

#43132

# Smart Outlet

## Installation Instructions



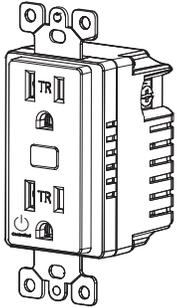
INSTALLERS: Please leave this manual with the owner.



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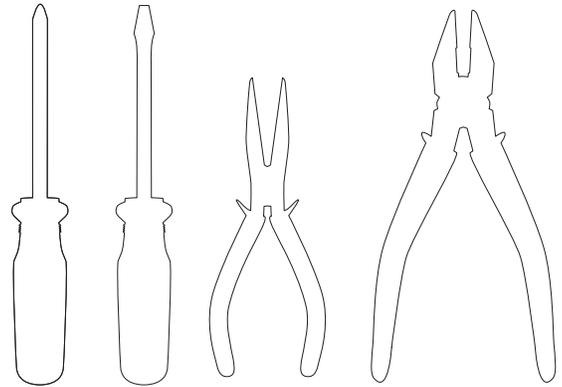
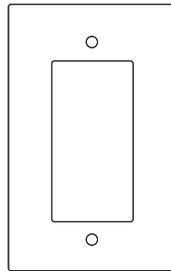
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## Parts in the Box



Smart Outlet (Trim plate not included),  
Screws (2), Installation Instructions .

## Additional Tools and Parts needed.

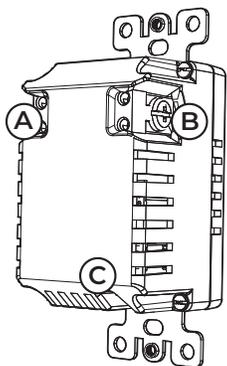


**Note:** Smart Outlet is an AC device and the following instructions are intended for licensed electricians only.

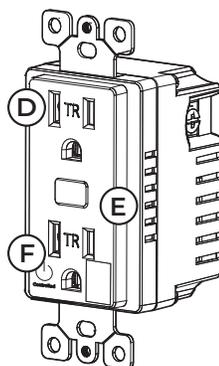
**Note:** The device plugged into the Zigbee-controlled smart outlet on this module must not exceed 1000W incandescent, 1/2HP motor, 1800W (15A) resistive or 3.75A LED/CFL. The total maximum rating for both outlets combined is 1800W (15A) resistive load.

## Getting to know your new Zigbee device

1. One Zigbee remote-controlled outlet.
2. One always-ON outlet.
3. Remote ON/OFF control via the Zigbee controller/network.
4. Manual ON/OFF control with the manual/program button.
5. Blue LED indicates outlet location in a dark room.



- A. Line (Hot) (Black)
- B. Neutral (White)
- C. Ground (Green/Bare)



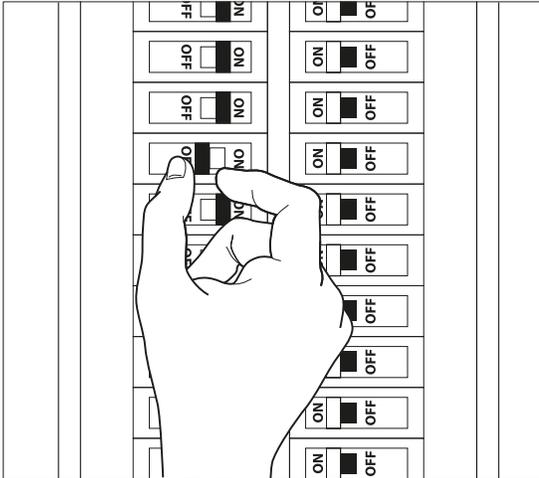
- D. Always-on outlet
- E. Manual/program button
- F. Zigbee-controlled outlet

**Note:** Turn OFF the power to the branch circuit for the outlet at the service panel. All wiring connections must be made with the POWER OFF to avoid personal injury and/or damage to the outlet.

