

Vierti Keypads

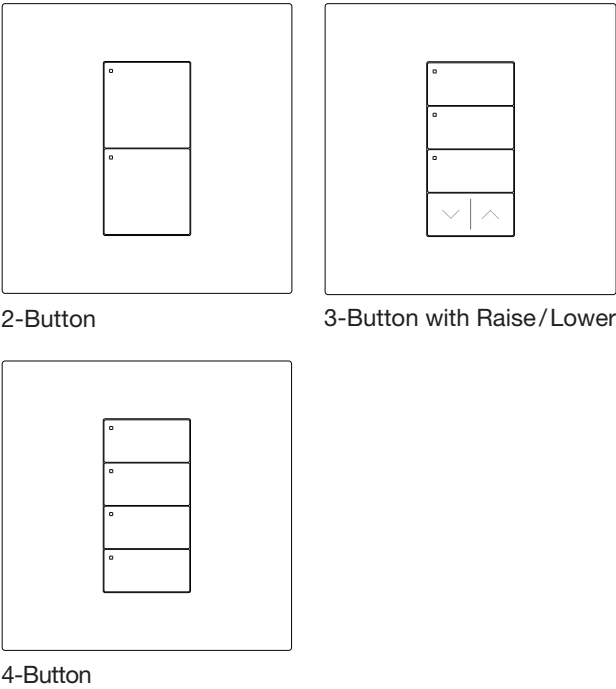
Vierti keypads provide a simple and elegant way to operate lights, shades / draperies, motorized screens, and many other devices. Keypads and hybrid keypads can be used in Athena and myRoom XC systems.

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. Custom personalized button kits can be designed to describe its programming using myProjects, Lutron Designer, or the online Vierti personalization form at 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.



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.

Model Numbers

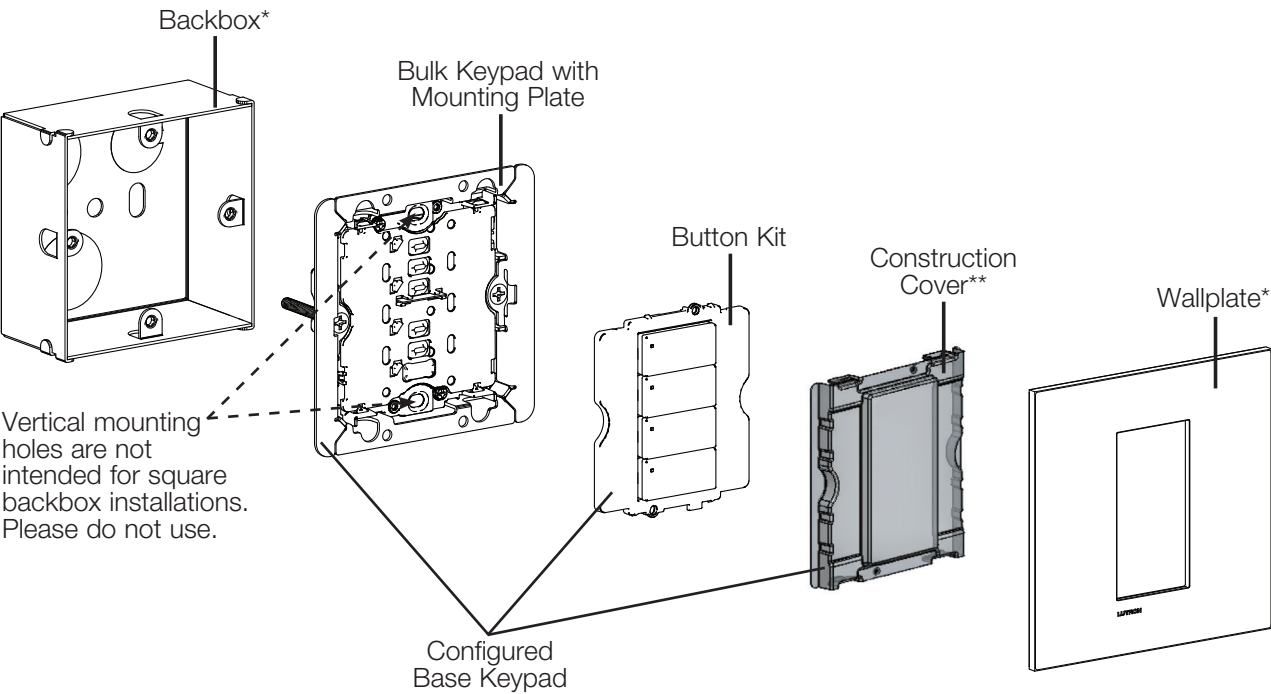
Configured Base Keypads (Includes bulk keypad with mounting plate, button kit, and construction cover)	Description
A-WS	Vierti configured base keypad
A-HD	Vierti configured base hybrid keypad
A-HS	Vierti configured base hybrid keypad (switch only)

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.



