Thank You.

Thank you for taking the chance on us. We are truly humbled to be a part of your smart home journey and know that out of the many companies out there, you trusted us to make your life simpler and we don't take that for granted. Our mission is to provide the best products, with the best customer support, at the best prices. Sure, every company says that... but we'd like to think we're different. Why? Well, because we have our own smart homes, with our own desires to make our life simpler through home automation. We wake up every day to lights turning on to different colors based on the weather, coffee automatically brewing before we leave for work, and the thermostat changing based on our schedules. We take our nerdiness seriously by engaging in online groups and design our products around community suggestions and needs. We don't pretend to be a multi-billion dollar corporation worried about their shareholders and bottom line. We're ok with being the little guy. The underdog. Looking out for the best interests of poeple like us... the everyday smart home enthusiast who is passionate about moving the industry forward and we wouldn't have it any other way. So again, from the bottom of our hearts, thank you for trusting us.

- Team Inovelli

Meet Your NZW30

Below you'll find the basics about your NZW30, followed by in-depth setup instructions for your specific HUB.
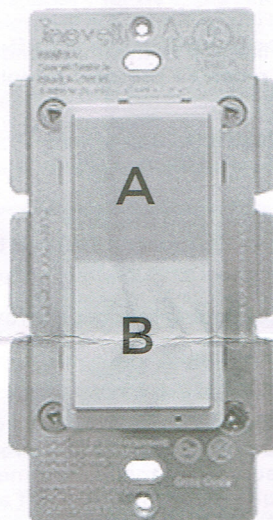
UP/ON Button (A)

Use this to manually turn on your light(s), exclusion mode, invert the LED indicator, or as a backup for inclusion mode (primary inclusion is via, "auto-inclusion")

➤ TAP A (1x) to turn the light on

DOWN/OFF Button (B)

Use this to manually turn off your light(s), or invert your switch

➤ TAP B (1x) to turn the light off

Custom Options

This device has the following manual options available for customization:

1) Change LED Status = Tap UP (A) 10x (Default = Light On / LED Off)
   ➤ Tap UP (A) 10x = Light On / LED On
   ➤ Tap Up (A) 10x = Disable LED
   ➤ Return to default = Tap UP (A) 10x

2) Invert Switch = Tap DOWN (B) 10x (Default = (A) is ON / (B) is OFF)
   ➤ Tap DOWN (B) 10x = (A) is OFF / (B) is ON
   ➤ Return to default = Tap DOWN (B) 10x

In addition, there are parameters that can be set to change the following (please see page 8 for a full list):

1) Change LED Status (Invert/Disable)
2) Invert Switch
3) Automatic Shutoff

HUB Specific Instructions

All HUB's are different. So, why should your instructions be the same? Below you'll find four (4) different QR Codes along with URL's to their respective landing pages which will walk you through **video and written instructions** on how to setup your NZW30. Or, if you'd like to follow along on Page 6 & 7 of this instruction manual, that's fine too. As always, if you run into any trouble, please reach out to us at: contact@inovelli.com.

SmartThings	Wink	Vera™	Other*
inovelli.com/nzw30-setup/smartthings	inovelli.com/nzw30-setup/wink	inovelli.com/nzw30-setup/vera	inovelli.com/nzw30-setup/other

NOTE: If you're not using SmartThings, Wink or Vera, please scan the, "Other" QR Code

If you'd prefer to read the HUB instructions on paper, please turn to Page 6. However, please note that SmartThings regularly updates their interface, so for the most up to date instructions, we encourage you to go to our website (**NOTE**: Z-Wave Instructions start on Page 2 and Wiring Instructions start on Page 4).

About Z-Wave

Z-Wave is an incredible technology. With it powering your home, you can choose from over 600 companies and 2100 products, all of which will work with each other. The more devices, the more stable the network. The purpose of this portion of the manual is to help you understand how Z-Wave works (in layman's terms) as well as help you organize an efficient Z-Wave network, setting you up for success in the long run. Afterall, we're assuming you'll want more than one smart home device!
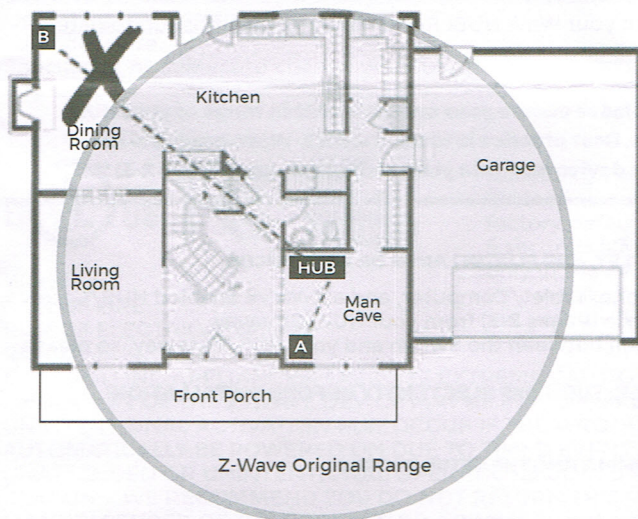
Z-Wave Network | Using Devices that Repeat Signals

As referenced in the intro, Z-Wave can be used with a few devices or it can be used to build a large network. Below you'll see two examples. In the first example, a user has a HUB which is looking for Z-Wave devices within its radius. Z-Wave devices outside this radius will not be found and need to either be moved within the radius, or use a repeating device to reach it. The second example shows how a repeater can be used to reach a device outside of the initial radius. Keep this in mind when building your own network and make sure to use the range estimator below.

