ENGLISH R+C

CASAMBI
www.casambi.com

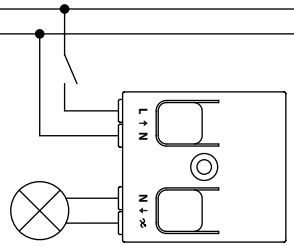
CBU-TED

Bluetooth controllable dimmer

Warning!
Hazardous voltages. Risk of electric shock or fire. Only qualified professionals should make the connections. Disconnect the mains power supply and verify its absence prior to installation.

Wiring diagram

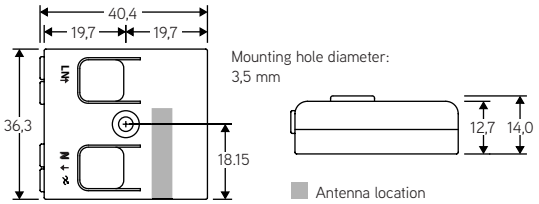
L
N
85-240 VAC
50-60 Hz



Wire info:
Solid and stranded:
0,5-1,5 mm²/16-20 AWG

Strip length: 6-8 mm

Dimensions



Load suitability

Type of load	Max. load
Incandescent and high voltage halogens (R)	150 W
High quality dimmable LED bulbs (C) [1]	150 W
High quality dimmable CFL bulbs (C) [1]	150 W
Trailing edge dimmable LED drivers (C) [1]	150 W
Low voltage halogens with electronic transformers (C) [1]	150 W
High voltage AC LED modules (R) [2]	150 W
Luminescent lamps, non-dimmable LED and CFL bulbs (C)	Not allowed
Wire wound transformers, electric motors and other inductive loads (I)	Not allowed

Never connect inductive loads, such as iron core transformers. This could cause permanent damage to the dimmer. Do not mix different types of loads.

[1] Dimming quality depends solely on the load electronics. Do not mix different types of bulbs or loads.

[2] Some LED modules may flicker at low dimming levels.

Description

CBU-TED is a Bluetooth controllable, Casambi enabled trailing-edge dimmer for operation of incandescent lamps, dimmable LED lamps and dimmable LED control gear. It can be installed behind a traditional wall switch, inside a luminaire or into a ceiling outlet box. Maximum allowable ambient temperature must be observed.

CBU-TED is able to control up to 150 W at 230 VAC. It features an overcurrent and over temperature protection.

CBU-TED can be controlled with Casambi app, available for iOS and Android devices, as well as with traditional wall switches. The Casambi app can be downloaded free of charge from Apple App Store and Google Play Store.

Different Casambi enabled products can be used as a simple one luminaire direct control to a complete and full featured light control system where up to 127 units form automatically an intelligent mesh network.

Installation

Make sure that the mains voltage is switched off when making any connections. Use 0,5-1,5 mm² solid or stranded conductor electrical wires. Strip the wire 6-8 mm from the end.

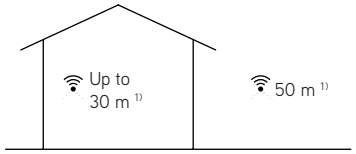
Press the buttons on top of the dimmer case and insert the wires to the corresponding holes. Make sure to connect the input and output correctly. Input connector is marked with letters L and N, while the output connector is marked with letter N and a symbol with a wave and an arrow (∾).

If you install the dimmer into a heat sensitive environment (i.e. inside a luminaire or in a ceiling outlet box above a luminaire), make sure that the ambient temperature does not exceed the specified maximum value. Using the dimmer in a heat sensitive environment may limit the maximum output power.

WARNING!

Using CBU-TED with maximum load can make it operate very hot. Make sure to place the product in a well-ventilated space and away from any flammable materials.

Range



Casambi uses mesh network technology so each CBU-TED acts also as a repeater. Longer ranges can be achieved by using multiple Casambi units.

Download on the App Store

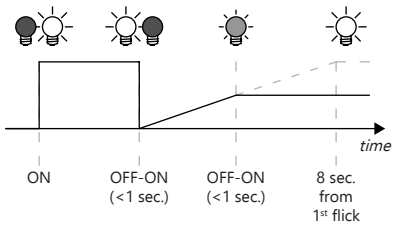
ANDROID APP ON Google play

Compatible devices:
iPhone 4S or later
iPad 3 or later
iPod Touch 5th gen or later
Android 4.4 KitKat or later devices produced after 2013 with full BT 4.0 support

[1] Range is highly dependant on the surrounding and obstacles, such as walls and building materials.

Dimming without app

1. Turn lights on from a wall switch.
2. Quickly flick the wall switch off (max. 1 sec.) and back on. The light level starts to increase gradually.
3. Flick the switch again at desired dim level. The selected level is saved automatically.
4. If the second flick is not done within 8 sec. the light intensity reaches its maximum level.
5. Flicking the switch can also be used to switch between predefined scenes.



