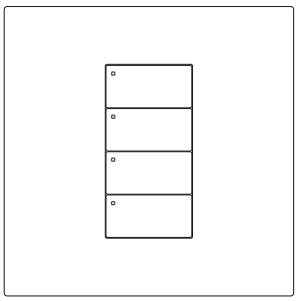
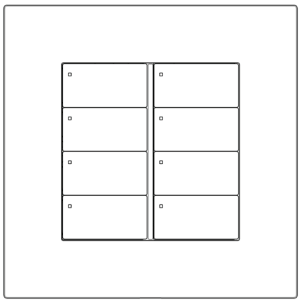
Vierti Keypads



1-Column, 4-Button



2-Column,
4-Button/4-Button

Vierti keypads provide homeowners with a simple and elegant way to operate lights, shades/draperies, motorised screens, and many other devices.

Hybrid keypads function as a dimmer or a switch and keypad combined into a single device. Hybrid keypads are excellent for retrofit applications because they eliminate the need to install two separate devices.

Vierti keypads feature large, easy-to-use buttons with LEDs to aid in locating the keypad in low-light conditions. Non-configured keypads are available as bulk models and only include a mounting plate. Configured models include a mounting plate and personalised button kit. Predefined button kits, configured replacement button kits, and wallplates are purchased separately, and are available in Arctic White or Matte Black polymer finish. Wallplates are available in a variety of additional finishes, allowing the colour to complement the aesthetics of a space.

Keypad markings are important for programming and use of the keypads when installed. The marking colour has been chosen for increased readability, with default markings available as standard product offerings. Custom personalised button kits can be designed to describe its programming using myProjects, Lutron Designer, or the Vierti personalisation form (engraving.lutron.com/Vierti).

Personalised replacement button kits can be changed in the field after installation. This allows for the keypad to be changed to a variety of button configurations and personalised markings.

Keypads include a construction cover that provides protection against damage from construction debris for the button kits. The cover also allows for viewing and operation of the keypad buttons while in place and is replaced by the wallplate when construction has been completed.

Only use with Lutron Vierti wallplates. Wallplates are sold separately.

Note: Additional button configurations can be found in the **Button Configurations** section starting on page 19.

Vierti Keypads

Model Numbers

Bulk Keypads (Includes bulk keypad with mounting plate and construction cover)	Description
RRE-HDS-1	RA3 hybrid keypad square 1-column bulk
RRE-WSS-1	RA3 keypad square 1-column bulk
RRE-HDS-2	RA3 hybrid keypad square 2-column bulk
RRE-WSS-2	RA3 keypad square 2-column bulk
Configured Base Keypads (Includes bulk keypad with mounting plate, personalised button kit, and construction cover)	**Description**
RR-WS	1-column configured keypad
RR-HD	1-column configured hybrid keypad
RR-WS-2	2-column configured keypad
RR-HD-2	2-column configured hybrid keypad
Predefined Button Kits	**Description**
C1BK-2BXX[1]-YY[2]	1-column, 2-button
C1BK-3RXX[1]-YY[2]	1-column, 3-button with raise/lower
C1BK-4BXX[1]-YY[2]	1-column, 4-button
C2BK-4RXX[1]-YY[2]	2-column: Left column: 4-button Right column: 3-button with raise/lower
C2BK-42XX[1]-YY[2]	2-column: Left column: 4-button Right column: 2-button
Configured Replacement Button Kit	**Description**
C1BK	1-column personalised replacement button kit
C2BK	2-column personalised replacement button kit
Wallplates	**Description**
LW-S-C1-XX[1]	1-gang, 1-column wallplate
LW-S-C11-XX[1]	2-gang, 1-column wallplate at 60 mm on-centre spacing
LW-S-C2-XX[1]	1-gang, 2-column wallplate

Note: See page 3 for specification information.

[1] "XX" in the model number represents the colour/finish code. See **Colours and Finishes** options on page 25.
[2] "YY" in the model number represents the engraving code. See **Button Text/Icons** section starting on page 21.

Vierti Keypads

Specifications

Power	220 – 240 V⁓ 50 / 60 Hz
Power Consumption	0.5 W typical, 1.5 W Max
Regulatory Approvals	CE, UKCA, RoHS Compliant, WEEE Certified, REACH Compliant, ETSI EN 300 220-2, ETSI 301 489-1 Compliant, IEC / EN 60669-2-1:2021, CB Certified
Environment	Ambient operating temperature: 0 °C to 40 °C, 0% to 90% humidity, non-condensing. Indoor use only. IP20 rated.
Communications	Vierti keypads communicate with the system through Clear Connect – Type X Radio Frequency (RF) and must be located within 23 m of the centrally located wireless processor. There must be a minimum of two Clear Connect – Type X devices within 6 m of the wireless processor. Each Vierti keypad should be within 6 m of at least two other non-battery powered Clear Connect – Type X devices. Using more than two devices is ideal for creating an ultra high-performance mesh network. System devices operate on a radio frequency of 2.4 GHz. For myLutron users, please see Lutron Application Note #842 (P / N 048842) for additional information on Clear Connect – Type X best practices at www.lutron.com/europe
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 IEC 61000-4-5.
Power Failure	Power failure memory: Should power be interrupted, the keypad will return to its previous state when power is restored.
Mounting Square Backbox	Single gang: Requires a square backbox. 35 mm deep minimum. 47 mm depth recommended. 2-gang: Requires a standard UK double backbox with 120 mm fixing centres. 35 mm deep minimum. 47 mm depth recommended.
Wiring	Vierti keypads require a 220 – 240 V⁓ live and neutral connection. Vierti hybrid keypads require a 220 – 240 V⁓ live, neutral[1], and dimmed live connection. All keypads accept wire gauges between 0.5 mm^2 to 2.5 mm^2 (20 AWG to 14 AWG). One wire per terminal.
Limited Warranty	www.lutron.com/warranty or call 1.844.LUTRON1 (USA/Canada) or 610.282.3800 (Others) for a printed copy.

[1] For additional information, refer to the **Hybrid Keypad: Load Type and Capacity** section on page 10.

Vierti Keypads

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 intensity of the status LED is accomplished through system level programming.
- 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.

Hybrid-Only Design Features

- 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.
- Advanced dimming technology designed for compatibility with a broader range of high-efficiency bulbs.
- Programmable high-end and low-end trim settings to customise the dimming range and optimise LED compatibility.
- See **Hybrid Keypad: Load Type and Capacity** section on page 10.
- Internal dimmer can be operated as a switched output through the use of the design GUI.

