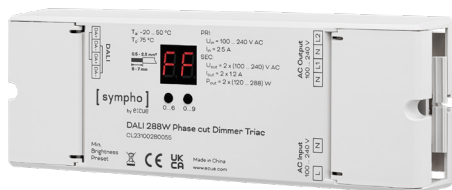# DALI 288W Phase cut Dimmer Triac   Instructions



## Highlights

- Dim and switch LED lamps and traditional lights
- 2 channels output 100 ... 240 V AC
- Max. 1.2 A 288 W per output
- Supports resistive and capacitive loads
- In compliance with IEC 62386-101:2014, IEC 62386-102:2014, IEC 62386-207 Ed2.
- Innovative minimum brightness setting function
- IP20

## Delivery Content                    Identcode

- DALI 288W Phase cut Dimmer Triac    CL23100280055
- Welcome note
- Instructions (English)

ℹ️  For further product information and downloads see www.ecue.com.

## Safety & Warnings

⚠️
- Do not install with power applied to device.
- Do not expose the device to moisture.
- Read the instructions prior to installation.

## Product Specifications

| | |
|---|---|
| Dimensions (W x H x D) | 170 x 59 x 29 mm / 6.69 x 2.33 x 1.14 in |
| Weight | 100 g |
| Power input | 100 ... 240 V AC (2-pin terminal) |
| Max. input current at "power input" | 2.5 A |
| Operating temperature | -20 ... 50 °C / -4 ... 122 °F |
| Storage temperature | -40 ... 85 °C / -40 ... 185 °F |
| Operation / storage humidity | 5 ... 95% RH, non-condensing |
| Mounting | with key holes on any stable vertical surface |
| Protection class | IP20 |
| Certificates | CE, UKCA, RoHS |

### Interfaces

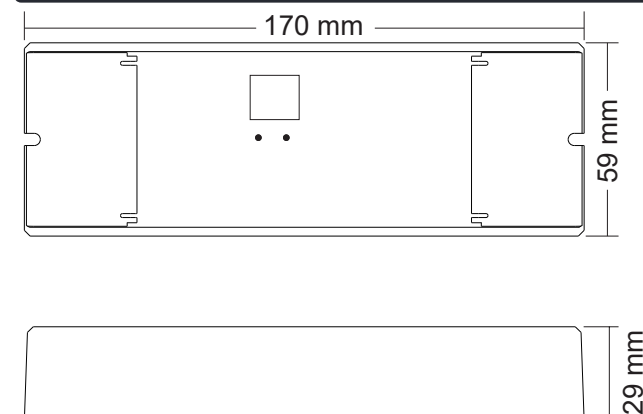| | |
|---|---|
| Input | 1 x DALI |
| Outputs | 1 x DALI |
| | 2 x AC channel: |
| | 2 x 100 ... 240 V AC, |
| | 2 x 1.2 A, |
| | 2 x 120 ... 288 W |
| Output dimming curve gamma | Logarithmic |
| User interfaces | 3 x button, display |

### Terminals

| | |
|---|---|
| Connection type | Screw terminal connectors |
| Wire size solid core, stranded wire with end ferrule | 0.5 ... 2.5 mm² (AWG20 ... AWG13) |
| Stripping length | 6 ...7 mm / 0.24 ... 0.28 in |
| Tightening / release of wire | Screw mechanism |

## Compatible Load Types

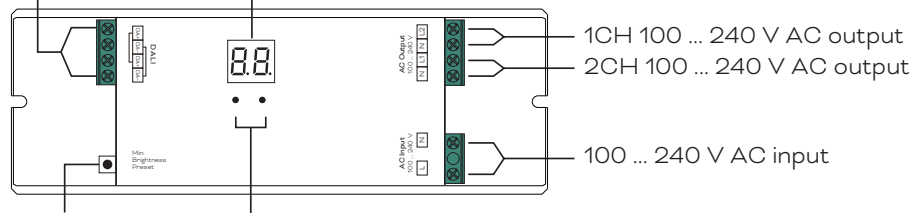| Load Type | Maximum Load |
|---|---|
| Dimmable LED lamps | 2 x 60 W @ 100 V output, 2 x 144 W @ 240 V output<br>Maximum number of LED lamps per channel is dependent on power factor result when connected to dimmer. |
| Dimmable LED lamps | 2 x 60 W @ 100 V output, 2 x 144 W @ 240 V output<br>Maximum number of drivers per channel is 60 W / 144 W divided by driver nameplate power rating. |
| Incandescent lighting, halogen 240 V lamps | 2 x 120 W @ 100 V output, 2 x 288 W @ 240 V output |
| Low voltage halogen lighting with electronic transformers | 2 x 60 W @ 100 V output, 2 x 144 W @ 240 V output |