Example #1 -- Original Z-Wave Range

In this example, "Switch A" will work because it is in range of the HUB's Z-Wave antenna, whereas, "Switch B" will not because it is out of the HUB's Z-Wave antenna range. To bring, "Switch B" into range, you will either have to move the HUB or put a Z-Wave repeater along the path as shown in Example #2.

Example #2 -- Extended Z-Wave Range

In this example, "Switch B" will now work because it's using, "Switch C" as a repeater to repeat signals to and from the HUB.

Please note: Switch A & B are also signal repeaters in this example. We just didn't have enough space to show the additional circles!

Switch B is out of range and will not work unless either the HUB is moved or a Z-Wave repeater is installed.

HUB	Your Z-Wave Enabled HUB
A	Inovelli Switch #1
B	Inovelli Switch #2

Switch B is now in range because of Switch C which is acting as a Z-Wave signal repeater.

HUB	Your Z-Wave Enabled HUB
A	Inovelli Switch #1
B	Inovelli Switch #2
C	Inovelli Switch #3

Z-Wave Original Range

Z-Wave Extended Range
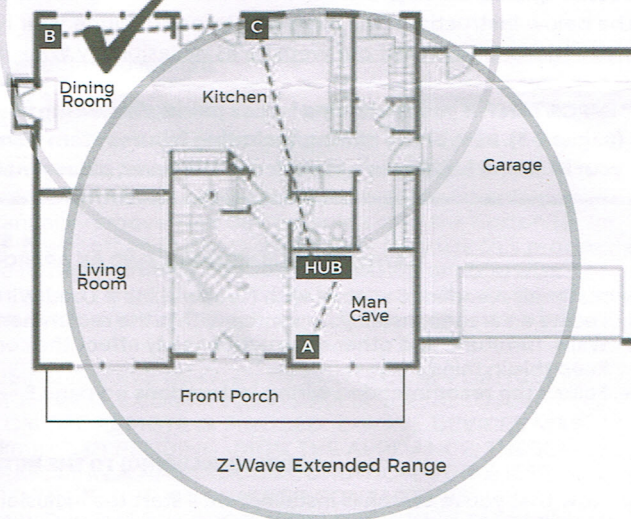
NOTE: Z-Wave range will never be a perfect circle due to walls, furniture, etc. The above is for reference only, please use the Range Estimator below and the Worksheet on Page 3 for a better idea of where to place your switch or whether or not your chosen location will be in range.

Z-Wave Range Estimator

Please use the below information to determine the depreciation of the Z-Wave signal. Z-Wave devices should have a distance of approximately 100m (328ft) without any obstacles in the way. Using the below information, if a signal has to travel through an inner wall, it will lose approximately 40% of its signal. Therefore, 100m multiplied by (100% - 40%) = 60m (197ft). Do this for every wall, window, etc and you will have your approximation. There's a worksheet on Page 3 that will help. As always, this is just an estimate. Depending on the manufacturer's quality for your other Z-Wave products, your signal may vary.

Material	Thickness	Signal Depreciation	Material	Thickness	Signal Depreciation
Aerated Concrete Stone	< 30cm // 11.8"	20%	Metal Grid	< 1mm // 0.04"	90%
Aluminum Coating	< 1mm // 0.04"	100%	Outer Wall	< 30cm // 11.8"	60%
Ceiling	< 30cm // 11.8"	70%	Plaster	< 10cm // 3.9"	10%
Furniture (non-wood)	< 30cm // 11.8"	40-60%	Pumice	< 30cm // 11.8"	10%
Glass (w/out metal coating)	< 5cm // 2.0	10%	Red Brick	< 30cm // 11.8"	35%
Inner Wall	< 30cm // 11.8"	40%	Stone	< 30cm // 11.8"	30%
Iron Reinforced Concrete	< 30cm // 11.8"	30-90%	Wood	< 30cm // 11.8"	40-60%

Z-Wave Range Worksheet

Feel free to use the below worksheet to give an estimate on where you can put your Z-Wave Switch relative to your HUB (or other Z-Wave repeater). Below is an example of how to use the sheet, using, "Example 1" from Page 2.
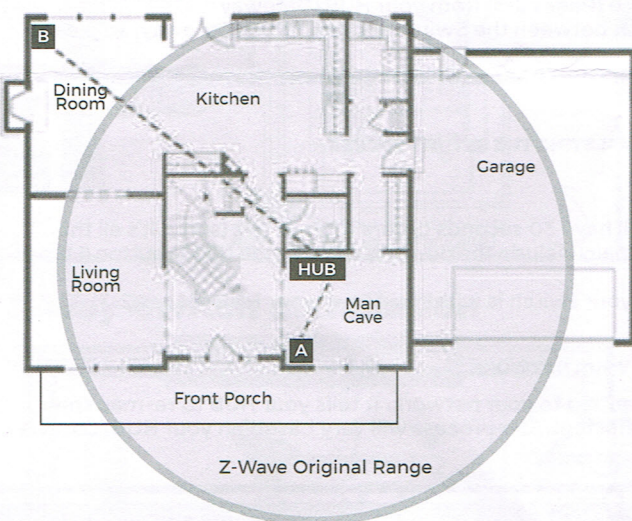
Example #1 -- Original Z-Wave Range

Based on the example chart to the right, you can see that, "Switch B" is out of range as the signal would only reach to about the dining room.