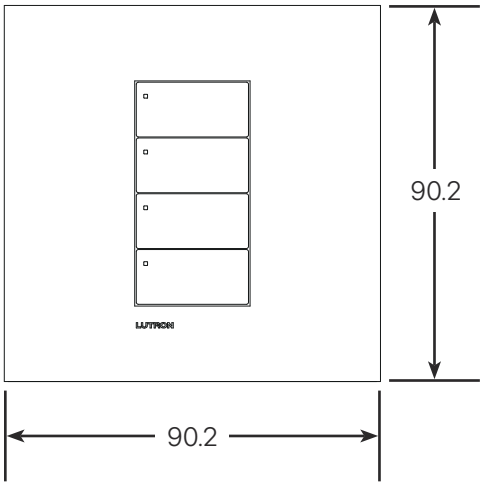
Vierti Keypads

Dimensions

All dimensions are shown as mm

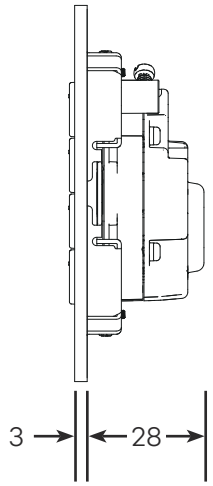
1-Column

Front View



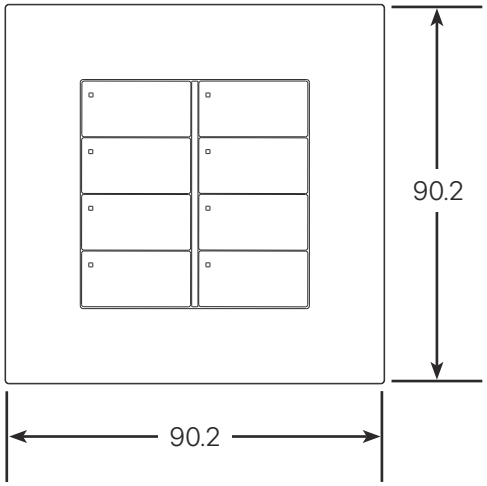
UK Square Box

Side View



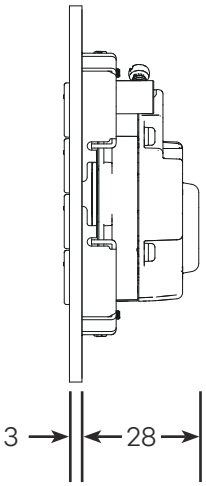
2-Column

Front View



UK Square Box

Side View



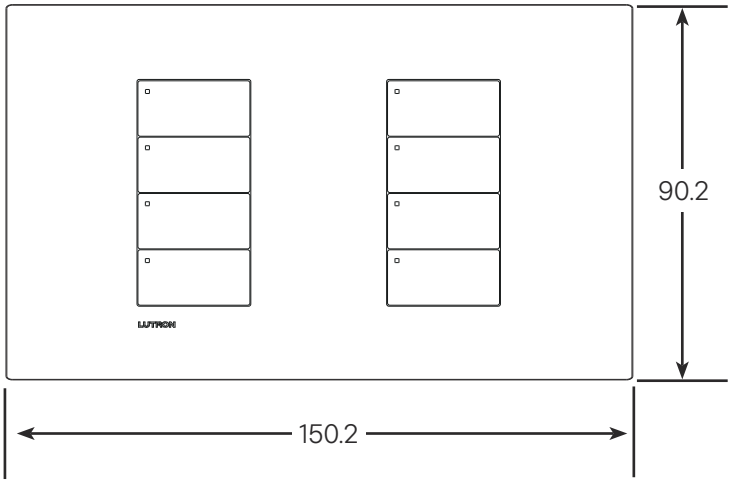
Vierti Keypads

Dimensions *(continued)*

All dimensions are shown as mm

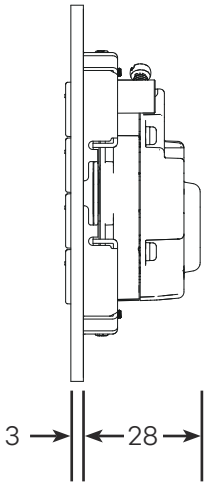
2-Gang, 1-Column

Front View



UK Square Box

Side View

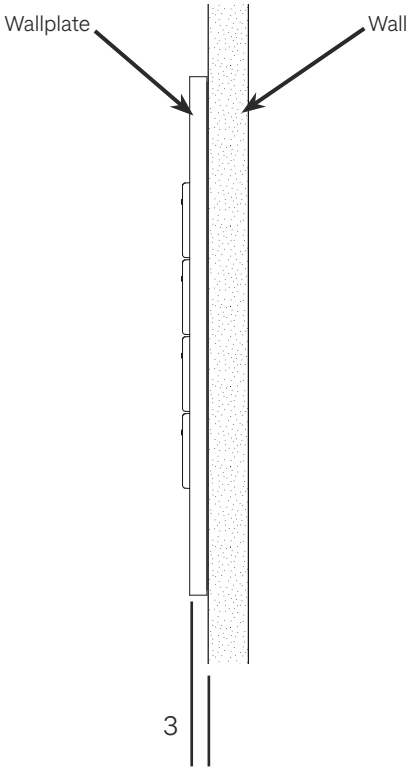


Vierti Keypads

Flush Mounting

All dimensions are shown as mm

Square Style



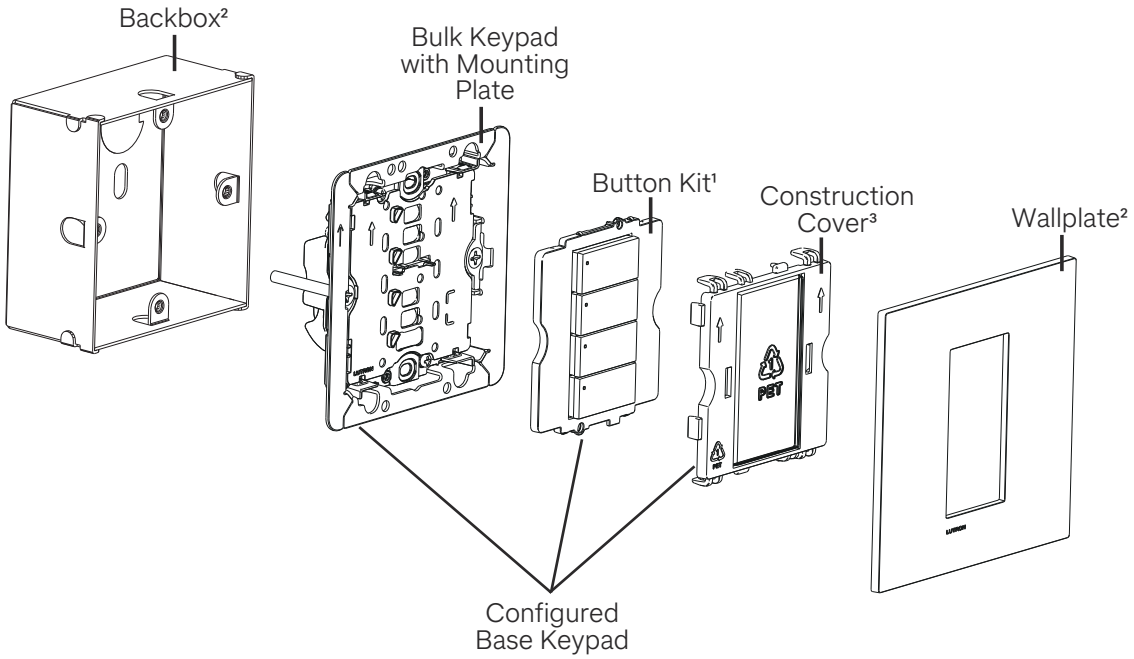
Note: A square, flangeless backbox (Lutron P/N EBB-1-SQ or similar style) is recommended for the most flush installation possible. Flanged square backboxes may also be used for retrofit applications