

# HF-Regulator Intelligent Touch DALI for TL5/TL-D/PL-L lamps

#### HF-Ri TD 2 14/21/24/39 E+

This intelligent high-frequency electronic dimming ballast utilizes the DALI or Touch and Dim push-button protocol for fluorescent lamps. It meets A1BAT requirements, thereby pre-empting upcoming legislation. With a special command you can retrieve the system's mains power consumption, and with another you can find out which lamp wattage is connected. Combined with controls, additional energy savings can be achieved.

#### Product data

#### • General Information

Application Code Type Version mk2 Lamp Type TL5 2 piece/unit Number Of Lamps Number Of Products On MCB (16A Type B) (Nom) Automatic Restart Yes

#### · Operating and Electrical

195-240 V Input Voltage 50-60 1 Hz Input Frequency Operating Frequency 110 kHz (Max) **Operating Frequency** 45 kHz (Min) Ignition Method Warm Start Crestfactor (Max) Power Factor 100% 0.95 Load (Nom) Ignition Time (Max) Mains Voltage -8%-+6% Performance (AC) Mains Voltage Safety -10%-+10% (AC) Èarth Leakage 0.5 mA Current (Max) Inrush Current 0.26 ms Width Standby Power 0.25 W Consumption (Max) Ballast Factor (Nom) 5.0 W Power Losses (Nom) Inrush Current Peak (Max)

 Wiring Connector Type WAGO 251 universal connector Input Terminals [ Suitable for both automatic wiring (ALF and ADS) and manual wiring Cable Capacity 200 pF Output Wires Mutual (Max) Connector Type WAGO 251 universal connector Output Terminals [ Suitable for both automatic wiring (ALF and ADS) and manual wiring] WAGO 251 universal connector Connector Type Control Input Termi-[ Suitable for both automatic wiring [ALF and ADS) and manual wiring 8.0-9.0 mm Wire Striplength Dual Fixture Master/ Yes [ Master/Slave operation possible] Slave Control Input 0.50-1.00 mm<sup>2</sup> Terminal Cross Section Input Terminal Cross 0.50-1.00 mm<sup>2</sup> Section Output Terminal 0.50-1.00 mm<sup>2</sup> Cross Section Auto Insert (ALF/ 0.75 mm<sup>2</sup> ADS) Wire Cross Section Cable Capacity 200 pF Output Wires To Earth (Max)

## • System characteristics

Rated Ballast-Lamp 14/21/24/39 W Power



# HF-Regulator Intelligent Touch DALI for TL5/TL-D/PL-L lamps

Rated Lamp Power 36 W On TL-D 69.6 W System Power On TL-D Lamp Power On TL-64.0 W 5.6 W Power Loss On TL-D 24/36/40 W Rated Lamp Power On PL-L System Power On 50.0/65.6/82.2 W PL-L Lamp Power On PL-L 45.0/60.0/76.0 W Power Loss On PL-L 5.0/5.6/6.2 W Rated Lamp Power 14/21/24/39 W On TL5 System Power On 31.2/45.7/51.1/79.1 W TL5 Lamp Power On TL5 27.4/41.4/46.0/73.0 W Power Loss On TL5 3.8/4.3/5.1/6.1 W Rated Lamp Power 13/19/20/34 W On TL5 ECO System Power On 28.7/42.8/44.9/71.7 W TL5 ECO Lamp Power On TL5 25.0/38.2/40.0/66.0 W 3.7/4.6/4.9/5.7 W Power Loss On TL5 ECO

#### • Temperature

T-Ambient (Max)	50 °C
T-Ambient (Min)	-25 °C
T-Storage (Max)	80 °C
T-Storage (Min)	-40 °C
T-Case Lifetime	75 °C
(Max)	
T-Case Maximum	75 °C
(Max)	
Stable Lamp Opera-	> 15°C
tion Temperature	
T-Ignition (Max)	50 °C
T-Ignition (Min)	-25 °C

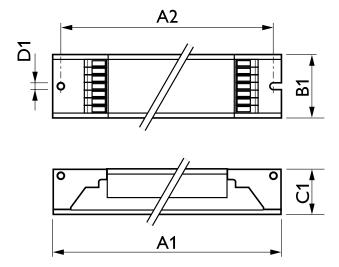
#### · Controls and Dimming

Control Interface TD
Regulating Level 1%-100%
Power
Control Input Yes (Basic

Protection

Yes (Basic insulation)

#### Dimensional drawing



#### • Mechanical and Housing

Housing L 360x30x21

#### • Emergency Operation

Battery Voltage Lamp 198-254 V Ignition Battery Voltage Lamp 176-254 Operation

#### • Approval and Application

Energy Efficiency A1 BAT Index EMI 9 kHz ... 30 MHz EN55015 EN 55022 Class B EMI 30 MHz ... 1000 MHz Safety Standard IEC 61347-2-3 Performance IEC 60929 Standard ISO 9000:2000 Quality Standard Environmental ISO 14001 Standard Harmonic Current IEC 61000-3-2 Emission Standard IEC 61547 **EMC** Immunity Standard Vibration Standard IEC 68-2-6 Fc Bumps Standard IEC 68-2-29 Eb Humidity Standard EN 61347-2-3 clause 11 Temperature Marking Emergency Standard IEC 60598-2-22 Hum And Noise Inaudible Level

#### • Product Data

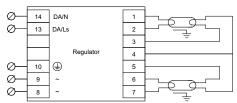
871829169691900 Full product code Order product name EAN/UPC - Product HF-Ri TD 2 14/21/24/39 E+ 8718291696919 Order code 913700698466 Numerator - Quantity Per Pack Numerator - Packs 12 per outer box Material Nr. (12NC) 913700698466 Net Weight (Piece) 0.316 kg

### HF-Ri TD 2 14/21/24/39 TL5 E+ 195-240V

Product	D1	C1	A1	A2	B1
HF-Ri TD 2 14/21/24/39 E+	4.1 mm	21.0 mm	360.0 mm	350.0 mm	30.0 mm

# HF-Regulator Intelligent Touch DALI for TL5/TL-D/PL-L lamps

# Dimensional drawing



HF-Ri TD 2 14/21/24/39, 2 28/35/49/54 TL5 E+



 $\ \odot$  2015 Philips Lighting Holding B.V. 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.