HUB	Your Z-Wave Enabled HUB
A	Inovelli Switch #1
B	Inovelli Switch #2

Starting Distance	Obstacle	Signal Depreciation	Ending Distance
100m // 328ft	Inner Wall	40%	60m // 197ft
60m // 197ft	Inner Wall	40%	36m // 118ft
36m // 118ft	Wood Stairs	60%	14m // 47ft
14m // 47ft	Inner Wall	40%	9m // 28ft
9m // 28ft	Wood Cabinet	50%	5m // 15ft
5m // 15ft	Wood Table & Chairs	60%	2m // 7ft

For the starting Distance, use 100m. Then look directly from your HUB to wherever you'd like to put the switch and see what obstacles are in the way. Then list those obstacles on the worksheet below (using the charts from Page 2).

Z-Wave Original Range

Starting Distance	Obstacle	Signal Depreciation	Ending Distance

Best Practices for Pairing your NZW30 (On/Off) In-Wall Switch

Now that you've read how to calculate the Z-Wave range and have determined the best location to put your switch, it's important to understand some best practices of how to pair this device. Below are a few things to keep in mind when you start your individualized pairing instructions (Pages 6-7).

1) Auto-Inclusion (ie: Network Wide Inclusion)

This switch is equipped with Auto-Inclusion. What that means is that as soon as you flip the power back on after installation. it will initiate its pairing/inclusion process and start sending signals to the HUB that it wants to be paired/included. You will have 30 seconds to start the inclusion process on your phone/computer before it times out. So, we suggest you start the inclusion process first, and when your HUB is actively looking for the signal, then turn the power back on. We will indicate this in your step by step instructions with a ⚡ icon, indicating you should turn your power back on. We realize this is not a lot of time (it's the maximum amount Z-Wave allowed us to do) so we've provided a backup solution as well (tap the UP(A) button 6 times).

2) Calculate the Maximum Distance From the Worksheet Above and Place Well Within That Distance

Please use the worksheet above to calculate your maximum distance. This will save us both the headache of offline devices. Remember to add all objects that could potentiall by in the way and it's our recommendation to be conservative with the distance numbers.

3) Run a Z-Wave Refresh After Successfully Pairing/Including and Your Plug is at its Final Location

When you have successfully paired/included your device and have moved it to its final location, it's important to run a "Z-Wave Refresh" on your network. In summary, your HUB/Gateway assigns a NodeID to every single Z-Wave device and catalogs those NodeID's into a table to access later when it's sending/receiving information from each. It catalogs where each NodeID is and what neighbors it has around it so that the trasmission signals are efficient. Running a, "Z-Wave Refresh" will tell the HUB to re-catalog the various devices (NodeID's) and update where each device is to, again, optimize the transmission path. NET: Run this when your device is in it's final location and wait 20 minutes for the path to optimize.

4) If You Run Into Any Issues, We're Here to Help... Seriously.

A lot of problems can be easily taken care of. Whether it's through troubleshooting or a replacement device, we're here to make sure you're setup for success. I know this is an art that has been lost over the years with online companies, but if you do a quick search on Amazon on our listing for, "Customer Service", you'll see many people who call it out. So, from the bottom of our hearts, we are here for you and want your house to be the smartest house on the block. Our email address is at the bottom of the page. We typically respond within an hour during the day as our phones are glued to us!

Wiring Instructions - A Few Quick Reminders

A quick note before we give out the wiring schematics. Please do not try installing this device if you are unsure of how electrical circuits operate within your home. As exciting as it is to have a smart switch installed, it can be dangerous and even life-threatening if you do not install this correctly. Please consult a qualified electrician if necessary. With that said, here are a few other warnings we'd like to point out for your safety:

⚠ CAUTION - PLEASE READ! ⚠

This device (NZW30) 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.

⚠ WARNING - SHOCK HAZARD ⚠

TURN OFF THE POWER to the circuit for the switch and lighting fixture at the service panel (circuit breaker) prior to installation.

ALL WIRING CONNECTIONS MUST BE MADE WITH THE POWER OFF to avoid personal injury and/or damage to the switch.

⚠ OTHER WARNINGS ⚠

Risk of Fire
Risk of Electrical Shock
Risk of Burns

⚠ MEDICAL EQUIPMENT ⚠

Please DO NOT use this switch to congrol Medical or Life Support equipment. Z-Wave devices should never be used to control the On/Off status of Medical and/or Life Support equipment.

Lastly, this switch is designed for use only with permanently installed features. The device controlled by this Z-Wave device must not exceed 600 Watts (Incandescent); 15 Amps, 1800W (Resistive); or 1/2 HP (Motor)

⚠ CONTROLLING APPLIANCES ⚠

Please exercise EXTREME CAUTION when using Z-Wave devices to control appliances. Reason being is because the appliance you want to control may be in a separate room and if unintentional behavior occurs (such as a device turning on or off - either intentionally via schedules, or unintentionally via network error) this event may lead to a hazardous condition. For these reasons, please note the following suggestions:

1) Do not include Z-Wave devices in Groups or Scenes if they control appliances.

2) Do not use Z-Wave devices to control electric heaters or any other appliances which may present a hazardous condition due to unattended, unintentional, or automatic power control

REMOVING SIDE TABS

Sometimes you may want to install multiple smart switches in a gangbox and to do that, you will have to remove the heat sink tabs (#'s 1-6).

Removing these tabs will have no effect on the performance of your On/Off switch.