or to meet local standards. Square backboxes with no flanges must be installed with the box sides at a minimum depth of flush and maximum depth of 19 mm from the wall surface for best possible installation.

Vierti Keypads

Parts Identification

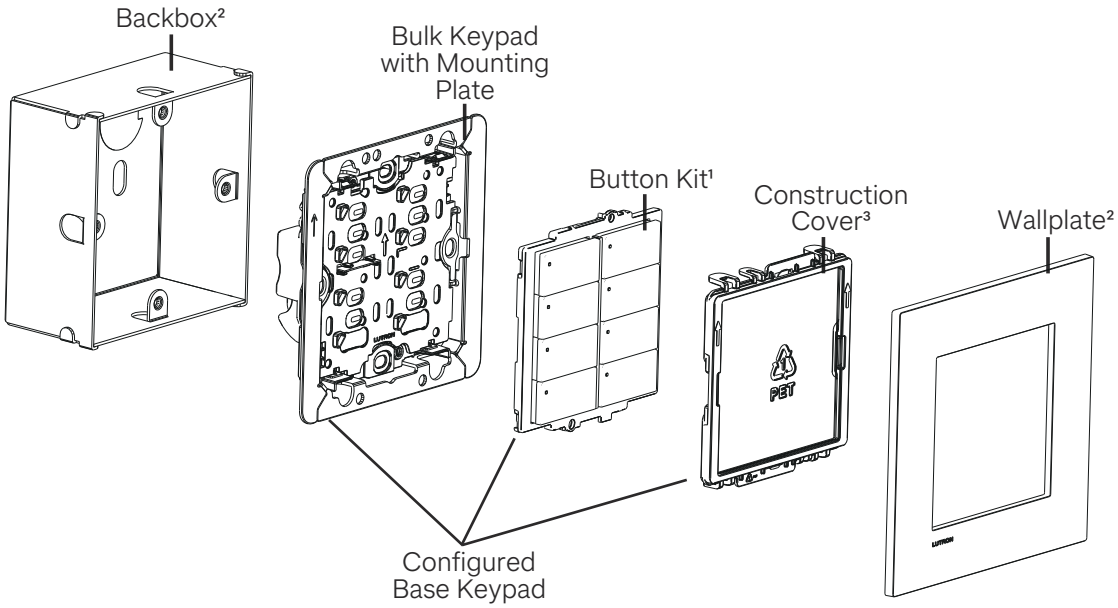
Square Style

1-Column



Square Style

2-Column



¹ The button kit is included with the configured base keypad. It needs to be purchased separately when the bulk keypad is purchased in distribution.

² The wallplate and required backbox are sold separately. They are not included with the product.

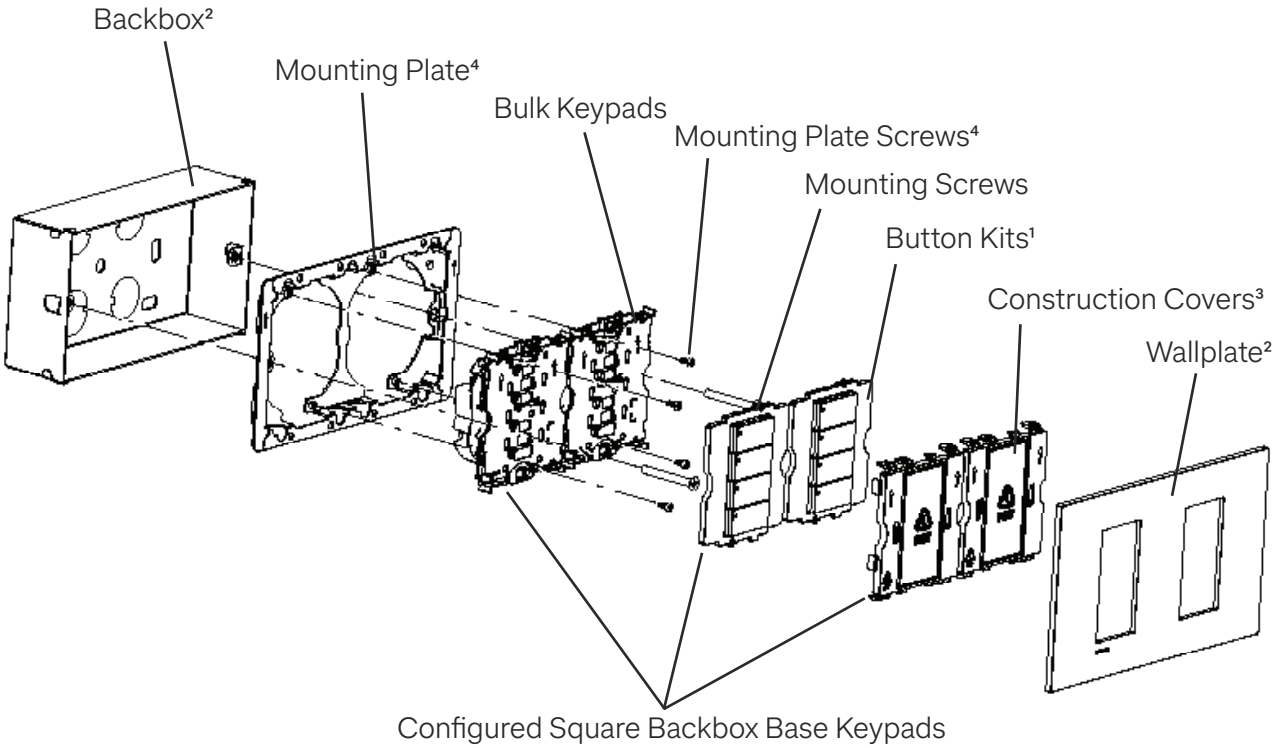
³ **Important:** The construction cover must remain in place until the wallplate is installed. The construction cover must be removed in order to install the button kit and wallplate. Buttons can be used while construction cover is on, before wallplate is installed.

