



TL48-D-WP-P



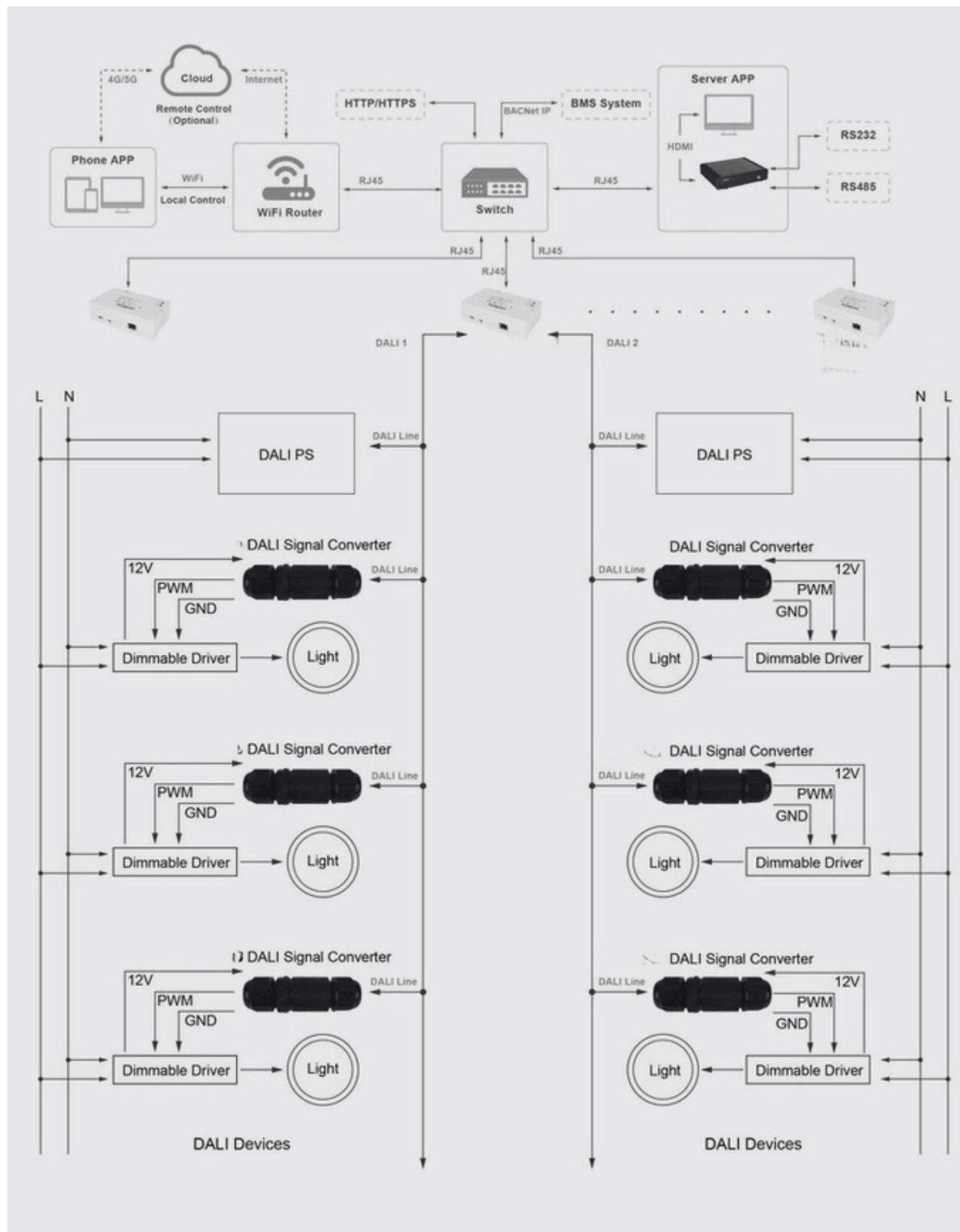
TL48-D-WP-P is a waterproof IP68 DALI converter with 12Vdc input and 10V PWM output. It connects to DALI bus and dimmable driver.

With Theorylight TLW928-ZD/D Gateway or other DALI master, the converter manages short-distance or long-distance wireless control LED lighting by Mobile Phone, Tablet, PC, Wall Switch, Remote Control, Daylight Sensor, and Motion Sensor.

Part no. [TL48-D-WP-P](#)

TL48	project name/ index
D	DALI Protocol
W	Waterproof
P	PWM Output

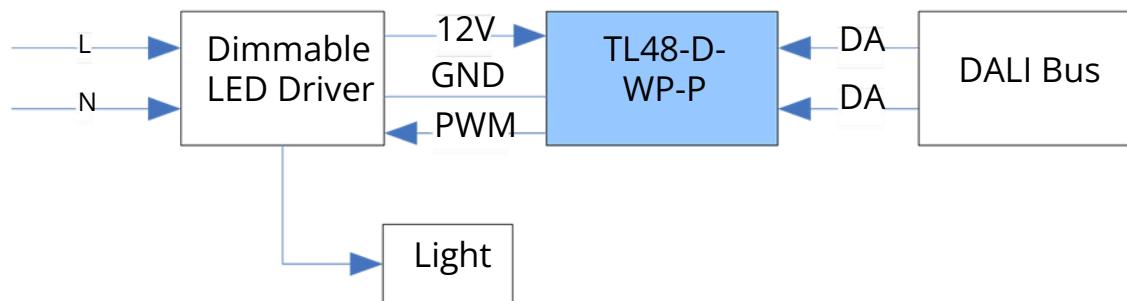
System Diagram



Terminal Definition

Terminal	Definition	
2 PIN terminal	DA	DALI bus DA
	DA	DALI bus DA
3 PIN terminal	12V	input 12V
	GND	Ground 10V
	PWM	PWM