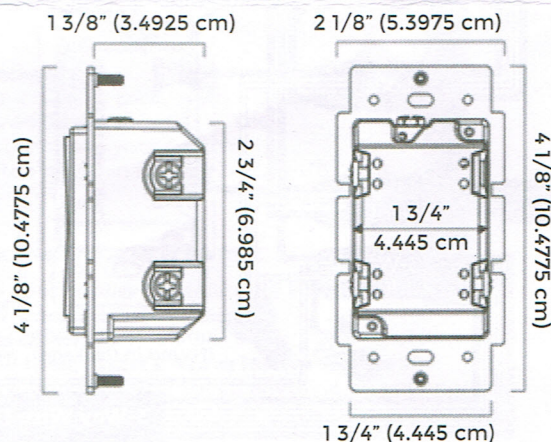**You can remove them with needle-nose pliers by wiggling back and forth on the score-line.**

If you're curious as to why they are there, it's because we make our Dimmer switches with the same mold and they act as heat sinks and will effect the maximum wattage. However, since this is an on/off switch it will not matter if they are taken off.
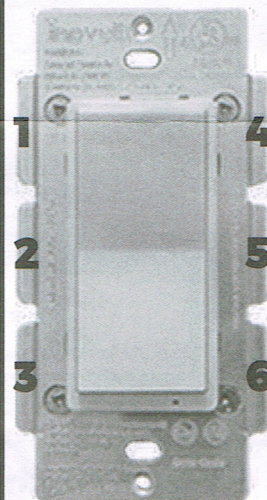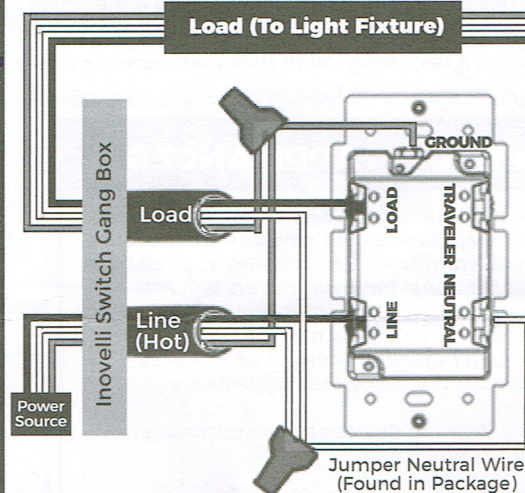
PLEASE READ | Pro-Tips Prior to Installation

Below are some helpful tips to read prior to installing our smart switch. Please read prior to moving onto the wiring schematics on Page 5.

1) **Please ensure there is enough room in the gangbox prior to installation.** Since this is a smart switch with advanced circuitry, the depth of the switch is much larger than a normal (non-smart) switch. To the right are the dimensions for reference.

2) Ensure the gangbox you're installing the switch to **HAS A NEUTRAL WIRE**. The switch will not work without one.

3) Please follow the wiring schematics exactly as written out. This may sound silly that we have to write this, but the Line must go where the Line insertion point/screw is located as with the Neutral and Load.

4) Consider upgrading your gangbox to a plastic gangbox if you are currently using a metal one. The Z-Wave signal can travel easier through plastic than it can metal.

1 3/8" (3.4925 cm)   2 1/8" (5.3975 cm)

4 1/8" (10.4775 cm)   2 3/4" (6.985 cm)

1 3/4" 4.445 cm

4 1/8" (10.4775 cm)

1 3/4" (4.445 cm)

Single Switch Installation

Load (To Light Fixture)

Inovelli Switch Gang Box

Load

Line (Hot)

Power Source

LOAD · TRAVELER · NEUTRAL · LINE

GROUND

Jumper Neutral Wire (Found in Package)

Key (Single Switch)

Line/Load (Usually Black)

Neutral (Usually White)

Ground (Usually Copper)

Wire Nut (Combines Wires)

Screw Terminals

There are two ways to install the wires.:
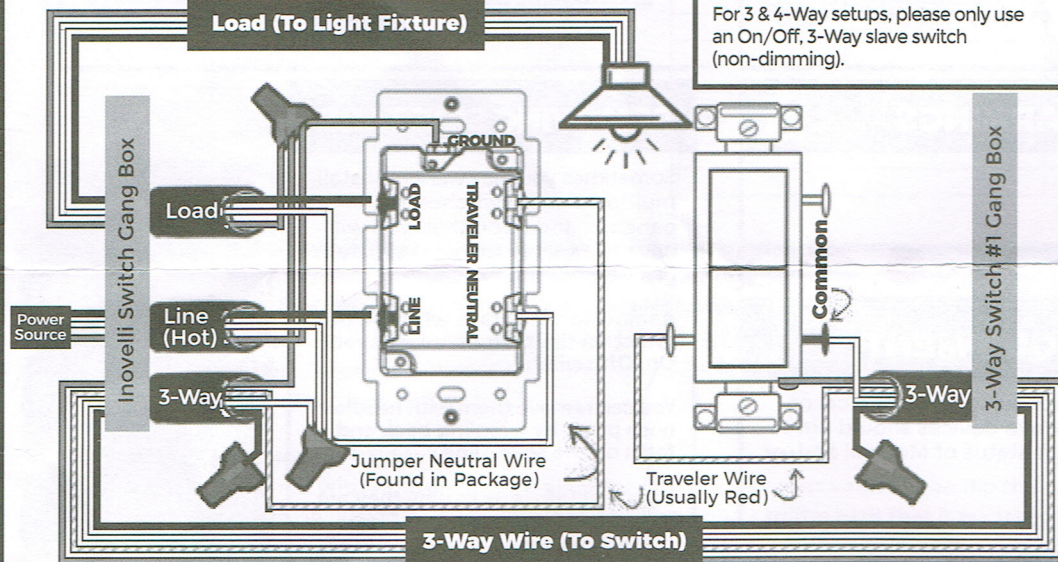1) Around the Screw
2) Into the Terminal (hole)

Strip the wire 1" for around the screw and 5/8" for the terminal.