* 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.

Specifications

Power

- 220–240 V~ 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
- Relative humidity: 0% to 90% non-condensing
- For indoor use only
- IP20 rated

Communications

- Vierti keypads and hybrid keypads 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~ live and neutral connection
- Vierti hybrid keypads require a 220–240 V~ live, neutral*, and dimmed live connection
- All keypads accept wire gauges between 0.5 mm² to 2.5 mm² (20 AWG to 14 AWG). One wire per terminal

Warranty

- For warranty information, please visit http://www.lutron.com/TechnicalDocumentLibrary/3601201a_Commercial_Limited_Warranty.pdf

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

Job Name:	Model Numbers:
Job Number:	

Design Features

- Vierti keypads can be used in Athena and myRoom XC systems.
- For full Athena system capabilities, see Lutron Spec Submittal P/N 3691298 at www.lutron.com/europe
- 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/switch is controlled by the keypad buttons to verify proper installation prior to system programming.
- Internal dimmer/switch can be assigned to any button on the hybrid keypad and can be programmed to be controlled by any keypad.
- Dimmer has advanced dimming technology designed for compatibility with a broader range of high-efficiency bulbs.
- Dimmer has 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 of the hybrid dimmer can be operated as a switched output through the use of the design software.

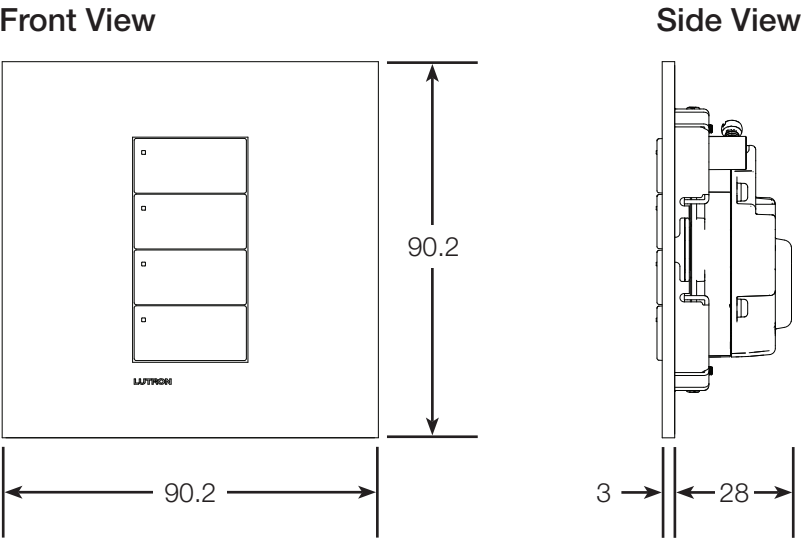
Job Name:

Model Numbers:

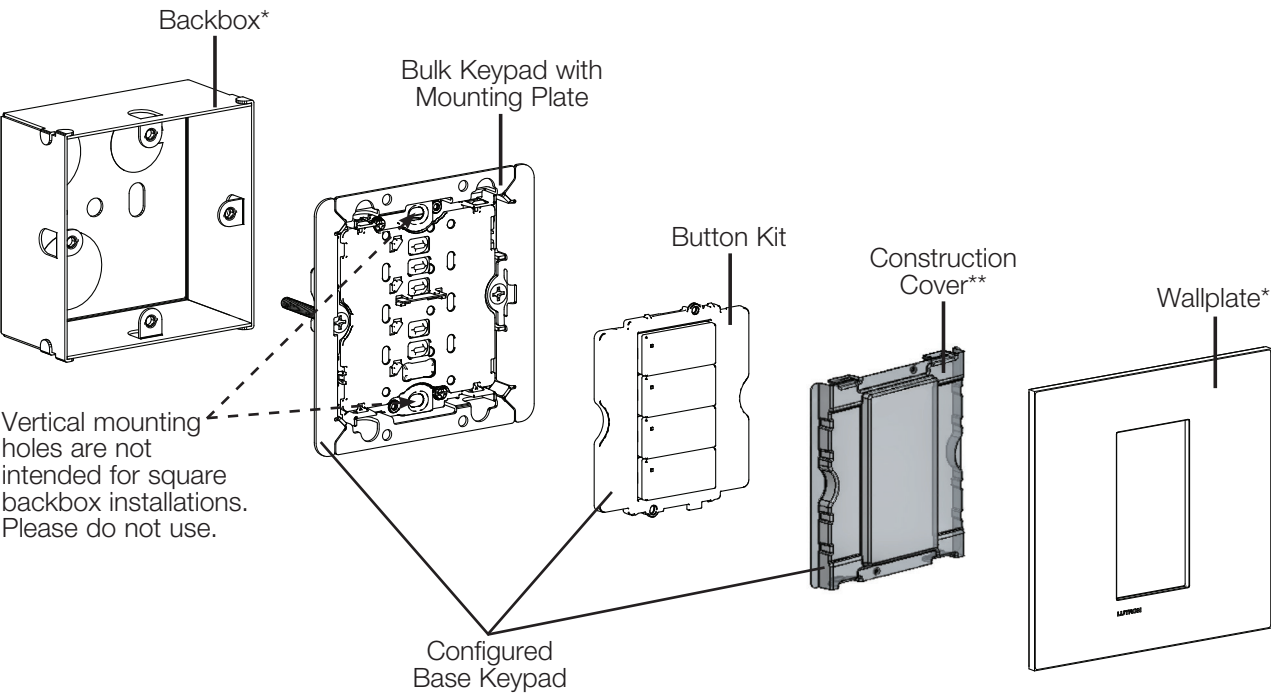
Job Number:

Dimensions

All dimensions are shown as mm



Parts Identification



* 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 button kit and wallplate.

Hybrid Keypad: Load Type and Capacity

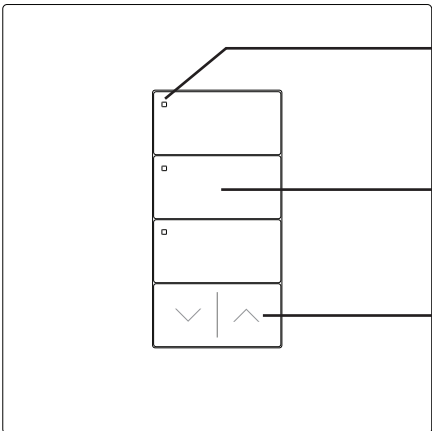
Model Number	Voltage	Load Types	Minimum Load		Maximum Load	Neutral Connection	
			With Neutral	Without Neutral		Dimming	Switching
A-HD	220 – 240 V~ 50/60 Hz	LED ¹	0 W	10 W	1 A 150 W	Preferred	Required
		ELV with LEDs	10 W	—	250 W	Required	
		ELV with Inc./Hal.	10 W	—	250 W	Required	
		Inc./Hal.	0 W	10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

Model Number	Voltage	Load Types	Minimum Load	Maximum Load	Neutral Connection
A-HS	220 – 240 V~ 50/60 Hz	LED ¹	0 W	1 A 150 W	Required
		ELV with LEDs	10 W	250 W	
		ELV with Inc./Hal.	10 W	250 W	
		Inc./Hal.	0 W	250 W	
		GRX-TVI	1 interface	3 interfaces	

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.

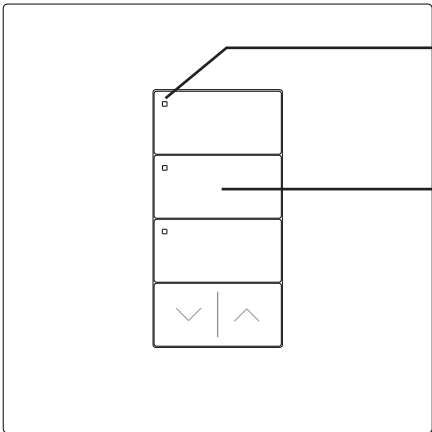
Job Name:	Model Numbers:
Job Number:	

