# Vierti Keypads

Vierti keypads provide homeowners with a simple and elegant way to operate lights, shades / draperies, motorized 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. Keypads are exclusively available as configured base models that include a standard mounting plate and a personalized button kit, which is available in Arctic White and Matte Black polymer finishes. Wallplates are purchased separately in Arctic White and Matte Black polymer finishes, in addition to a variety of other finishes to compliment the aesthetics of a space.

Keypad markings are important for programming and use of the keypads when installed. The marking color has been chosen for increased readability. Customized personalized button kits can be designed to describe its programming using myProjects, Lutron Designer, or the Vierti personalization form (engraving.lutron.com/Vierti).
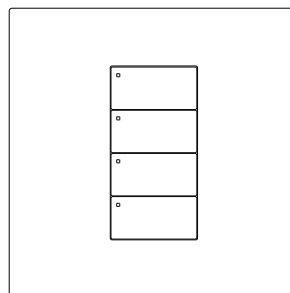
Personalized replacement button kits can be changed in the field after installation. This allows for the keypad to be changed to a variety of button configurations and personalized markings.
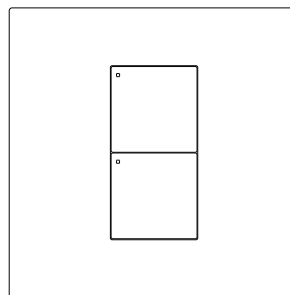
2-Button
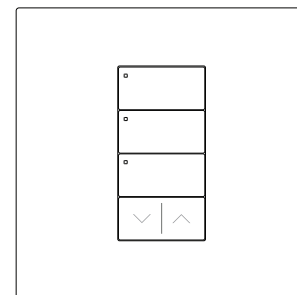
3-Button with Raise / Lower

4-Button

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.

Use only with Lutron Vierti wallplates. Wallplates sold separately.

Vierti Keypads

Model Numbers

Configured Base Keypads (Includes bulk keypad with mounting plate, button kit, and construction cover)	Description
HQ-WS[1]	HomeWorks configured base keypad
HQ-HD[1]	HomeWorks configured base hybrid keypad

Configured Button Kit	Description
C1BK[1]	1-column personalized replacement button kit

Wallplates	Description
LW-S-C1-XX[2]	1-gang, 1-column square wallplate
LW-S-C11-XX[2]	2-gang, 1-column square wallplate

Note: See page 3 for specification information.

[1] See **Engraving** options at the end of the document.
[2] "XX" in the model number represents the color/finish code. See **Colors and Finishes** options at the end of the document.

Backbox*

Bulk Keypad with Mounting Plate

Button Kit

Construction Cover**

Wallplate*

Vertical mounting holes are not intended for square backbox installations. Please do not use.

Configured Base Keypad
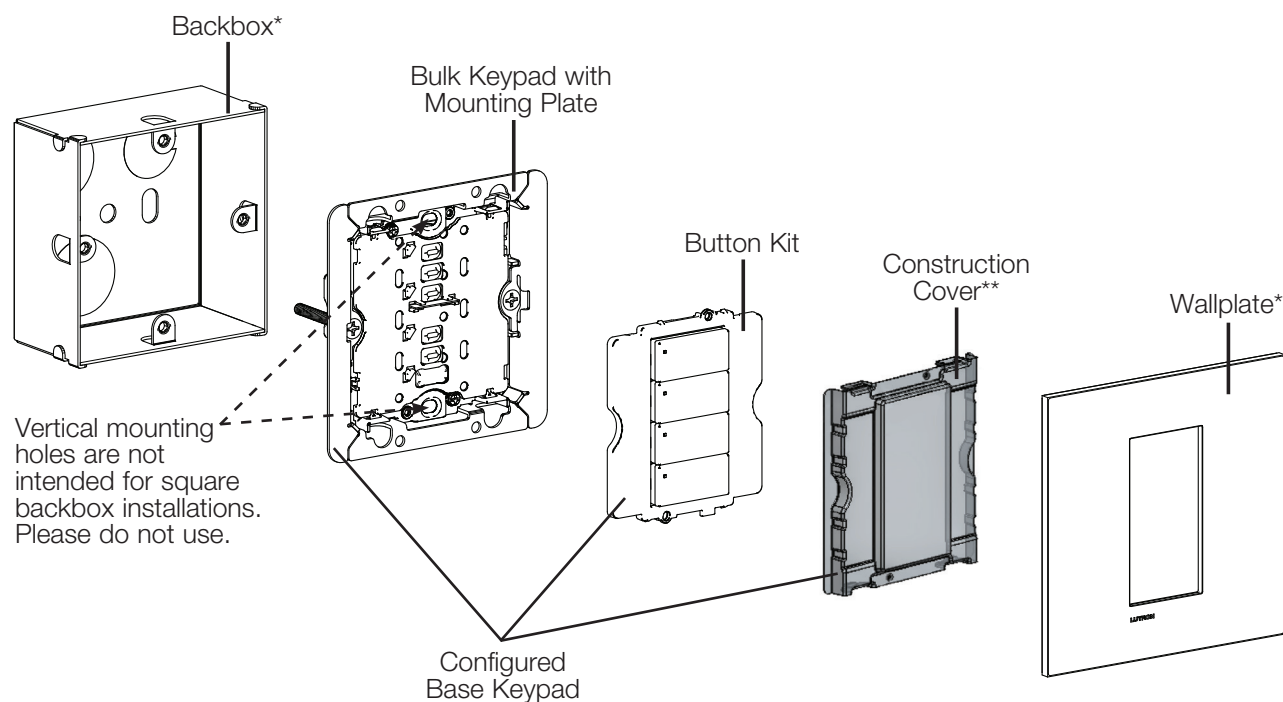
* The wallplate and required square backbox are sold separately. They are not included with the product.
** **Important:** The construction cover must remain in place until the wallplate and button kit are installed. The construction cover must be removed in order to install the wallplate.