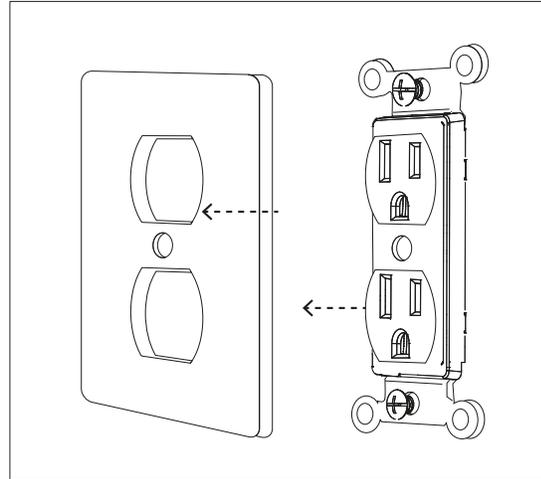
**Note: Smart Outlet is an AC device and the following instructions are intended for licensed electricians only.**

## Wiring Installation instructions

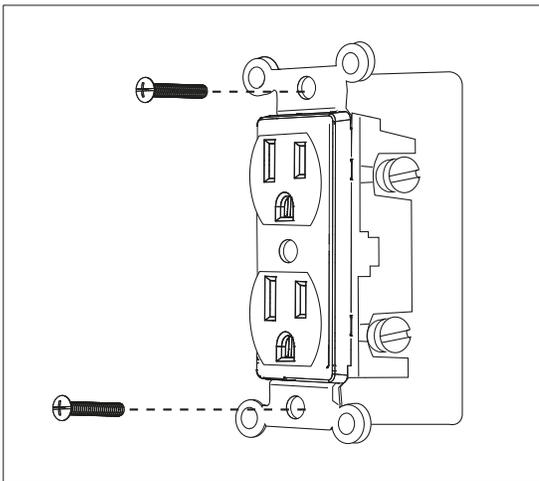
1. Shut off power to the circuit at circuit breaker or fuse box. **IMPORTANT! Verify power is OFF to switch box before continuing.**



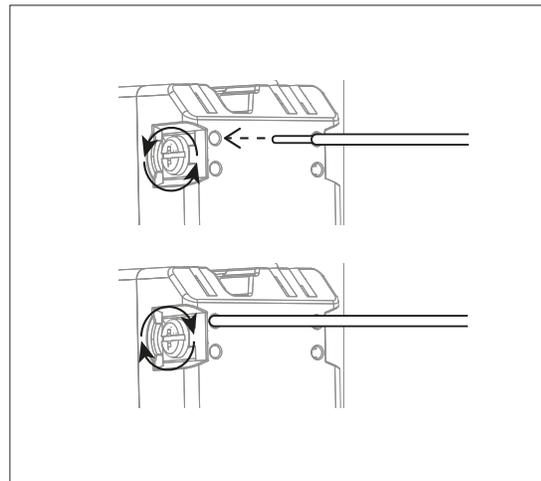
2. Remove the wall plate.



