1 (max) s
Operating frequency	110 (max) kHz
Total Harmonic Distortion EUR	10 %
Hum and Noise level	Inaudible

### • Operating Characteristics

Automatic restart	Yes
Battery voltage running lamps	176-254
Battery voltage lamp ignition	198-254 V
Control input protection	Yes
Inrush current Peak	18 (max) A
Inrush current Width	0.2 ms
Max ballast on MCB(16A type B)	34 x
Earth leakage current	0.5 (max) mA
Mains voltage safety (AC)	-10%/+10%
Mains voltage performance (AC)	-8%/+6%
Overvoltage protection 320Vac	48 hr

### • System Chars on driver level

Rated Lamp Power on TL-D	58
System Power on TL-D	54.1
Lamp Power on TL-D	50.0
Power Loss on TL-D	4.1
Rated Lamp Power on PL-L	55
System Power on PL-L	54.6
Lamp Power on PL-L	50.5
Power Loss on PL-L	4.1
Rated Lamp Power on TL5	28/35/49/54

# PHILIPS

sense and simplicity

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System Power on TL5	31.3/38.3/52.4/57.3
Lamp Power on TL5	28.0/34.6/48.8/53.2
Power Loss on TL5	3.3/3.7/3.6/4.1
Rated Lamp Power on TL5 ECO	25/32/45/50
System Power on TL5 ECO	29.1/35.6/49.4/53.8
Lamp Power on TL5 ECO	25.7/32.0/45.9/49.7
Power Loss on TL5 ECO	3.3/3.7/3.6/4.1

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

## • 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 life	75 (max) C
T-case maximum	75 (max) C
T-ignition	-25 (min), 50 (max) C
T-ambient	-25 (min), 50 (max) C
T-storage	-40 (min), 80 (max) C

## • Approval & Application Chars

EMI 9kHz .. 30 MHz	EN 55015
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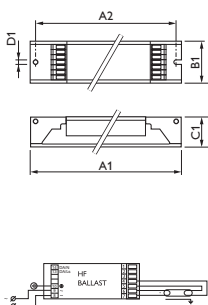
## • Product Dimensions

Length A1	360 mm
Fixing Hole Distance	350 mm
Length A2	
Width B1	30 mm
Height C1	22 mm
Fixing Hole Diameter D1	4.2 mm

## • Product Data

Order code	913700656066
Full product code	913700656066
Full product name	HF-Ri TD 1 28/35/49/54 TL5 E+
Order product name	HF-Ri TD 1 28/35/49/54 TL5 E+
Pieces per pack	1
Packing configuration	12
Packs per outerbox	12
Bar code on pack - EAN1	8711500881816
Bar code on outerbox - EAN3	8727900890570
Logistic code(s) - 12NC	913700656066
Net weight per piece	0.261 kg

## Dimensional drawing



Product	A1 (Norm)	A2 (Norm)	B1 (Norm)	C1 (Norm)	D1 (Norm)
HF-Ri TD 1 28/35/49/54 TL5 E+	360	350	30	22	4.2



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data subject to change