369274b 1 04.16.13

Rania® Wireless RF Switch

The Rania_® Wireless RF Switch is a two-wire switch offering a retrofit solution with no neutral required. For the customer desiring energy savings, the Rania_® Wireless RF Switch can be controlled by Lutron_® Radio Powr Savr_™ wireless occupancy/vacancy sensor and Lutron_® Radio Powr Savr_™ wireless ceiling-mount daylight sensor.

Features

- Two-wire switch no new wiring required.
- Clear Connect_® RF Technology allows for communication with other Lutron_® Radio Frequency (RF) devices. See "Compatible RF Devices" on the Availability/Compatibility page for more information.
- Multi-way functionality through Rania_® Accessory Switches.
- Power failure memory: Should power be interrupted, the control will return to its previous state.
- When used with a daylight sensor, daylight compensation is accomplished through Lutron's reliable open loop control.



Front View: Frameless Faceplate RS-SA05-B-FAW-M

RS-SB05-B-FAW-M RS-SN05-B-FAW-M



Front View: Frame/Insert Faceplate

RS-SA05-B-IAW-M RS-SB05-B-IAW-M

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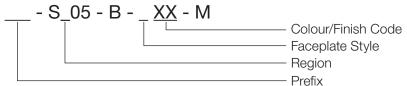
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Job Name:	Model Numbers:	
Job Number:		

Page

369274b 2 04.16.13

Models Available

Rania. Wireless RF Switch and Kit Models



Prefix:

RS - Rania_® Switch

RRF - Kit Models (1 Rania® Wireless RF Switch and 1 Radio Powr Savr™ Occupancy/Vacancy Sensor) (Not Available in India)

Region:

A - Europe

B - China

N - India

Faceplate Style:

F - Frameless Faceplate

I - Frame/Insert Faceplate (Not available in India)

B - Black Frame/Metal Insert Faceplate (Not available in India)

Colours and Finishes:*

Available Colours



Available Metal Finishes (not available in India)



^{*} Due to printing limitations, colours and finishes shown cannot be guaranteed to perfectly match actual product colors and finishes.

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LUTRON SPECIFICATION SUBMITTAL		Page
Job Name:	Model Numbers:	
Job Number:		

369274b 3 04.16.13

Specifications

Standards

RS-SA05 & RRF-SA05 models

- Certified for IEC/EN compliance
- CE
- Certified for use in Europe, UAE and India

RS-SB05 & RRF-SB05 models

- Certified for IEC/EN compliance
- CF
- Certified for SRRC compliance
- Certified for iDA compliance
- Certified for use in China and Singapore

RS-SN05 model

- Lutron_® Quality Systems registered to ISO 9001:2008
- WPC Type Approved (India)

Requirements

• For multi-way switching, use only one Rania® Wireless RF Switch with up to 9 Rania® Accessory Switches.

Power / Performance

- 220 to 240 V∼ 50/60 Hz
- Minimum Load: 25 W
- Maximum Load: 5 AX

Maximum transformer size of 100 VA. Multiple transformers can be used for up to 5 A of total load, 4 A for motor loads

Radio Frequency

- RS-SA05 & RRF-SA05 models: 868 MHz
- RS-SB05 & RRF-SB05 models: 868 MHz (Limited)
- RS-SN05 model: 865 to 867 MHz

Load Types

- Fluorescent
- Compact Fluorescent Lamps (CFLs)
- Incandescent
- Halogen
- Electronic Low-Voltage
- Magnetic Low-Voltage
- Motor Loads

Environment

- Ambient operating temperature: 0 to 40 °C.
- 0 to 90% humidity, non-condensing.
- Indoor use only.

Wiring

 Maximum wire length between the Rania_® Wireless RF Switch and the furthest Rania_® Accessory Switch is 50 m.

Mounting

- Mountable in round or square back boxes with a minimum depth of 35 mm.
- Trim ring is available for 25 mm back boxes.

System Communications and Capacity

- Rania_® Wireless RF Switch controls communicate with the Radio Powr Savr_™ sensors through RF.
- Controls must be located within 10 m of a Radio Powr Savr_™ sensor.

Shunt Capacitor

- In certain applications, a shunt capacitor (LUT-MLC) will need to be added at the load for proper operation. This is most common for non-dimmable CFLs.
- The product is packaged with a 0,47 μF X1 capacitor with flying leads rated for 310 V~.