Vierti Keypads

Parts Identification (*continued)*

Square Style

2-Gang, 1-Column



[1] The button kits are included with the configured base keypads.
[2] The wallplate and required backbox are sold separately. They are not included with the product.
[3] Important: The construction covers must remain in place until the wallplate is installed. The construction covers must be removed in order to install the wallplate. Buttons can be use while construction covers are on, before wallplate is installed.
[4] The mounting plate and its associated screws are included with the wallplate.

Vierti Keypads

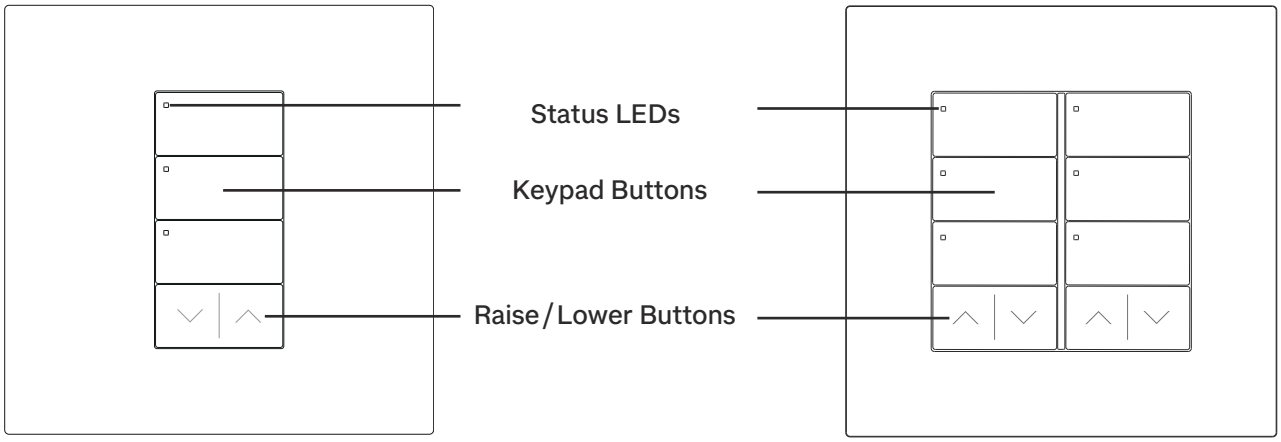
Hybrid Keypad: Load Type and Capacity

Model Number	Voltage	Load Types	Minimum Load		Maximum Load	Neutral Connection	
			With Neutral	Without Neutral		Dimming	Switching
RRE-HDS-1 RRE-HDS-2 RR-HD RR-HD-2	220 – 240 V~ 50/60 Hz	LED*	0 W	10 W	1 A 150 W	Preferred	Required
		ELV with LEDs	10 W	-	250 W	Required	
		ELV with Inc./Hal.	10 W	-	250 W	Required	
		Inc./Hal.	0 W	10 W	250 W	Preferred	
		PHPM-PA-CE	1 interface	-	3 interfaces	Required	
		GRX-TVI	1 interface	-	3 interfaces	Required	

* LED rating is 1 A. If no current rating is specified on the LED lamp, a power rating of 150 W can be used.
Note: Do not install hybrid keypads to control sockets or motor-operated appliances.

Vierti Keypads

Keypad Operation



Status LEDs

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

Keypad Buttons

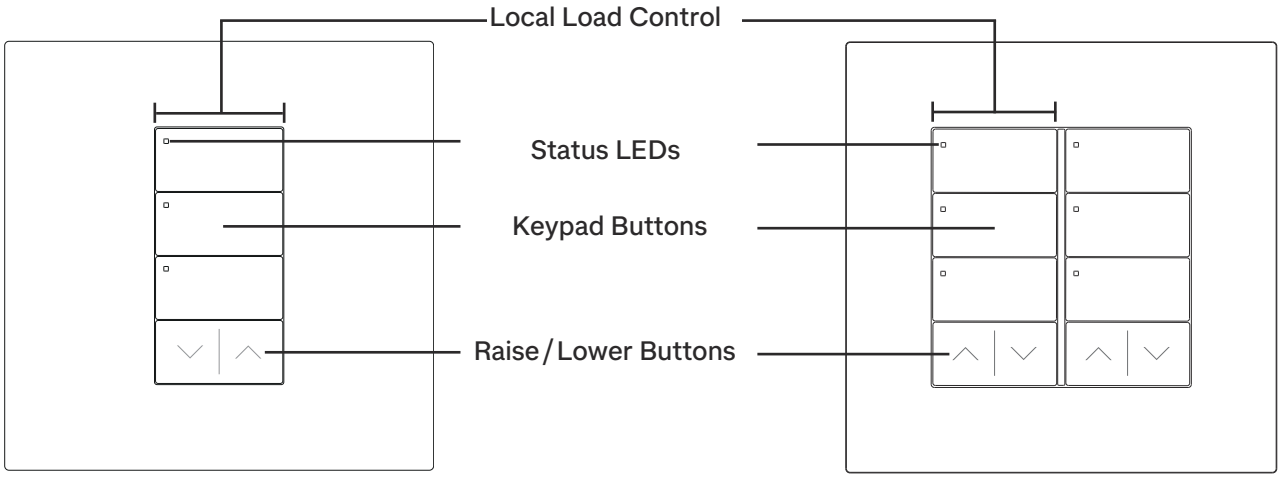
- Press to activate desired levels or positions.
  - This behaviour is programmable in the system software.

Raise/Lower Buttons

- Press to raise/lower desired levels.

Vierti Keypads

Hybrid Keypad Operation



Status LEDs

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

Keypad Buttons

- Press to activate desired levels or positions.
  - This behaviour is programmable in the system software.

