



SQR50101**Z Z-Wave™ Plus Auxiliary Switch

** = color code: WH (white), LA (light almond), BK (black), GY (gray)

Features

- Wireless Z-Wave technology creates a mesh network for command and control interoperability with other Z-Wave compliant controllers and devices.
- Work with other Z-Wave switch or dimmer devices for 3-way (multi-location) control, provide manual and remote control.
- The 3-way control can be achieved through below 2 methods.
 - o Association group control or
 - o Central scene control
- Configurable child lockout feature which disables the manual control.

NOTE:

- This auxiliary switch is only a wireless controller, it cannot be used by itself for single-pole control.

Specification of SQR50101**Z Z-Wave Plus Auxiliary Switch	
Voltage	120 Vac, 60 Hz
Operating temperature	32–104°F (0–40°C)
Wireless type	Z-Wave (Support S2 and SmartStart)
Wireless frequency	908.40 MHz / 908.42 MHz / 916 MHz

¹ Suitable for at least 90°C.

Precautions

⚠ CAUTION
HAZARD OF UNINTENDED USE This device is intended to be used for non-critical automation activities. It is not intended to support life, safety, or medical equipment. Failure to follow these instructions can result in personal injury or equipment damage.

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E, NOM-029-STPS or CSA Z462 or local equivalent.
- This equipment must only be installed and serviced by qualified electrical personnel.
- Turn off all power supplying this equipment before working on or inside equipment.
- Always use a properly rated voltage sensing device to confirm power is off.
- Use with copper wire only.
- Indoor use only.
- Replace all devices, doors, and covers before turning on power to this equipment.

Failure to follow these instructions will result in death or serious injury.

⚠ WARNING

HAZARD OF HEAT AND FIRE DAMAGE

Read all instructions before installation. The manufacturer will not be held responsible for product damage resulting from not following the instructions.

- Wet hands are strictly prohibited.
- Do not continue working after self-disassembly of any nature and damage of external forces.

Failure to follow these instructions can result in death, injury or equipment damage.

⚠ WARNING: This product can expose you to chemicals including Carbon black, which is known to the State of California to cause cancer, and Bisphenol A (BPA), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Notice

Wireless Range Conditions

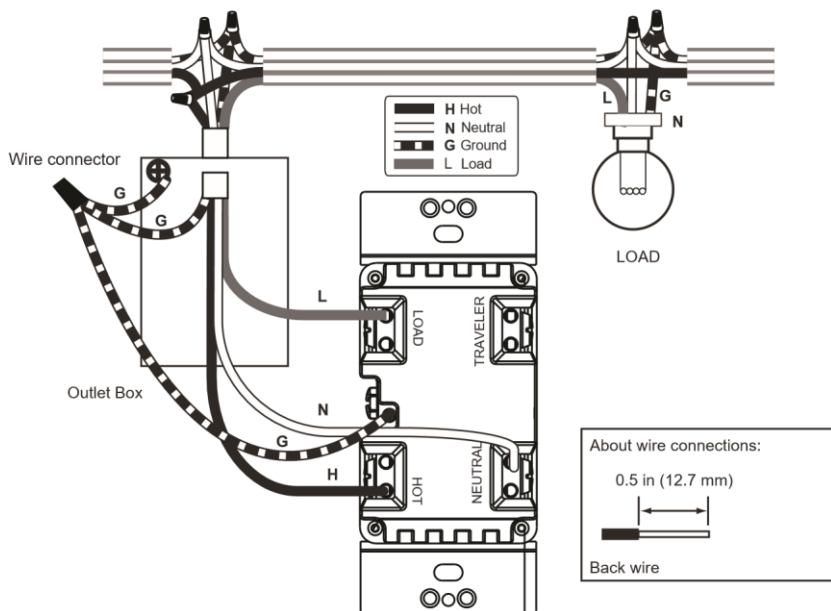
The wireless range is the effective distance of remote control and it will be impacted by the following conditions:

- Each wall or obstacle (e.g., refrigerator, TV, etc.) between the remote or Z-Wave device and the destination device will reduce the wireless range.
 - Brick, tile, or concrete walls block more of the wireless signal than walls made of wooden studs and plasterboard (drywall).
 - The angle of direction between the remote or Z-Wave device and the destination device will also impact the wireless range; normally, placing the Z-Wave devices face-to-face will get the best wireless range.
 - Wall-mounted Z-Wave devices installed in metal junction boxes may suffer a significant loss of range since the metal box blocks a large part of the wireless signal.
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Installation