When loosening the screw, **DO NOT unscrew it completely** and remember, **Counter-clockwise (Left) = Loosen Clockwise (right) = Tighten**

Pro-Tips

➤ Remember to turn off the power prior to installation and ensure all connections are made prior to turning the power back on. No need to be a hero!

➤ The Line wire is Hot. Please use a multimeter to locate it.

➤ Our smart switches will work with normal 3-Way switches. You do not need a special auxiliary switch.

➤ Our switches require a Neutral wire. Please do not try wiring without one.

➤ Please remember to Ground all connections.

➤ Remember to start the inclusion process prior to flipping the power back on (see specific HUB instructions for more info).
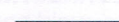
3-Way Switch Installation

Load (To Light Fixture)

Inovelli Switch Gang Box

Load

Line (Hot)

3-Way

Power Source

LOAD · TRAVELER · NEUTRAL · LINE

GROUND

Jumper Neutral Wire (Found in Package)

Traveler Wire (Usually Red)

Common

3-Way

3-Way Switch #1 Gang Box

3-Way Wire (To Switch)

IMPORTANT! Please Read.

For 3 & 4-Way setups, please only use an On/Off, 3-Way slave switch (non-dimming).

Key (3 and 4-Way)

Line/Load (Usually Black)

Neutral (Usually White)

Traveler (Usually Red)

Ground (Usually Copper)

Wire Nut (Combines Wires)

Common Screw (Terminal for Common)

Traveler Screw (Terminal for Traveler)

Please Note: Line and Load must be in the same box for this schematic to work. If yours is not, please reach out for a custom schematic.

4-Way Switch Installation

Load (To Light Fixture)

Inovelli Switch Gang Box

Load

Line (Hot)

3-Way #1

Power Source

LOAD · TRAVELER · NEUTRAL · LINE

GROUND

Jumper Neutral Wire (Found in Package)

Please ensure these are 3-way switches. 4-way switches will not work.

3-Way Wire (To Switch #2)

3-Way #2

Common

3-Way #1

3-Way Switch #1 Gang Box

3-Way Switch #2 Gang Box

3-Way #2

Common

3-Way Wire (To Switch #1)
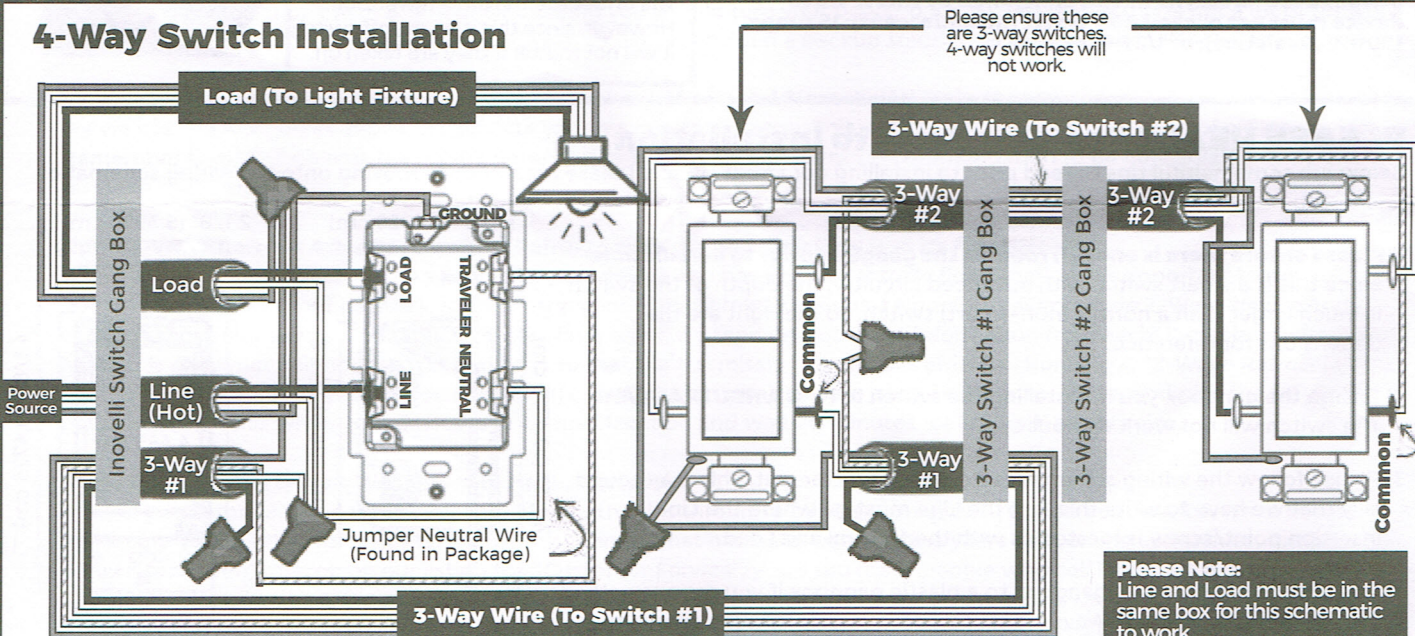
Please Note: Line and Load must be in the same box for this schematic to work.

