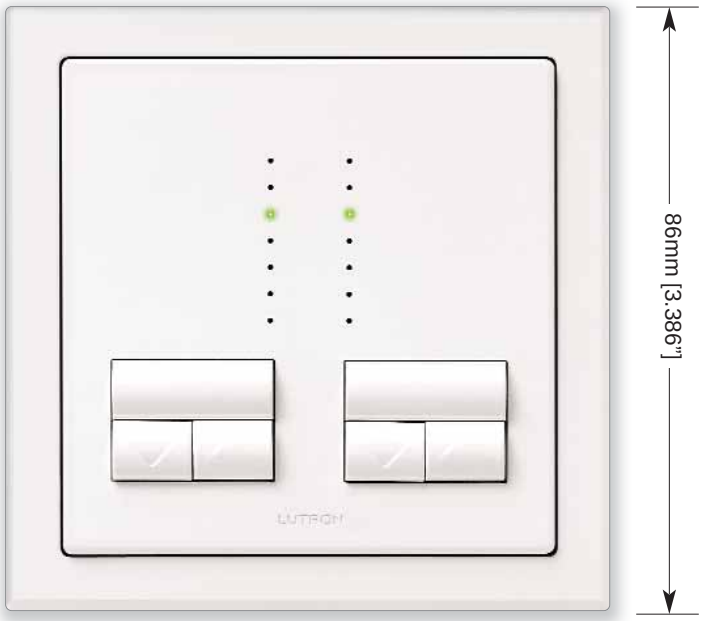
Lutron® | Rania® digital dimmer

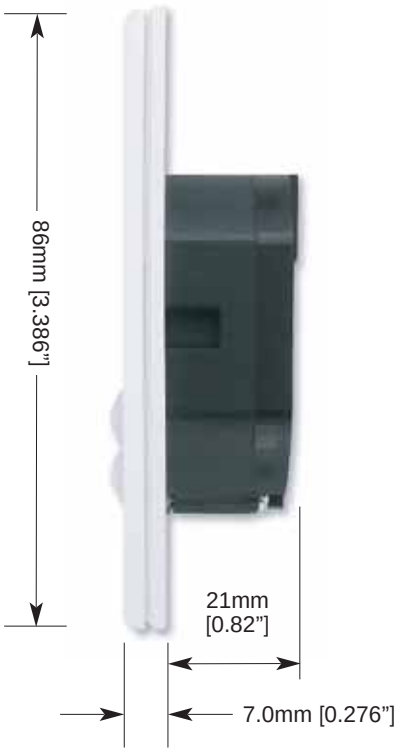
Rania
For 230 V loads, multiway
Max. 500 W, min. 50 W
For 230 V and 12 V loads, multiway
Max. 450 W/VA, min. 50 W/VA



Rania dual
For 230 V or 12 V loads, multiway
Max. 2 x 250 W/VA, min. 2 x 50 W/VA

LUTRON®
LIGHTING CONTROLS

Lutron® | Rania® digital dimmer



Product family features:

- Single and dual dimmer available
- Green LEDs indicate light level
- Lights softly fade to on/off
- Auto load-sensing capability
- Acoustically quiet operation
- Dim your light from up to 10 locations (requires accessory dimmers)
- Double-tap to full on
- Memorises last light level
- Replaces a standard switch
- Full family of products for all modern lighting sources
- Family includes wiring accessories

Specifications for single and dual dimmer:

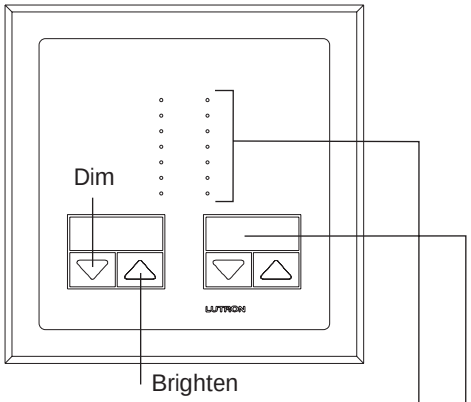
- 220 - 240 VAC, 50/60 Hz
- Capacity
  - Single dimmer for 230 V loads only: Max. 500 W, min. 50 W
  - Single dimmer for 230 V and 12 V loads (universal): 450 W/VA, min. 50 W/VA
  - Dual dimmer for 230 V loads only: Max. 2 x 250 W, min. 50 W
  - Dual dimmer for 230 V and 12 V loads (universal): Max. 2 x 250 W/VA, min. 2 x 50 W/VA
- CE approved
- Universal dimmer available with leading and trailing edge capability
- Auto-reset thermal overload protection
- Auto-reset short-circuit and over-current protection
- Lightning strike surge protection
- 10-year power-failure memory
- Voltage regulation
- Wall box with a depth of at least 32mm recommended; square wall box required for dual dimmer
- Precise colour consistency

