

**VTM31-SN**

# **Instructions**

# Next Gen Smart Lighting

We're excited to have you on this journey with us and we're here for you every step of the way. Not only are we smart home owners ourselves, but we build all of our products alongside 1,000's of passionate community members. To see how the project came to life and how everyone contributed, please see Page 54 or visit: [inov.li/jonagold](http://inov.li/jonagold). It's truly amazing working with people of all walks of life and even more humbling to see everyone's dedication to making some of the best smart home products.

Thank you so much for your trust in us and welcome to the next generation of smart lighting with Inovelli.

Eric H. - Founder/CEO

Eric M. - Founder/CTO

Handwritten signatures of Eric H. and Eric M. in black ink. Eric H.'s signature is a stylized 'E' followed by 'H.', and Eric M.'s signature is a stylized 'E' followed by 'M.'.

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# Navigating this Manual

We designed this manual as if we were installing the switch ourselves. We suggest reviewing the full manual before beginning the installation process. There are five areas this manual covers:

1. Getting to know your switch
2. Figuring out your wiring
3. Manually programming your switch
4. Connecting to your hub/gateway
5. Configuring your switch (optimize the settings)

As we continue to work with hub manufacturers, and improve our products. It may be necessary to periodically update this manual. You can always find the latest version of this manual by visiting: [inov.li/vtm31sn](http://inov.li/vtm31sn)

**Quick Setup & Inclusion.**

# Quick Setup Notes

We get it, you're ready to go. No need to flip through the manual, you want the abridged version. **This section assumes you have your switch wired correctly and the blue LED Bar is lit up.**

It also assumes you know how to enter the Z-Wave pairing mode on your hub/gateway (and have a Z-Wave compatible hub/gateway).

To see which hubs are compatible, please visit: [inov.li/vtm31snhubs](http://inov.li/vtm31snhubs)

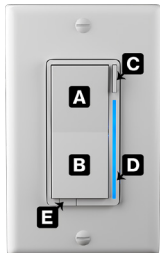
While these instructions likely won't change, for the most up-to-date instructions, we recommend scanning the QR code to the right or to visit: [inov.li/vtm31snQS](http://inov.li/vtm31snQS)



# Pairing Your Switch

First, begin by putting your hub in pairing mode. The switch will start the pairing process once you scan the QR Code at the bottom left corner of the switch. To indicate the switch is in pairing mode, the LED Bar (D) will pulse blue. If the LED Bar (D) is not pulsing, then please try a factory reset described in the next paragraph. If pairing is successful, the LED Bar (D) will flash green (if not, it will turn red).

If the switch is unsuccessful during pairing, you can factory reset the switch by holding down the top of the paddle (A) and the config button (C) for 20 seconds. The LED Bar (D) will turn green, then yellow, and finally red, indicating it's been reset and you can try the pairing process again.



# Getting to Know Your Switch

Please use the next couple pages to get to know your smart switch.

**A. Light On / Increase Dim % Level:** Tap 1x to turn on your light or hold to increase the brightness level (dim percentage). In addition, it can be used to activate scene control (multi-taps and holds) where up to 7 scenes can be added\*.

**B. Light Off / Decrease Dim % Level:** Tap 1x to turn off your light or hold to decrease the brightness level (dim percentage). In addition, it can be used to activate scene control (multi-taps and holds) where up to 7 scenes can be added\*.

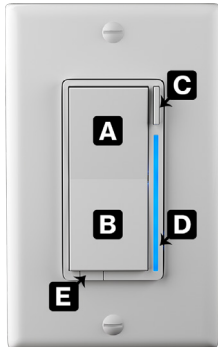
**C. Config / Favorites Button:** Used to configure certain



parameters of the switch. In addition, it can be used to activate scene control (multi-taps and holds) where up to 7 scenes can be added\*.

**D. RGB LED Bar:** Multi-functional LED bar that shows the % level at which your switch is at. In addition, it can be used as a notifier\* for various events (ie: turn red when alarm is armed, pulse purple if garage is left open, etc).

**E. Air Gap:** This can be pulled out to cut power to the load and is there for safety purposes.



\* Hub must support these features. Please see pg. 46.