Vierti Keypads

Specifications

Power	220 – 240 V$\sim$ 50 / 60 Hz
Power Consumption	0.5 W typical, 1.5 W Max
Regulatory Approvals	CE, UKCA, BIS, RoHS Compliant, WEEE Certified, REACH Compliant, ETSI EN 300 220-2, ETSI 301 489-1 Compliant, IEC / EN 60669-2-1:2021
Environment	Ambient operating temperature: 0 °C to 40 °C, 0% to 90% humidity, non-condensing. Indoor use only. IP20 rated.
Communications	Vierti dimmers, switches, keypads, etc. communicate with the system through (Clear Connect–Type X) Radio Frequency (RF) and must be located within 23 m the processor. There must be a minimum of two devices within 6 m of the wireless processor. Each Clear Connect–Type X device should have two or more non-battery powered Type X devices within 6 m of another compatible Clear Connect – Type X device. 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	Single gang: Requires a square backbox. 35 mm deep minimum. 47 mm depth recommended. Double box (2-gang): Requires a 120 mm fixing centers backbox. 35 mm deep minimum. 47 mm depth recommended.
Wiring	Vierti keypads require a 220 – 240 V$\sim$ live and neutral connection. Vierti hybrid keypads require a 220 – 240 V$\sim$ live, neutral*, 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.
Warranty	2-Year Limited Warranty www.lutron.com/TechnicalDocumentLibrary/Intl_Warranty.pdf

* Refer to the **Hybrid Keypad: Load Type and Capacity** table on page 6 for additional information.

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 status LED intensity 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.
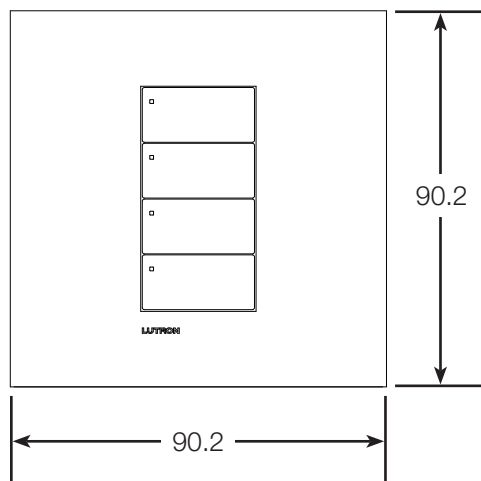
Hybrid-Only Design Features

- 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 customize the dimming range and optimize LED compatibility.
- See **Hybrid Keypad: Load Type and Capacity** table on page 6.
- Internal dimmer can be operated as a switched output through the use of the design software.
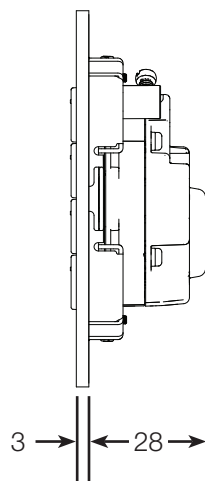
Vierti Keypads