Wiring Diagram



Parameter

Model	TL48-D-WP-P
Input Voltage(V)	12V
Input Current	DC 50mA
Output	10V
PWM Frequency	PWM/1mA 1K Hz
Control Range	DALI Bus within 300M
Operating Temperature	-20°C to 85°C
Waterproof	IP68
Terminal wiring diameter range	0.5-2.5mm ²
Waterproof head wiring diameter range	5.0-8.0mm
Net weight	48g
Gross weight	60g
Size	93*30.3*30.3mm
Material	PA66+SI

Software Operation

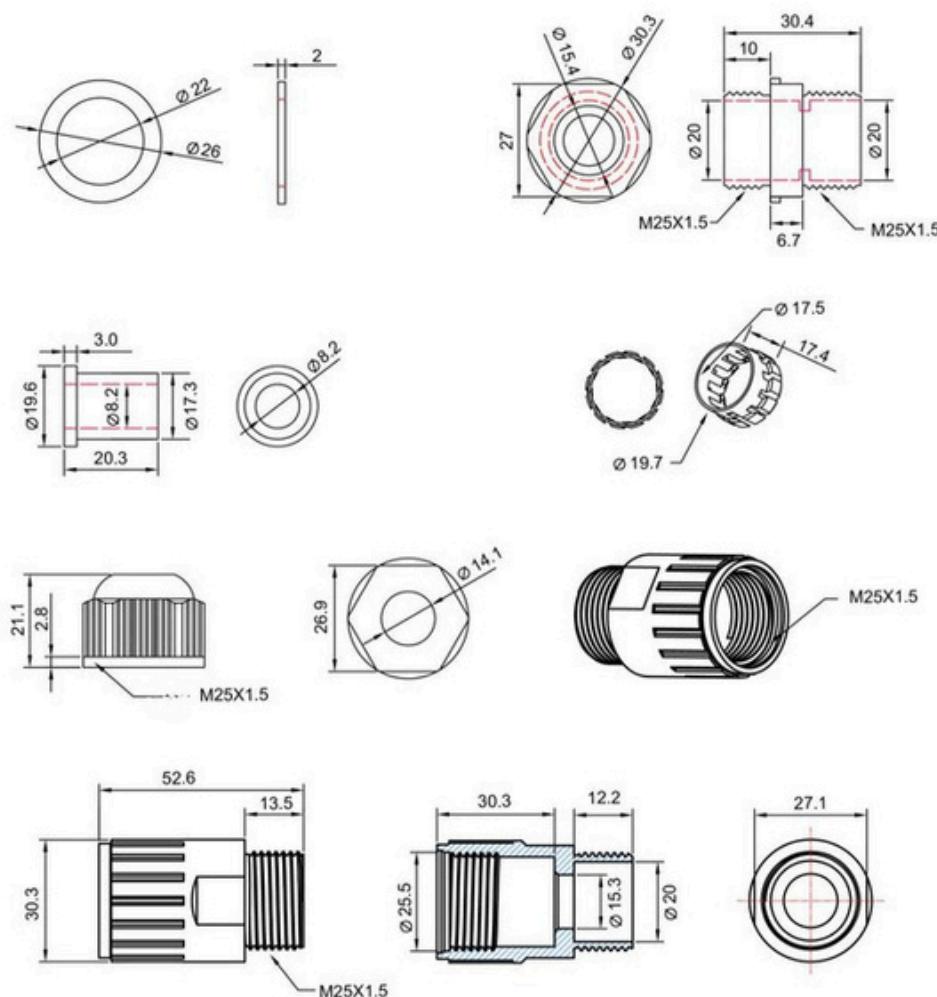
1. Initial states. When the converter is powered up, light will keep 100%. Choose a gateway. Power on the gateway, open the App “Theorylight Pro”, Search the gateway and login Add device. Click “Search” button to search the converter based on the connected DALI channel.
2. The searched converter will be displayed in the application. The light brightness is changed to 66%.
3. For more operating details please refer to user manual of gateway.

Initial States Setting

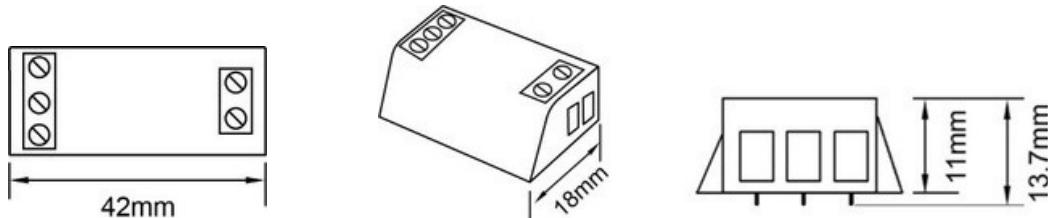
1. Soft reset: keep the converter and gateway powered on and delete it on the “Theorylight Pro” App.
2. If reset is successful, the light blinks 1 times and then stay ON. All data of the device is cleaned up.

Dimension

Converter Size



PCBA Size



Exploded View