High load and fluorescent interfaces for use with RNSI and RNDI dimmers

- To increase load capacity:
  - Max. 1840 W of 230 V loads, use RN-PB-B-AW-M
  - Max. 1200 W/VA of 12 V loads, use NGRX-ELVI-CE-WH-CGP1858
- To control fluorescent loads, use GRX-TVI-CGP1859; Max. switched load 10A, 0-10 V output rating 10 A - 300 mA sinks current only (max. 150 ballasts)

Lutron® | Rania® digital dimmer

Rania dimmer



Operation

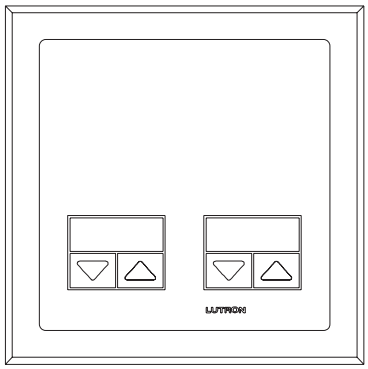
LEDs indicate light level.

On/Off tapswitch: Fades lights on or off.

TURN ON: Tap once (lights fade to the preset level), tap twice (lights turn on to full brightness).

TURN OFF: Tap once (lights fade-to-off), press and hold (for delayed fade-to-off).

Rania accessory dimmer



Multi-location dimming

For use with multi-location dimming only – use up to nine accessory dimmers with one Rania multi-location dimmer.

Operation

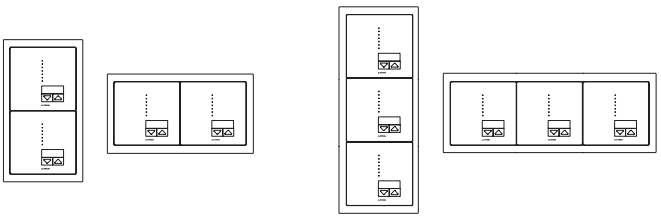
On/Off tapswitch: Fades lights on or off.

TURN ON: Tap once (lights fade to the preset level), tap twice (lights turn on to full brightness).

TURN OFF: Tap once (lights fade-to-off),press and hold (for delayed fade-to-off).

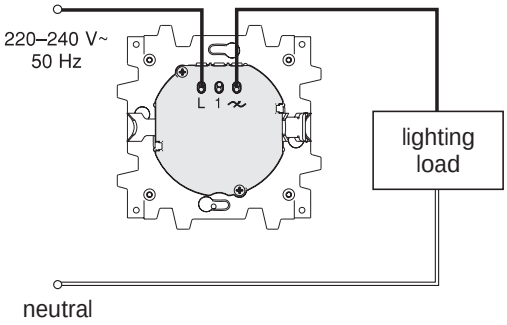
Ganging and derating

When ganging this product with other Lutron dimmers, derate maximum capacity to 350 W/VA.

