



Teralux **S1-B(WZ)** User Manual

TRIAC to Zigbee Converter

CE RoHS RED LVD



Teralux Office

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Teralux S1-B (WZ)

TRIAC to Zigbee Converter

The TERALUX Triac Dimmer Controller 1.5A RF Zigbee is a 1-channel AC phase-cut dimmer that supports Zigbee 3.0, RF 2.4G, and push-switch control for dimmable LED, incandescent, and halogen lights. It provides smooth 0–100% dimming, selectable leading or trailing edge, adjustable minimum brightness, and optional fade on/off. Compatible with Tuya, Philips Hue (via Hue Bridge), Amazon Echo, and TmallGenie, it enables app control, scenes, timers, and music sync. Compact for wall-box installation, it also includes overheat and overload protection for reliable lighting in residential or commercial spaces.

Features

Supports Zigbee 3.0, RF 2.4G, and push-switch control with a single-channel AC phase-cut dimming output.

Works with dimmable LED lamps, incandescent bulbs, and halogen lights for on/off and brightness control.

Offers Tuya App cloud control with functions such as on/off, dimming, delay, timers, scenes, and music-sync lighting.

Can be controlled through the Philips Hue app when connected via the Hue Bridge.

Supports voice control through Amazon Echo and TmallGenie smart speakers.

Delivers smooth 0–100% dimming with 256 levels and no visible flicker.

Allows selecting leading-edge or trailing-edge dimming via DIP switch settings.

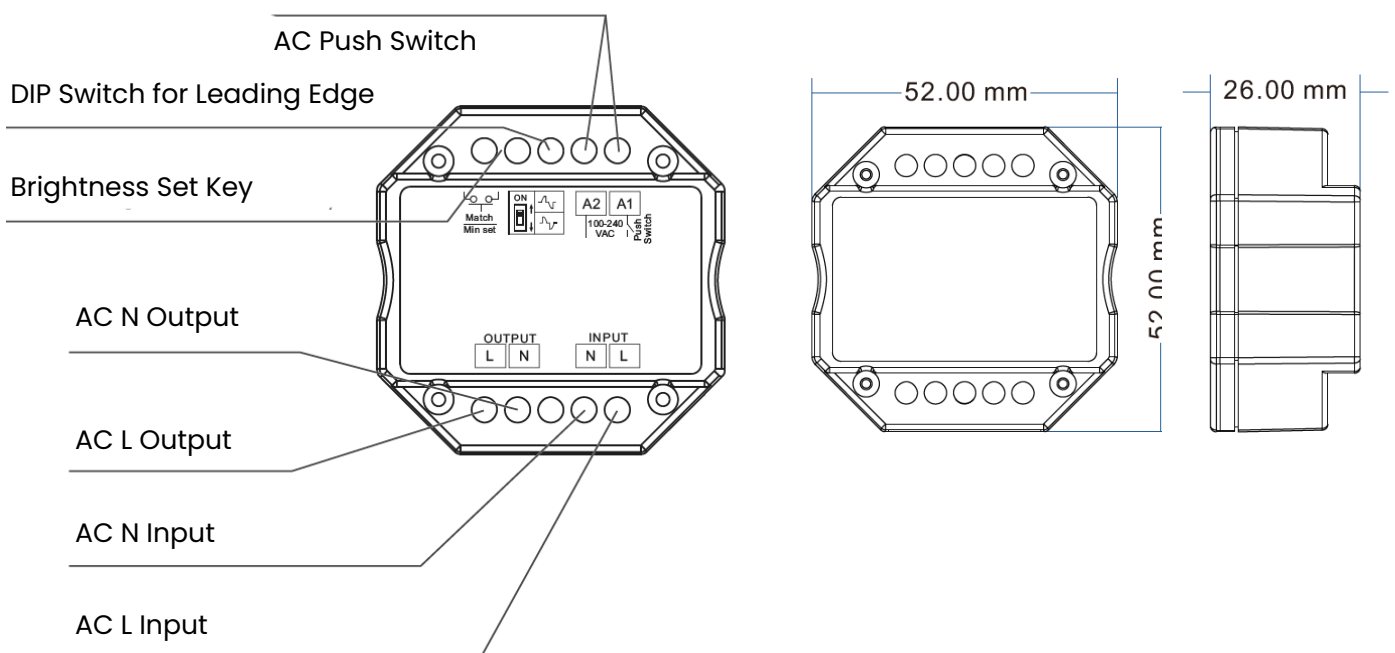
Provides adjustable minimum brightness and an optional 3-second fade-in/fade-out effect.

Compatible with RF 2.4G single-zone or multi-zone dimming remote controllers.

