

PHILIPS

WiZ
PRO

Wireless

Wireless 1-10V
Bridge Box



Datasheet

WiZ Pro 1-10V Bridge Box | 220-240V

929002613509

Enabling simple, cost effective wireless lighting system

Philips WiZ Pro 1-10V bridge box can work with 1-10V constant current LED driver to enable dimming features. It enables simple, cost effective wireless lighting system for energy saving and comfort. Advanced design of the bridge box helps to build a reliable and standardized connected lighting system with different functionalities from simple wireless dimming to cloud based operations.

Benefits

- Easy wireless dimming and scheduling for energy saving and convenience
- Connecting to Wi-Fi for cloud-based control and remote access. No gateway needed
- Future-proof flexibility, support OTA (Over-The-Air) firmware update
- Large array of integrations to work with popular home assistant systems
- WiZ Click feature enables easy installation
- CE certified

Features

- in-built relay on and off control
- 1-10V range dimming
- Suitable for both independent and built-in usage
- Energy metering feature with 10% accuracy
- Max 300W output load
- 50,000 hours lifetime
- Wi-Fi + Bluetooth dual protocol module which enable local Bluetooth messages for installation and connectivity to WiZ cloud over Wi-Fi network
- Include WiZ Pro software suite prepaid license <https://www.wizconnected.com/en/pro/get-started/>
<https://pro.wizconnected.com/>

Application

- Residential
- Hospitality
- Restaurant
- Retail
- School
- Leisure places

Logistical data

Specification item	value
Product name	WiZ Pro 1-10V Bridge Box I 220-240V
12NC	929002613509
Pieces per box	40 pcs

Product Data

All specifications are typical and at 25 °C Tcase unless otherwise specified.

Electrical data

Specification item	Value	Unit	Conditions
Rated input voltage	220...240	Vac	Performance range
Rated input current	1.4	A	@ max load
Rated input frequency range	50...60	Hz	
Max output power	300	W	@ rated input voltage @ max load
Input voltage AC range	198...264	Vac	Operational range
Input frequency AC range	47.5...63	Hz	Operational range
Standby power	0.50	W	@ rated input voltage
ESD	4KV @ HBM, 8KV @ air		
Mains surge capability (L to N)	1000	V	Diff mode
Insulation	Basic		Mains input to 1-10V interface

Dimming Interface

Specification item	Value	Unit	Conditions
Dimming method	1-10V		
Dimming range	1-10.5	V	Dimming performance depend on driver
Current capability	±20	mA	

RF interface

Specification item	Value	Unit	Conditions
Communication method	Wi-Fi + BLE		
Wi-Fi Frequency	2400-2483.5	MHz	IEEE Std 802.11 b/g,
Wi-Fi Transmission power	20	dbm	Maximum
BLE Frequency	2400-2483.5	MHz	
BLE Transmission power	3	dbm	Maximum
Wi-Fi channel	1...13		

Indicator

Specification item	Value
LED indicator	Blue Color, indicating the pairing status and other procedures
Push button	Tact switch, for pairing and factory reset

Notes:

- 1) Press for under <2s and release : product does a soft reboot, LED status blink 1 time
- 2) Press for 2s ~ 10s and release : product goes into forced pairing mode, outputs dimming variations, LED status pulsing
- 3) Press for >10s and release : reset to factory settings (forgets favorites and Home ID) and reboots, LED status blinks 10 times after reset is done

Operational temperature and humidity

Specification item	Value	Unit	Conditions
Ambient temperature	-20...+50	°C	
Relative humidity	10...90	%	
Tcase_life	65	°C	
Tcase_max	75	°C	

Storage temperature and humidity

Specification item	Value	Unit	Conditions
Ambient temperature	-25...+85	°C	
Relative humidity	5...95	%	

Lifetime

Specification item	Value	Unit	Conditions
Lifetime	50,000	Hours	@ Tcase_life. Maximum failures=10%
Mains switching cycles	50,000	Cycles	

Certificates and standards

Specification item	Value
Approval marks	CE, RED, WFA, BQB, RCM, Independent installation
Environment	RoHS, REACH
Connection	Wi-Fi IEEE802.11 b/g, BLE 4.2
Audible noise	< 24 dB @5cm
Ingress Protection	IP20

Notes:

Hereby, [Signify] declares that the radio equipment type [WiZ bridge boxes] is in compliance with Directive 2014/53/EU (RED). The full text of the EU declaration of conformity is available at the following internet address: wizconnected.com.