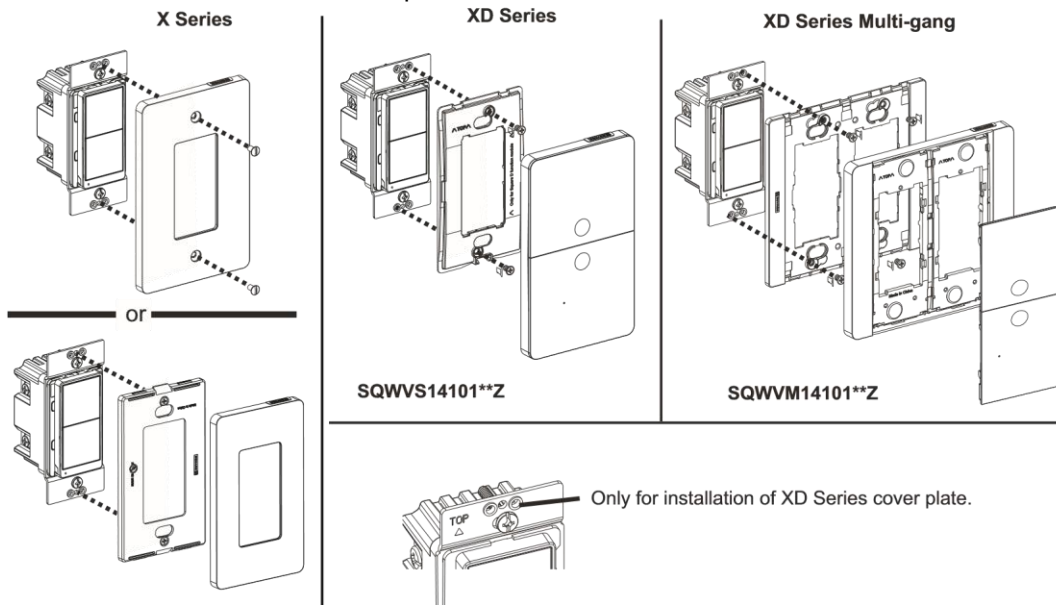
1. Turn the power OFF at circuit breaker or fuse and test that power is off before wiring.
2. Wire the device according to the wiring diagram.
3. Check that all connections are tight and no bare wires exposed.
4. Install the device into the standard outlet box using the screws provided.

Z-Wave Switch SQR14101**W Single Pole Wiring Diagram



(update the wiring diagram for aux switch)

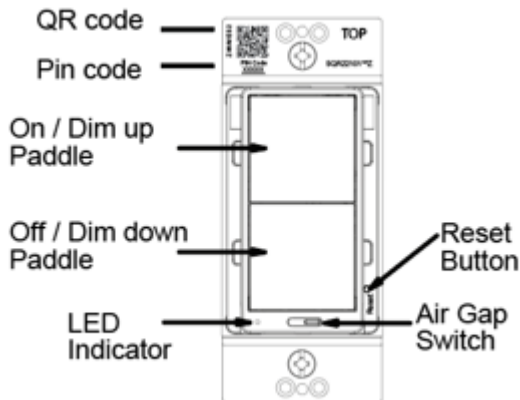
5. Install the plate (not included).
6. Restore power.



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Operation

The auxiliary switch can only control other Z-Wave devices after it is added into a Z-Wave network.



(update the drawing: removing air gap switch)

1. Inclusion to a Z-Wave network:

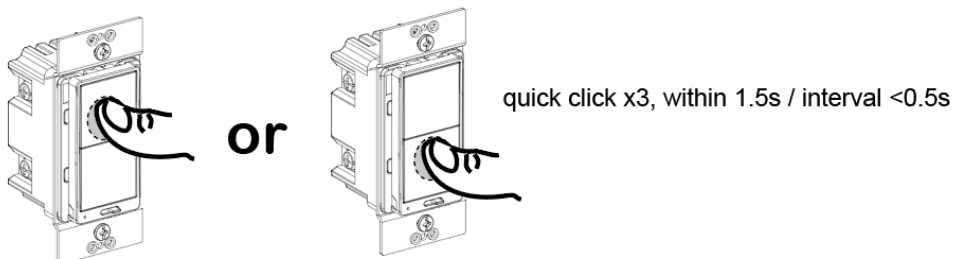
NOTE: The device supports up to S2-authenticated inclusion method, based on the gateway’s feature. It is highly recommended to only select S2-authenticated or the highest inclusion method, and deselect other methods. This ensures the highest security level during Z-Wave service. During S2-authenticated inclusion, users may be asked to scan the QR code or enter a 5-digit pin code attached on the device.