General HUB/Gateway Quick Setup

Remember, <u>DO NOT</u> turn on your power until you see this icon ⚡

The below instructions will allow you to pair/include your NZW30 with any Z-Wave enabled HUB.

** IMPORTANT: If you are having issues pairing/including your device, please ensure your switch is within range of your HUB (pages 2-3). 95% of the pairing/including failures stem from this issue. Best practice is to start with Z-Wave products near your HUB and build your network out. The more Z-Wave devices, the more efficient your network. **

◄ STEPS 1 & 2 ►
GATHER YOUR MATERIALS, FIND AN APPROPRIATE LOCATION, AND INSTALL YOUR SWITCH

➤ Materials Needed: Gangbox with Neutral, Line & Load Wires, Cell Phone/Tablet/Computer, and a Z-Wave enabled HUB/Gateway
➤ Locate an area to install your switch within the recommended distance (Pages 2-3) from your HUB/Gateway
➤ Walls, furniture, and other obstructions may affect the communication between the Switch and your HUB/Gateway, so please keep this in mind
➤ Follow the recommended wiring instructions on page 5 -- **REMEMBER: TURN OFF ELECTRICITY BEFORE INSTALLATION!**

◄ STEP 3 ►
ADDING (INCLUDING) TO THE NETWORK & COMPLETING THE SETUP PROCESS

➤ Now that you're switch is installed, we'll start the inclusion process
   ➤Start the Inclusion process on your HUB/Gateway
⚡ ➤Turn the power back on and auto-inclusion will activate. You will have 30 seconds before it times out (sorry, it's all the time Z-Wave allows). If it does time out, the backup method to pair/include the device is to press the UP (A) button 6 times within 2 seconds
➤ **AGAIN:** If you have issues with including, please check to make sure your switch is within range of your HUB (pages 2-3)

◄ STEP 4 ►
START A Z-WAVE REFRESH ON YOUR NETWORK

➤ This step is highly recommended whenever a new Z-Wave device is added to your network. It tells your HUB to re-map the network which, ultimately, will make your network faster and more efficient. The process will vary based on your HUB/Gateway, so please check with the manufacturer to determine how to do this.

SmartThings Quick Setup

Remember, <u>DO NOT</u> turn on your power until you see this icon ⚡

The below instructions will allow you to pair/include your NZW30 with your SmartThings HUB. Remember, <u>for the most up to date instructions, please visit our website as occasionally SmartThings updates their app</u>.

** IMPORTANT: If you are having issues pairing/including your device, please ensure your switch is within range of your HUB (pages 2-3). 95% of the pairing/including failures stem from this issue. Best practice is to start with Z-Wave products near your HUB and build your network out. The more Z-Wave devices, the more efficient your network. **

◄ STEPS 1 & 2 ►
GATHER YOUR MATERIALS, FIND AN APPROPRIATE OUTLET, AND PLUG IN LAMPS OR APPLIANCES

➤ Materials Needed: Gangbox with Neutral, Line & Load Wires, Cell Phone/Tablet/Computer, and a Z-Wave enabled HUB/Gateway
➤ Locate an area to install your switch within the recommended distance (Pages 2-3) from your HUB/Gateway
➤ Walls, furniture, and other obstructions may affect the communication between the Switch and your HUB/Gateway, so please keep this in mind
➤ Follow the recommended wiring instructions on page 5 -- **REMEMBER: TURN OFF ELECTRICITY BEFORE INSTALLATION!**

◄ STEP 3 ►
ADDING (INCLUDING) TO THE NETWORK & COMPLETING THE SETUP PROCESS

➤ Now that you're switch is installed, we'll start the inclusion process
   ➤Open up your SmartThings app and click on the, "**My Home**" tab followed by the, "**Things**" tab
   ➤Scroll to the bottom and click on, "**Add a Thing**"
⚡ ➤Turn the power back on and auto-inclusion will activate. You will have 30 seconds before it times out (sorry, it's all the time Z-Wave allows). If it does time out, the backup method to pair/include the device is to press the UP (A) button 6 times within 2 seconds.
   ➤You should now see that your device is detected (it should say, "**Z-Wave Switch**")
   ➤After your device is detected, press, "**Save**" (or if you'd like to rename your device, please do so and click, "**Save**")
   ➤Once you click, "**Save**" a pop-up will appear asking you to, "**Confirm Paired Devices**" -- Click, "**OK**"
   ➤Now, you should be back at the, "**My Home**" screen and you should be able to see your switch!
➤ **AGAIN:** If you have issues with including, please check to make sure your switch is within range of your HUB (pages 2-3)

◄ STEP 4 ►
RUN A Z-WAVE REFRESH TO UPDATE YOUR MESH NETWORK WITH YOUR NEW SWITCH

➤ This step is highly recommended whenever a new Z-Wave device is added to your network. It tells your HUB to re-map the network which, ultimately, will make your network faster and more efficient.
   ➤In the SmartThings app, click on the, "**Menu**" button, followed by, "**Hub is Online**"
   ➤Then click, "**Z-Wave Utilities**" followed by, "**Repair Z-Wave Network**" and then, "**Start Z-Wave Network Repair**"
   ➤Wait 20 minutes for your SmartThings HUB to re-map (rediscover) the network (DO NOT touch anything on your network).
   ➤Congratulations! You now have a smart switch!