Local Load Control

- Left-most column on a device provides local control of internal dimmer or switch for control of light/shade prior to programming.
- Default operation depends on the button configuration (model number):
  - 2B: Top button is ON, bottom button is OFF
  - 3RL (Switching): Top button is ON, the next button is ON, the next button is OFF, and the buttons at the bottom have no action
  - 3RL (Dimming): Top button is ON, the next button is 50%, the next button is OFF, and the buttons at the bottom raise and lower the lights
  - 4B (Dimming): Top button is ON, the next button is 50%, and the next two buttons are OFF
  - 4B (Switching): Top three buttons are ON, the bottom buttons are OFF

Raise/Lower Buttons

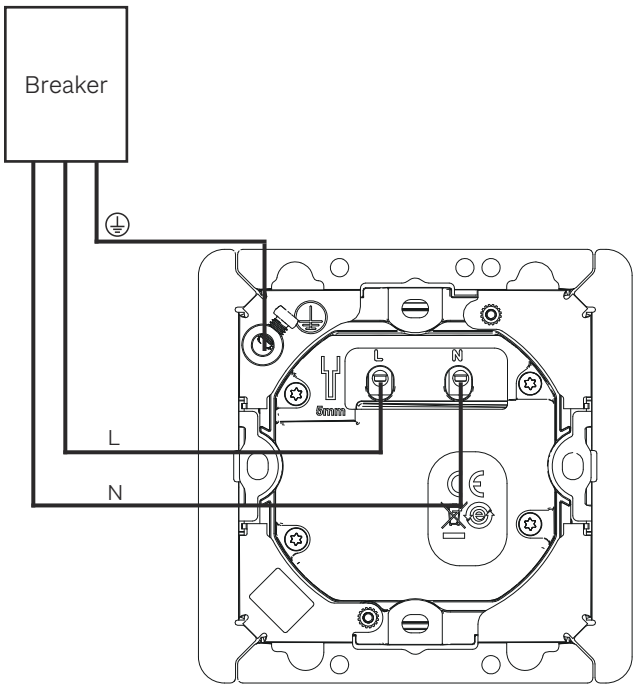
- Press to raise/lower desired levels.

Note: The right column of the 2-column hybrid keypad has no default operations. Its button LED flashes for 3 seconds when pressed and activates only after system commissioning.

Vierti Keypads

Keypad: Wiring Diagram

Square Style Backbox

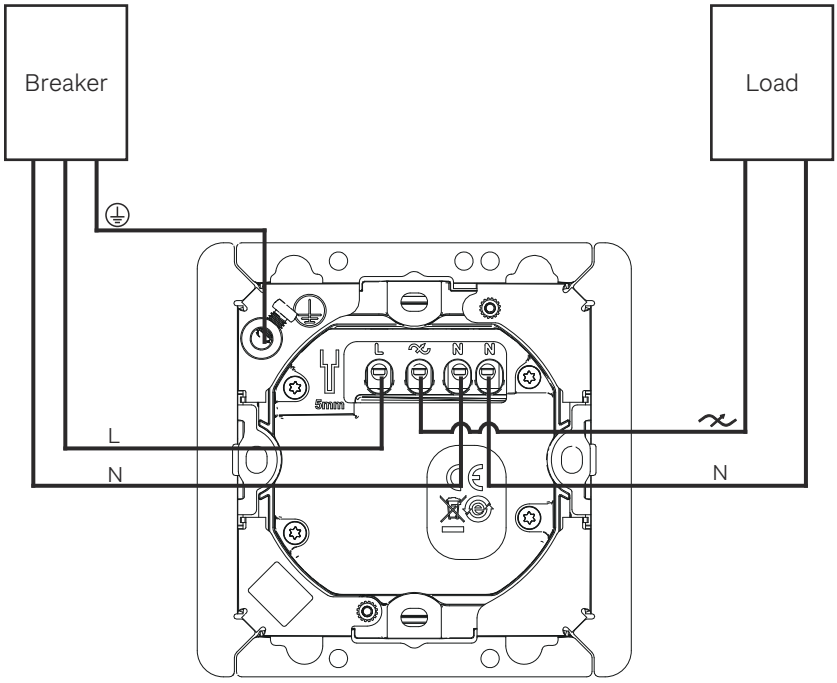


N	=	Neutral
L	=	Live
⏚	=	Earth

Vierti Keypads

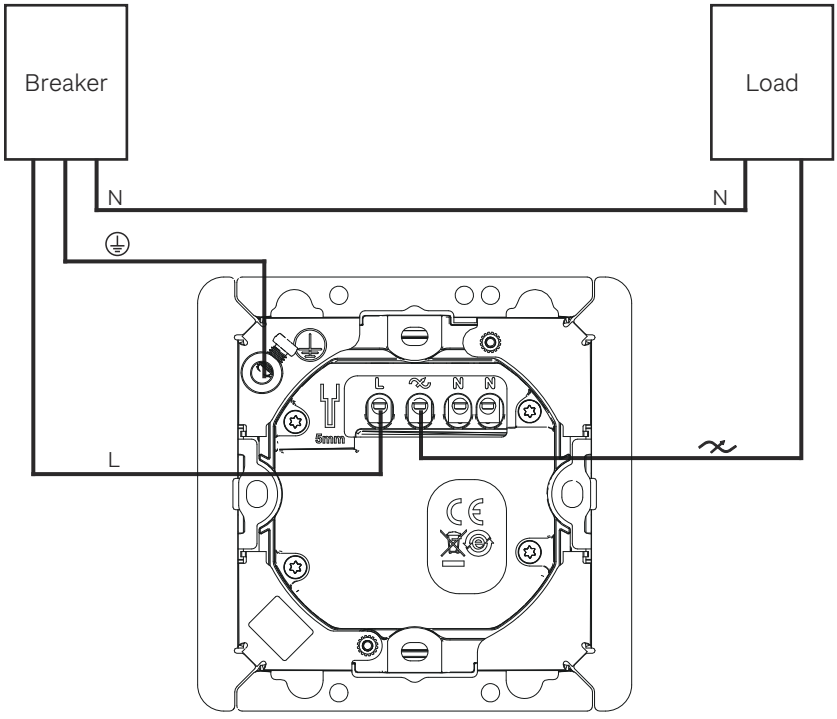
Hybrid Keypad Models: Wiring Diagram for Square Style Backbox

With neutral (dimming or switching mode):



N	=	Neutral
L	=	Live
⏚	=	Earth
∿	=	Controlled Output

Without neutral (dimming mode only):



N	=	Neutral
L	=	Live
⏚	=	Earth
∿	=	Dimmed Live

Note: See **Hybrid Keypad: Load Type and Capacity** section on page 10.