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Page

369274b 4 04.16.13

Availability/Compatibility

Compatible RF Devices:

	Lutron₀ Radio Powr Savr™					
Models Available	Occupancy/Vacancy Ceiling Sensors	Occupancy/Vacancy Wall Sensors	Occupancy/Vacancy Hall Sensors	Occupancy/Vacancy Corner Sensors	Daylight Sensors	Pico _® Wireless Controller
RS-SA05-B-FXX-M RS-SA05-B-IXX-M RS-SA05-B-BXX-M RRF-SA05-B-FXX-M RRF-SA05-B-IXX-M RRF-SA05-B-BXX-M	LRF3-OCRB-P	LRF3-OWLB-P	LRF3-OHLB-P	LRF3-OKLB-P	LRF3-DCRB-P	PK-2B PK-3BRL PK-2BRL
RS-SB05-B-FXX-M RS-SB05-B-IXX-M RS-SB05-B-BXX-M RRF-SB05-B-FXX-M RRF-SB05-B-IXX-M RRF-SB05-B-BXX-M	LRF4-OCRB-P	LRF4-OWLB-P	LRF4-OHLB-P	LRF4-OKLB-P	LRF4-DCRB-P	PM-2B PM-3BRL PM-2BRL
RS-SN05-B-FXX-M	LRF5-OCR2B-P	LRF5-OWLB-P	LRF5-OHLB-P	LRF5-OKLB-P	LRF5-DCRB-P	PN-2B PN-2BRL PN-3B PM-3BRL

Compatible Multi-Way Controls:

RS-SNAS-B-FXX*-Y	Rania _® Accessory	/ Switch,	Frameless	Faceplate
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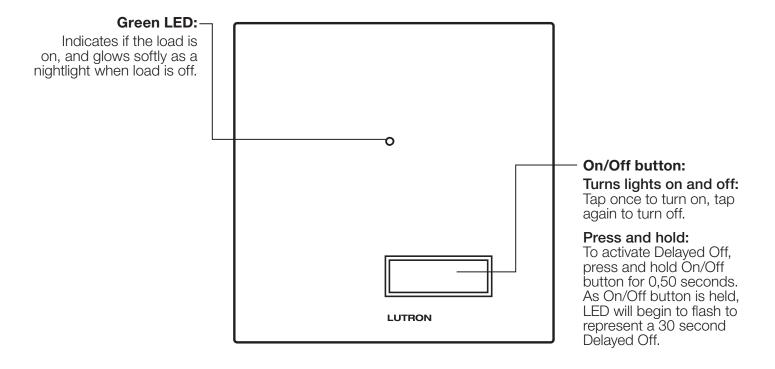
• RS-SNAS-B-IXX*-Y Rania® Accessory Switch, Frame/Insert Faceplate (Not Available In India)

• RS-SNAS-B-BXX*-Y Rania_® Accessory Switch, Black Frame/Metal Insert Faceplate (Not Available In India)

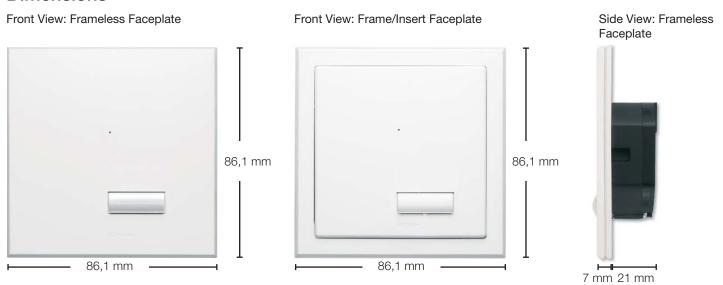
^{* &}quot;XX" in the model number represents the colour/finish code. See "Colours and Finishes" on Models Available page.

369274b 5 04.16.13

Operation



Dimensions



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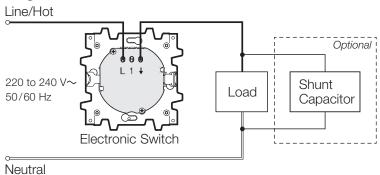
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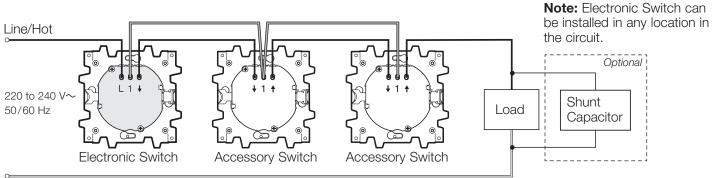
369274b 6 04.16.13

Wiring Diagrams

Single Location



Multi-Location



Neutral

LUTRON SPECIFICATION SUBMITTAL

LUTRON SPECIFICATION SUBMITTAL		Page
Job Name:	Model Numbers:	
Job Number:		