Keypad Operation



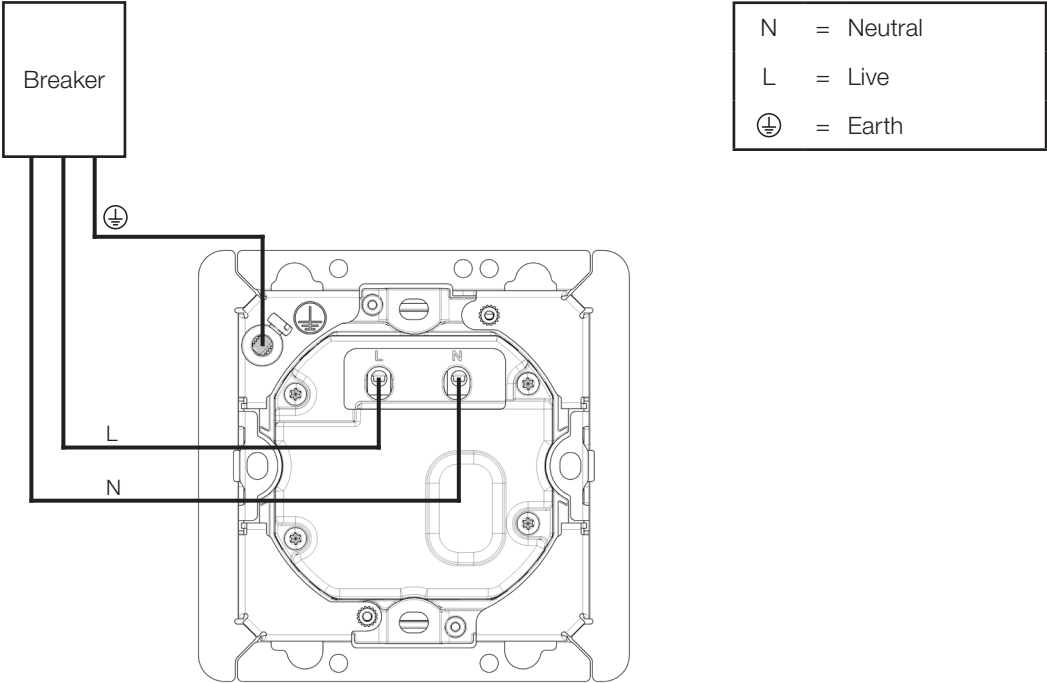
- Status LEDs**
- Show which keypad button has been activated.
 - Pressed (active) button LEDs are brighter than other buttons.
- Keypad Buttons**
- Press to activate desired levels or positions.
 - This behavior is programmable in the system software.
- Raise/Lower Buttons**
- Press to raise/lower desired levels.

Hybrid Keypad Operation



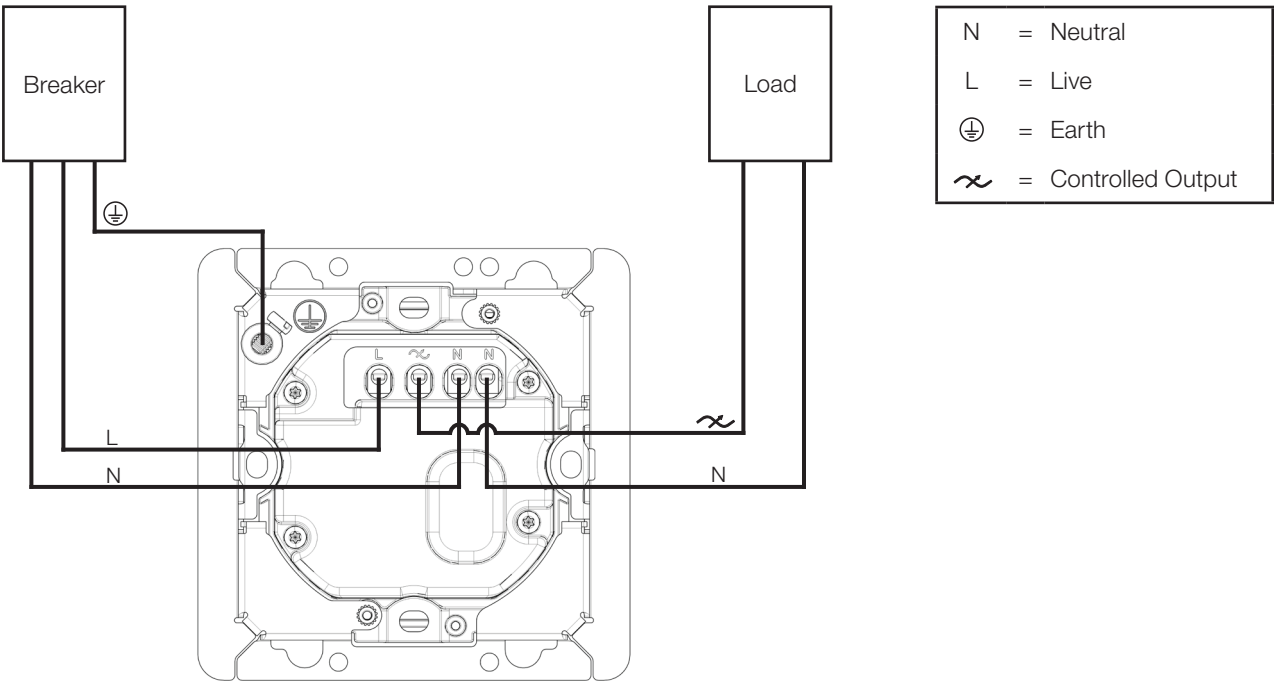
- Status LEDs**
- Show which keypad button has been activated.
 - Pressed (active) button LEDs are brighter than other buttons.
- Keypad Buttons**
- Press to activate desired levels or positions.
 - Default operation depends on the button configuration and is available only prior to device activation within the system.
 - 2B: The top button is ON, the bottom button is OFF.
 - 3RL:
 - Dimming: The top button is ON, the next button is 50%, the next button is OFF, and the next two buttons are OFF.
 - Switching: The top three buttons are ON, the bottom button is OFF.
 - 4B:
 - Dimming: The top button is ON, the next button is 50%, and the next two buttons are OFF.
 - Switching: The top three buttons are ON, the bottom button is OFF.