- A. SmartStart inclusion: The feature assumes the gateway has implemented SmartStart. Users could use the APP of the gateway or the gateway camera to scan the QR code on device or on device package before powering on the device, and then when the device is powered on, it shall be automatically added to the gateway.
- B. Manual inclusion: When the gateway is in adding mode (please refer to the instruction of the Z-Wave gateway for the operations on gateway itself), quick click the upper paddle or lower paddle 3 times within 1.5 seconds.

2. Exclusion from a Z-Wave network:

When the gateway is in removing mode (please refer to the instruction of the Z-Wave gateway for the operations on gateway itself), quick click the upper paddle or lower paddle 3 times within 1.5 seconds.

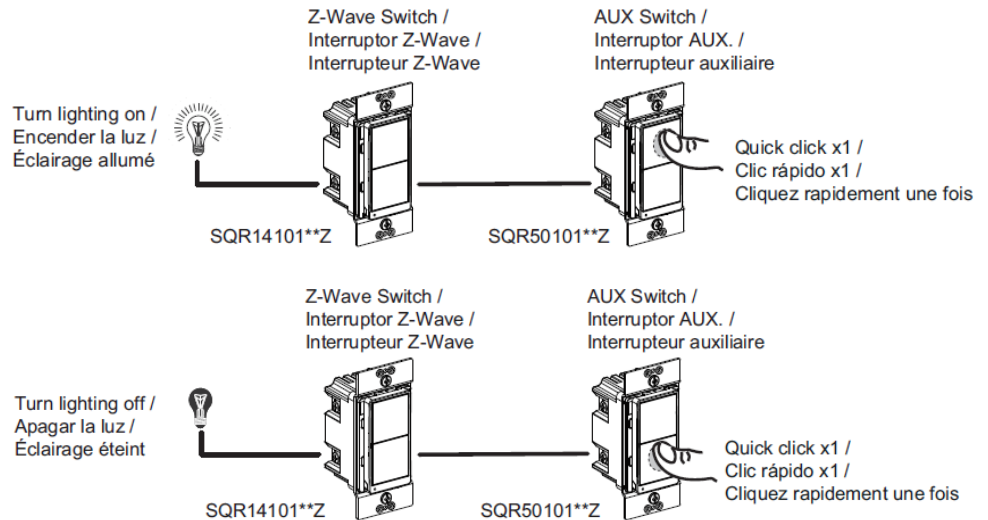
Join or leave the Z-Wave network



3. Group control the nodes of association group 2:

One short tap on upper paddle: turn on the grouped Z-Wave switch / dimmer devices

One short tap on lower paddle: turn off the grouped Z-Wave switch / dimmer devices



(change the wire between two devices be Z-Wave pictograph)

(replace the Z-Wave switch drawing with a symbol, and remove the CR No.)

NOTE:

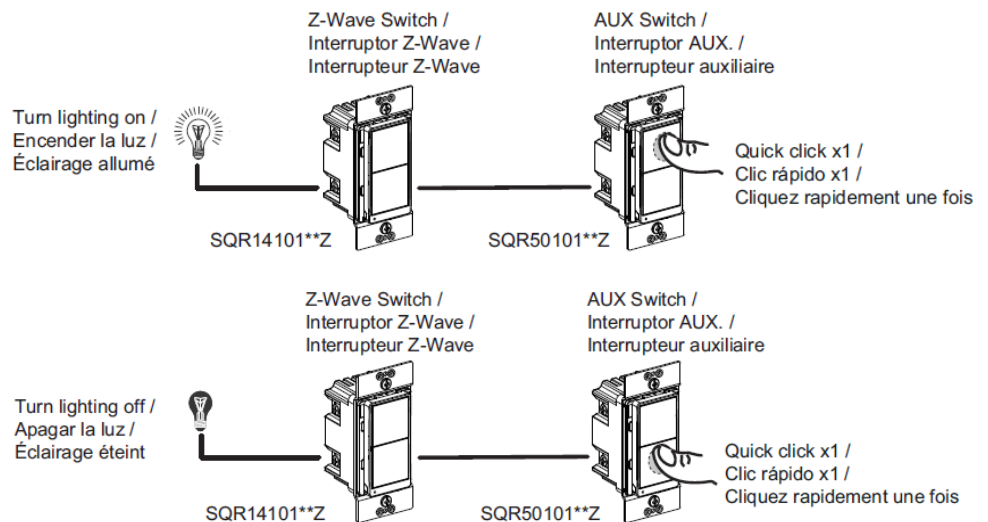
- Please refer to association setting for nodes group 2 setup. This requires a gateway with advanced features and assumes the device is included in a network.