Dimensions
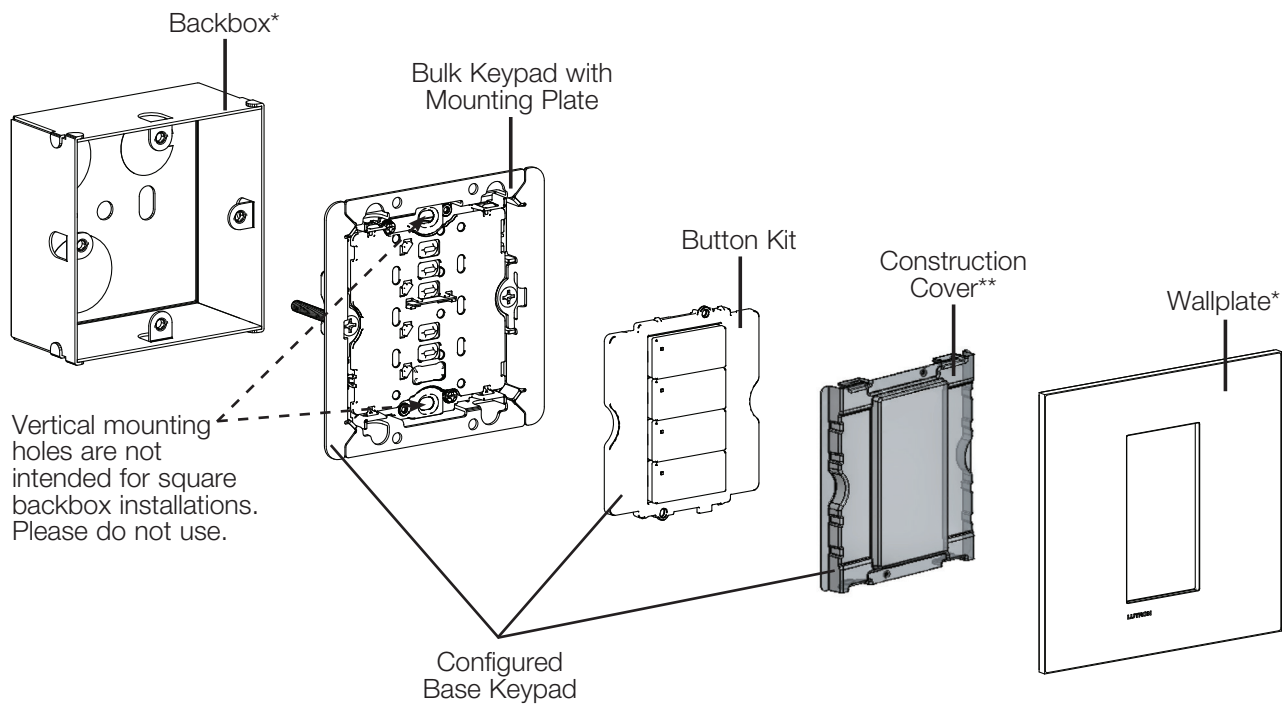
All dimensions are shown as mm

Front View

90.2

90.2

Side View

3   28

Parts Identification

Backbox*

Bulk Keypad with Mounting Plate

Button Kit

Construction Cover**

Wallplate*

Vertical mounting holes are not intended for square backbox installations. Please do not use.

Configured Base Keypad

* The wallplate and required square box are sold separately. They are not included with the product.
** **Important:** The construction cover must remain in place until the wallplate and button kit are installed. The construction cover must be removed in order to install the button kit and wallplate.

Vierti Keypads

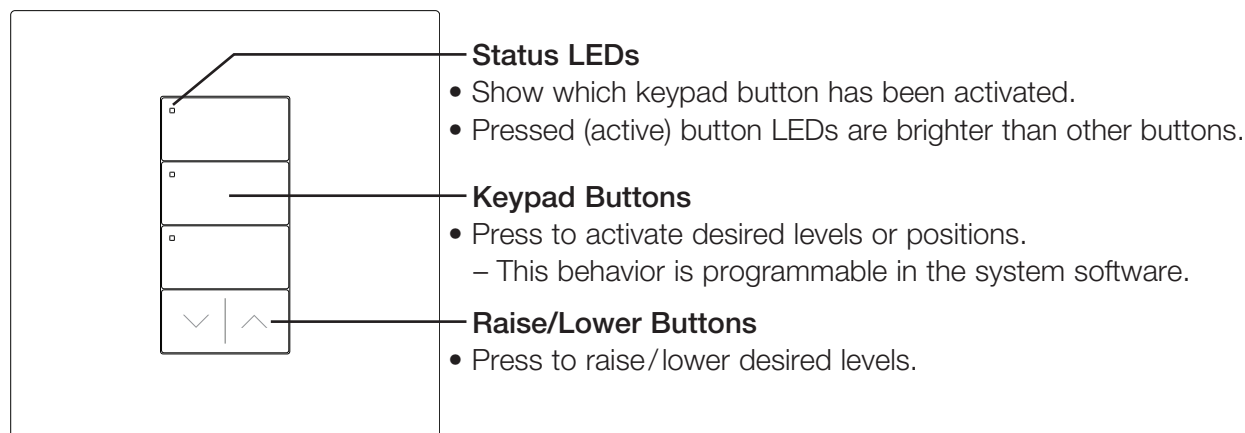## Hybrid Keypad: Load Type and Capacity

Model Number	Voltage	Load Types	Minimum Load		Maximum Load	Neutral Connection	
			With Neutral	Without Neutral		Dimming	Switching
HQ-HD	220 – 240 V∼ 50/60 Hz	LED[1]	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	