# Quick Tap Sequences

Please see the below for the quick tap sequences. For a full list, see: [inov.li/vtm31-sn-quicktap](http://inov.li/vtm31-sn-quicktap)

Wiring Type	Sequence	Confirmation
Single Pole	Hold on ↑ paddle, tap config 6x, release	Cyan
Multi-Way (Toggle)	Hold on ↓ paddle, tap config 5x, release	Violet
Multi-Way (Aux)	Hold on ↑ paddle, tap config 5x, release	White
Switch Type	Sequence	Confirmation
Dimmer	Hold on ↓ paddle, tap config 3x, release	Orange
On/Off	Hold on ↑ paddle, tap config 3x, release	Red
Smart Bulb Mode	Hold on ↑ paddle, tap config 4x, release	Yellow

10 \* If using Smart Bulb Mode, please also select Dimmer or On/Off.

**Wiring.**

# Wiring Notes

Due to the number of ways these switches can be wired, all schematics are housed online and you can access the schematics by scanning the QR Code at the bottom right, or by visiting: [inov.li/vtm31snwiring](http://inov.li/vtm31snwiring)

To work your way through this section, first read the warnings, then familiarize yourself with the vernacular used. Finally, keep notes as you go through the first three (3) steps as you will use them to determine whether or not your wiring is compatible and whether or not you have to pre-program/setup your switch (pg. 28).

Finally, please do not attempt to install these switches if you are unfamiliar with electrical as serious injury can occur.



# Safety Reminder

Consult a qualified electrician if necessary as **we are unable to give wiring advice outside of schematics.**

If you are unsure how electrical circuits work, please do not try installing this device. As exciting as it is to have a smart switch installed, it can be dangerous and even life-threatening if you do not install it correctly. Improper installation will void the product's warranty.

Please read through the warnings on the next few pages before installing your switch. We can't stress enough how dangerous installation can be if you don't know what you're doing.

# Warnings

**Caution - Please Read:** This device (VTM31-SN) is intended for installation in accordance with the National Electric Code and local regulations in the United States, or the Canadian Electrical Code and local regulations in Canada. If you are unsure or uncomfortable about performing this installation consult a qualified electrician. This product is made for indoor use only and is not designed or approved for use on power lines other than 120VAC, 60Hz, single phase. Attempting to use this VTM31-SN on non-approved power lines may have hazardous consequences.

**Attention - Information importante:** Cet appareil (VTM31-SN) est conçu pour être installé conformément au « National Electric Code » et aux réglementations locales aux

États-Unis, ou au Code canadien de l'électricité et aux réglementations locales canadiennes. Si vous ne vous sentez pas à l'aise ou qualifiés pour effectuer cette installation, veuillez consulter un électricien qualifié. Ce produit est conçu pour une utilisation intérieure uniquement et n'est pas conçu ou approuvé pour une utilisation avec une ligne électrique ayant un voltage autre que 120 VCA, 60 Hz, monophasé. L'utilisation du Vtm31-sn avec une ligne électrique non approuvée peut avoir des résultats dangereux.

**Other Warnings:** Risk of Fire, Electrical Shock & Burns

**Autres avertissements:** Risque d'incendie, de choc électrique et de brûlures

# Warnings (Continued)

**Recommended Installation Practices:** Use only indoors or in an outdoor rated box. Turn off the circuit breaker. Installing this switch and module with the power on will expose you to dangerous voltages. Connect only copper or copper-clad wire to the switch or module.

To reduce the risk of overheating and possible damage to other equipment, do not install to control a receptacle, a motor-operated appliance, a fluorescent lighting fixture or a transformer supplied appliance and do not use the VTM31-SN load output to control no more than indicated.

- 600 Watts (Incandescent)
- 300 Watts (LED)
- 150 Watts (CFL)

Dimming an inductive load (by connecting to the light load wire),



such as a fan or transformer, appliance, motor or any device not specifically designed for dimming, could cause damage to the dimmer, the load bearing device, or both. To install your 2-1 Switch (VTM31-SN), you'll need to identify the following four wires (**NOTE:** Neutral is not mandatory, but recommended):

- **Line:** Usually black and can also be called the, "hot" or "live" and carries 120VAC electricity into the electrical box
- **Neutral\*:** Usually white and is commonly daisy chained from box to box, usually appearing as a white wire bundle.
- **Load:** Usually black, blue or red
- **Ground:** Bare copper wire or metal fixture (if grounded)

\* Neutral is mandatory in certain installations. See page 29 for additional details.

# Warnings (Continued)

If you are having difficulties identifying wires, please consult an electrician.