Keypad: Wiring Diagram

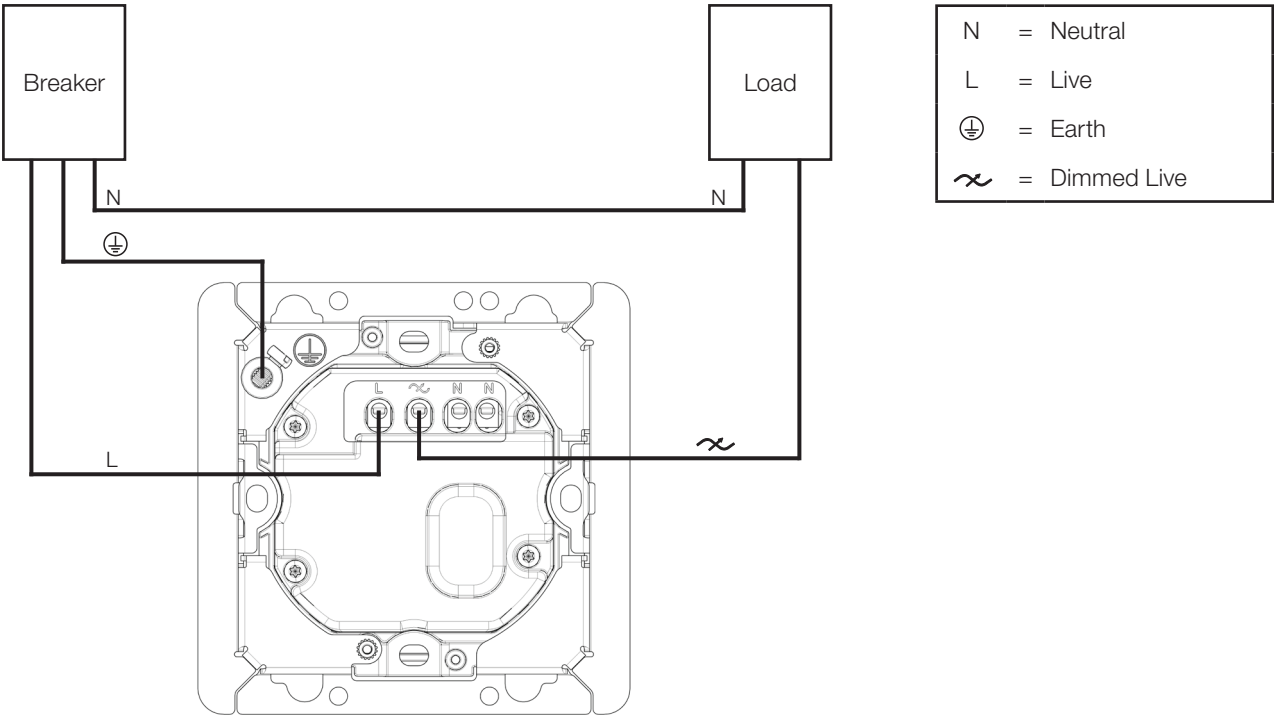


Hybrid Keypad Models: Wiring Diagram

With neutral (dimming or switching):

