

RA2 Select In-Line Load Controls

The RA2 Select family of in-line dimmers and switches can control lighting and motor loads both locally and remotely when paired with Pico wireless controls or Radio Powr Savr occupancy/vacancy sensors. This provides a system that is convenient and easy to install.

RA2 Select in-line load controls use Lutron patented Clear Connect RF technology which provides reliable, wireless communication with other RA2 Select devices. Each load control can be controlled individually using a Pico wireless control. Using a RA2 Select main repeater allows devices to be part of a whole house solution that can be controlled remotely from anywhere in the world.

Features

- The reverse-phase dimmer is trailing-edge capable of up to 250 W of incandescent/halogen/ELV loads and up to 1 A/150 W of LED.
- The switch is rated for 6 AX of general purpose lighting load and 2 A 0.5 HP of motor load.
- Allows remote control from anywhere in the space when paired with Pico wireless controls.
- When used with the RA2 Select main repeater, the load controls can be programmed via the Lutron App* to incorporate lighting scenes and schedule daily events. Also, the load controls can also be controlled from anywhere in the world.
- To maximize energy savings and provide hands-free operation, load controls can be turned on/off automatically via Radio Powr Savr occupancy/vacancy sensors.
- Small size allows for simple retrofit installation.
- Remote device association allows for in-line controls to be added to a system without physically accessing product.



Control Type	Model Number	Frequency	Country/Region
Dimmer	RRK-R25NE-240	868 MHz	UK, Europe
Dimmer	RRM-R25NE-240	868 Limited	China
Dimmer	RRN-R25NE-240	865 MHz	India
Dimmer	RRQ-R25NE-240	434 Limited	Hong Kong, Israel
Switch	RRK-R6ANS-240	868 MHz	UK, Europe
Switch	RRM-R6ANS-240	868 Limited	China
Switch	RRN-R6ANS-240	865 MHz	India
Switch	RRQ-R6ANS-240	434 Limited	Hong Kong, Israel

* The Lutron app is required for setup and use with the RA2 Select main repeater. The Lutron app is compatible with iOS® devices version 8.0 or later and Android™ devices version 4.0 or later.

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Specifications

Power	220–240 V~ 50/60 Hz
Typical Power Consumption	Dimmer / Switch: < 0.5 W Test conditions: Load and LED are off
Regulatory Approvals	CE (RRK model only) IDMA (RRM model only) WPC (RRN model only)
Environment	Ambient operating temperature: 0 °C to 40 °C (32 °F to 104 °F), 0% to 90% humidity, non-condensing. Indoor use only.
Communications	RA2 Select in-line load controls communicate with the system through Radio Frequency (RF). They must be located within 18 m (60 ft) line-of-sight or 9 m (30 ft) through walls of a Pico wireless control, Radio Powr Savr sensor, or RA2 Select repeater. System devices operate at 868 MHz, 868 MHz Limited, 865 MHz or 434 MHz Limited frequencies.
ESD Protection	Tested to withstand electrostatic discharge without damage or memory loss, in accordance with IEC 61000-4-2.
Surge Protection	Tested to withstand surge voltages without damage or loss of operation, in accordance with IEEE C62.41-1991 Recommended Practice for Surge Voltages in Low-Voltage AC Power Circuits.
Power Failure	Power failure memory: should power be interrupted, the control will return to its previously set level prior to the interruption when power is restored.
Mounting	Allow adequate space to ensure convective cooling of load control. Remove any insulation, heat generating equipment, or obstructions within 120 mm (4.75 in) of the load control. For optimal RF performance, no metal or other electrically conductive material should be present within 120 mm (4.75 in) around the top and sides of the load control. The load control is not suitable for installation in places where it is fully enclosed in metal (e.g., metal enclosures, electrical cabinets) or within metal ceilings.
Wiring	RA2 Select in-line controls accept wire gauges between 0.5 mm ² to 2.5 mm ² (20 AWG to 14 AWG). Note: All outside wire diameters must be the same and must be between 5.2 mm–8.5 mm (0.2 in–0.3 in).
Device Limits	Up to 100 devices (e.g., load controls, Pico wireless controls, Radio Powr Savr sensors, shades, and repeaters) are supported per system. The main repeater counts as one device and four locations are reserved for wireless repeaters. Note: Load controls have load type and capacity limits. For more information, see Load Type and Capacity .
Warranty	www.lutron.com/TechnicalDocumentLibrary/Intl_Warranty.pdf