Vierti Keypads

How to Build a Non-Configured Model Number

Bulk Keypads

Note: Bulk keypads do not come with a wallplate or button kit. A mounting plate is included with the bulk keypad unit.

RRE – __ S – _

System Type
RR: RadioRA 3

Keypad Type
WS: Keypad
HD: Hybrid Keypad

Backbox Shape
S: Square Style

Number of Columns
1: 1-Column
2: 2-Column

Vierti Keypads

How to Build a Single Gang Wallplate Kit Model Number

LW – S – __ – __

Family
LW: Vierti Wallplate Kit

Ganging
S: Single Gang

Gangs and Openings
C1: 1-Gang, 1-Column Wallplate
C2: 1-Gang, 2-Column Wallplate

Colours and Finishes

Polymer Finishes
AW: Arctic White
BL: Matte Black

Metal Finishes
AB: Aged Brass
AZ: Aged Bronze
BC: Bright Chrome
BRB: Brushed Brass
CP: Champagne
GP: Graphite
SN: Satin Nickel

Vierti Keypads

How to Build a Multigang Wallplate Kit Model Number

LW – S – C11 – __

Family

LW: Vierti Wallplate Kit

Wallplate Option

S: 60 mm on-centre spacing*

Gangs and Openings

C11: 2-Gang, 1-Column Wallplate

Colours and Finishes

Polymer Finishes

AW: Arctic White

BL: Matte Black

Metal Finishes

AB: Aged Brass

AZ: Aged Bronze

BC: Bright Chrome

BRB: Brushed Brass

CP: Champagne

GP: Graphite

SN: Satin Nickel

*Available for 1-column only.

Vierti Keypads

How to Build a Predefined Button Kit Model Number

C _ BK – _ _ _ – _

Family

C: Vierti Button Kit

Number of Columns

1: 1-Column

2: 2-Column

Button Configurations

1-Column

2B: 2-Button

3R: 3-Button with Raise/Lower

4B: 4-Button

2-Column

42: 4-Button/2-Button

4R 4-Button/3-Button with Raise/Lower

Colours and Finishes

Polymer Finishes

AW: Arctic White

BL: Matte Black

Button Text/Icons

1-Column

L1: Light Levels

L2: Time of Day

2-Column

L1S1: Light Levels/Shade Levels

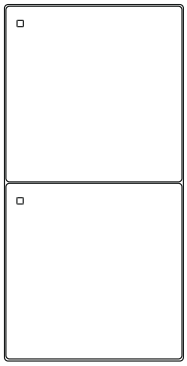
L2S1: Time of Day/ Shade Levels*

* Available in Button Configuration 42 only.

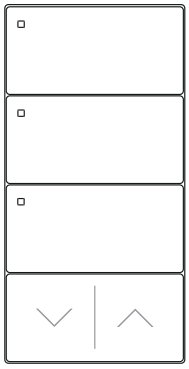
Vierti Keypads

Button Configurations

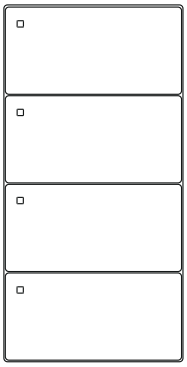
1-Column



2-button (2B)

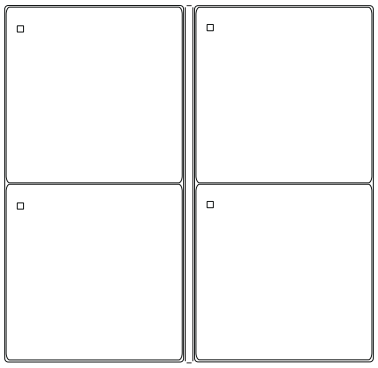


3-button with Raise / Lower (3R)

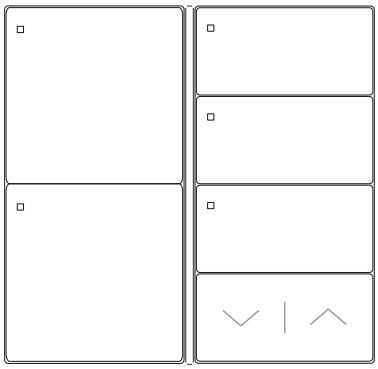


4-button (4B)

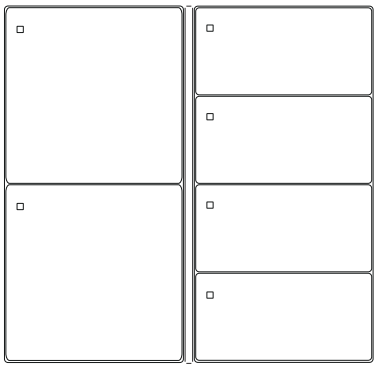
2-Column



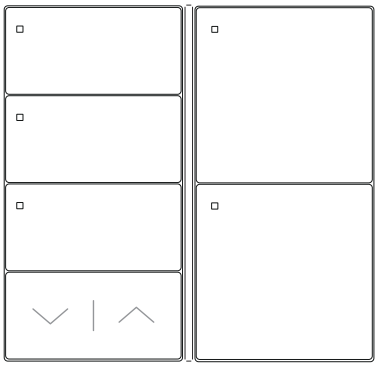
2-button / 2-button (22)*



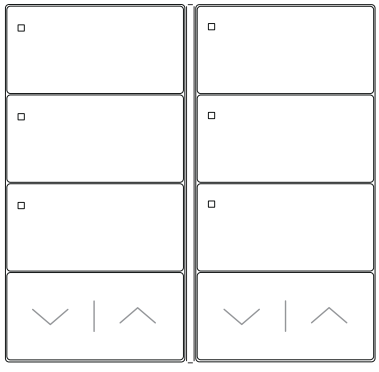
2-button / 3-button with Raise / Lower (2R)*



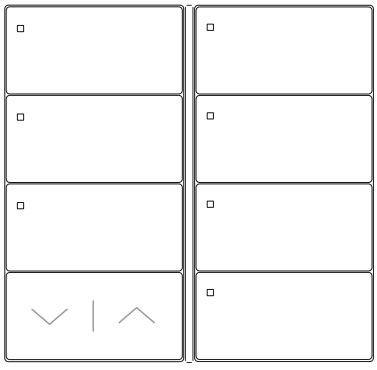
2-button / 4-button (24)*



3-button with Raise / Lower / 2-button (R2)*



3-button with Raise / Lower / 3-button with Raise / Lower (RR)*



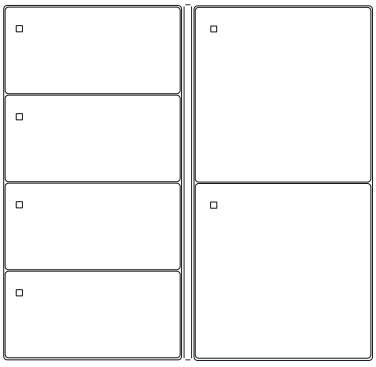
3-button with Raise / Lower / 4-button (R4)*

* Available in personalised version only.