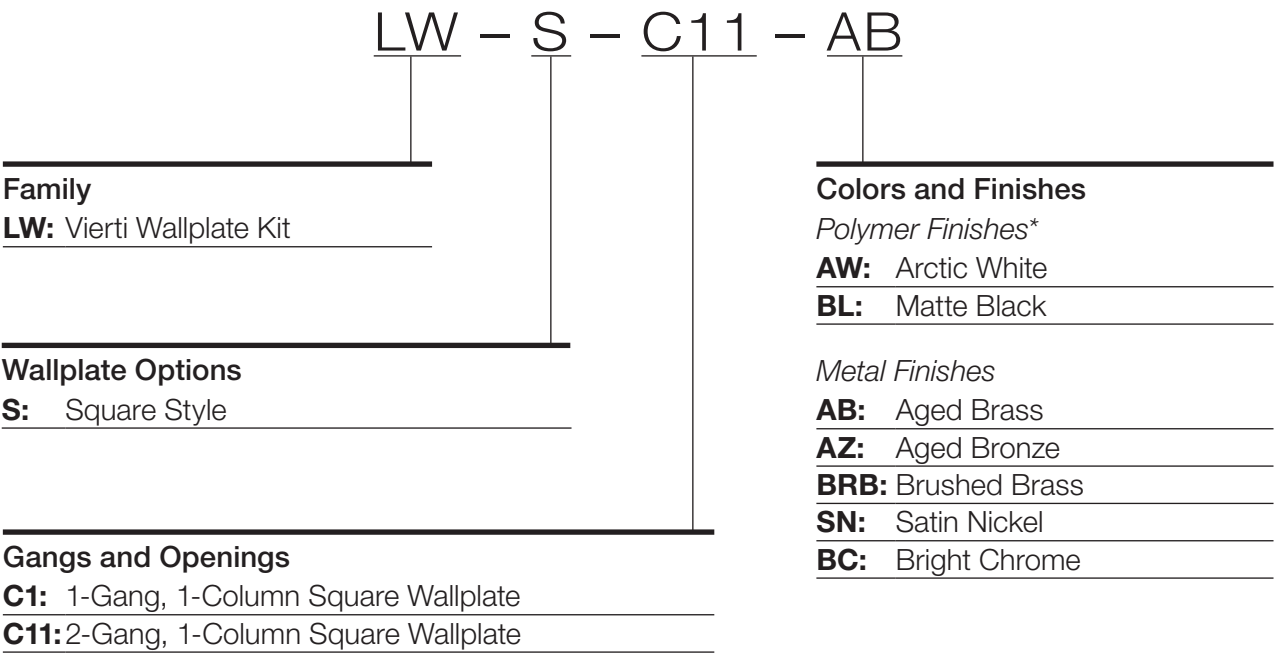


Without neutral (dimming only):



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

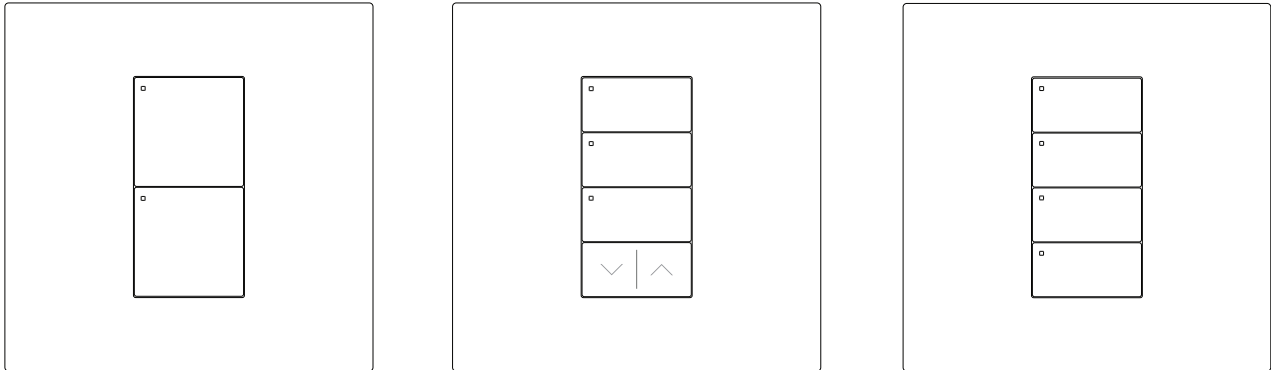
How to Build a Wallplate Kit Model Number



* Available for the 1-gang, 1-column square wallplate only.