RA2 Select In-Line Load Controls

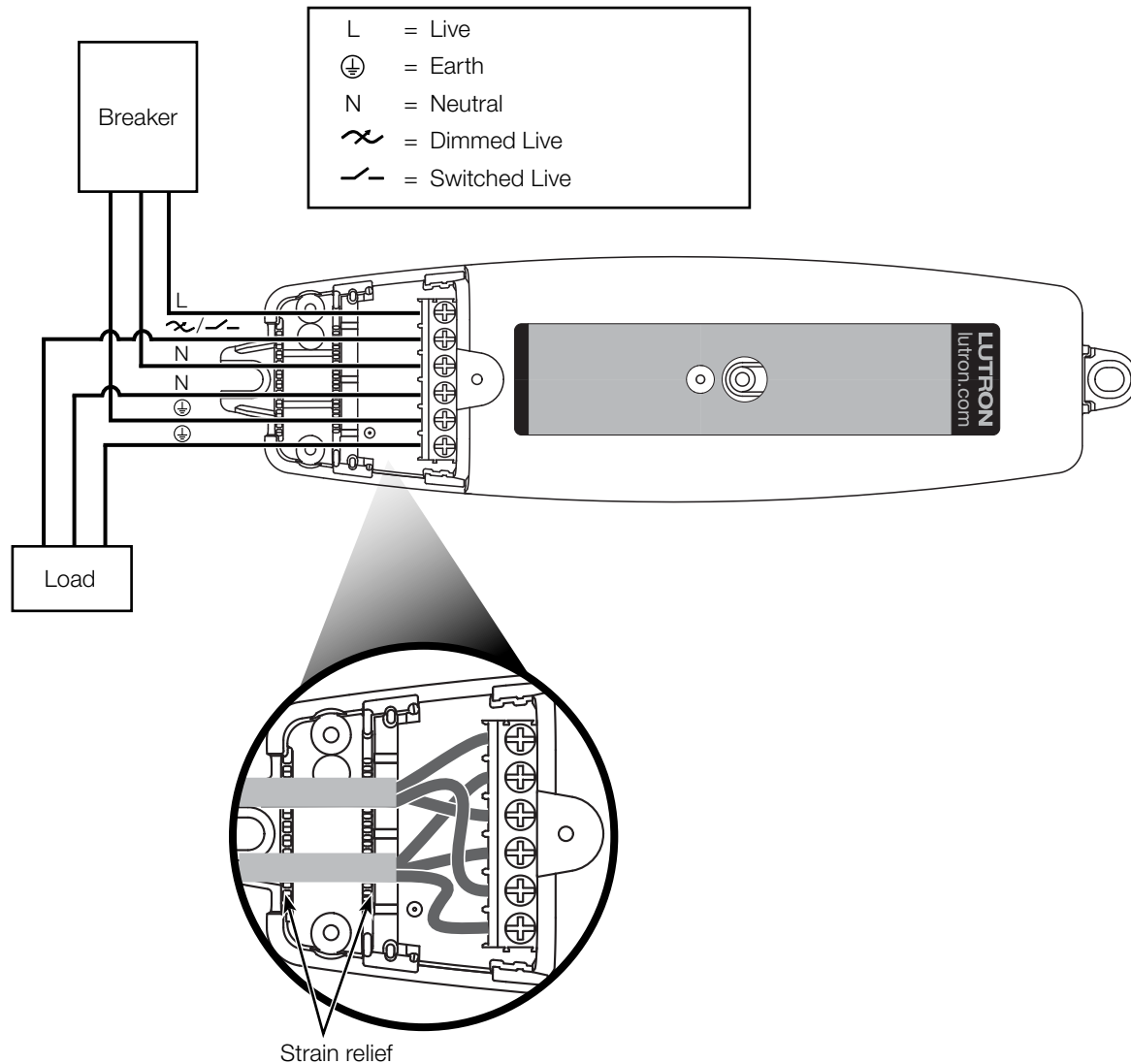
Load Type and Capacity

Model	Voltage	Load Types
RRK-R25NE-240 RRM-R25NE-240 RRN-R25NE-240 RRQ-R25NE-240	220–240 V~ 50/60 Hz	1 A 250 W – Incandescent, halogen, ELV   1 A 150 W – LED* 
RRK-R6ANS-240 RRM-R6ANS-240 RRN-R6ANS-240 RRQ-R6ANS-240		6 AX Lighting (all types)       2 A/0.5 HP Motor 

* LED rating is 1 A. If no current rating is specified, a power rating of 150 W can be used. Higher ratings (up to the incandescent rating) can be achieved for specific LED fixtures based on Lutron testing results. Refer to lutron.com/ledtool for compatibility testing results and the maximum number of LED fixtures. Using LED fixtures that are not tested can result in the fixtures not turning on or poor dimming quality. LED dimming performance can vary from fixture to fixture and cannot be guaranteed.

