Application Sheet
Wireless System Overview

UK CA

MADE IN BRITAIN

1 Introduction to Wireless

The Rako Wireless system offers a flexible, modular wireless solution for a wide range of project requirements. It can be installed using existing wiring, making it ideal for retrofitting properties where rewiring is impractical. The system's scalable design allows installations to grow as requirements change. The Rako Wireless system also benefits from compatibility with the Rako Wired System.

✓ Retrofit
✓ Simple Wiring
✓ Scalable
✓ Works with the Rako Wired System
✓ Wide range of control options

The information contained in this document highlights the extensive range of Rako Wireless products available and their specific use.

2 Dimming Modules

2.1 Mains Dimming - Trailing Edge

Trailing-edge dimming works reliably with modern LED lamps and low-wattage electronic loads, avoiding the flickering and interference problems that older dimming methods create with these fixtures.

Related Products:

- RMT-500 - 500W Trailing Edge Dimmer
- RMT-1200 - 1200W Trailing Edge Dimmer
- RMT-PILL - 250W Trailing Edge Backbox Dimmer

2.2 Mains Dimming - Leading Edge

Leading edge remains a practical choice for projects using incandescent or halogen lighting, as well as magnetic leading-edge dimmable transformers.

Related Products:

- RML-500 - 500W Leading Edge Dimmer
- RML-1200 - 1200W Leading Edge Dimmer

2.3 Non-Dimmable Control

Ideal for situations where dimming isn't possible, general lighting control, ventilation systems, outdoor lighting, or any 800W or less load requiring simple on/off switching.

Related Product:

- RMS-800 - 800W Switching Module

2.4 Digital Dimming

The Rako Digital Dimming range provides control for LED lighting systems across multiple protocols. 0-10V/DSI enables analogue dimming via voltage signals, DALI Broadcast allows simple commands to multiple fixtures simultaneously, while DALI Addressable provides individual control of each luminaire on the DALI network.

Related Products:

- RDA-800 - (0-10V/DSI/DALI Broadcast)
- RSR-DLI - DALI Controller
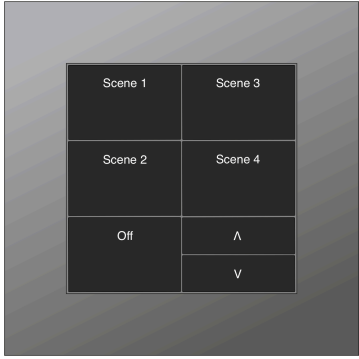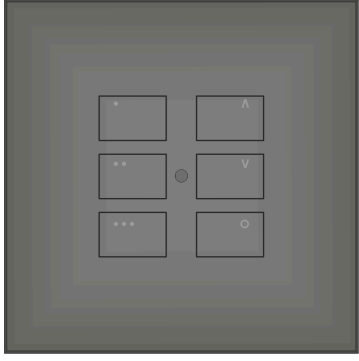- RSR-DMX - DMX 15 Channel Controller
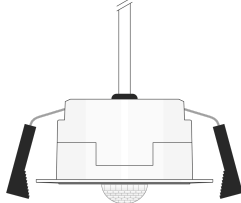
3 Curtain & Blind Control

A twin relay control system provides dual relay switching for open and closed operations. The three available products each handle different voltage and control types for curtain and blind motor applications.

Related Products:

- RACUB - Application-specific twin relay module
- RACUB-2L - Mains twin relay module
- RACUB-24VDC - Low voltage twin relay module

4 Keypads and Accessories

Device	Description	Diagram
RCM	The RCM is a single-room wireless keypad. It comes in a variety of button configurations for lighting and blind control.	
RNC	The RNC is a wireless programmable keypad. Each input is programmed via Rako Software.	
RK-MOD	The RK-MOD is a modular wireless keypad with customisable button arrangements. Each input is programmed via Rako Software.	
RK-EOS	The RK-EOS is a six-button programmable keypad. Each input is programmed via Rako Software.	
RCI-7M	The RCI-7M is a Wireless switching interface which takes up to 7 momentary inputs from third-party switches and is programmed to transmit Rako Wireless commands. Each input is programmed via Rako Software.	

RCI-4L	The RCI-4L is a Wireless switching interface which takes up to 4 latching inputs from third-party switches and is programmed to transmit Rako Wireless commands. Each input is programmed via Rako Software.	
RK-PIR	The RK-PIR is a presence detector that communicates via Rako Wireless. It allows the Rako system to be controlled based on occupancy, features three modes of conditional triggering, and offers an extensive and highly customisable programming interface via the HUB.	
RMR-VF	The RMR-VF is a voltage-free switching interface with 10 programmable inputs.	
RAM-VR	The RAM-VR is a multifunctional contact interface that can switch between mains and volt-free inputs to trigger a Rako wireless command.	

RK-HUB	The RK-HUB enables extensive programming features for the Rako Wireless system. Features include app control, holiday mode, macros, and mappings.	
WRB100	The WRB100 is a command repeater that can be used to increase the range between the transmitter and receivers by repeating commands it receives. It can also be used as a wireless receiver for the Rako Wired system. When used with a RAK-LINK, the WRB100 can receive commands from wireless keypads to control the RAK modules.	
RX-LINK	The RX-LINK is a Rako Wireless receiver for up to 2 RAK8 modules.	

To view the full range of products Rako offers, refer to the [Products](#) section of the Rako Website.