



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

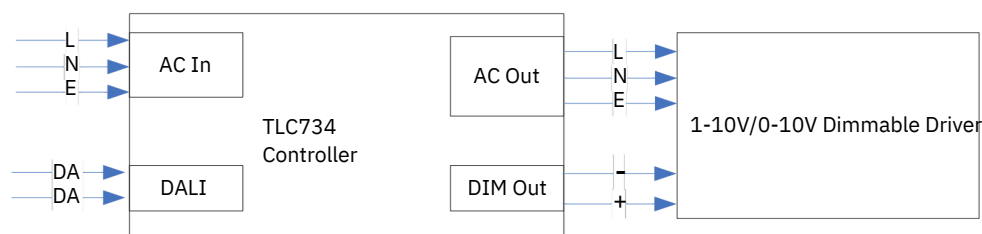
Parameter

| | | |
|------------------------|--------|---------------------------------|
| Input Voltage | Output | 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 within 300M |
| 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
3. gateway from Settings/Add device. Add device.
4. Click “Search” button. Light is on 30% after added successfully.
5. 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