4. Group control the nodes of association group 3:

On/Off control:

One short tap on upper paddle: turn on the grouped Z-Wave dimmer devices

One short tap on lower paddle: turn off the grouped Z-Wave dimmer devices

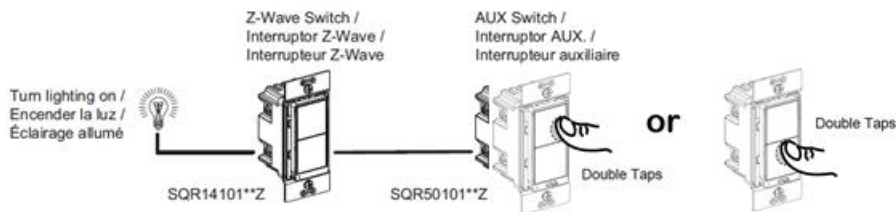


(change the wire between two devices be Z-Wave pictograph)

(replace the Z-Wave switch drawing with a dimmer symbol, and remove the CR No.)

Quick to full brightness:

Double taps on any paddle: turn on the lighting to full brightness connected to the grouped Z-Wave dimmers.

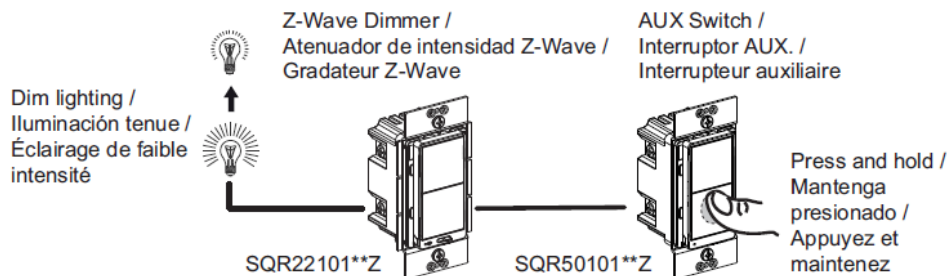
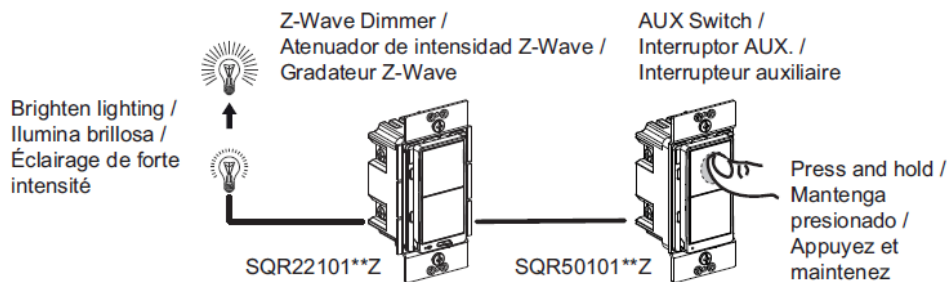


(change the wire between two devices be Z-Wave pictograph)

(replace the Z-Wave switch drawing with a symbol, and remove the CR No.)

Dimming control:

- Long press on upper paddle: dim up the lighting connected to the grouped dimmers
- Long press on lower paddle: dim down the lighting connected to the grouped dimmers



(change the wire between two devices be Z-Wave pictograph)

(replace the Z-Wave switch drawing with a dimmer symbol, and remove the CR No.)

NOTE:

- Please refer to association setting for nodes group 2 setup. This requires a gateway with advanced features and assumes the device is included in a network.
- Suggest group dimmer devices in group 3 for 3-way dimming control, group 2 can only support on/off control

5. Scene Control

Quick click N (N=1~5) times on each paddle to trigger different scenes settled in the gateway.

(Add drawing)

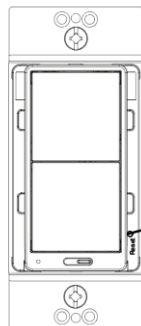
NOTE:

- The time interval between every click shall be less than 0.5s;
- Please refer to central scene setting for scenes setup. This requires a gateway with advanced features and assumes the device is included in a network.