**Pratiques d'installation recommandées:** Utiliser uniquement à l'intérieur ou à l'extérieur dans une boîte adaptée aux conditions extérieures. Éteignez le disjoncteur. L'installation de cet interrupteur et de ce module alors que le courant est allumé vous exposera à des tensions dangereuses. Connectez uniquement un fil de cuivre ou gainé de cuivre au commutateur ou au module.

Pour réduire le risque de surchauffe et d'endommager d'autres équipements, il est important de connecter des lumières incandescentes ayant moins de 600 watts, des lumières DEL ayant moins de 300 watts, des ampoules fluocompactes ayant moins de 150

watts ou un ventilateur utilisant moins de 1 ampère et ce dernier avec l'interrupteur en mode marche/arrêt uniquement.

La gradation d'une charge inductive, comme un ventilateur ou un transformateur, pourrait endommager le gradateur, l'interrupteur ou les deux appareils. Veuillez régler l'interrupteur en mode marche/arrêt si vous utilisez un ventilateur.

Pour installer votre interrupteur 2 en 1 (VTM31-SN), vous devrez identifier les quatre fils suivants (REMARQUE: le neutre est optionnel, mais recommandé) :

- **Ligne:** généralement noire et peut également être appelée « chaud » ou « sous tension » et transporte l'électricité 120 VCA

# Warnings (Continued)

dans le boîtier électrique

- **Neutre:** habituellement blanc et connecté en série d'une boîte à l'autre, les fils sont habituellement attachés ensemble dans la boîte électrique
- **Charge:** habituellement noire, bleue ou rouge
- **Mise à terre:** fil de cuivre nu ou boîtier métallique (si celui-ci est mis à la terre)

Si vous rencontrez des difficultés à identifier les fils, veuillez consulter un électricien.

**Équipement médical:** Veuillez ne pas utiliser cet interrupteur pour contrôler de l'équipement médical ou nécessaire à la survie. Les appareils Z-Wave ne doivent jamais être utilisés pour contrôler la marche or l'arrêt d'équipement médical et/ou nécessaires à la survie.

# Vocabulary

Before we go into actual steps, it's important to be familiar with the vernacular used on the following pages. Please see below:

- **Line:** This is your hot wire (120V) - aka: "live" wire
- **Load:** This is the wire that runs from your light switch to what you're controlling (ie: bulb(s), fan, etc)
- **Neutral:** This is the wire that carries current back to the power source (you may not have this in your house)
- **Single-Pole:** One switch controlling one or more load(s)
- **Multi-Way:** Refers to 3-Way (2 switches, 1 load), 4-Way (3 switches, 1 load), or 5-Way setups (4 switches, 1 load)
- **Toggle ("Dumb") Switch:** Refers to your existing switch (ie: the switch(es) you had before replacing with your smart switch(es))
- **Aux Switch:** Refers to the Inovelli Aux Switch ([inov.li/aux](http://inov.li/aux))

# Step 1 - Determine Wiring Type

The first step is to determine how many switches control your load(s) (aka: light(s)).

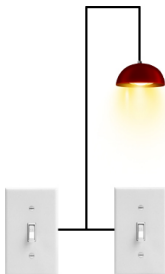
Using the diagram on the next page, please determine what your wiring type is and remember this selection:

- **Single-Pole:** One switch controls one load (load may contain more than one light, etc).
- **Multi-Way:** Two or more switches control one load (load may contain more than one light, etc). We will use the term, "multi-way" instead of 3-Way, 4-Way, 5-Way, etc as the programming of the switch is the same regardless.



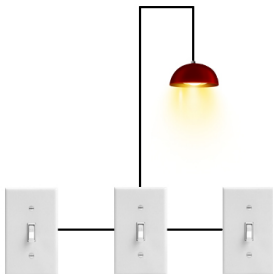
### **Single-Pole**

One switch controls one (or more) load(s).



### **Multi-Way**

Two or more switches control one (or more) load(s).



# Step 2 - Determine Switch Layout

**NOTE:** If you determined in Step #1 that your switch is single-pole, you can skip this step. This step is for multi-way setups only.

Using the diagram on the next page, please determine what your wiring layout is and remember this selection:

- **Smart Switch + Toggle Switch:** One smart switch and one (or more) toggle/existing switch (one already in your wall).
- **Smart Switch + Aux Switch:** One smart switch and one (or more) aux/add-on switch (Model #: AUX01 or [inov.li/aux](http://inov.li/aux)).
- **Smart Switch + Smart Switch:** Two (or more) smart switches.