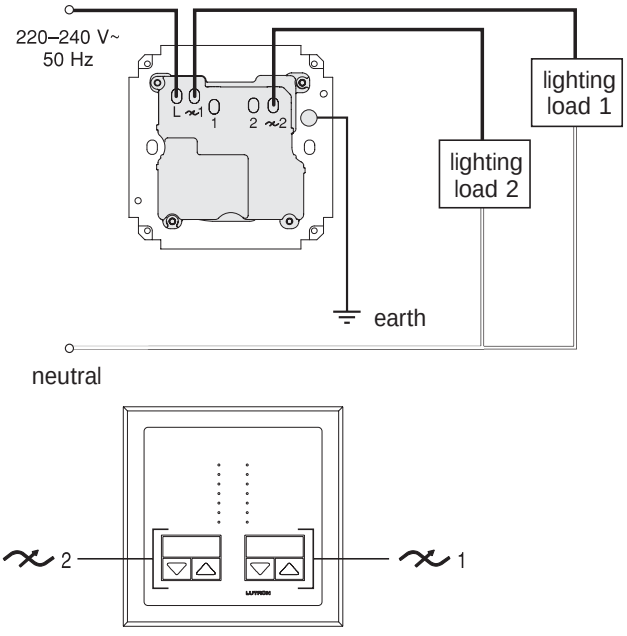


Use Lutron 2-gang or 3-gang frames to gang Lutron dimmers and wiring accessories.

Rania single dimmer



Rania dual dimmer



For multi-location wiring diagram please refer to Rania installation instructions.

Choosing your dimmer

You know the mood you want. The next question is: how do you create it? Here's how to choose the right dimmers for your home.

Step 1
Choose the style and colour that best matches or complements the décor of the room.

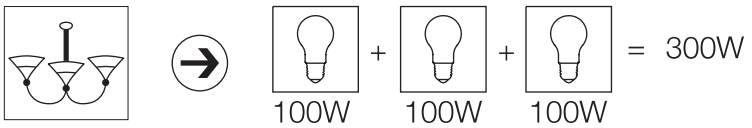
Step 2
Choose the dimmer designed to control the kind of lights you have in the room.

Types of lighting

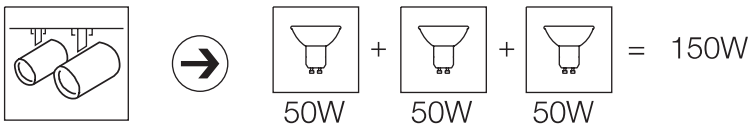
	INC Incandescent 230/240 V		**MVH** Mains voltage halogen 230/240 V		**LV** Electronic and magnetic low voltage 12 V

Step 3
Calculate the total load.
Incandescent light bulbs have wattage ratings marked on the bulb. Add up the wattage of all the bulbs in the fixture and select a dimmer that is rated above or equal to your total wattage.

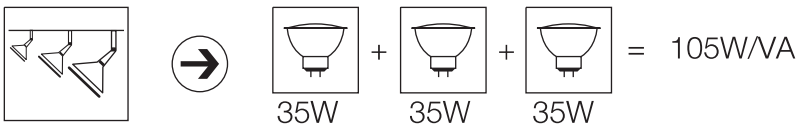
Incandescent 230/240 V



Mains voltage halogen 230/240 V

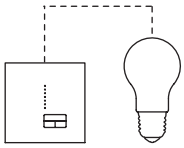


Electronic and magnetic low voltage 12 V

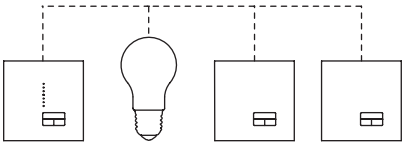


Step 4
Decide how many dimmers/switches control the same light fixture and choose from these options.

If there is only one switch, use a single-pole dimmer to dim a light from one location. (2-way or multi-location dimmers will work in this application.)



Multi-location dimming to dim a light from more than one location – up to ten. Choose one intelligent dimmer and up to nine accessory dimmers. Accessory dimmers work together with the intelligent dimmer, enabling more than one control to dim a light fixture.



Step 1	Step 2			Step 3	Step 4		
Product	**INC 230/240 V**	**MVH 230/240 V**	**LV 12 V**	**Load**	**1 way**	**2 way**	**Multi way**
Rania single (INC)	x	x		500 W	x	x	x
Rania single	x	x	x	450 W/VA	x	x	x
Rania dual	x	x	x	2 x 250 W/VA	x	x	x

Ordering your dimmer

Here is an example of how to order Rania dimmers for the look and function you desire.