Functions as a Zigbee-to-RF converter for synchronized control of multiple RF dimmers through the Tuya App.

Supports external push-switch input for on/off and full-range dimming.

Mechanical Structure



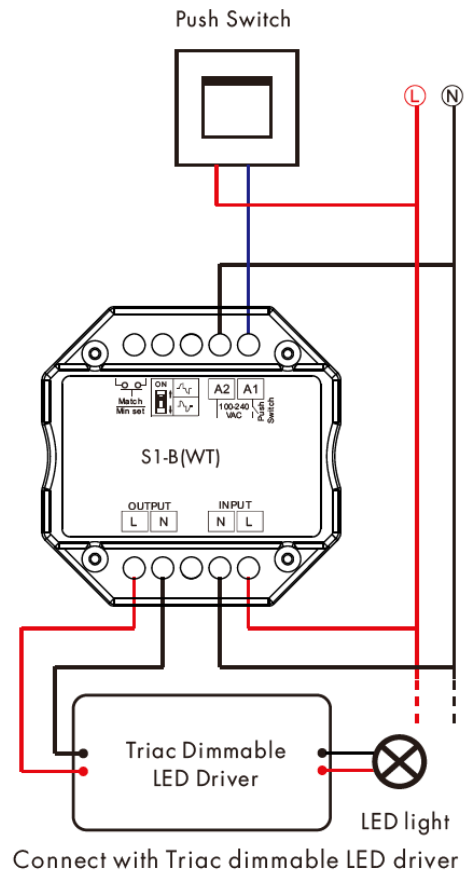
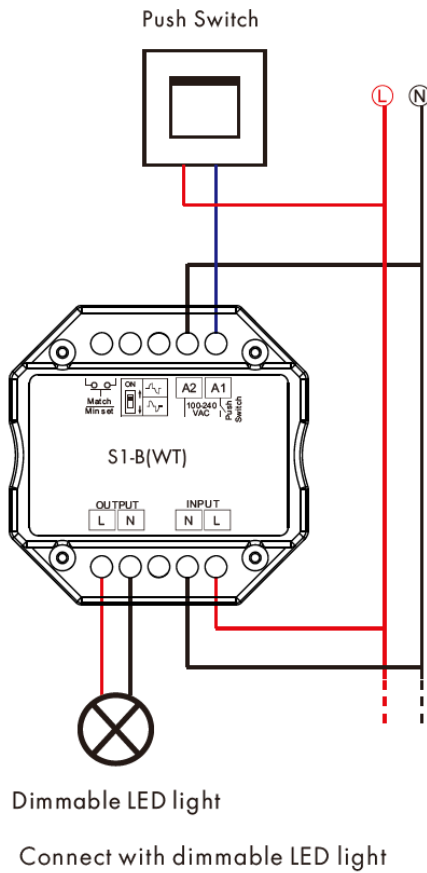
Technical Parameter

TRIAC to Zigbee Converter

Engineered for modern smart lighting, this converter delivers smooth, accurate brightness adjustment with dependable efficiency and compatibility with Zigbee systems.

Category	Item	Specification
Input and Output	Input voltage	AC100–240V
	Output voltage	AC100–240V
	Output current	Max 1.5A
	Output power	150–360W
Environment	Operation temperature	Ta: -30°C ~ +55°C
	Case temperature (Max.)	Tc: +85°C
	IP rating	IP20
Safety and EMC	EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3
		ETSI EN 301 489-17 V3.2.4
	Safety standard (LVD)	EN 62368-1:2020 + A11:2020
	Radio Equipment (RED)	ETSI EN 300 328 V2.2.2
	Certification	Ta: -30°C ~ +55°C
Dimming Data	Input signal	Tuya APP + RF + Push Dim
	RF Control distance	30m (Barrier-free space)
	Dimming level	256 levels
	Dimming range	0–100%
Weight	Item Weight	0.061 kg