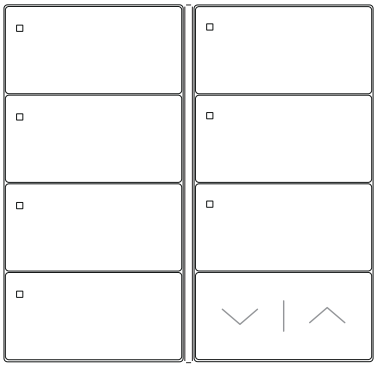
Vierti Keypads

Button Configurations *(continued)*

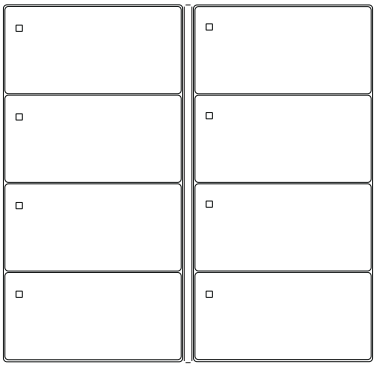
2-Column *(continued)*



4-button / 2-button (42)



4-button / 3-button with Raise / Lower (4R)



4-button / 4-button (44)*

* Available in personalised version only.

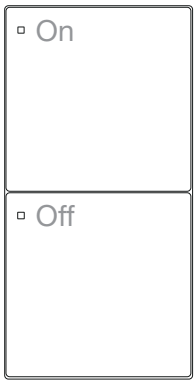
Vierti Keypads

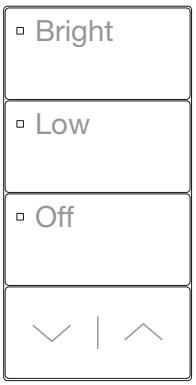
Button Text / Icons

Lutron Defined (default, predefined button kits only)

Default marking icons shown below.

L1: Light Levels

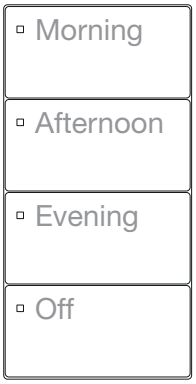






L2: Time of Day



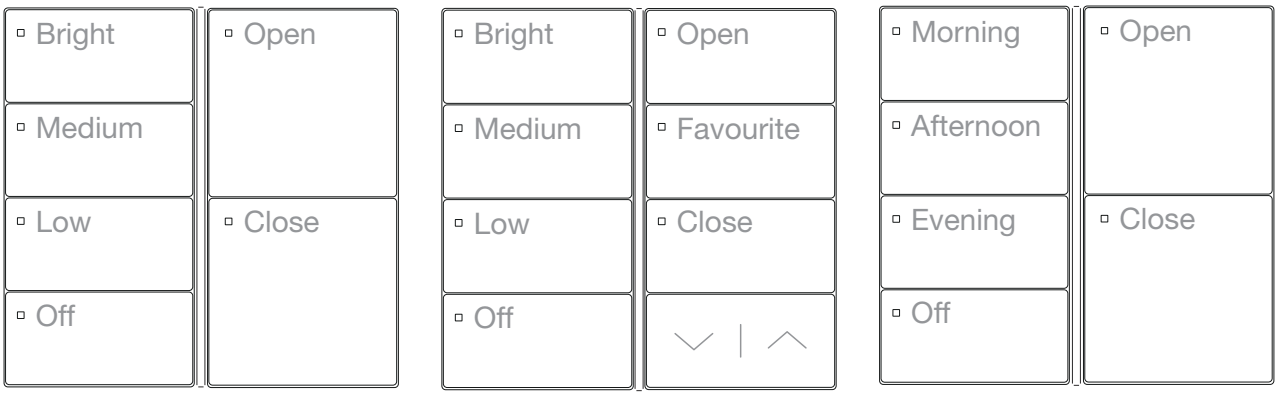


Vierti Keypads

Button Text / Icons *(continued)*

Lutron Defined (default, predefined button kits only)

Default marking icons shown below.



Personalisation

Final personalisation to be specified in myProjects, Lutron Designer, or the Vierti personalisation form. Visit engraving.lutron.com/Vierti for personalisation options. Personalisation must be defined at the time of order.

Note: Orders cannot be processed until personalisation details are received.

Vierti Keypads

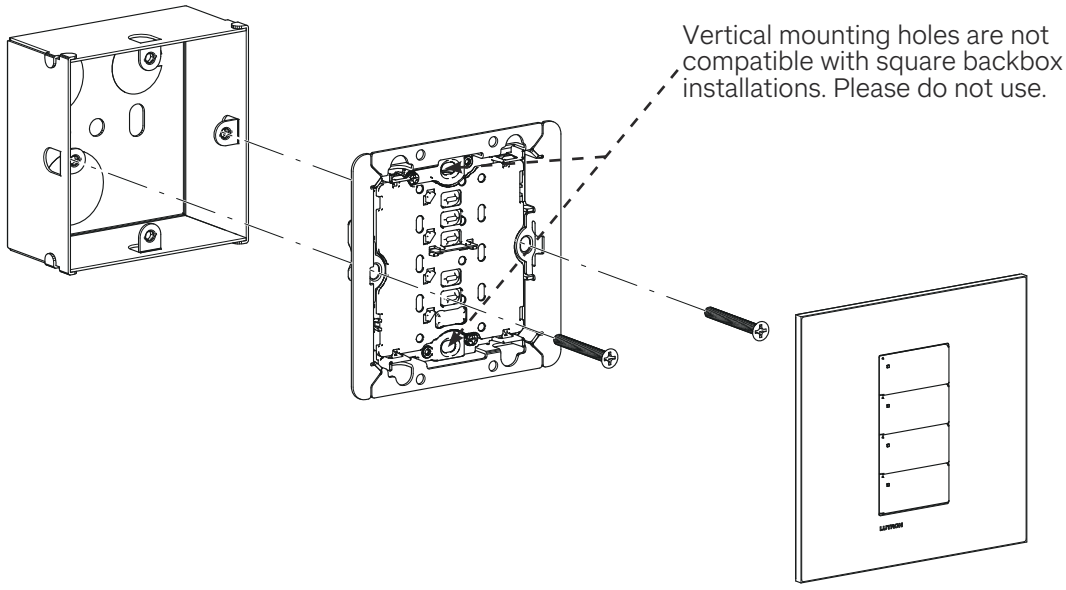
Mounting

A square, flangeless backbox (Lutron part number EBB-1-SQ or similar style) is recommended for the most flush installation possible. Flanged square backboxes may also be used for retrofit applications or to meet local standards. Square backboxes with no flanges must be installed with the box sides flush with or slightly inset to the wall surface.