Energy Metering

Specification item	Value	Unit	Conditions
Energy Metering accuracy	<5	%	@ Full power

Notes:

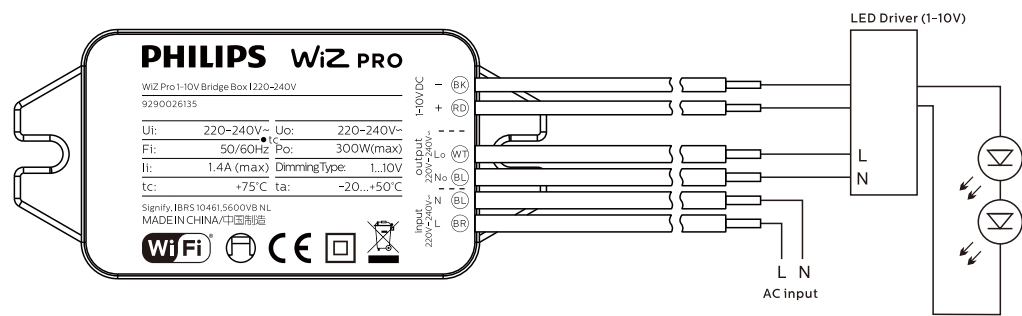
1) Energy metering is for reference use only. It is not intended to be used as a measurement instrument for any commercial purpose.

Wiring & Connections

Specification item	Value	Unit	Conditions
Input Mains Wire	1.5	mm ²	Strand wire, (Brown for L; Blue for N) Tolerance: +/- 0.1mm ²
Output Mains Wire	1.5	mm ²	Strand wire, (White for L; Blue for N) Tolerance: +/- 0.1mm ²
Output 1-10V Wire	1.5	mm ²	Strand wire, (Red for +; Black for -); Tolerance: +/- 0.1mm ²
Wire Length	130	mm	Tolerance: +/- 5mm
Wire Strip Length	10	mm	Tolerance: +/- 5mm



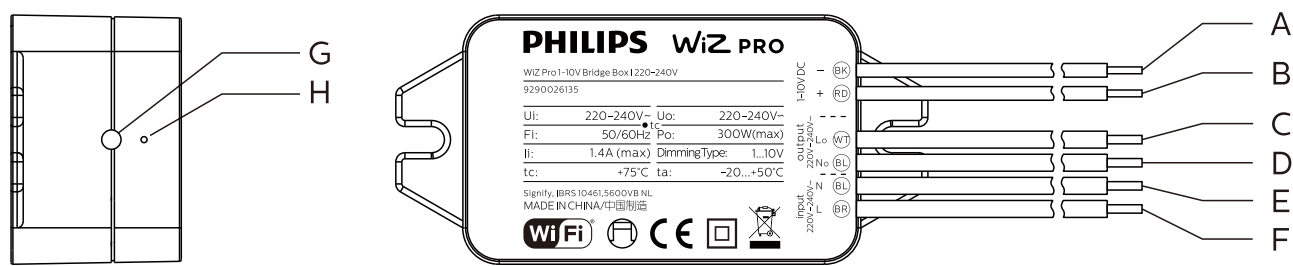
Example of connection:



- 1. Disconnect the power supply lines.
- 2. Use accessory screws to fix the product through the u-shaped groove on both sides.
- 3. Plug the output line and neutral wire of the bridge into LED drive main input connectors.
- 4. Plug the 1-10V control wires into LED driver 1-10V connectors, make sure right polarity during connections.
- 5. Connect the input line and neutral wire of the bridge with power supply lines.

