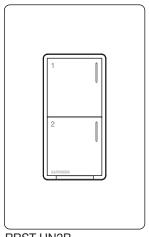
Hybrid keypads function as a dimmer and keypad combined into a single device. Hybrid keypads are great for retro-fit applications since they eliminate the need to install two separate devices.

Hybrid keypads feature large, easy-to-use buttons. LED bars on each button aid in locating the buttons in low light conditions. Printing colors are pre-selected to provide increased readability, regardless of the keypad finish or color. Hybrid keypads include a Front Accessible Service Switch (FASS) for safe lamp replacement.

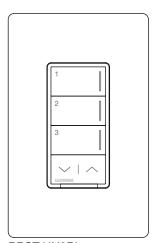
Default printing provides the ability to immediately use the keypad in the space. Once the required custom printing has been identified, a replacement button kit can be redeemed using the RadioRA 3 setup software.

Replacement button kits are available in a variety of colors and finishes with custom printing to clearly identify each button's function. The flexible design of the keypads allows the color, number of buttons, and the configuration of the buttons to be changed in the field, after installation.

Use with Lutron designer-opening wallplates (sold separately). Lutron wallplates snap on with no visible means of attachment.

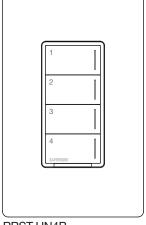






RRST-HN3RL

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RRST-HN4B

Model Numbers

RRST-HN2B-XX* 2-Button Hybrid Keypad (default printing)

RRST-HN3RL-XX* 3-Button Hybrid Keypad with Raise/Lower (default printing)

RRST-HN4B-XX* 4-Button Hybrid Keypad (default printing)

STBK-H Replacement Button Kit

^{* &}quot;XX" in the model number represents color/finish code. See Colors and Finishes at end of document.

Specifications

Model Numbers	Hybrid keypads: RRST-HN2B, RRST-HN3RL, RRST-HN4B Replacement Button Kits: STBK-H				
Power	120 V∼ 50/60 Hz				
Typical Power Consumption	0.5 W (1.5 W max.) Test conditions: All LEDs on, constant transmission				
Regulatory Approvals	cULus, NOM, FCC, IC				
Environment	Ambient operating temperature: 32 °F to 104 °F (0 °C to 40 °C), 0% to 90% humidity, non-condensing. Indoor use only.				
Communications	For reliable performance in a system, this device should be placed within 25 ft (7.6 m) of two additional compatible wireless devices, such as RadioRA 3 dimmers and the RadioRA 3 processor.				
ESD Protection	Tested to withstand electrostatic discharge without damage or memory loss, in accordance with IEC 61000-4-2.				
RTISS Equipped	Circuitry compensates in real time for incoming line-voltage variations.				
Mounting	Requires a U.S. wallbox. $3\frac{1}{2}$ in (89 mm) deep recommended, 2.5 in (63.5 mm) deep minimum.				
Wiring	Hybrid keypads require a 120 V∼ hot and neutral wire connection.				
Warranty	1-Year Limited Warranty www.lutron.com/TechnicalDocumentLibrary/warranty.pdf				

Design Features

- At the press of a single button, lights fade ON or OFF to desired levels and shades/draperies open or close to desired positions.
- Light levels and shade/drapery positions can be fine-tuned by pressing and holding the raise/lower buttons.
- Programmable to select scene or room preset levels or positions.
- Adjustable status LED intensity through system level programming.
- Internal dimmer is controlled by the keypad buttons to verify proper installation prior to system programming.
- Internal dimmer can be assigned to any button on the hybrid keypad and can be programmed to be controlled by any keypad.
- Configurable raise/lower selection using programming software.
 - Last button pressed (default) devices controlled by the last button pressed will raise/lower.
 - Programmed devices only the devices programmed to the button will raise/lower.

- Keypads include one credit redeemable for a single custom printed replacement button kit through the setup software. Terms and conditions apply.
- Advanced dimming technology designed for compatibility with a broader range of highefficiency bulbs.
- Programmable high-end and low-end trim settings to customize the dimming range and optimize LED compatibility.
- Programmable phase selection to optimize compatibility with different load types.

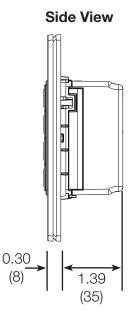
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Sunnata RF Hybrid Keypads

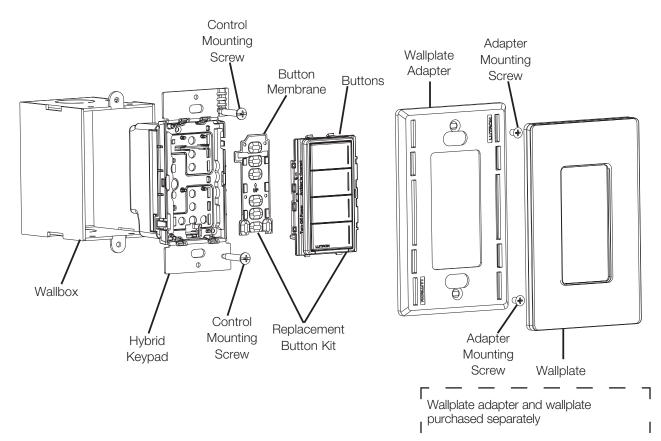
Dimensions

All dimensions are shown as in (mm)