Button Configurations

1-Gang, 1-Column

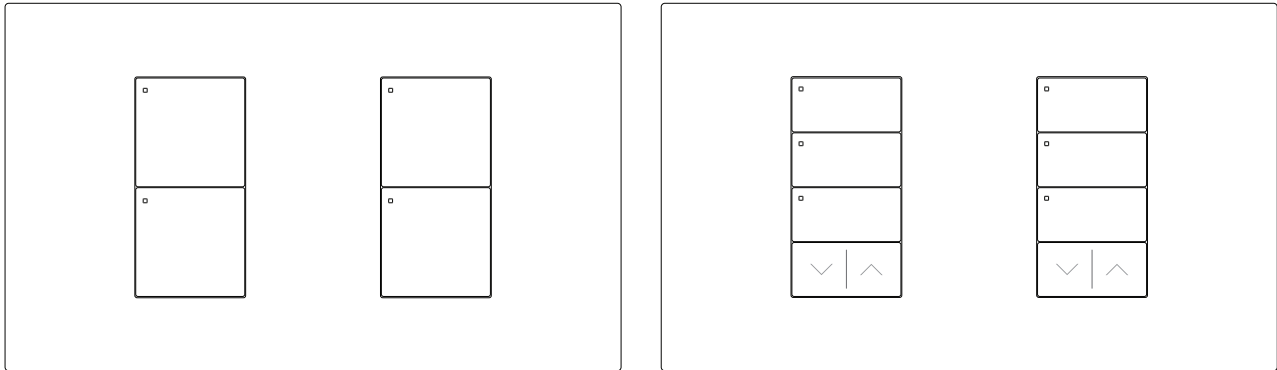


2-Button

3-Button with Raise/Lower

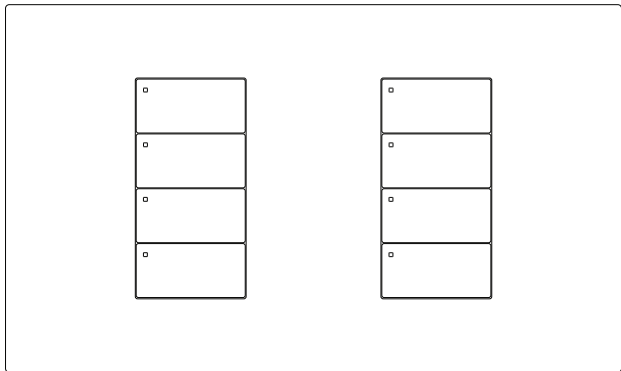
4-Button

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.

Personalized Button Text/Icons

Personalization

Final personalization to be specified in myProjects, Lutron Designer, or the online 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.

 SPECIFICATION SUBMITTAL

Page

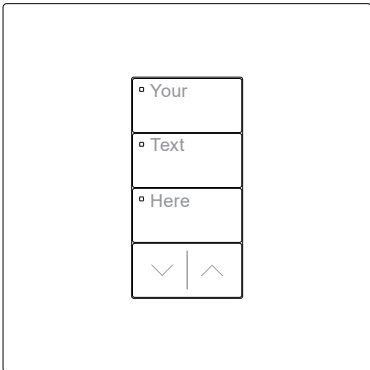
Job Name:	Model Numbers:
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How to Select a Vierti Keypad

Square Style

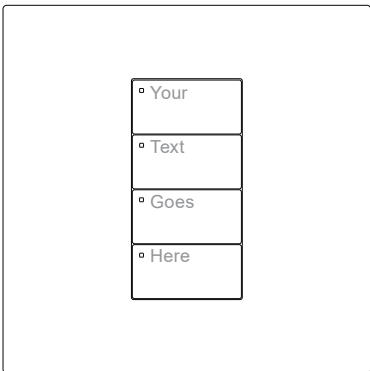
1-Gang, 1-Column, 3-Button with Raise/Lower hybrid keypad personalized in Arctic White (AW) with Arctic White (AW) wallplate:

Component	Model Number	Quantity
Configured base hybrid keypad	A-HD	1
Wallplate	LW-S-C1-AW	1



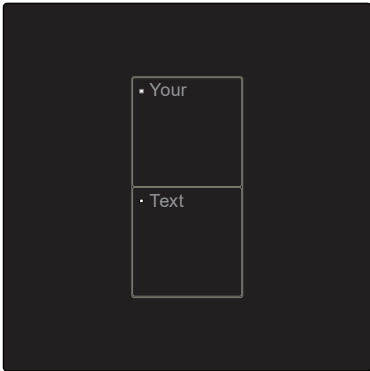
1-Gang, 1-Column, 4-Button configured hybrid keypad (switch) personalized in Arctic White (AW) with Arctic White (AW) wallplate:

Component	Model Number	Quantity
Configured base hybrid keypad (switch)	A-HS	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	A-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