Vera™ Quick Setup

Remember, <u>DO NOT</u> turn on your power until you see this icon ⚡

The below instructions will allow you to pair/include your NZW30 with your Vera™ system. Remember, <u>for the most up to date instructions, please visit our website, as occasionally Vera™ updates their web app.</u>

** IMPORTANT: If you are having issues pairing/including your device, please ensure your switch is within range of your HUB (pages 2-3). 95% of the pairing/including failures stem from this issue. Best practice is to start with Z-Wave products near your HUB and build your network out. However, please make sure the device is within your estimated range (page 2-3) **

◄ STEPS 1 & 2 ►
GATHER YOUR MATERIALS, FIND AN APPROPRIATE OUTLET, AND PLUG IN LAMPS OR APPLIANCES

➤ Materials Needed: Gangbox with Neutral, Line & Load Wires, Cell Phone/Tablet/Computer, and a Z-Wave enabled HUB/Gateway
➤ Locate an area to install your switch within the recommended distance (Pages 2-3) from your HUB/Gateway
➤ Walls, furniture, and other obstructions may affect the communication between the Switch and your HUB/Gateway, so please keep this in mind
➤ Follow the recommended wiring instructions on page 5 -- **REMEMBER: TURN OFF ELECTRICITY BEFORE INSTALLATION!**

◄ STEP 3 ►
ADDING (INCLUDING) TO THE NETWORK & COMPLETING THE SETUP PROCESS

➤ Now that you're switch is installed, we'll start the inclusion process
  ➤ On the main screen, click on the, "**Devices**" tab and click, "**Add Device**" -- Scroll down to the bottom and click, "**Generic Z-Wave Device**"
  ➤ Under the, "**Pair Your Device**" click, "**Next**" until your HUB goes into inclusion mode
  ⚡ ➤ Turn the power back on and auto-inclusion will activate. You will have 30 seconds before it times out (sorry, it's all the time Z-Wave allows). If it does time out, the backup method to pair/include the device is to press the UP (A) button 6 times within 2 seconds
  If successful, you will see a new screen pop up and there will be a notification that says, "**Device Detected**" -- go ahead and name your device
  Select a room (Optional) and hit, "**Finish**" -- then wait for the device to appear -- you're all set!
➤ **AGAIN:** If you have issues with including, please check to make sure your switch is within range of your HUB (pages 2-3)

Wink Quick Setup

Remember, <u>DO NOT</u> turn on your power until you see this icon ⚡

The below instructions will allow you to pair/include your NZW30 with your Wink HUB. Remember, <u>for the most up to date instructions, please visit our website as occasionally Wink updates their app.</u>

** IMPORTANT: If you are having issues pairing/including your device, please ensure your switch is within range of your HUB (pages 2-3). 95% of the pairing/including failures stem from this issue. Best practice is to start with Z-Wave products near your HUB and build your network out. However, please make sure the device is within your estimated range (page 2-3) **

◄ STEPS 1 & 2 ►
GATHER YOUR MATERIALS, FIND AN APPROPRIATE OUTLET, AND PLUG IN LAMPS OR APPLIANCES

➤ Materials Needed: Gangbox with Neutral, Line & Load Wires, Cell Phone/Tablet/Computer, and a Z-Wave enabled HUB/Gateway
➤ Locate an area to install your switch within the recommended distance (Pages 2-3) from your HUB/Gateway
➤ Walls, furniture, and other obstructions may affect the communication between the Switch and your HUB/Gateway, so please keep this in mind
➤ Follow the recommended wiring instructions on page 5 -- **REMEMBER: TURN OFF ELECTRICITY BEFORE INSTALLATION!**

◄ STEP 3 ►
ADDING (INCLUDING) TO THE NETWORK & COMPLETING THE SETUP PROCESS

➤ Now that you're switch is installed, we'll start the inclusion process
  ➤ Open your Wink app, click on the menu, scroll to the bottom and click on, "**Add to Wink**"
  ➤ Next select, "**Lighting**" followed by, "**Switches**" and finally, "**Generic Z-Wave Binary Switch**"
  ➤ Then click, "Next" (where it says, "**Refer to the product manual...**")
  ➤ On the, "**Select HUB**" screen, select your HUB of choice, followed by, "**Next**" -- then click, "**Next**" again, followed by, "**Connect Now**" & your HUB will start flashing BLUE
  ⚡ ➤ Turn the power back on and auto-inclusion will activate. You will have 30 seconds before it times out (sorry, it's all the time Z-Wave allows). If it does time out, the backup method to pair/include the device is to press the UP (A) button 6 times within 2 seconds. If successful, your HUB will flash GREEN & say, "Success" -- Go ahead and name your switch
➤ **IMPORTANT:** Sometimes Wink will give you the error, "This is taking longer than expected" -- if your HUB flashed GREEN, exit out of the app and re-open it. You should see your switch there (named, "Switch") -- feel free to rename it by holding down on it for 3 seconds
➤ **AGAIN:** If you have issues with including, please check to make sure your switch is within range of your HUB (pages 2-3)

◄ STEP 4 ►
RUN A Z-WAVE REFRESH TO UPDATE YOUR MESH NETWORK WITH YOUR NEW SWITCH

➤ This step is highly recommended whenever a new Z-Wave device is added to your network. It tells your HUB to re-map the network which, ultimately, will make your network faster and more efficient.
  ➤ **Make sure your plug is in its final location before running the Z-Wave Refresh.**
  ➤ In the Wink app, click on the, "**Menu**" button, followed by, "**Hubs**" and then, settings (gear icon)
  ➤ From the settings menu, click on the actual HUB you paired your device to
  ➤ Scroll down and select, "**Z-Wave Controls**" and then press, "**Z-Wave Network Rediscovery**"
  ➤ Wait 20 minutes for your Wink HUB to re-map (rediscover) the network (DO NOT touch anything on your network).
  ➤ Congratulations! You now have a smart switch!