Front View 4.69 (119)2.94 (75)



Mounting and Parts Identification



Load Type and Capacity

			BBB			
Load Type ²	Minimum Load	A Not Ganged	B End of Gang	C Middle of Gang	Neutral Connection	Required Phase Mode ³
LED/CFL	1 bulb	150 W	100 W	100 W		Either
MLV Transformer with LEDs	Se	e Application No		Forward		
ELV Transformer with LEDs		No Dera		Reverse		
MLV Transformer with Halogen	10 W	350 VA (250 W)	250 VA (200 W)	200 VA (150 W)		Forward
ELV Transformer with Halogen	10 W	450 W	350 W	250 W	Required 1	Reverse
Incandescent/Halogen	10 W	450 W	350 W	250 W		Either
Dimmable Fluorescent Ballast	1 ballast	2.08 A (350 VA)	1.67 A (250 VA)	1.25 A (200 VA)		Forward
Hi-lume 1% 2-wire (LTE) LED Driver	1 driver	2.08 A (350 VA)	1.67 A (250 VA)	1.25 A (200 VA)		Forward
PHPM-PA/3F and GRX-TVI	1 interface	3 interfaces	No Derating Required			Forward

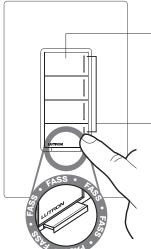
¹ Neutral is required for all applications.

Note: For dimming MLV fixtures, the maximum lamp wattage is typically 70%-85% of the transformer's VA rating. For actual transformer efficiency, contact the manufacturer. The total VA rating of the transformer(s) shall not exceed the VA rating of the dimmer.

² Do not install hybrid keypads to control receptacles or motor-operated appliances.

³ Phase Mode default setting is reverse-phase.

Operation



Keypad Buttons

- Press to activate desired levels of lighting or positions of shades/draperies.
- Default operation depends on the button configuration (model number):
 2B: Top button is ON, bottom button is OFF
 3RL: Top button is ON, the next button is 50%, the next button is OFF, the buttons at the bottom raise and lower the lights

 – 4B: Top button is ON, the next button is 50%, the next two buttons are OFF

Status LEDs

- Show which button has been activated.
- Pressed (active) button LEDs are brighter than other buttons.*

(Front Accessible Service Switch) Pull tab out to change the room's light bulb.

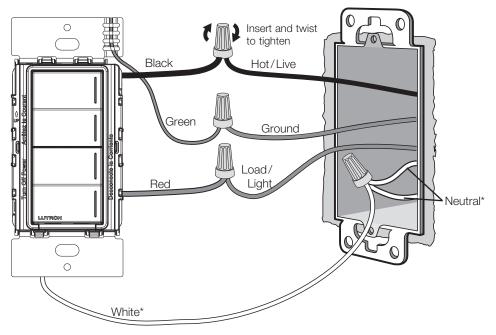
* This behavior is programmable in the system software.

IMPORTANT NOTICE:

FASS - Front Accessible Service Switch

To replace bulbs, remove power by pulling the FASS out fully. After replacing bulbs, push every FASS back in fully to restore power to the control.

Wiring Diagram



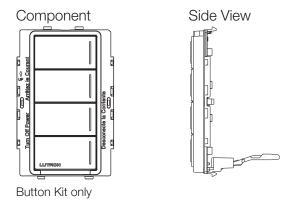
* Neutral is required for all applications.

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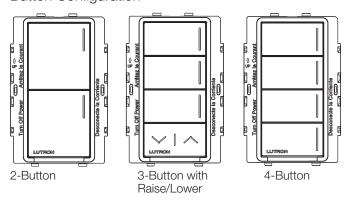


Sunnata RF Hybrid Keypads

Replacement Button Kit Selection Guide



Button Configuration



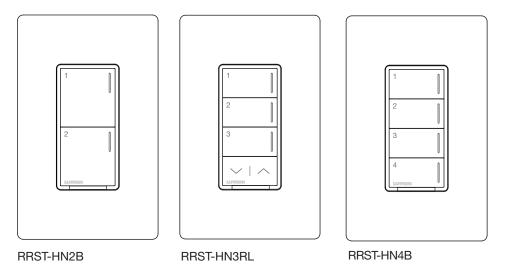
Note: These button kits are for hybrid keypads only (model STBK-H). They are different from button kits for standard keypads (model STBK-W).



Button Text/Icons

Lutron Defined (default) (Keypad only)

Default printing icons shown below.



Custom Personalization (Replacement Button Kits)

Printing to be specified in myProjects. Custom printing must be defined at time of order.

Note: Button Kit orders cannot be manufactured until printing information is received.

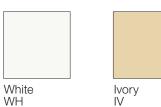
Satin Finishes



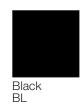
Sunnata RF Hybrid Keypads

Colors and Finishes

Gloss Finishes



Light Almond LA











Architectural White RW







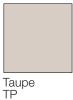
Pebble MI



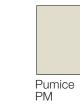
Cobblestone

- Due to printing limitations, colors and finishes shown cannot be guaranteed to perfectly match actual product colors.
- Color chip keychains are available for more precise color matching: Gloss Finishes - DG-CK-1 Satin Finishes - SF-CK-1 For coordinating wallplates and accessories, visit lutron.com/claro





Espresso EP



Truffle



Midnight



Biscuit











Sage SA