How to Select a Vierti Keypad *(continued)*

Square Style *(continued)*

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

• Your

• Text

• Goes

• Here

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

Component	Model Number	Quantity
Configured base hybrid keypad	A-HD	2
Wallplate	LW-S-C11-SN	1



Job Name:	Model Numbers:
Job Number:	

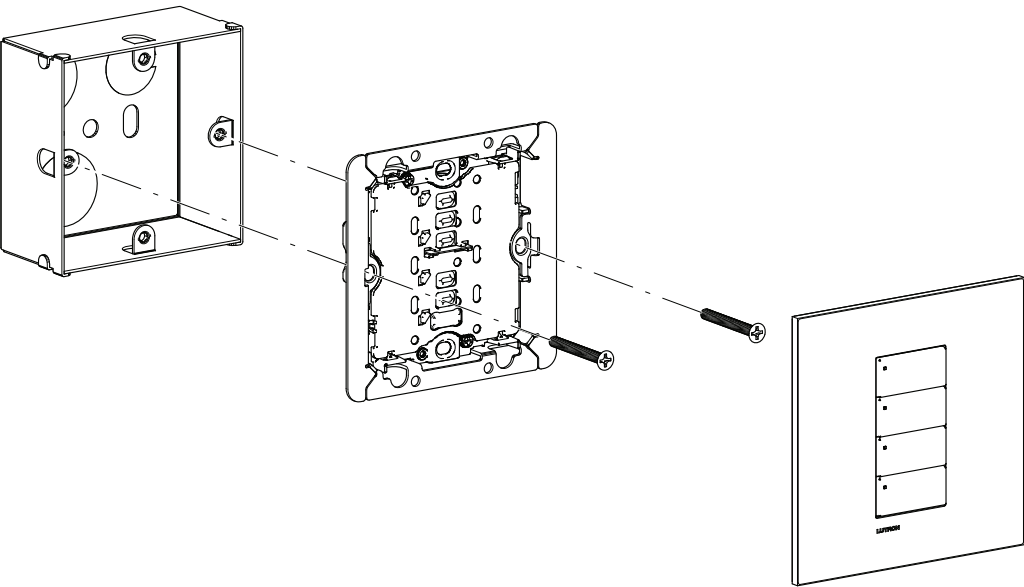
Mounting

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.

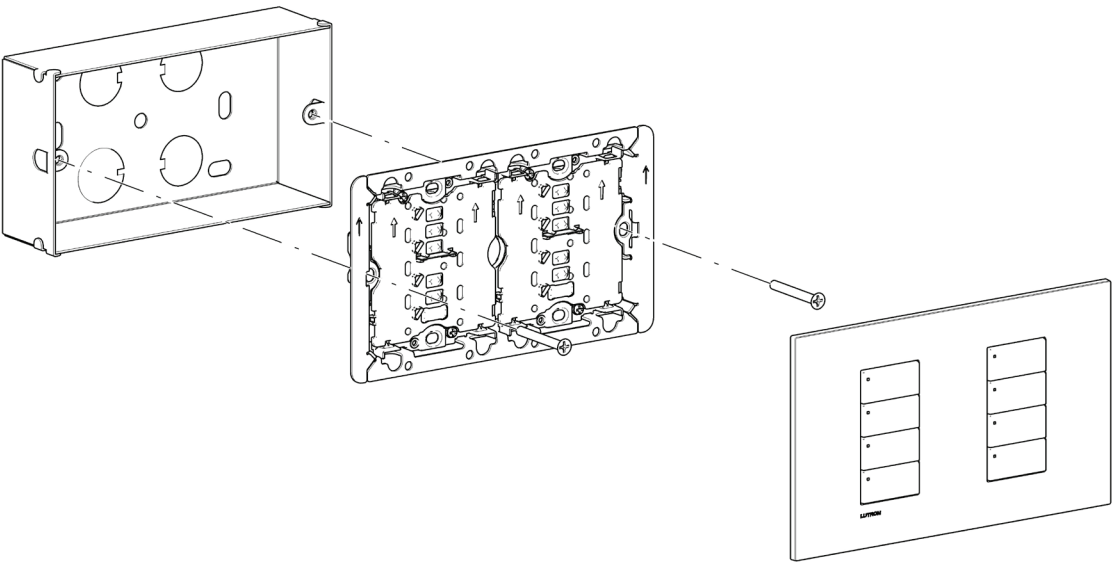
Square Style (Square Backbox)

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.

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

Colors and Finishes

Polymer Finishes




Metal Finishes (wallplates only)



- 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

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 SPECIFICATION SUBMITTAL

Page

Job Name:	Model Numbers:
Job Number:	