Technical data

Input

Voltage range:	85-240 VAC
Frequency:	50-60 Hz
Max. mains current:	0,65 A
No-load standby power:	< 0,3 W

Output

Dimming method:	trailing-edge phase control
Max. output power:	150 W @ 230 VAC 75 W @ 120 VAC
Max. output current:	0,65 A
Min. load requirement:	1 W
Max. inrush current:	10 A, 100 ms

Radio transceiver

Operating frequencies:	2,4...2,483 Ghz
Maximum output power:	+4 dBm

Operating conditions

Ambient temperature, ta:	-20...+45°C
Max. case temperature, tc:	+75°C
Location of tc point:	bottom side, underneath output connector
Storage temperature:	-25...+75°C
Max. relative humidity:	0...80%, non-cond.

Connectors

Wire range, solid & stranded:	0,5-1,5 mm² 16-20 AWG
Wire strip length:	6-8 mm

Mechanical data

Dimensions:	40,4 x 36,3 x 14,0 mm
Weight:	15 g
Degree of protection:	IP20 (indoor use only)

Disposal Instructions

In line with EU Directive 2002/96/EC for waste electrical and electronic equipment (WEEE), this electrical product must not be disposed of as unsorted municipal waste.

Please dispose of this product by returning it to the point of sale or to your local municipal collection point for recycling.

CASAMBI

Lighting control
for the Modern World

Casambi Technologies Oy
Bertel Jungin aukio 1 E, 02600 Espoo, Finland

Triac / Phase-cut dimmable LED Driver Constant Current-DIP Adjustment KIF-TDH Series 40W

KIF-TDH Series 40W KIF-TDH 40W

Whole Family: KIF-XXX-TDH [10W 20W 40W 60W]

Features

Output:	Constant Current
NFC function:	Adjust output current by NFC
Range:	200-240VAC
PFC design:	Built-in active PFC function
Efficiency:	Up to 80%
Protections:	Short circuit/ over load/over temperature
Heat dissipation:	Cooling by free air convection
Waterproof performance:	IP20
Dimming function:	Triac/phase cut dimming: Work with leading or trailing edge Triac dimmer
Dimming range:	1-100%
Application:	Suitable for the application of indoor LED lighting
Warranty:	5 years warranty

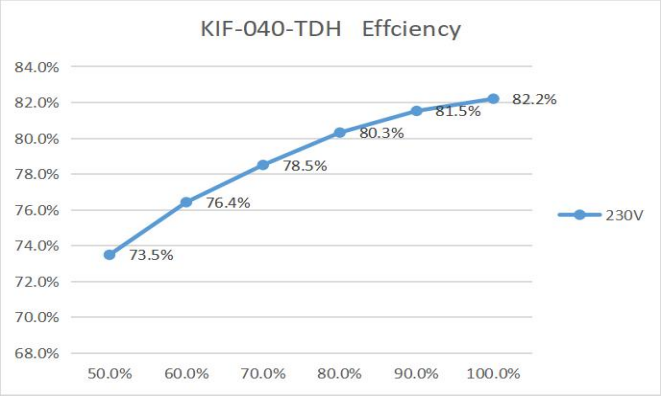
Triac / Phase-cut dimmable LED Driver Constant Current-DIP Adjustment KIF-TDH Series 40W