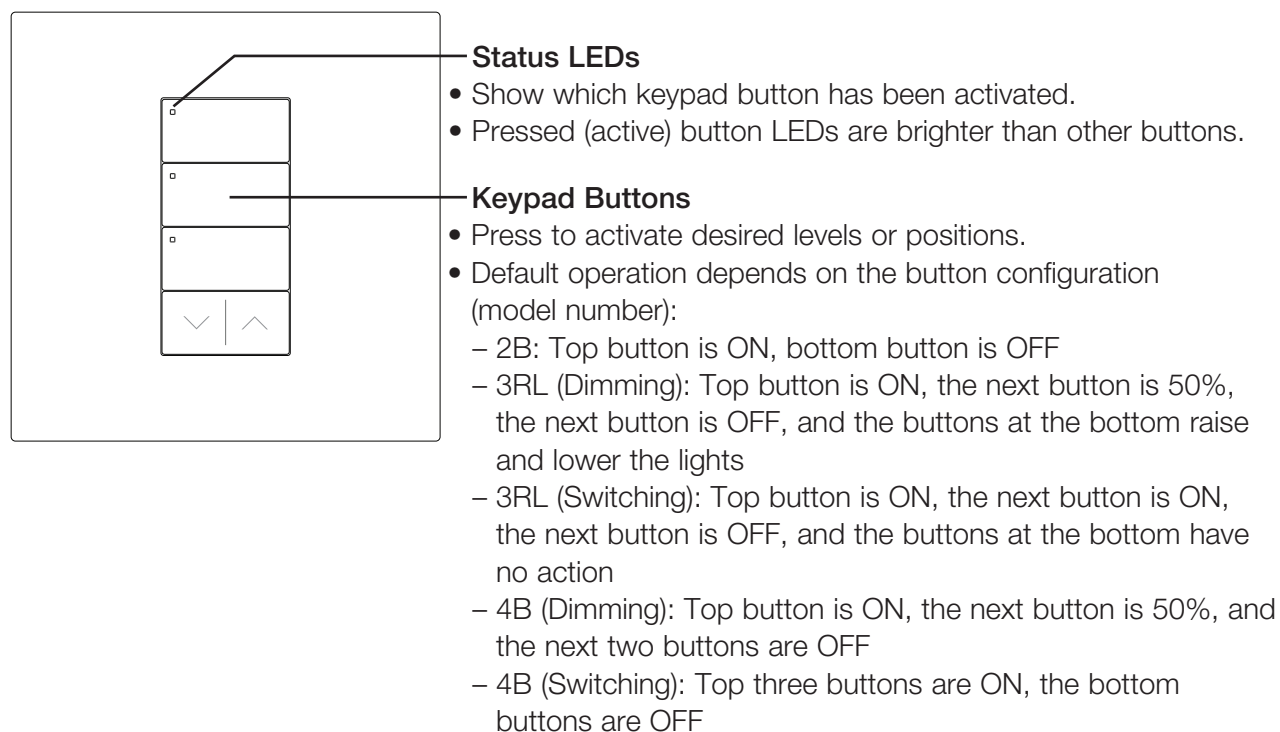[1]   LED rating is 1 A. If no current rating is specified on the LED lamp, a power rating of 150 W can be used.
   NOTE: Do not install hybrid keypads to control sockets or motor-operated appliances.
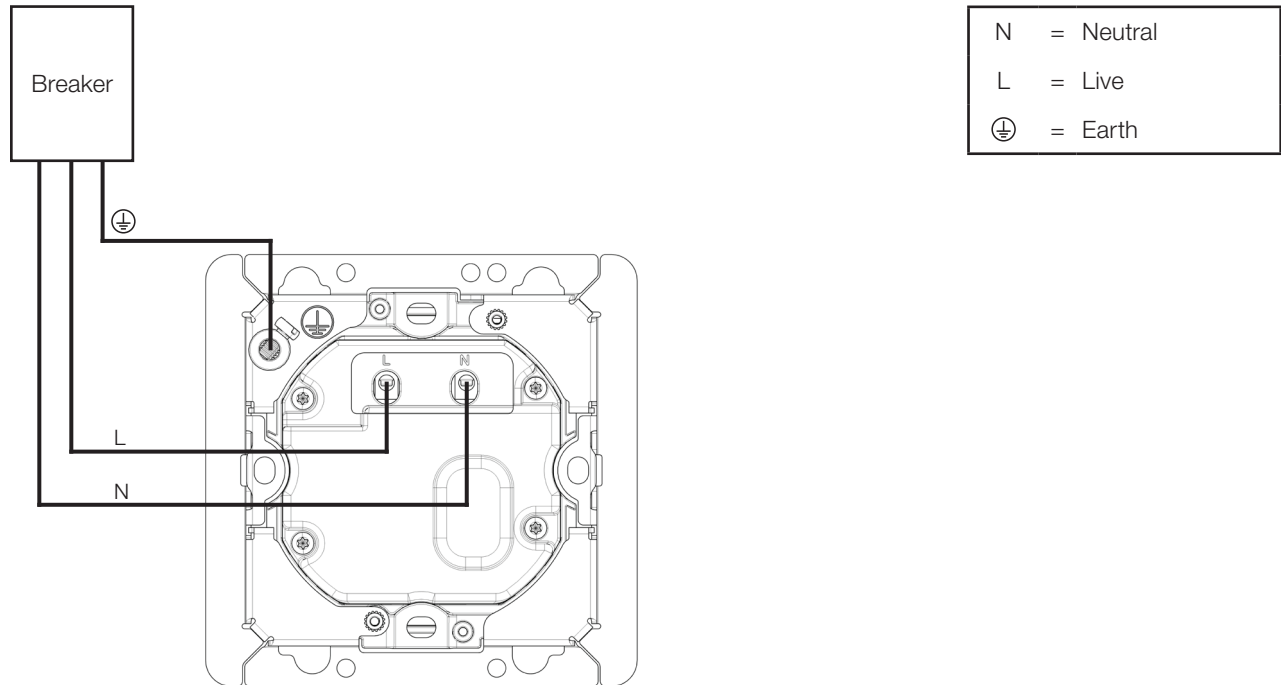
Vierti Keypads

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 behavior is programmable in the system software.