See [inov.li/vtm31snlayout](http://inov.li/vtm31snlayout) for the pro/cons of each setup. You may not mix/match (ie: Smart + Aux + Toggle) in the same circuit.

**Switch Layout (Circle One):** Toggle, Aux, or Smart Switch(es)





### **Smart + Toggle Switch**

One Inovelli smart switch & one (or more) toggle/existing switch.



### **Smart + Aux Switch**

One Inovelli smart switch & one (or more) Inovelli aux switch (AUX01).



### **Smart Switches**

Two (or more) Inovelli smart switches.

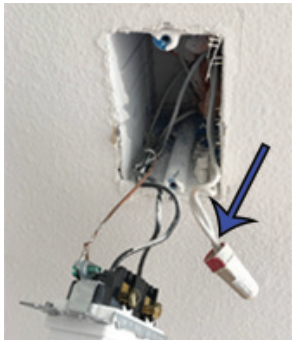
# Step 3 - AC Power Type

In this step, we will determine if you have a neutral wire, which is typically white and located in the back in your switch gang-box (typically in a bundle of wires tied together).

Here are some signs you may have a neutral wire:

- If your house was built in the mid-1980's or later
- If there is an outlet (receptacle) near the switch
- If switches are in the same gang-box (regardless of the year your house was built)

See the next page for details on checking for a neutral wire.



After turning off your breaker, pull out the switches (**WARNING:** there may be multiple circuits in one gang-box -- please ensure all circuits are turned off). Check the back of your gang-box for a bundle of white wires. These are typically neutrals.

# Step 4 - Compatibility Check

In this step, we will determine if your switch can be installed with your current wiring setup. If not, you can see some alternate solutions on how to accomplish compatibility.

Taking the answers you circled in Steps 1-3, please see the chart on the next page to see if your switch is compatible with your setup.

**Example:** If you circled, "Multi-Way", "Toggle Switch" and "Neutral", you will see that your wiring is compatible. However, if you circled, "Multi-Way", "Toggle Switch" and "No Neutral", you will see that your wiring is not compatible and you will need to purchase an auxiliary switch ([inov.li/aux](http://inov.li/aux)).

Wiring Type	Switch Layout	Power Type	Supported
Single-Pole		Neutral	Yes
		No Neutral	Yes
Multi-Way (3+ Way)	Toggle (Switch)	Neutral	Yes
		No Neutral	No
	Aux (Switch)	Neutral	Yes
		No Neutral	Yes
	Smart (Switch)	Neutral	Yes
		No Neutral	No

**IMPORTANT:** For installations where no neutral wire is present, you may need to install a special bypass to prevent flickering and/or keep your switch powered. Bypasses can be purchased here: [inov.li/bypass](http://inov.li/bypass)

# Step 5 - Switch Installation

The last step is to physically install your switch. After you've determined your wiring type, switch layout, AC Power type and whether or not you have a compatible setup, it's time to look at the wiring schematics and install your switch.

As mentioned, there are many different ways your switch can be wired that if we posted them here, we'd have an encyclopedia of a manual, so all of our schematics are housed online. [UL specifies the tightening torque for the screws to be 0.8 N.m \(7.08 lbf-in\).](#)

Keep note of your answers from the prior steps and either scan the QR Code to the right or go to: [inov.li/vtm31snwiring](http://inov.li/vtm31snwiring) and match up your answers to the correct schematic section.



**Manual Setup.**

# Manual Setup Notes

**NOTE: If you plan on using your switch as an on/off switch and in a single-pole setting, you may skip this step.** If you plan on using your switch as a dimmer and/or in a multi-way setup, please continue.

Since this switch has so many different available configurations (on/off, dimmer, smart, aux, toggle, neutral, non-neutral, etc), you may need to manually change them at the switch to work manually.

Luckily, it's as simple as pressing a couple buttons. Feel free to follow the steps on the next couple of pages, scan the QR Code or visit: [inov.li/vtm31snmanualsetup](https://inov.li/vtm31snmanualsetup)

Again, if you are using this switch as an on/off and single-pole setting, you can skip this section.





# Manual Setup Example

Here's an example of how to use the chart on the next page (pg.34):

Let's say you want your switch to be a dimmer switch and you have it wired in a multi-switch setting using a toggle (dumb) switch.