RNSU-452B-IAW-M

Rania	RN
Single	S
Dual	D
Incandescent (INC)/Mains voltage halogen (MVH)	I
Universal (INC / MVH and low voltage halogen)	U
Capacity dual 2 x 250 W/VA	25
Capacity single Universal model: 450 W/VA Incandescent model: 500 W	45
2-way / Multi-location	2
Hanging blister pack	H
Box packaging	B
Insert + Frame	I
Frameless	F
Faceplate colour Arctic White (AW) Argentum (AR) Mica (MC) Satin Nickel (SN) Bright Chrome (BC) Bright Brass (BB)	AW
Language of installation instructions Multilanguage (M) Chinese (C) English (E) Spanish/Portuguese (S)	M

Rania dimmer
Shown in Arctic White
Model # RNSU-452B-IAW-M

Colour options

Metals

Arctic White (AW) | Argentum (AR) | Mica (MC) | Satin Nickel (SN) | Bright Chrome (BC) | Bright Brass (BB)

Other colours and finishes available upon request.

Ordering your accessories

Single switch
2-way, 250 V / 10 A

Dual switch
2-way, 250 V / 10 A

Intermediate switch
4-way, 250 V / 10 A

Phone/tv jack

French (Type E) socket
250 V / 16 A

Schuko (Type F) socket
250 V / 16 A

Product	Model number
Single switch	RN-SS10-**X**-**SYY**-**Z**
Dual switch	RN-DS10-**X**-**SYY**-**Z**
Intermediate switch	RN-IS10-**X**-**SYY**-**Z**
16 A schuko socket	RN-RF16-**X**-I**YY**-**Z**
16 A French socket	RN-RE16-**X**-I**YY**-**Z**
13 A UK switched socket	RN-SRSU-**X**-F**YY**-**Z**
Twin UK switched socket	RN-DRSU-**X**-F**YY**-**Z**
10 A Chinese socket	RN-RC10-**X**-F**YY**-**Z**
UK phone jack	RN-UKPJ-**X**-F**YY**-**Z**
RJ11 phone jack cat 3	RN-RJ11-**X**-**SYY**-**Z**
French phone jack	RN-FRPJ-**X**-I**YY**-**Z**
RJ45 network jack cat 5	RN-RJ45-**X**-**SYY**-**Z**
SAT jack (75 Ohm)	RN-TF75-**X**-**SYY**-**Z**
Triplexer – terminated	RN-TRI1-**X**-I**YY**-**Z**
Triplexer – intermediate	RN-TRI2-**X**-I**YY**-**Z**
2-port frame (frame only)	RN-2PFR-**X**-**SYY**-**Z**
RJ11 connector	CON-1P-C3-**YY**
RJ45 connector cat 5	CON-1P-C6-**YY**
RJ45 connector cat 6	CON-1P-C5E-**YY**
Coax cable connector	CON-1C-**YY**
BNC jack	CON-1B-**YY**
MT-RJ fibre jack	CON-1F-MTRJ-**YY**
SC simplex fibre jack	CON-1F-SC-**YY**
LC fibre jack	CON-1F-LC-**YY**
ST fibre jack	CON-1F-ST-**YY**
1 gang frame	RN-1GANG-**X**-**YY**-**Z**
2 gang frame	RN-2GANG-**X**-**YY**-**Z**
3 gang frame	RN-3GANG-**X**-**YY**-**Z**
Blank faceplate	RN-BLFP-**X**-**SYY**-**Z**

Key to model numbers:

RN-SS10-**X**-SYY-**Z**

- RN: product
- SS10: accessory
- **X**: package type
- S: frame style
- YY: colour/form
- **Z**: language code

Example:

RN-SS10-**B**-FAW-**M**

- RN: Rania
- SS10: single switch
- **B**: boxed
- F: frameless
- AW: Arctic White
- **M**: multi-language

X = Package type
B = Boxes
H = Hanging clamshell

YY = Colour/finish
AW = Arctic White
AR = Argentum
MC = Mica
SN = Satin Nickel
BC = Bright Chrome
BB = Bright Brass

S = Frame style
F = Frameless
I = Frame inset

Z = Language code
For boxes select:
M = Multi-language
(Chinese, Dutch, English, French, German, Italian, Portuguese, Spanish)
For hanging clamshells:
E = English
S = Spanish
C = Chinese

LUTRON®
LIGHTING CONTROLS

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