Raise/Lower Buttons
- Press to raise / lower desired levels.

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.
- Default operation depends on the button configuration (model number):
  - 2B: Top button is ON, bottom button is OFF
  - 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
  - 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
  - 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

Vierti Keypads

Keypad: Wiring Diagram

N	=	Neutral
L	=	Live
⏚	=	Earth

Customer Assistance:
+44(0)20.7702.0657 (Europe)

Vierti Keypads

Hybrid Keypad Models: Wiring Diagram

With neutral (dimming or switching mode):

N	=	Neutral
L	=	Live
⏚	=	Earth
∿	=	Controlled Output
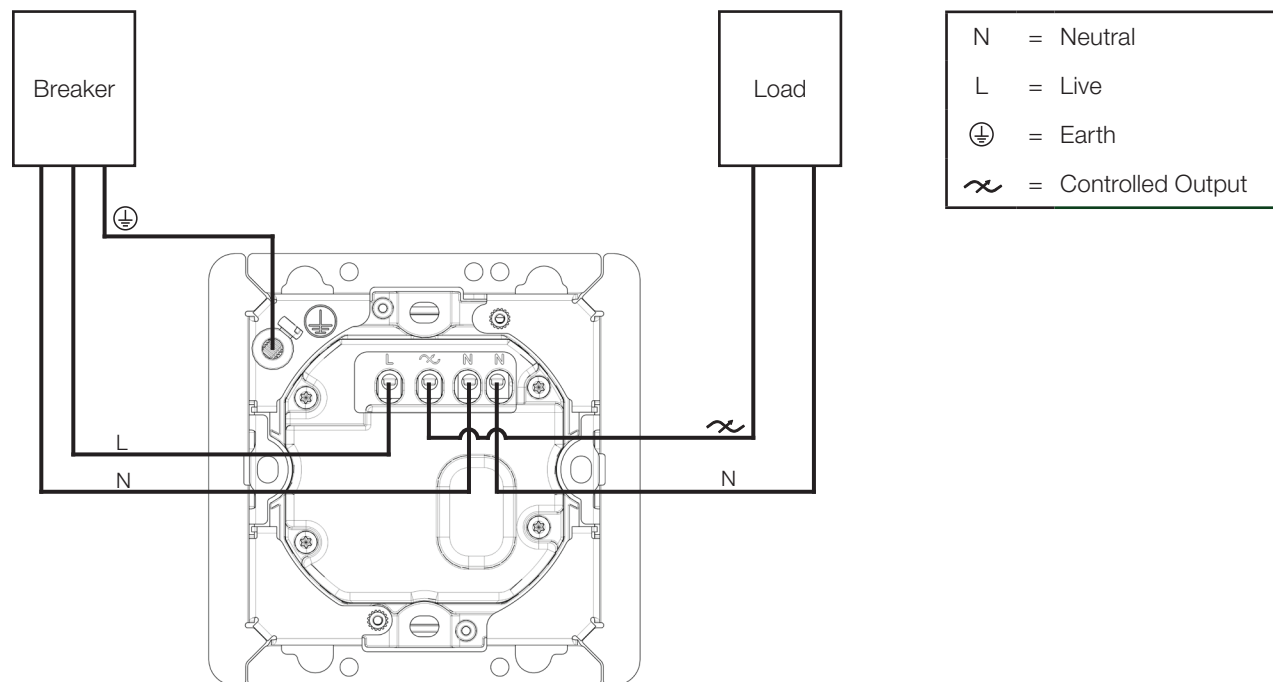
Without neutral (dimming mode only):

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

Note: See **Hybrid Keypad: Load Type and Capacity** table on page 6.

