



TLC734-D-SC-PM-1C-R-WP



TLC734-D-SC-PM-1C-R-WP is a kind of waterproof dimming controller with built-in DALI slave module. It is developed based on DALI 2.0 standard protocol and has built-in power meter function. It is applied to street, office, and industry LED lighting for dimming purposes. It works with 1-10V or 0-10V dimming drivers like Meanwell, Philips and so on.

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

Part no. [TLC734-D-SC-PM-1C-R-WP](#)

TL34	project name/ index
D	DALI
SC	single color
PM	power metering
1C	1-channel dim out
R	relay
WP	waterproof

System Diagram

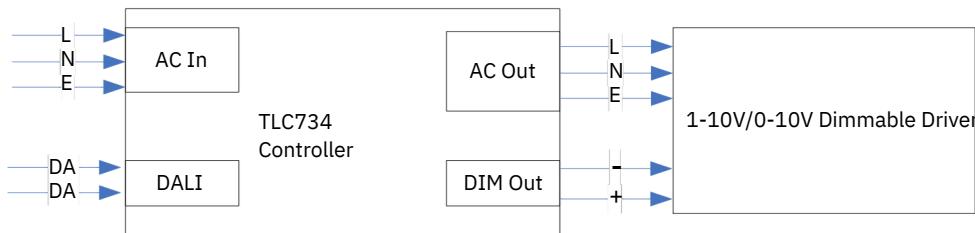
Parameter

Input Voltage	100-277V ac 50/60Hz
Voltage Max Current of	100-277V ac 50/60Hz
	1-10V (15mA Max)
Relay	3A Max
Control Range	DALI Bus within300M
Standby Power	1W
Operating Temperature	-40°C to 85°C
N.W.	193g
G.W.	224g
Housing Material	Nylon Fireproof
Water proof	IP65 Connecting Terminal Torque
Torque	< 0.3Nm Housing Screw Torque
	<0.2Nm

Terminal Definition

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

Wiring 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. Choose a gateway. Power on the gateway, open the App “Theorylight Pro”, select gateway from Settings/Add device. Add device.
3. 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.

Initial States Setting

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

Dimension