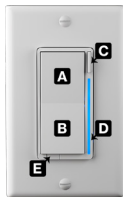
Using the chart on pg. 34, you would first hold down on the bottom part of the paddle (B), while simultaneously tapping the config button (C) 3x. After seeing the LED bar change color to signify a success (orange in this case), release the bottom of the paddle.

Next, to program the switch to work in a multi-switch setup using a toggle (dumb) switch, you would then hold down on the bottom part of the paddle (B), while simultaneously tapping the config button (C) 5x. After seeing the LED bar change color to signify a success (violet in this case), release the bottom of the paddle.

# Switch Configuration

Use the button sequence below to adjust the mode of the switch according to your wiring configuration. The LED bar (D) will flash the associated color to indicate success. For a visual example of configuring to a multi-way (toggle) setting, see: [inov.li/vtm31snSCVid](https://inov.li/vtm31snSCVid).

Hubs supporting advanced settings can also update this setting via their respective apps.

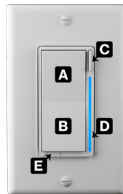


Wiring Type	Sequence	Color
Single-pole	Hold on ↑ paddle (A), tap config (C) 6x, release	Cyan
Multi-Way (Toggle)	Hold on ↓ paddle (B), tap config (C) 5x, release	Violet
Multi-Way (Aux)	Hold on ↑ paddle (A), tap config (C) 5x, release	White

# Switch Mode

Use the button sequence below to adjust the mode of the switch according to the type of switch you want. The LED bar will flash the associated color to indicate success. For a visual example of changing to a dimmer, see: [inov.li/vtm31snSMVid](https://inov.li/vtm31snSMVid).

Hubs supporting advanced settings can also update this setting via their respective apps.



Switch Type	Sequence	Color
On/Off	Hold on ↑ paddle (A), tap config (C) 3x, release	Red
Dimmer	Hold on ↓ paddle (B), tap config (C) 3x, release	Orange
Smart	Hold on ↑ paddle (A), tap config (C) 4x, release	Yellow

\* Used for Smart Bulb Mode or if 2+ Smart Switches are on the same circuit. 35

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**Hub/Gateway Setup.**

# Hub/Gateway Setup Notes

As manufacturers update their hub/gateway platforms, the setup process may change. We recommend checking our website for the latest directions, by scanning the relvant QR code.

If you don't see your hub, please go to: [inov.li/vtm31sn0T](https://inov.li/vtm31sn0T)

## Amazon Echo



[inov.li/  
vtm31snAE](https://inov.li/vtm31snAE)

## Apple HomeKit



[inov.li/  
vtm31snAH](https://inov.li/vtm31snAH)

## Google Home



[inov.li/  
vtm31snGH](https://inov.li/vtm31snGH)

## Home Assistant



[inov.li/  
vtm31snHA](https://inov.li/vtm31snHA)

## SmartThings



[inov.li/  
vtm31snST](https://inov.li/vtm31snST)

# Amazon Echo Instructions

**COMPATIBLE HUBS:** Any Thread enabled Amazon Echo will work. To see a full list, please go to: [inov.li/vtm31snAEC](https://inov.li/vtm31snAEC). For more info, please go to: [inov.li/vtm31snAEPreqs](https://inov.li/vtm31snAEPreqs)).

- Open the Amazon Alexa app and click on the "+" at the top right
- On the, "Add" menu that pops up, click on, "Device"
- Click on, "Switch"
- Scroll to the bottom where it says, "Other" and click on it
- Where it says, "Which logo is on your device", click, "Matter"
- On the screen, "Does your device have a Matter logo", click, "Yes"
- On the screen, "Is your device powered on?", click, "Yes"
- Click on, "Scan QR Code" and then scan the QR Code on the switch (located at the bottom left)
- Select your Thread network and the device should pair

# Apple HomeKit

**COMPATIBLE HUBS:** Any Thread enabled Apple product will work. To see a full list, please go to: [inov.li/vtm31snAHC](https://inov.li/vtm31snAHC). For more info, please go to: [inov.li/vtm31snAHPreqs](https://inov.li/vtm31snAHPreqs)).