Customer Assistance:
+44(0)20.7702.0657 (Europe)
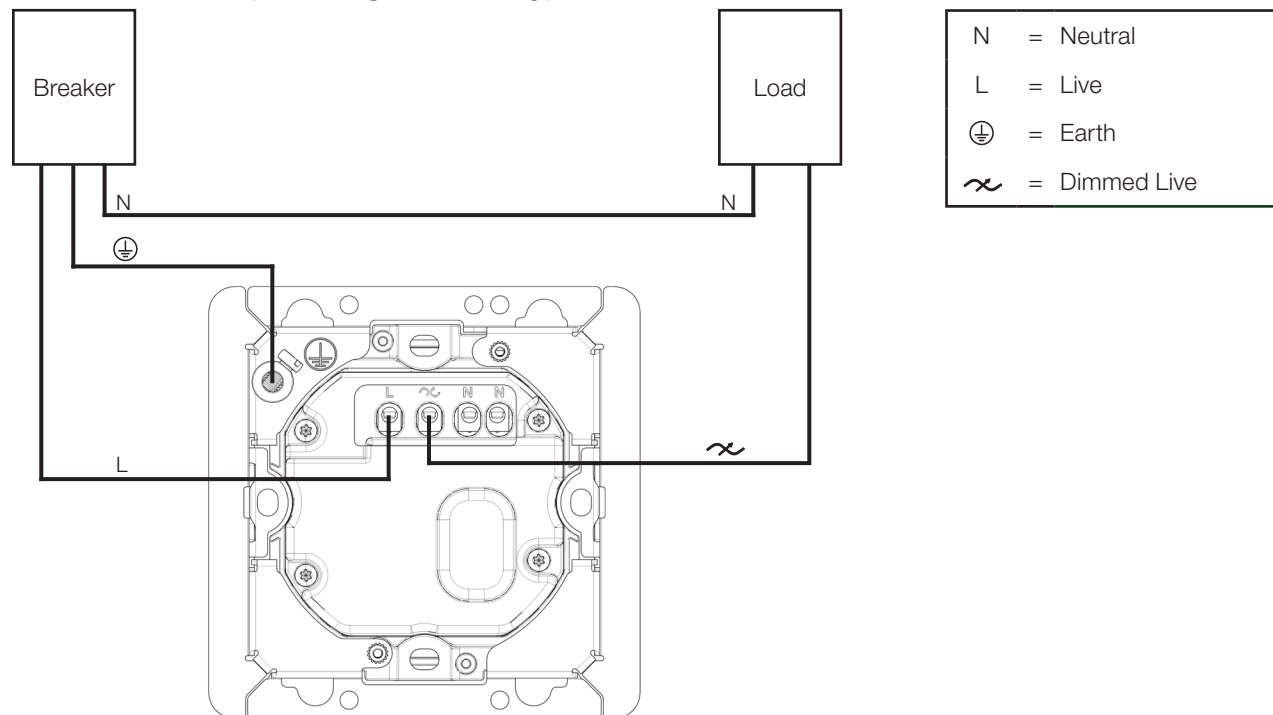
Vierti Keypads

How to Build a Wallplate Kit Model Number

LW – S – C11 – AB

Family
LW: Vierti Wallplate Kit

Wallplate Options
S: Square Style

Gangs and Openings
C1: 1-Gang, 1-Column Square Wallplate
C11: 2-Gang, 1-Column Square Wallplate

Colors 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 the 1-gang, 1-column square wallplate only.

Vierti Keypads

Button Configurations

1-Gang, 1-Column
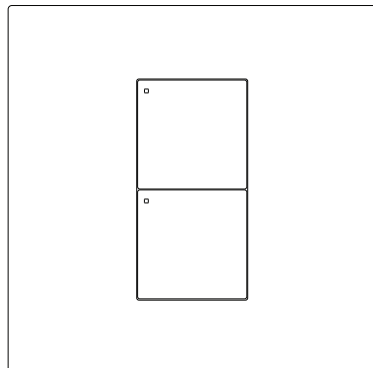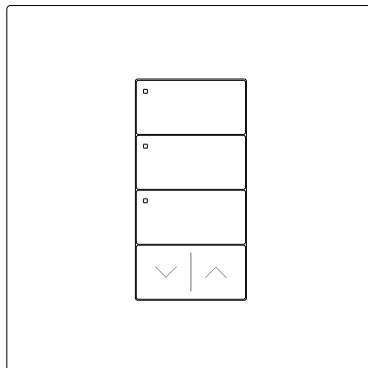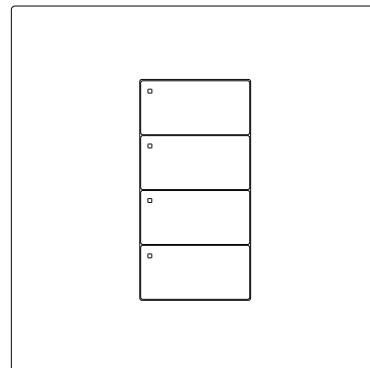
2-Button   3-Button with Raise/Lower   4-Button