Wiring Diagram



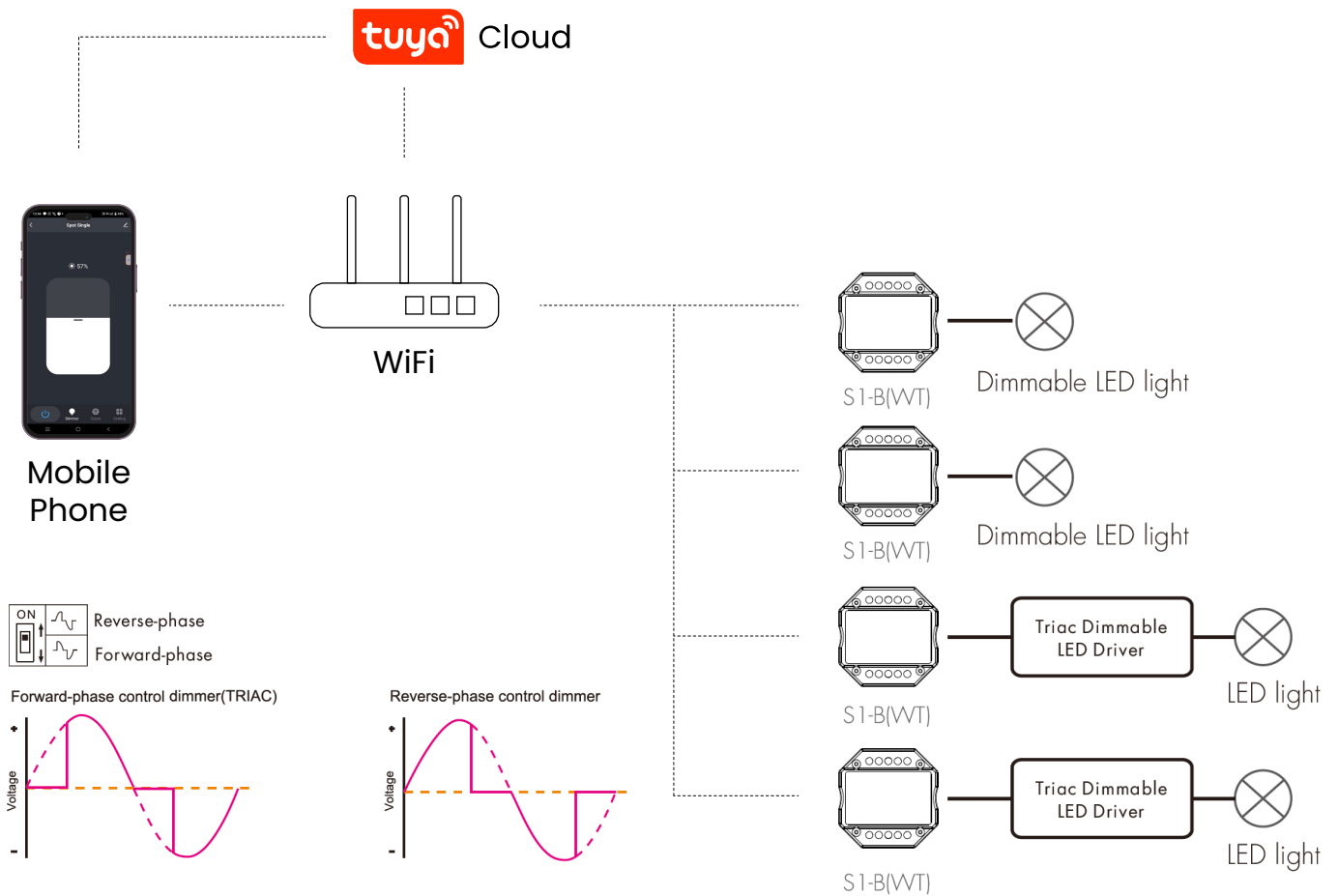
NOTE:

When calculating the maximum number of load lamps or drivers, the input power or input current parameters of a single lamp or driver must be used, the output power parameters can not be used. In addition, the maximum surge current of the dimmer is 65A, the sum of surge current of multiple dimmable LED drivers should not exceed 2 times, otherwise, the product will be overloaded and damaged.

Compatible Load Type

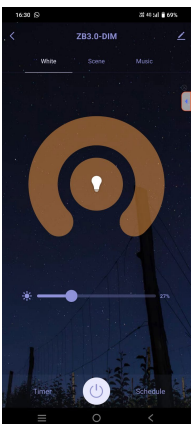
Load Type	Maximum Load	Remark
Dimmable LED	200 W @220 V 100 W @110 V	Depends on lamp design/PF
TRIAC LED Driver	200 W @220 V 100 W @110 V	200W ÷ driver rating; surge ≤2×
Hologen Lamps	200 W @220 V 100 W @110 V	Standard load.

System Wiring



Tuya APP Network Connection and Operation

Press and hold the Match/Set key for 2s to reset the ZigBee network. Press and hold the Match/Set key for 5s, or press it twice quickly, to clear the previous network connection and enter config mode (blue LED flashes fast). You can also repeat power on/off 5 times to clear the network and enter config mode. When the Tuya APP connects successfully, the blue LED stops flashing and the device will appear as ZB-DIM in the app. In the Tuya APP, use the brightness slider to adjust brightness.





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