3. Remove the outlet mounting screws.



4. Carefully remove the outlet from the wall box.



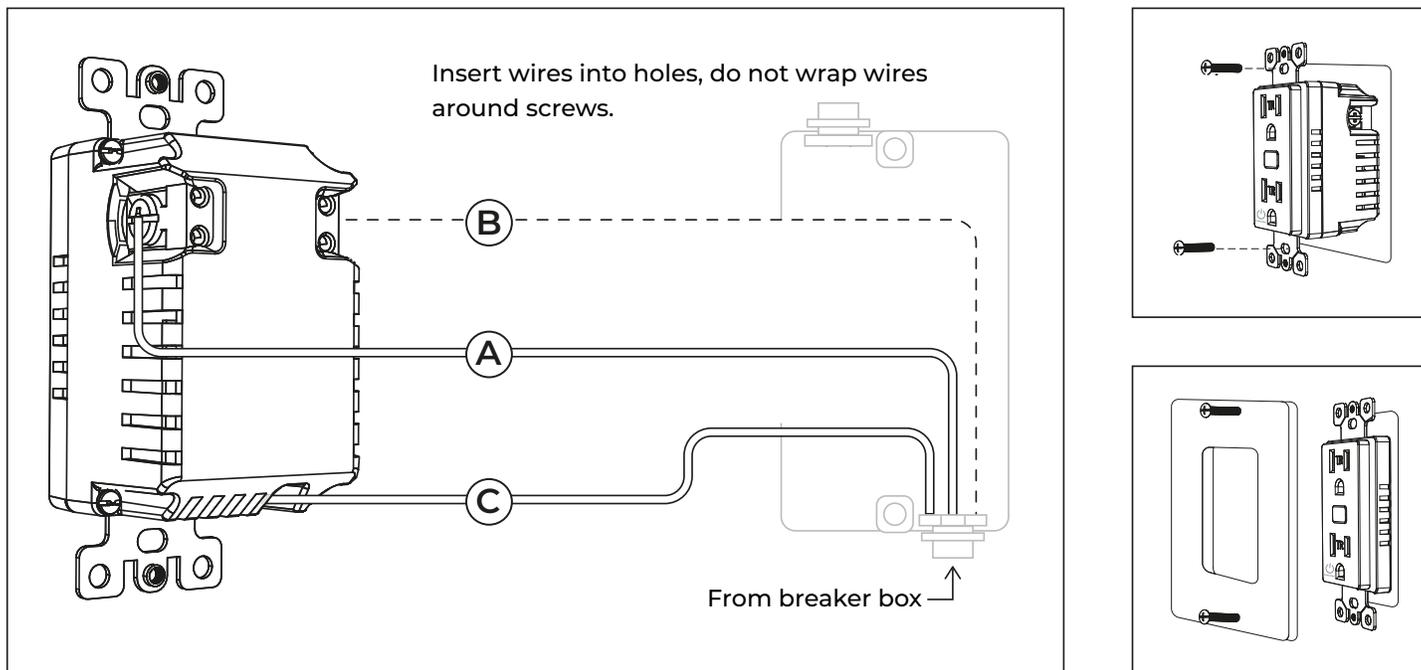
5. Disconnect the wires from the existing outlet. Label wires according to the previous terminal connections.

6. There are three screw terminals on the Zigbee smart outlet; these are marked
  - a. LINE (hot) — Black (connected to power)
  - b. NEUTRAL — White
  - c. GROUND — Green/bare

Match these screw terminals to the wires connected to the existing outlet.

**Note: Smart Outlet is an AC device and the following instructions are intended for licensed electricians only.**

## Observe important wiring information



Always follow the recommended wire strip length (5/8in. or 16mm) and wiring combination when making wiring connections. Consult an electrician with questions or for professional installation.

UL specifies the tightening torque for the screws is 14Kgf-cm (12lbf-in).

**IMPORTANT! The screw terminals in this receptacle are intended to only be used with copper wire. Consult a qualified electrician if you have aluminum wiring.**

### Wire gauge requirements

Use 14AWG or larger wires suitable for at least 80° C for supplying line (hot), neutral and ground connections.

1. Insert smart outlet into the box being careful not to pinch or crush wires.
2. Secure the outlet to the box using the supplied screws.
3. Mount the wallplate.
4. Reapply power to the circuit at fuse box or circuit breaker and test the system.

### Basic operation

The connected device can be turned ON/OFF in two ways:

1. Manually from front program button.
2. Remotely with a Zigbee controller.

Cycle LED lightThe LED acts as a guide light or status indicator.

How to cycle through options: Press program button 10 times quickly.

1. LED is ON when the load is ON (indicates the outlet is ON) (default)
2. LED is ON when the load is OFF (guide light in the dark)
3. LED is always OFF

## Adding your device(s) to the Zigbee network

**NOTE 1 : The icon for the Smart Outlet is a lightbulb. Do not Delete it.**

**NOTE 2: Internet connectivity is not necessary during the Zigbee pairing process.**

### Option 1 (Batch Process)

1. Place all the Smart Outlets on a table or within the same room along with LinkPro Z/ TaHoma gateway at min. 7m distance.
2. For each Smart Outlet one at a time, have a licensed electrician apply temporary power.
3. Use the TaHoma app products menu, choose to add Zigbee product. Scan the QR code located on the bottom of the Smart Outlet/ on the box.
4. Complete this step by naming the outlet in the TaHoma app.  
**NOTE: The name chosen will be used for voice control and in the app.**
5. You can now have a licensed electrician disconnect and have that outlet permanently installed in the desired location.
6. Apply the steps 2 - 6 again until all the Smart Outlets have been paired with your gateway.