2-Gang, 1-Column
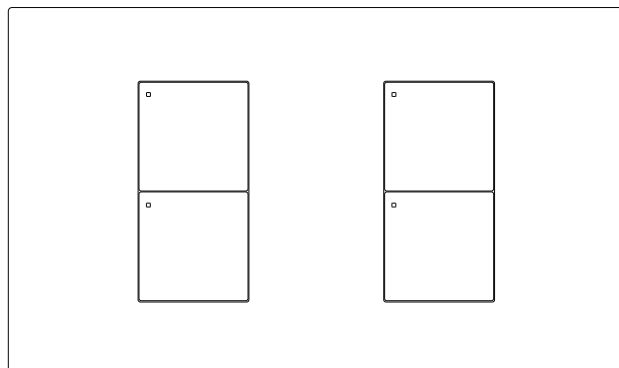
2-Button, 2-Button U.K. Twin
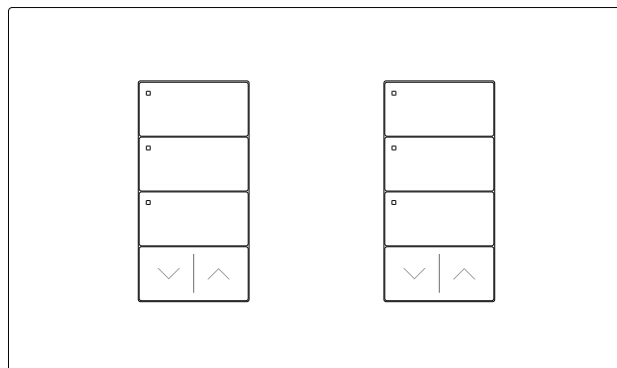
3-Button with Raise/Lower, 3-Button with Raise/Lower U.K. Twin
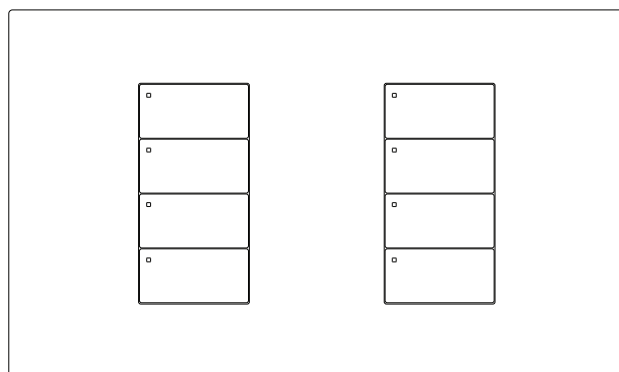
4-Button, 4-Button U.K. Twin

Note: Button configurations can be mixed and matched to achieve up to 9 possible combinations.

Vierti Keypads

Personalized Button Text / Icons

Personalization

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

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

Vierti Keypads

How to Select a Vierti Keypad

Square Style

1-Gang, 1-Column, 3-Button with Raise / Lower hybrid keypad personalized in Arctic White (AW) with Arctic White (AW) wallplate:

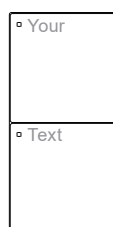| Component	Model Number	Quantity
Configured base hybrid keypad	HQ-HD	1
Wallplate	LW-S-C1-AW	1
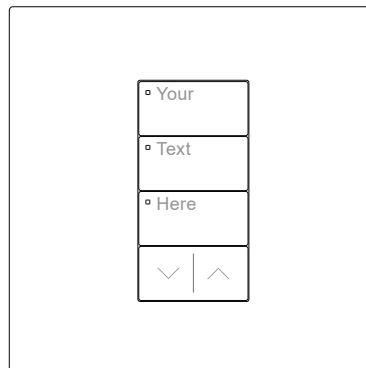
1-Gang, 1-Column, 2-Button configured keypad personalized in Matte Black (BL) with Matte Black (BL) wallplate:

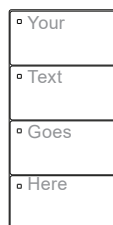| Component	Model Number	Quantity
Configured base keypad	HQ-WS	1
Wallplate	LW-S-C1-BL	1
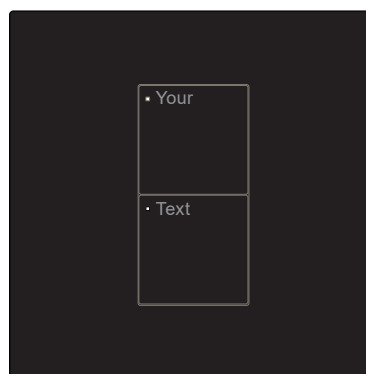
1-Column, 2-Button configured replacement button kit in Arctic White (AW) with personalized engraving:

Component	Model Number	Quantity
Configured replacement button kit	C1BK	1

1-Column, 4-Button configured replacement button kit in Arctic White (AW) with personalized engraving:

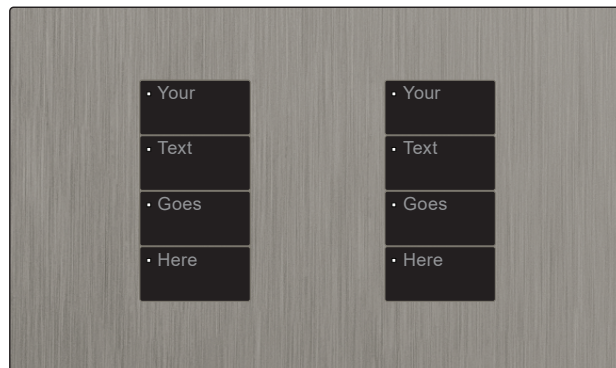| Component	Model Number	Quantity
Configured replacement button kit	C1BK	1

Vierti Keypads

How to Select a Vierti Keypad *(continued)*

Square Style *(continued)*

2-Gang, 1-Column, 4-Button keypad personalized in Matte Black (BL) with Satin Nickel (SN) wallplate:

| Component	Model Number	Quantity
Configured base keypad	HQ-WS	2
Wallplate	LW-S-C11-SN	1

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.