Federal Communications Commission (FCC) Statement

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 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 licence-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 re.ues, notamment cellessusceptibles d'en perturber le fonctionnement.

Warranty, Specifications & Warnings

Warranty: Inovelli will replace any defective unit for the lifetime of the unit, pending the unit was used in the manner it was intended to. Please email us at: contact@inovelli.com to receive a pre-paid shipping label for the return of your defective unit.

Specifications:
Model: ZW30
Power: 120V AC, 60Hz
Signal (Frequency): 908.42 MHz
Maximum Load: 600W Incandescent, 1/2 HP Motor or 1800W (15A) Resistive
Range: Up to 100 meters line of sight between the Wireless Controller (HUB) and the closest Z-Wave Module
Operating Temperature Range: 32-104° F (0-40° C)
For indoor use.
Specifications subject to change without notice due to continuing product improvement
Approval: UL/FCC/IC/NCC/Z-Wave Plus Certified
  UL: E464831
  FCC ID: OXGZW31

Warning:
RISK OF FIRE
RISK OF ELECTRICAL SHOCK
RISK OF BURNS
CONTROLLING APPLIANCES: EXERCISE EXTREME CAUTION WHEN USING Z-WAVE DEVICES TO CONTROL APPLIANCES. OPERATION OF THE Z-WAVE DEVICE MAY BE IN A DIFFERENT ROOM THAN THE CONTROLLED APPLIANCE, ALSO AN UNINTENTIONAL ACTIVATION MAY OCCUR IF THE WRONG BUTTON ON THE REMOTE IS PRESSED. Z-WAVE DEVICES MAY AUTOMATICALLY BE POWERED ON DUE TO TIMED EVENT PROGRAMMING. DEPENDING UPON THE APPLIANCE, THESE UNATTENDED OR UNINTENTIONAL OPERATIONS COULD POSSIBLY RESULT IN A HAZARDOUS CONDITION. FOR THESE REASONS, WE RECOMMEND YOU DO NOT RETURN THIS PRODUCT TO THE STORE, BUT RATHER CONTACT THE MANUFACTURER OF THE PRODUCT TO ARRANGE AN EXCHANGE OR REFUND IF THE PRODUCT IS DEEMED DEFECTIVE

Resetting Your Device
Please use a certified controller to remove the device from your network to factory default. Or, to manually remove your device, hold down the button (B) for 5 seconds (after shutting power off and turning it back on). Only use this procedure only in the event that the network primary controller is missing or otherwise inoperable. If your HUB is within range and you'd like to remove the device, please put your HUB in exclusion mode and tap the down button (B) six (6) times within 2 seconds.

Command Class Information

Generic Device Class	GENERIC_TYPE_SWITCH_BINARY
Specific Device Class	SPECIFIC_TYPE_POWER_SWITCH_BINARY
Command Classes	85 - COMMAND_CLASS_ASSOCIATION
	59 - COMMAND_CLASS_ASSOCIATION_GRP_INFO
	71 - COMMAND_CLASS_APPLICATION_STATUS
	70 - COMMAND_CLASS_CONFIGURATION
	5A - COMMAND_CLASS_DEVICE_RESET_LOCALLY
	7A - COMMAND_CLASS_FIRMWARE_UPDATE_MD
	72 - COMMAND_CLASS_MANUFACTURER_SPECIFIC
	8E - COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION
	73 - COMMAND_CLASS_POWERLEVEL
	75 - COMMAND_CLASS_PROTECTION_V2
	98 - COMMAND_CLASS_SECURITY
	6C - COMMAND_CLASS_SUPERVISION
	27 - COMMAND_CLASS_SWITCH_ALL
	25 - COMMAND_CLASS_SWITCH_BINARY
	55 - COMMAND_CLASS_TRANSPORT_SERVICE
	86 - COMMAND_CLASS_VERSION
	5E - COMMAND_CLASS_ZWAVEPLUS_INFO

*The association group supports five nodes and lifeline function

Parameter Settings

LED Indicator | Default = Switch On / LED Off
-- Parameter = 3, size = 1 byte, value = 00 (Switch On / LED Off)
-- Parameter = 3, size = 1 byte, value = 01 (Switch On / LED On)
-- Parameter = 3, size = 1 byte, value = 02 (LED Disabled)

Invert | Default = Top/On, Bottom/Off
-- Parameter = 4, size = 1 byte, value = 00, Up = On, Down = Off
-- Parameter = 4, size = 1 byte, value = 01, Up = Off, Down = On

Countdown | Default = No Timer
-- Parameter = 5, size = 2 byte, value = xx xx
-- Value = 00 (default) = No Timer
-- (0x00---x8000) (range = 0-32768 Seconds)

Special Settings

Tap 10x on Button (A) = Change LED Status
Tap 10x on Button (B) = Invert Switch