



TLC912-D-SC-PM-1C-R-WP



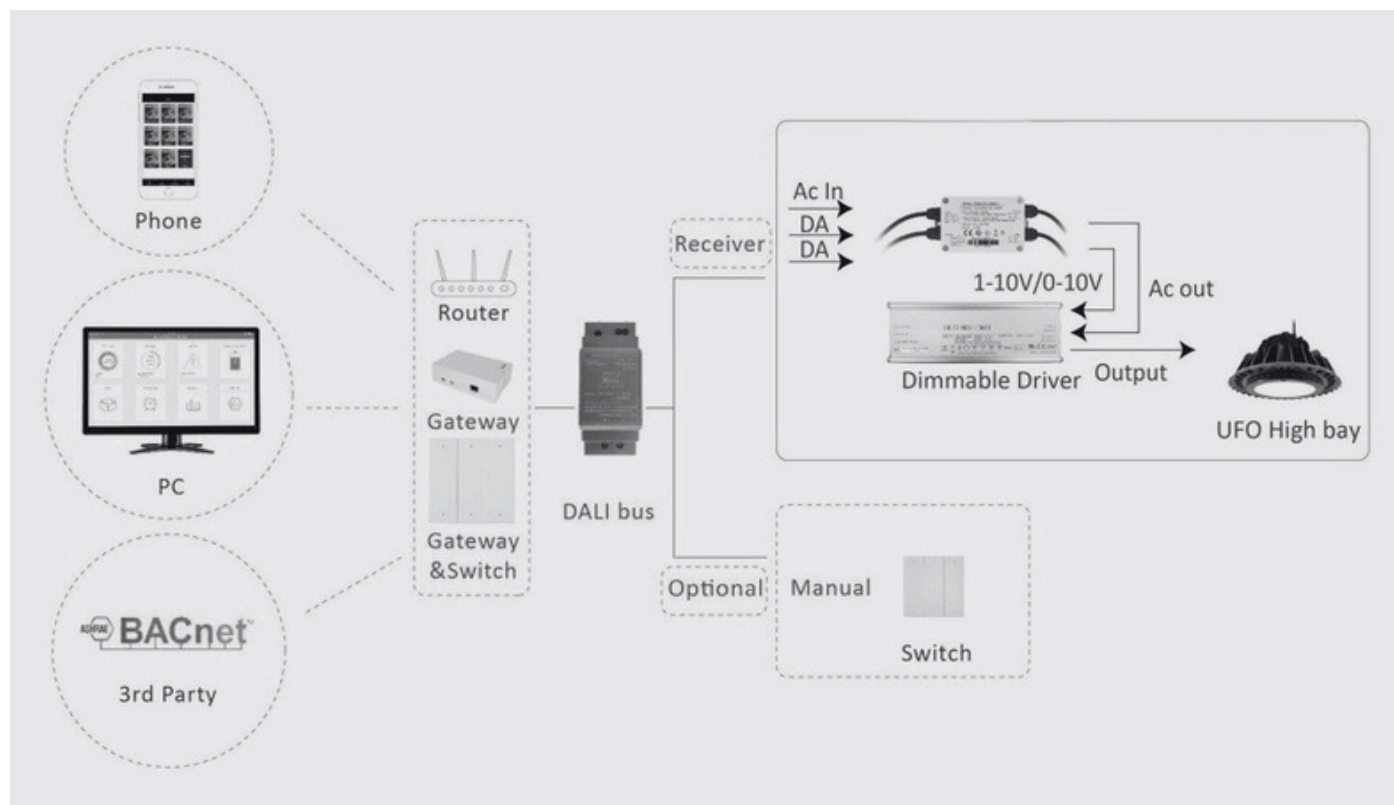
TLC912-D-SC-PM-1C-R-WP is a DALI 1-10V dimming LED controller. It is applied to industry LED lighting for dimming purposes. It works with 1-10V or 0-10V dimming driver like Meanwell, Philips and so on.