Note: Wallplate will not be flush to the wall when using flanged backboxes.

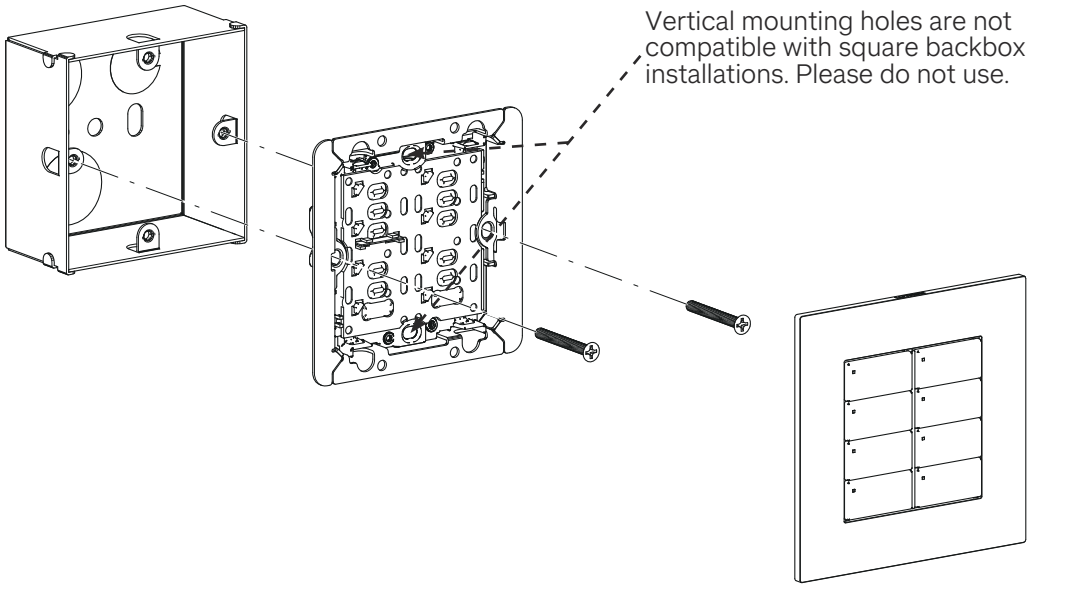
Square Style (Square Backbox)

1-Gang, 1-Column



Note: Use Lutron part number EBB-1-SQ if a backbox is needed for the project. This backbox is 74 mm x 74 mm x 47 mm.

1-Gang, 2-Column



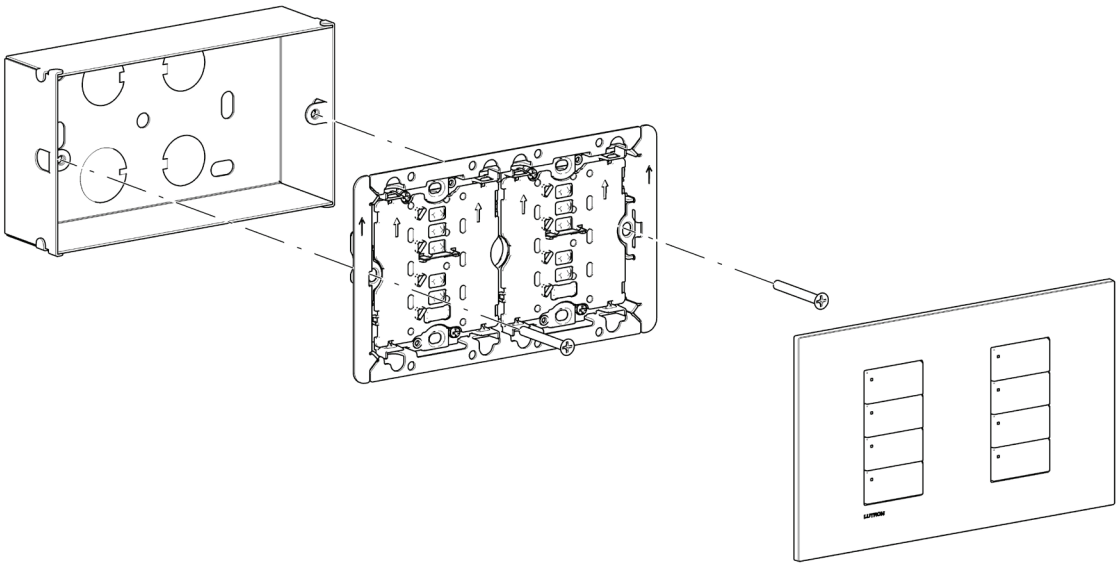
Note: Use Lutron part number EBB-1-SQ if a backbox is needed for the project. This backbox is 74 mm x 74 mm x 47 mm.

Vierti Keypads

Mounting *(continued)*

Square Style (Square Backbox) *(continued)*

2-Gang, 1-Column

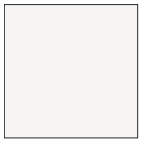


Note: Button configurations can be mixed and matched to achieve up to 9 possible combinations. The 2-gang mounting plate is included with the 2-gang, 1-column wallplate.

Vierti Keypads

Colours and Finishes

Polymer Finishes


Arctic White
AW


Matte Black
BL

Metal Finishes (wallplates only)


Aged Brass
AB


Aged Bronze
AZ


Bright Chrome
BC


Brushed Brass
BRB


Champagne
CP


Graphite
GP


Satin Nickel
SN

- Aged Brass and Aged Bronze finishes are produced using a handcrafted process which introduces a unique variation in both the hue and the graining. There will be natural variation from unit to unit.
- Due to printing limitations, colours and finishes shown cannot be guaranteed to perfectly match actual product colours.
- Keychains are available for more precise colour matching (Metal Finishes only):
  - Signature Metal Chip Kit Demo: SM-CK-DEMO

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