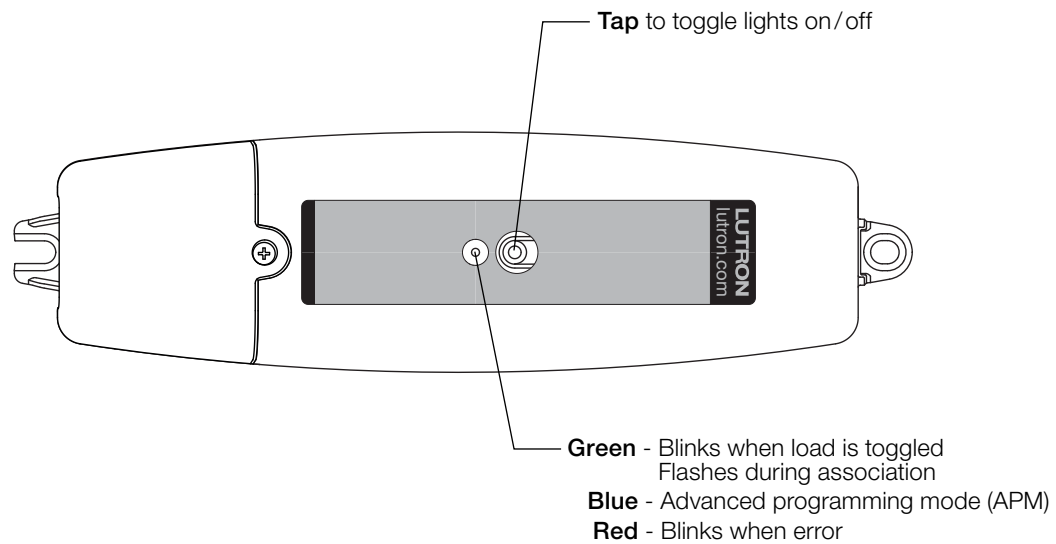
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Wiring

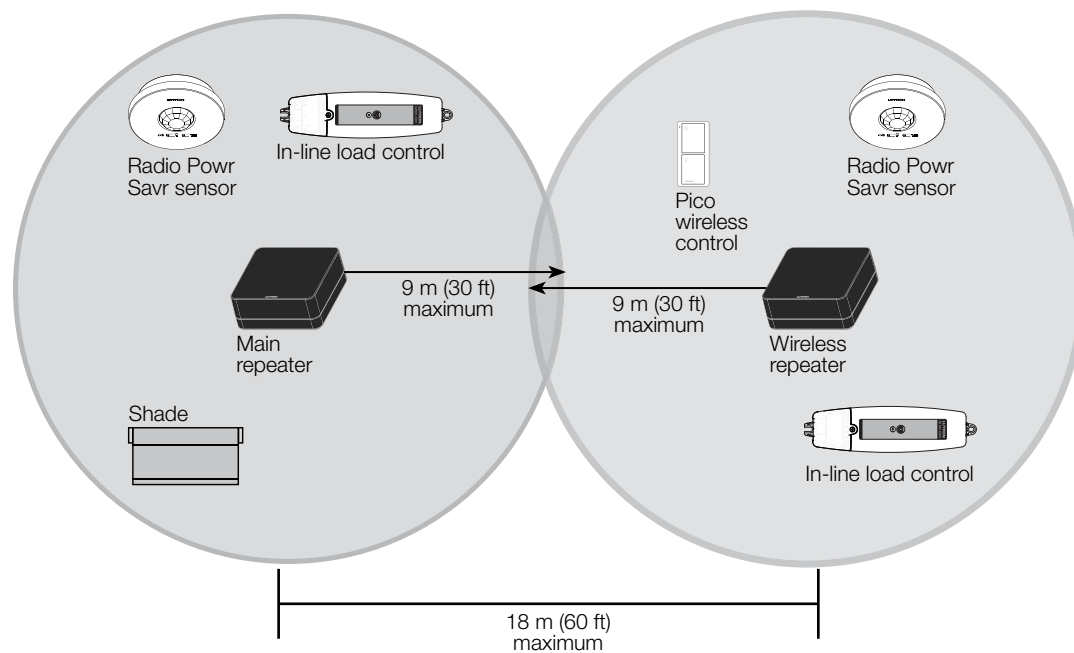


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Operation



RF Range



All devices must be located within 9 m (30 ft) of a repeater. The range can be extended with up to four RA2 Select wireless repeaters (Lx-REPPRO).

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Model Numbers

RRX-RXXXX-240

Frequency /
Channel Code

Device Type

Frequency/Channel Code

K = 868 MHz

M = 868 MHz Limited

N = 865 MHz

Q = 434 MHz Limited

Device Type

6ANS = Switch (Neutral Required)

25NE = Dimmer (Neutral Required)

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