Specification

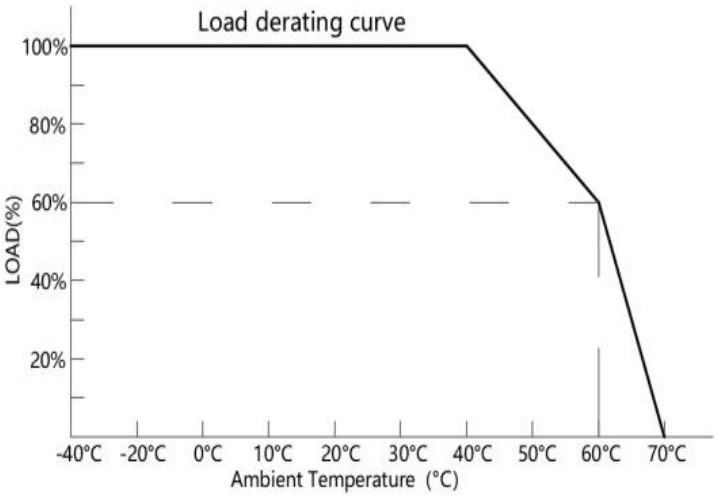
T ON ⊥ OFF

Model		KIF-040-TDH															
Output	Rated current (A)	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.65	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4
	DIP Code	⊥⊥⊥⊥		T⊥⊥⊥		⊥T⊥⊥		T⊥T⊥		⊥⊥⊥T		⊥T⊥T		⊥⊥TT		⊥TTT	
	DIP Code		T⊥⊥⊥		TT⊥⊥		T⊥T⊥		TTT⊥		T⊥⊥T		TT⊥T		T⊥TT		TTTT
	Current Tolerance	±5%															
	No-Load Voltage	75V max.															
	DC Voltage (V)	3-65							3-62	3-57	3-50	3-45	3-40	3-37	3-34	3-31	3-29
	Rated power (W)	19.5	22.8	26	29.3	32.5	35.8	39	40								
Input	Rated Voltage	200-240VAC															
	Rated Frequency	47-63HZ															
	Power Factor	0.93@230VAC 50Hz															
	THD(Typ.)	≤20%															
	Efficiency (Typ.)	80%@230VAC															
	AC Current (Max.)	0.29A															
	Inrush Current (Typ.)	15.6A,10.3uS@50%Ipeak@230VAC															
	Leakage current	<0.50mA															
Protection	Short Circuit	Constant current mode, recovers automatically after fault condition is removed															
	Over load	Hiccup mode, recovers automatically after fault condition is removed															
	Over temperature	Ambient temp. over 50℃±5℃, output current will be reduced to 50%; Ambient temp. over 60℃±5℃, output current will be reduced to 0%;Ambient temp. reduce to 45℃±5℃, recovers automatically .															
Environ-ment	Working TEMP.	-40-+60℃															
	Working Humidity	20-90%RH, non-condensing															
	Storage TEMP. Humidity	-40-+80℃,10-95%RH															
	TEMP. coefficient	±0.03%/℃ (0-50℃)															
	Vibration	10-500Hz, 2G 10min./1 cycle,period for 60min.each along X,Y,Z axes															
Safety & EMC	Safety standards	EN61347-1 EN61347-2-13(EU)															
	Withstand voltage	I/P-O/P:3.75KVAC(EU)															
	Isolation resistance	I/P-O/P:100MΩ / 500VDC / 25℃ / 70%RH															
	EMC Emission	EN55015 EN61000-3-2 EN61000-3-3															
Others	Net Weight	0.225Kg															
	Dimension	171.5*54*20mm(L*W*H)															
	packing	250*190*135mm 20PCS/CTN 5KG/CTN															
Notes	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃of ambient temperature. 2. Tolerance: includes set us tolerance, line regulation and load regulation.																

Efficiency Curve (efficiency vs output load)