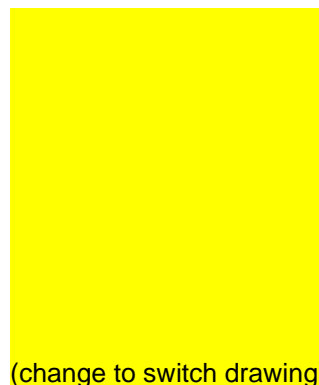
6. Reset to factory defaults:

Long press the reset button for >20 seconds till the blue LED blink 5 times within one second.

Reset to factory defaults



Long Press >20s
Reset button



NOTE:

- Use this procedure only when the Z-Wave gateway is missing or otherwise inoperable.
- Reset the device to factory default settings will set the device to not in Z-Wave network state, delete the association setting and restore the configuration setting to the default.

Advanced Setting

The advanced setting requires an advanced gateway. Basic gateway does not support this setting. Users can do the setting through the interface of the advanced gateway.

All configuration parameters can be restored to factory default settings by the gateway or by manual reset.

Configuration					
Parameter No.	Size	Description	Valid Value	Default Value	Unit
1	1 byte	Child Lockout	0= Disable 1= Enable	0	N/A

Association		
Grouping ID	Max. No. of Nodes	Description
1	5	1. Binary Report 2. Meter Report 3. Device Reset Locally.
2	5	Basic Set
3	5	SWITCH_MULTILEVEL_SET SWITCH_MULTILEVEL_START_LEVEL_CHANGE

		SWITCH_MULTILEVEL_STOP_LEVEL_CHANGE
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Central Scene Capacity		
Actions		Report Content
Upper paddle	1x tap	keyAttributes: 0, sceneNumber: 1
	2x taps	keyAttributes: 3, sceneNumber: 1
	3x taps	keyAttributes: 4, sceneNumber: 1
	4x taps	keyAttributes: 5, sceneNumber: 1
	5x taps	keyAttributes: 6, sceneNumber: 1
Lower paddle	1x tap	keyAttributes: 0, sceneNumber: 2
	2x taps	keyAttributes: 3, sceneNumber: 2
	3x taps	keyAttributes: 4, sceneNumber: 2
	4x taps	keyAttributes: 5, sceneNumber: 2
	5x taps	keyAttributes: 6, sceneNumber: 2

LED Indication

Blue LED flashing	LED blinks slowly (once per 3 seconds) for 3 minutes: device not in network LED stays on for 1 minute: device in the network
	LED blinks once per second: adding/leaving network LED blinks 3 times within one second: signal for releasing the reset button LED blinks 4 times within 2 seconds: start to perform reset process LED blinks quickly (twice per second) for 5 seconds: device receive OTA command or OTA fail
Blue LED on	The paddle is pressed
Blue LED off	The paddle is released

Trouble Shooting

Issue	Solution
SmartStart inclusion taking too long	Power cycle the device to escalate the inclusion.
Inclusion is unsuccessful	Move the gateway closer to the device and repeat the inclusion operation.

FCC Compliance Statement

Federal Communication Commission Interference Statement

The 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 uses, generates and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communication. 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.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

RF Exposure: A distance of 20 cm shall be maintained between the antenna and users, and the transmitter module may not be co-located with any other transmitter or antenna.

Non-modification Statement:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FCC Supplier's Declaration of Conformity

Product Name: Z-Wave Plus Switch

Model Number: SQR50101WHZ, SQR50101LAZ, SQR50101BKZ

Suppliers Name: Schneider Electric

Suppliers Address (USA): 800 Federal Street Andover, MA 01810 USA

Suppliers Website: www.se.com/us

FCC Compliance Statement

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.

ISED Statement

This Class [B] digital apparatus complies with Canadian CAN ICES-003(B)/NMB-003(B)..

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil numérique de la classe [B] est conforme à la norme NMB-003(B)/NMB-003(B) du Canada.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with ISED RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.

Pour se conformer aux exigences de conformité CNR 102 RF exposition, une distance de séparation d'au moins 20 cm doit être maintenue entre l'antenne de cet appareil et toutes les personnes.

Model number: SQR50101WHZ, SQR50101LAZ, SQR50101BKZ

Warranty Information

Schneider Electric warrants its products to be free of defects in materials and workmanship for a period of two (2) years. There are no obligations or liabilities on the part of Schneider Electric for consequential damages arising out of or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation, or reinstallation.