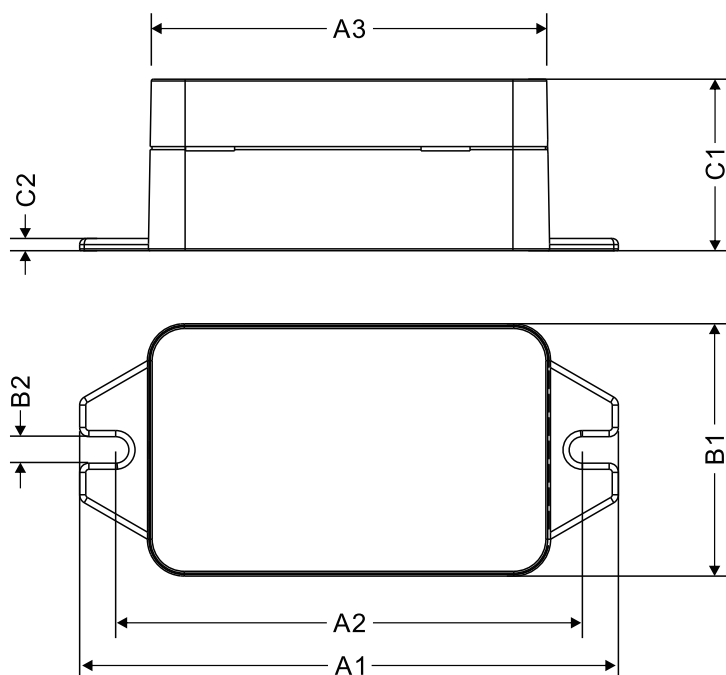
Wire definition:

	Specification item	Definition	Remark
A	1-10V DC (-) - Black	1-10V negative polarity output	
B	1-10V DC (+) - Red	1-10V positive polarity output	
C	220V-240V~ Lo - White	Live output	
D	220V-240V~ No - Blue	Neutral output	
E	220V-240V~ N - Blue	Neutral input	
F	220V-240V~ L - Brown	Live input	
G	Push button	Reset button	
H	LED light	LED light	

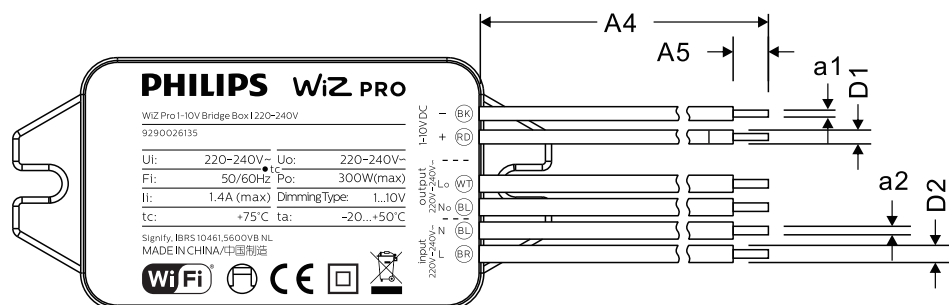


Dimensions and weight

Specification item	Value	Unit	Conditions
Dimensions L x W x H	88 x 41.2 x 28	mm	Tolerance: +/- 0.1mm
Color	White		
Weight	82	gram	



Data sheet	
Item	Dimensions
A1	88mm ± 0.1
A2	76.2mm ± 0.1
A3	64.6mm ± 0.1
A4	130mm ± 5
A5	10mm ± 5
B1	41.2mm ± 0.1
B2	4.3mm ± 0.1
C1	28mm ± 0.1
C2	2mm ± 0.1
a1	1.5mm ² ± 0.1
a2	1.5mm ² ± 0.1
D1	2.26mm ± 0.1
D2	2.7mm ± 0.1
Gross Weight:	0.082 KG



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Data subject to change