- Open up your Apple Home App and click "+" at the top right
- In the drop-down, select, "Add Accessory"
- Scan the QR Code located at the bottom left of the switch
- Click on, "Add to Home" and Apple will start to add the device
- Apple will continue to add your Inovelli device and your LED Bar will start to pulse blue -- if successful, the LED Bar will flash green three (3) times
- Add your device to the location of your choosing and click, "Continue" -- feel free to rename your device
- Your switch should be added to your home -- click, "Done"



# SmartThings

**COMPATIBLE HUBS:** Samsung SmartThings Hub V3 and the Samsung SmartThings Station.

- Open the SmartThings app and click on the devices icon
- Tap on the (+) button and click, "Add Device"
- Click on, "Add" by where it says, "Partner Devices"
- Next, click on, "Matter"
- Scan the QR Code located at the bottom left of the switch
- SmartThings should then add your switch to the network

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**Advanced Features.**

# Advanced Features Notes

**NOTE:** The advanced features shown below are what is built into the switch firmware, and may or may not be supported by your hub/gateway.

These switches are packed with a ton of amazing features, which include scene control (multi-tap), notifications, smart bulb mode, and approximately 40 different configuration options to customize your switch.

The manual does not have enough room to list out and explain all the configuration options and advanced features. However, the following pages will direct you to the proper URL's. An overview can be found at the QR code to the right or at the following URL: [inov.li/vtm31snAF](https://inov.li/vtm31snAF)



# Switch Configuration Options

There are approximately 40 different configuration options on this switch, making it one of the most customizable switches out there.

Due to the space constraints in this manual, we had to list them all out on our website. You can access these options by scanning the QR Code or by visiting: [inov.li/vtm31snLC](http://inov.li/vtm31snLC)

Some of the highlights include: changing the dimming speed, multi-tap speed, min/max brightness, LED bar color (individual LED's or full bar), default dim level, and so much more.



# Other Advanced Features

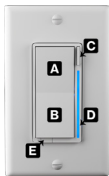
To setup some of the other advanced features, such as: Animated Notifications, Scene Control, and Smart Bulb Mode, please see the URL's below as the instructions will be different depending on the hub you're using.

- **Notifications:** [inov.li/vtm31snAN](http://inov.li/vtm31snAN)
- **Scene Control:** [inov.li/vtm31snSC](http://inov.li/vtm31snSC)
- **Smart Bulb Mode:** [inov.li/vtm31snSBM](http://inov.li/vtm31snSBM)

As noted on page 45, your switch has the ability to configure various parameters from the configuration button. To learn more, please visit: [inov.li/vtm31snLC](http://inov.li/vtm31snLC)

# LED Bar Indicators

This switch uses its LED bar to display when certain events take place and/or during configuration modes. Please see the chart below for more details and please visit the following URL to understand how to setup Animatied Notifications: [inov.li/vtm31snAN](http://inov.li/vtm31snAN)



About	Sequence	Color / Animation
Factory Reset	Hold (A) & then config (C) together for 20s, and let go on red	Red / Slow Blink

About	Sequence	Color / Animation
On / Off Mode	Hold Up (A) and tap Config (C) 3x	Red / Solid
Dimmer Mode	Hold Down (B) and tap Config (C) 3x	Orange / Solid
Enable Smart Bulb Mode	Hold Up (A) and tap Config (C) 4x	Yellow / Solid
Disable Smart Bulb Mode	Hold Down (B) and tap Config (C) 4x	Blue / Solid
3-Way Aux Mode	Hold Up (A) and tap Config (C) 5x	White / Solid
3-Way Dumb Mode	Hold Down (B) and tap Config (C) 5x	Pink / Solid



About	Sequence	Color / Animation
Single Pole Mode	Hold Up (A) and tap Config (C) 6x	Cyan / Solid
Single Pole (Full Sine Wave)*	Hold Down (B) and tap Config (C) 6x	Green / Solid
Button Delay Time Set to 0	Hold Up (A) and tap Config (C) 7x	Green / Solid
Button Delay Time Set to 5 (500ms)	Hold Down (B) and tap Config (C) 7x	Yellow / Solid

\* Switch must be in On/Off & Neutral Modes

About	Sequence	Color / Animation
Enable Local Protection Mode	Hold Up (A) and tap Config (C) 10x	Green / Solid
Disable Local Protection Mode	Hold Down (A) and tap Config (C) 10x	Red / Solid
Enable Leading Edge Mode	Hold Up (A) and tap Config (C) 13x	Pink / Solid
Enable Trailing Edge Mode	Hold Down (A) and tap Config (C) 13x	Indigo / Solid

# Manufacturer Compatibility

This product can be operated in any Thread network with other Thread certified devices from other manufacturers. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network. Each module is designed to act as a repeater, which will re-transmit a radio frequency (RF) signal by routing the signal around obstacles and radio dead spots to ensure that the signal is received at its intended destination.