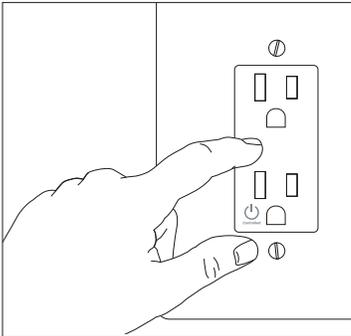
### Option 2 (Remote PoE)

1. Have a licensed electrician install all of the Smart Outlets in the desired locations.
2. Up to a 100m category cable connected from your PoE switch/ injector to your LinkPro Z.  
**NOTE: This remote commissioning CAT5 cable must be able to reach the furthest shade in the house, from the PoE switch, which is why you will need a long cable.**
3. For each Smart Outlet one at time, move the LinkPro Z to be a min. of 7m, within the same room.
4. Use the TaHoma app products menu, choose to add Zigbee product. Scan the QR code located on the bottom of the Smart Outlet/ on the box.
5. Complete this step by naming the outlet in the TaHoma app.  
**NOTE: The name chosen will be used for voice control and in the app.**
6. Apply the steps 3 - 6 again until all the Smart Outlets have been paired with your gateway.

### Option 3 (Remote USB)

1. Have a licensed electrician install all of the Smart Outlets in the desired locations.
2. Using a USB power bank(sold separately), connect to the USB power cable that is included with TaHoma and connect to the internet with WiFi.
3. For each Smart Outlet one at time, move the TaHoma to be a min. of 7m, within the same room.
4. Use the TaHoma app products menu, choose to add Zigbee product. Scan the QR code located on the bottom of the Smart Outlet on the box.
5. Complete this step by naming the outlet in the TaHoma app.  
**NOTE: The name chosen will be used for voice control and in the app.**
6. Apply the steps 3 - 6 again until all the Smart Outlets have been paired with your gateway.

## Additional Feature



The button on the Outlet controls the lower receptacle (Zigbee)

**NOTE:** Plug directly into outlet. Do not use with extension cords.

**NOTE:** LED status indicator stops blinking if a timeout occurs. Auto-scan mode will eventually time out if the smart outlet has not joined a Zigbee network. Press the program button on the smart outlet to restart pairing process following timeout. Timeout will only occur twice. If the smart outlet is not paired before the second time out, manual reset will be required before pairing. Please refer to the following section for details.

## To remove and reset the device from the Zigbee controller

From your TaHoma app, choose to remove or delete the Smart Outlet as instructed. The smart outlet will be removed from the Zigbee network following indication from the app. All configuration parameters will be reset after the smart outlet is removed from the network.

## To return to factory defaults

Press the button three times, then press and hold the button for at least 3 seconds.

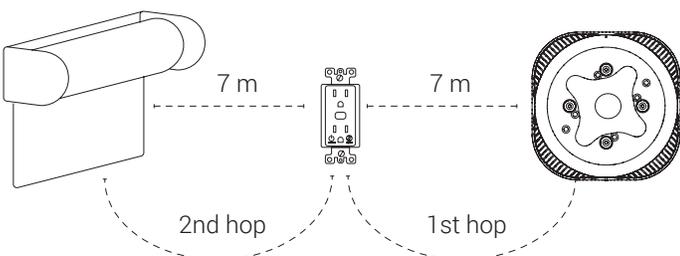
**NOTE:** This should be used in only if your network's primary controller is missing or otherwise inoperable.

**NOTE:** If you want to now add this back to your Zigbee network, refer to Pg. 4, on how to add a device.

## Troubleshooting

Problem	Probable cause	Action to take
Smart Outlet shows up in TaHoma app as a light-bulb.	This is due to most users connect lighting sources such as lamp.	No action required, this is the normal state. Do not remove from app/ you will delete the Smart Outlet from your system.

## Example System Drawing (Ideal Zigbee 3.0 topology)



**Note:** Each Zigbee node should be within 7m of each other and a maximum of 7 hops from any end point to a mesh controller.



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