



TLC916-D-SC-PM-1C-R



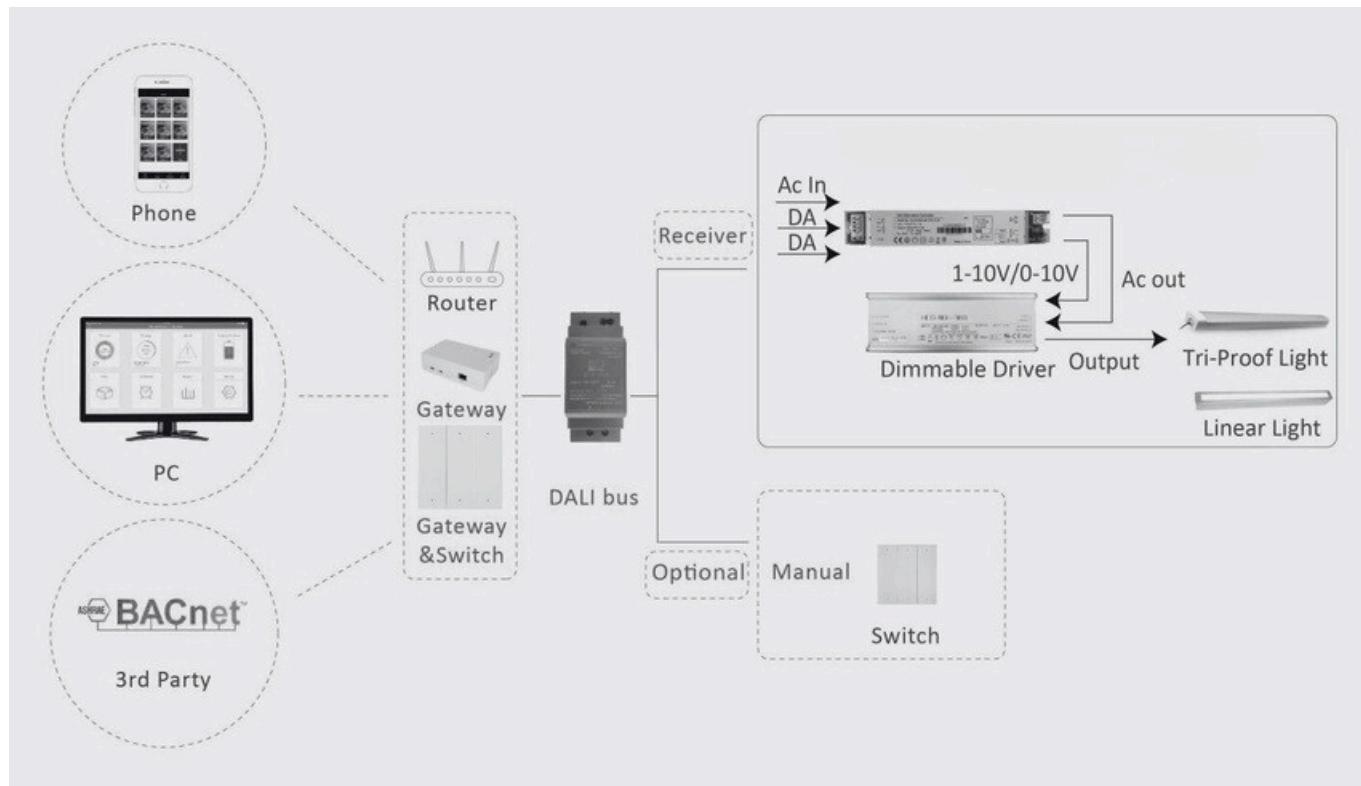
TLC916-D-SC-PM-1C-R is a 1-10V dimming LED controller with built-in DALI slave module. It is in DALI 2.0 standard protocol and has built-in power meter function; it is applied to industrial or commercial LED lighting for smart dimming purposes. It works with Meanwell, Philips and other 1-10V or 0-10V dimming drivers.

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. [TLC916-D-SC-PM-1C-R](#)

TLC916	project name/ index
D	DALI
SC	single color
PM	power metering
1C	1-channel dim out
R	relay

System Diagram



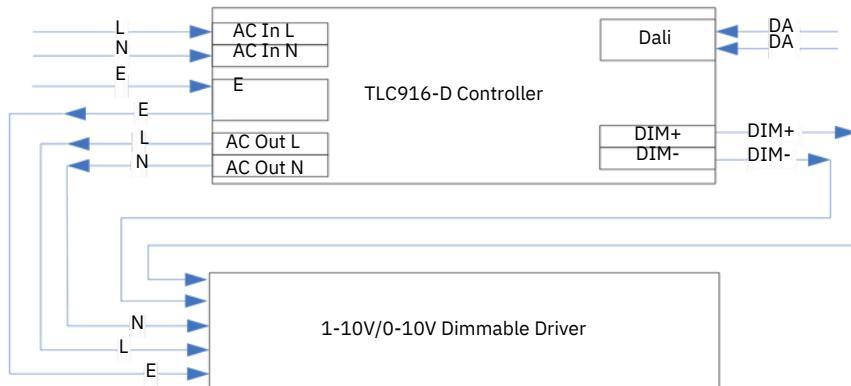
Parameter

Input Voltage	100-277V ac 50/60Hz
Output Voltage	100-277V ac 50/60Hz 1-10V (15mA Max)
Max Current of Relay	3A
Control Range	Bus within 300M
Standby Power	1.5W
Operating Temperature	-40°C to 85°C
N.W.	115g (external Antenna)
G.W.	137g (No Antenna)
Size	195x 30x 20.6mm
Package Size	209x 36x 26mm
Package	1PCS/
Housing Material	Package Iron

Terminal Definition/ Wiring Diagram

AC In	L	Input AC100 – 277V L
	N	Input AC100 – 277V N
	E	Input AC100 – 277V E
AC Out	L	Output AC100 – 277V L
	N	(To Driver) Output AC100 – 277V N
	E	(To Driver) Output AC100 – 277V E
Dim Out	DIM+	(To Driver) 1- 10V+
	DIM1-	output to driver
DALI	DA~	GND DALI bus
	DA~	DALI bus

Wiring Diagram



Software Operation

1. Initial states. When the DALI controller is powered up, lights blink 4 times before staying 100%. First 30 minutes. The DALI controller in initial state is searchable by the gateway in the first 30 minutes after power up. 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.
2. Create a new area and add the DALI controller into this area. On/off /dim this controller in this area.
3. Binding. Click “Binding Setting” on “Setting” page. Bind the DALI controller with motion sensor/ daylight sensor/ wall switch/ remote control.
4. For more operating details please refer to user manual of gateway.
- 5.
- 6.
- 7.

Initial States Setting

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

Dimension