# Factory Reset / Exclusion Info

To factory reset your device, first, hold the Configuration / Favorites Button (C) followed by the up button (A) for 20 seconds until the LED Bar (D) turns red and let go. The switch should blink red a few times indicating it has been factory reset. You may also use a certified Z-Wave controller to remove the device from your network to factory default. Only use these procedures in the event that the primary controller is missing or otherwise inoperable.

Exclusion will reset your device as well and can be done directly from the hub. This is helpful if you're running into issues with inclusion. To exclude a device, start the exclusion process on your hub and press the Configuration / Favorites Button (C) 3x rapidly. The LED Bar (D) will start pulsing blue and if successful, it will flash green. If unsuccessful it will flash red.

**Product & Contact Info.**

# Product & Contact Info Notes

As mentioned in the beginning of the manual, we're all smart home owners ourselves and have an amazing community of people who are eager to help and share their setups.

If you ever run into any issues, please do not hesitate to submit a ticket, or post in the community. We'd love to hear from you.

**Community Link:** [inov.li/community](https://inov.li/community)

**Submit a Ticket:** [inov.li/support](https://inov.li/support) (or scan the QR Code below)

Thanks again for your support and we look forward to helping you get the most out of our smart home!



# FCC/IC Statements

**FCC Caution:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency

# FCC/IC Statements (Cont.)

energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna, increase the separation between the equipment and receiver, connect the equipment into an outlet on a circuit different from that to which the receiver is connected or consult the dealer or an experienced radio/TV technician for help. This equipment should be installed and



operated with minimum distance 8in (20cm) between the radiator and your body.

**IC Caution:** This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

**DECLARATION DE CONFORMITE D'INDUSTRIE CANADA:** Ce périphérique a été testé et reconnu conforme aux limites spécifiées dans RSS-210. Son utilisation est soumise aux deux conditions suivantes: (1) il ne doit pas provoquer d'interférences gênantes et (2) il doit tolérer les interférences, notamment celles susceptibles d'en perturber le fonctionnement.

# Product Info

Name: Smart 2-1 Switch (On/Off or Dimmer)

SKU #: VTM31-SN

Power: 120V AC, 60Hz

Signal (Frequency): 908.42 MHz

Operating Temperature Range: 32-95° F (0-35° C)

Maximum Load (Watts): 600W Single-Gang, 500W Double-Gang, 400W Triple-Gang Incandescent, 300W LED, 150W CFL

Not rated for inductive loads or fans.

Range: Up to 100 meters line of sight between the Wireless Controller (HUB) and the closest Thread Repeater.

Certifications: UL Listed, FCC/IC & Thread & Matter Certified

For indoor use. Specifications subject to change without notice due to continuing product improvement.

# Company Info / Warranty

If you run into any issues, feel free to reach out to us at: [contact@inovelli.com](mailto:contact@inovelli.com). We typically answer tickets within 24-48 hours and are staffed by actual smart home owners.

All Inovelli products come with a one (1) year warranty (defined as 365 days). This warranty protects you from breakdowns in the material or workmanship under normal use. This warranty is limited in a couple areas. Purchases must be made from Inovelli or an authorized reseller. The product should be used in the manner directed in the instructions. The product must only be used and/or installed in the United States or Canada.

For full warranty info, please visit: [inov.li/warranty](http://inov.li/warranty)

# Project Jonagold

The purpose of this project is to give our Google Home, Apple HomeKit, and Amazon Echo friends an opportunity to enjoy the Inovelli magic as well as enter into the Matter world.

We named this, "Jonagold" because Jonagold is my favorite type of apple that happens to be grown in Michigan. We thought it would be fitting to tip our hat at one of the companies we draw not only our marketing and product inspiration from, but hopefully can partner with in the future and, at the very least, provide compatible products to.

To see the origin of this project, as well as the journey scan the code or visit: [inov.li/jonagold](https://inov.li/jonagold)



 George Bill Craig Jacob

Eric Courtney Mark Ded Kevin 梁伟权

常安  Don  James

Buwardan

 Harold  Rohit  Rachel

王宇坤

唐忠清 Corey

Shruti

Jaeger

Hankin

Rachel

**Thank You.**

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