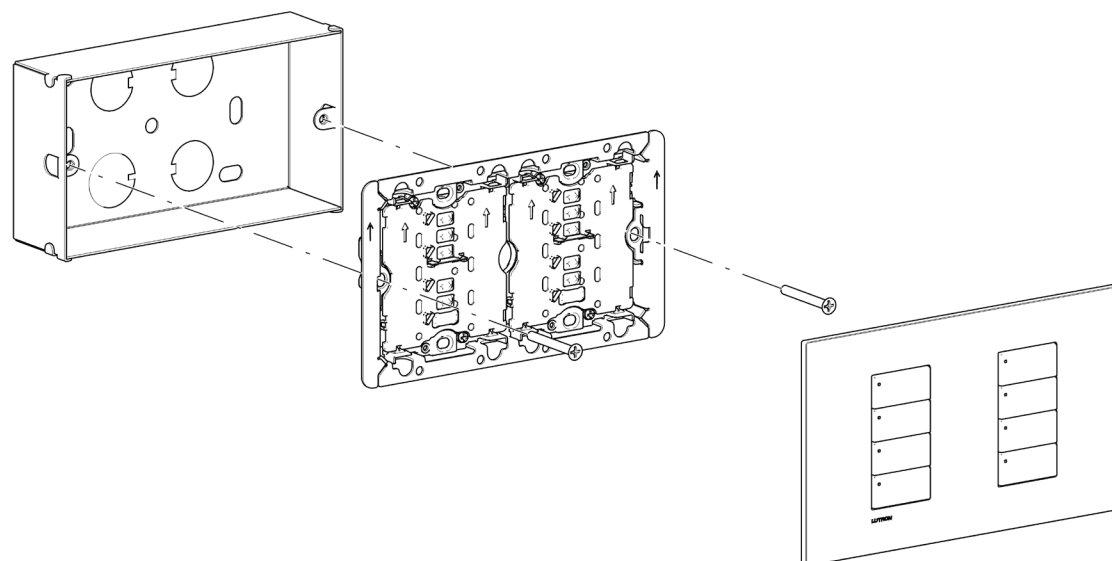Note: Wallplate will not be flush to the wall when using flanged backboxes.

Square Style (Square Backbox)

1-Gang, 1-Column*
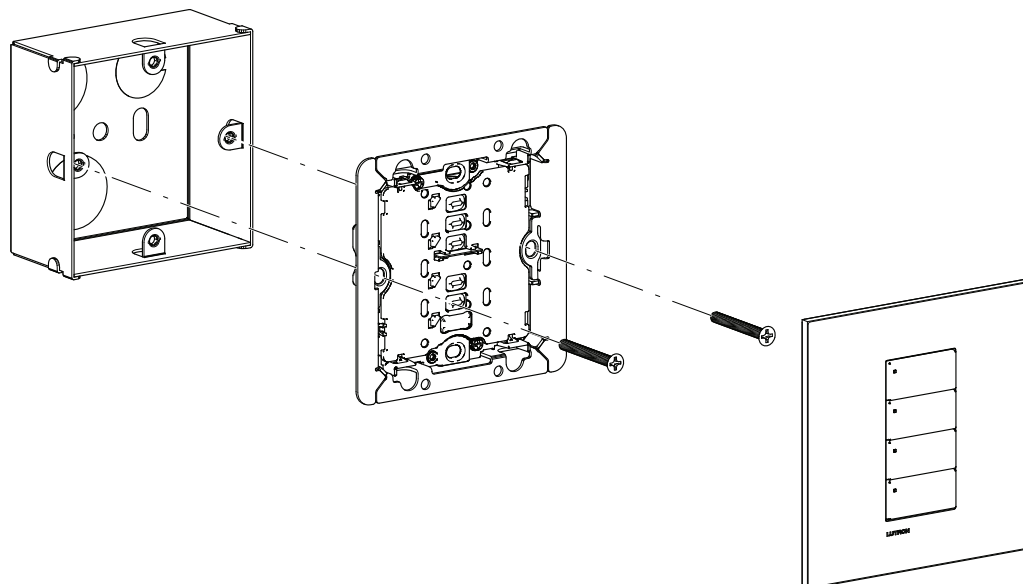
Note: Use Lutron part number EBB-1-SQ if a backbox is needed for the project.

2-Gang, 1-Column

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

Vierti Keypads

Colors 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, colors and finishes shown cannot be guaranteed to perfectly match actual product colors.
- Keychains are available for more precise color matching:
  - Signature Metal Chip Kit Demo: SM-CK-DEMO