## Dimensions



170 mm

59 mm

29 mm

CE   UKCA

## Installation

2 DALI groups
signal input & output     Digital display



1CH 100 ... 240 V AC output
2CH 100 ... 240 V AC output

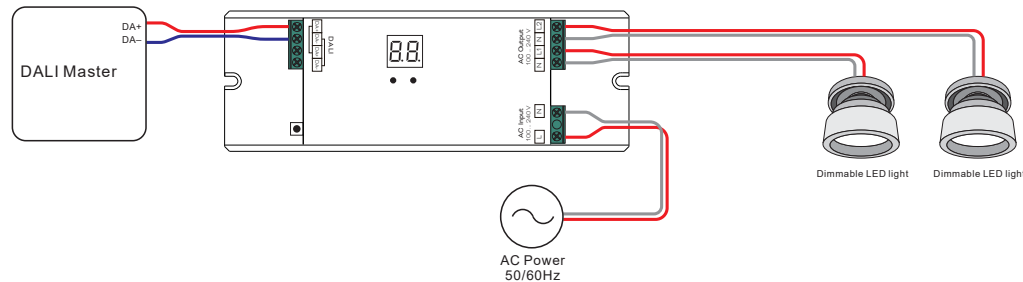100 ... 240 V AC input

Preset key:
To set or delete the
minimum brightness
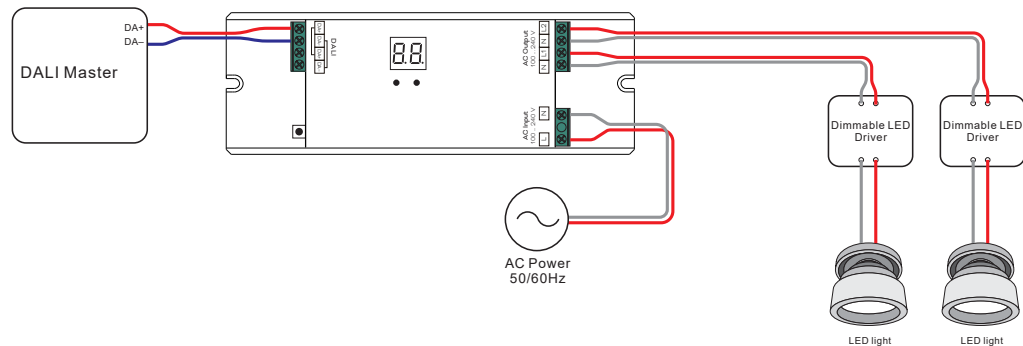
Manual set button

## Wiring Diagram

This phase dimmer adopts trailing edge dimming (reverse phase control). Please make sure the connected loads support reverse phase control.

1. System with dimmable LED light



DALI Master

Dimmable LED light     Dimmable LED light

AC Power
50/60Hz

2. System with dimmable LED driver



DALI Master

Dimmable LED Driver     Dimmable LED Driver

LED light     LED light

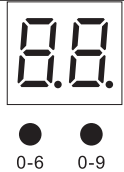AC Power
50/60Hz

## Device Setup

### a) Set DALI Address Manually via Buttons

**1.** Press and hold down **one** of the two buttons until the numeric digital display flashes, then release the button.
**2.** Click one of the two buttons once to select a digit, click again to change the digit until the desired DALI address appears. Click the left button to set the "tens" position and the right button to set the "units" position. The address can be set from **00 ... 63** and **FF**.

FF: the dimmer is unaddressed (factory default). Setting the DALI address to **FF** will reset the dimmer to factory default.

**3.** Then press and hold down one of the 2 buttons until the numeric digital display stops flashing to confirm the setting.



0-6     0-9

### b) DALI Address Assigned by DALI Master

The DALI address can be assigned automatically by a DALI master controller. Refer to the user manual of the DALI master controller for specific information.

### c) Set DALI Address Quantity

**1.** Press and hold down **both** of the two buttons until the numeric digital display flashes, then release the button.
**2.** Press the left button to select the number of addresses: "1A" for 1 address or "2A" for 2 addresses.
**3.** Then press and hold down one of the two buttons until the numeric digital display stops flashing to confirm the setting.

For example, when we set the address to 22:
When 1A is selected, both two channels will have the same address 22.
When 2A is selected, channel 1 will have address 22 and channel 2 will have address 23.

### d) Set Minimum Dimming Brightness Point

The factory dimming range is 1% ... 100%, but the 1% can be reconfigured as below:
Operate the DALI master to dim the luminaire to the desired brightness. Then press and hold down the **Brightness Preset** button until the luminaire flashes, which means that the minimum value is now set at this brightness. You cannot dim below this brightness point. To change the minimum brightness, repeat these steps.

Reset to factory default: dim up the light to 100%, then press the **Brightness Preset** button until the luminaire flashes.

Note:
1) Some load types may flicker when dimmed to 1%. It is therfore recommended to set the minimum brightness higher than 1% to avoid flickering during dimming process.
2) When DALI address number is set to **2A**, i.e.two output channels are controlled separately, the minimum brightness can only be set or reset for both channels together by adjusting the output brightness of channel 1. Once the minimum brightness is set, both output channels cannot be dimmed below this value.