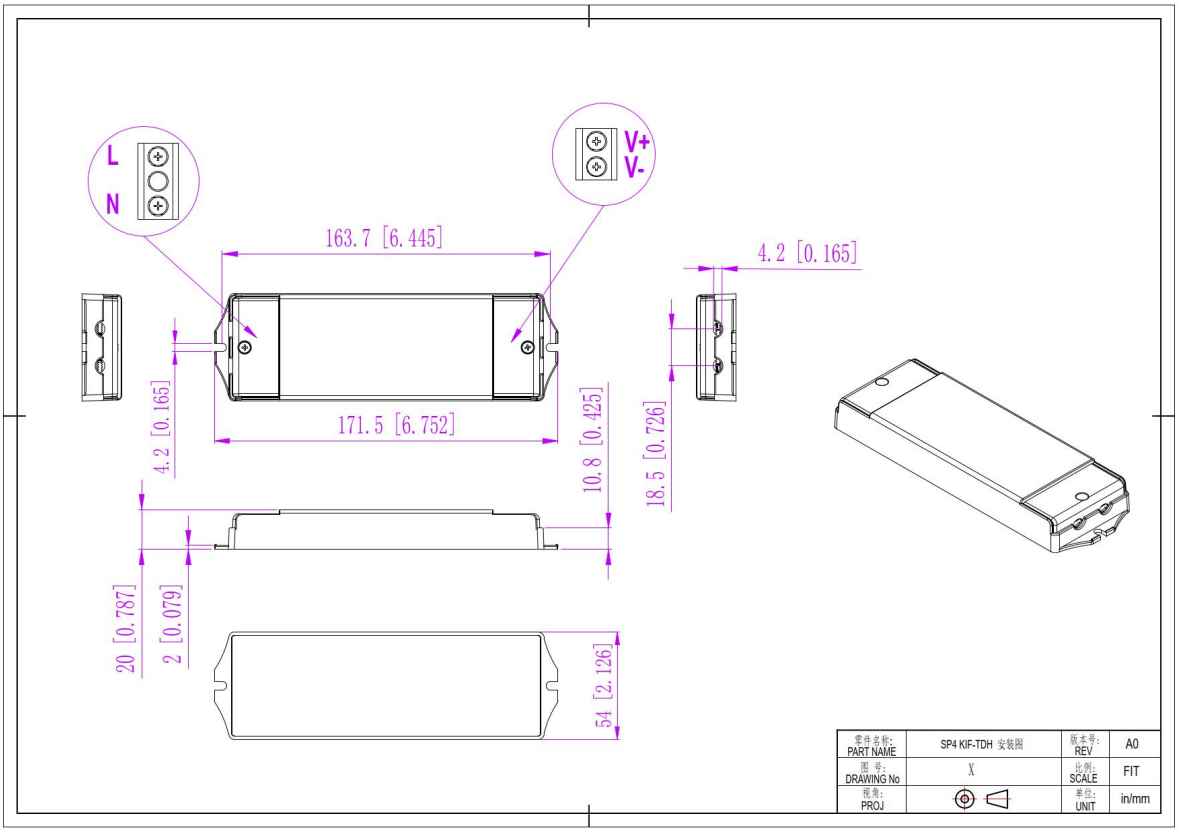


Derating Curve (output load vs TEMP.)



❖ To extend their life, please refer to the Derating Curve and derate according to the temperature.

Mechanical Specification



1. Input with ULO-TB51-126 terminals 3P: Live Wire AC (L), Neutral Wire AC(N).
2. Output LED SEC with ULO-TB51-126 terminals 2P: output Positive (LED+), output negative (LED-). Connected to LED Lamps.
3. Please make sure you connect these correctly otherwise your product will not function correctly and could be damaged.

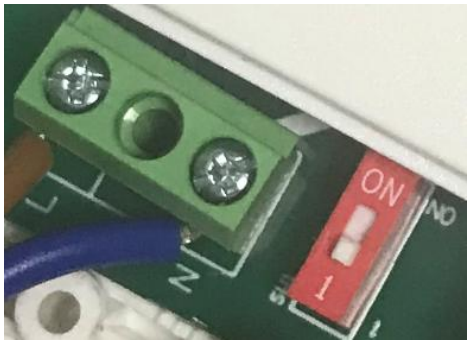
Warm tips:

1. Suggested wire diameter: Input 0.75-2mm²; Output:0.5-2mm².
2. Any other requests for, we can customized.

Dimming Operation and Connecting Diagram

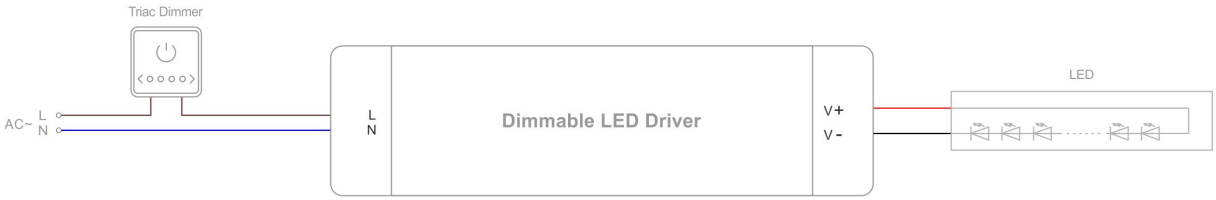
TRIAC/Phase cut dimming

1. Output constant current level can be adjusted through input terminal of the AC phase line(L) by connection a Triac dimmer.
2. Usually matching with leading edge and trailing edge both. At input area of KIF-TDH series: ON key for leading edge; 1 key for trailing edge(see below picture).

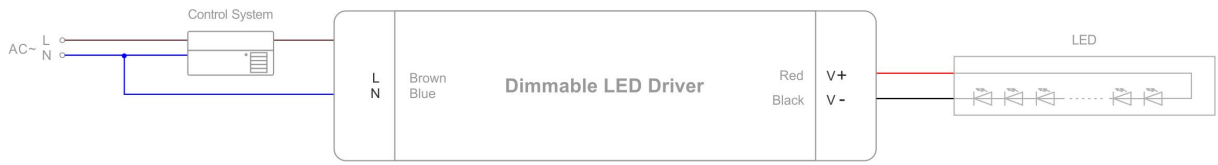


3. please try to use the small power dimmer, have access to a wider dimming range, high-power dimmer is difficult to achieve the output current to zero.
4. please try to use dimmers with power at least 2 times as the output power of the driver.

Triac



Triac



Instruction

1. This driver should be installed by qualified and professional person.
2. Please make sure the driver is installed with adequate ventilation around it to allow for heat dissipation.
3. Ensure that wiring is correct before test in order to avoid light and power supply damage.
4. If driver Cannot work normally, don't maintain privately.

Have any questions, please contact Zhuhai Shengchang.
Please visit our website or contact us for more information! www.scpower.net.cn/en

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