With Theorylight lighting control system, the controller manages short-distance or long-distance wireless control LED lights by Mobile Phone, Tablet, PC, Wall Switch, Remote Control, Daylight Sensor, and Motion Sensor.

Part no. [TLC912-D-SC-1C-R-WP](#)

TLC9	project name/ index	
12 D	DALI Protocol	
SC	single color	
PM	Power metering	
1C	1-channel dim out	
R	Relay to AC output	
WP	Waterproof	

## System Diagram



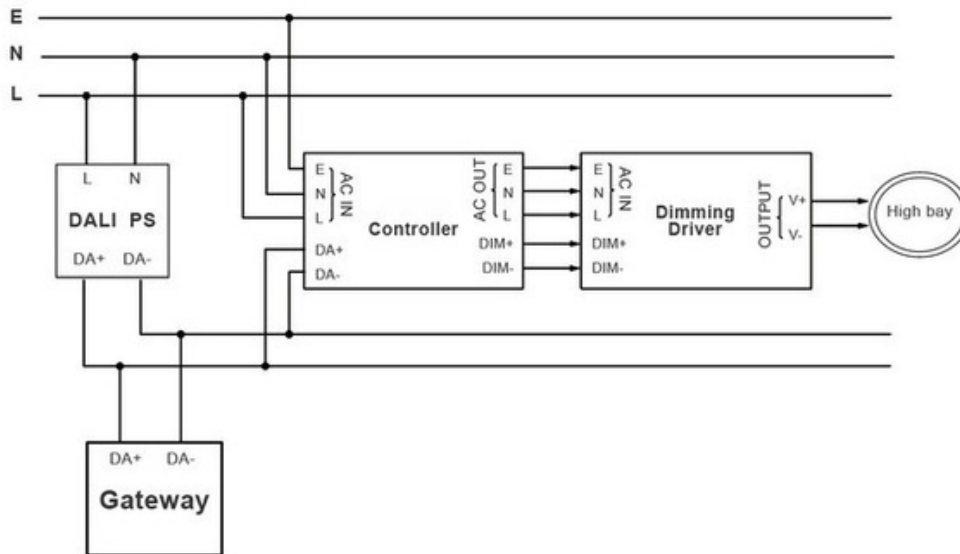
## Parameter

Model	TLC912-D-SC-1C-R-WP
Input Voltage	100-277V ac 50/60Hz
Output Voltage	100-277V ac 50/60Hz
	1-10V (15mA Max)
Max Current of Relay	3A Max
Control Range	DALI Bus within 300M
Standby Power	1.5W
Waterproof	IP65
Operating Temperature	-40°C to 85°C
N.W.	500g
G.W.	540g
Package	1PCS/ Package

## Terminal Definition/ Wiring Diagram

AC In	L N E	Input AC100 – 277V L
	L N E	Input AC100 – 277V N
	DIM+	Input AC100 – 277V E
AC Out	DIM-	Output AC100 – 277V L
	DA+	(To Driver) Output AC100 – 277V N
	DA-	(To Driver) Output AC100 – 277V E
Dim Out		(To Driver) 1-10V+
		output to driver
DALI		GND DALI
		+ DALI -

## Connection diagram



## Software Operation

1. Initial states. When the DALI controller is powered up, lights blink 4 times before staying 100%.
2. First 30 minutes. The DALI controller in initial state is searchable by the gateway in the first 30 minutes after power up.
3. Choose a gateway. Power on the gateway, open the App "Theorylight Pro", select gateway from Settings/Add device. Add device. Click "Search" button. Light is on 30% after added successfully.
4. Create a new area and add the DALI controller into this area. On/off /dim this controller in this area.
5. Binding.
6. Click "Binding Setting" on "Setting" page. Bind the DALI controller with motion sensor/ daylight sensor/ wall switch/ remote control.
7. For more operating details please refer to user manual of gateway.

## Initial States Setting

Soft reset: keep the device and gateway powered on and delete it on the "Theorylight Pro" App.

## Dimension

Product

