Instruction Manual

RDA-800

0-10V/DSI/DLI Dimmer

2025
Version 2.0.2

UK CA

Contents

1.0 What is the RDA-800?.....3
2.0 Loadings.....3
3.0 Installation.....3
4.0 Initial checks.....5
5.0 Programming the RDA-800.....5
6.0 Appendix 1: LED Diagnostics.....6

1.0 What is the RDA-800?

The RDA-800 is a multifunctional dimming unit designed for controlling 0-10V, DALI, or DSI drivers.

The mains input of drivers can be controlled via the built-in 800VA relay on the RDA-800.

2.0 Loadings

Relay Output	Max number of drivers
800VA	DALI - 64 DSI - 64 0-10V - 25

3.0 Installation

⚠WARNING

Installation should only be carried out by a competent electrician.

- RDA-800 modules should be mounted in adequately dry and ventilated areas outside of any enclosed metal casings that may interfere with the wireless signal.
- Modules should be mounted vertically, with the terminals at the bottom, or horizontally.
- While the modules are designed to be maintenance-free, they should be mounted in an accessible location should investigation or re-addressing of the units be necessary.
- Ensure that the cable clamps are fitted tightly to secure the cables.

1		Remove the cover and cable clamp
2		Insert the supply “IN” cables as well as the load “OUT” cables.
3		Replace the cable clamp, ensuring the cables fit securely
4		Insert the control pair cables and set the 2-pin jumper according to the load requirements
5		Replace the cable clamp, ensuring the cables fit securely
6		Replace the covers

4.0 Initial checks

- When power is initially connected to the module, the load should power up to full brightness.
- The clear button can be used as a manual on/off switch to test the circuit.
- The internal LED behind the clear button will flicker when the module receives any Rako Wireless message and is a useful diagnostic indicator. The LED feedback becomes inactive after 20 minutes to avoid a nuisance light spill but can be reactivated by pressing the clear button. For more information on LED diagnostics, see 6.0 Appendix 1: LED Diagnostics.

5.0 Programming the RDA-800

Once the RDA-800 has powered up and has been tested with the setup button, the device is ready to be programmed.

Programming using a RAMPI or HUB
Wireless System Setup Guide

Programming using an RCM Keypad
Programming With An RCM Guide.

For further general information relating to the RDA-800, see the Wireless Module Application Sheet.

6.0 Appendix 1: LED Diagnostics

Wireless Range	LED Pulses	Description
Good wireless reception		When the unit is receiving successfully, there will be four rapid pulses on the LED when any wireless message is sent.
Bad wireless reception		When the unit is out of range, there will be intermittent pulses on the LED when any wireless message is sent. NB It is recommended to install a wireless repeater (WRB-100) if you are experiencing intermittent wireless range.

Should the module not respond to any of the above, check the supply voltage.

For additional diagnostic information, see the Wireless Device LED Diagnostics