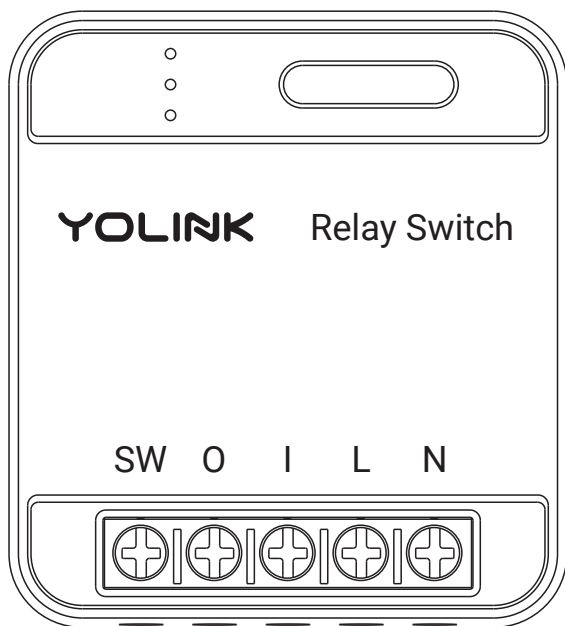




Relay Switch

YS5716-UC



Installation & User Guide

Revision Jun. 02, 2026

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Welcome!

Thank you for purchasing YoLink products! We appreciate you trusting YoLink for your smart home & automation needs. Your 100% satisfaction is our goal. If you experience any problems with your installation, with our products or if you have any questions that this manual does not answer, please contact us right away. See the Contact Us section for more info.

Thank you!

YoLink Customer Support

User Guide Conventions

The following icons are used in this guide to convey specific types of information:



Very important information
(can save you time!)



Good to know info but may not
apply to you

B Before You Begin

Visit our Relay Switch support page on our website, for the latest installation guides, additional resources, information and videos by visiting:

<https://www.yosmart.com/support/YS5716-UC>

Or by scanning the QR code:



Download the most current version of the user guide by scanning the QR code:



YoLink Relay Switch is a smart switch with power and energy monitoring which allows remote control of electric appliances. It can be retrofitted into standard electrical wall boxes, behind power sockets and light switches, or in other places with limited space.

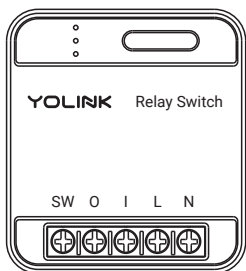
B Before You Begin, Continued



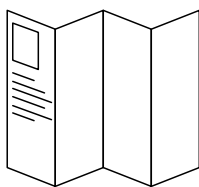
Your Relay Switch connects to the internet via a YoLink hub, and it does **not** connect directly to your WiFi or local network. In order for remote access to the device from the app, and for full functionality, a hub is required.

This guide assumes the YoLink app has been installed on your smartphone, and a YoLink hub is installed and online (or your location, apartment, condo, etcetera, is already served by a YoLink wireless network).

C In the Box



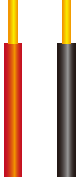
Relay Switch



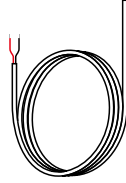
Quick Start Guide

D Required Items

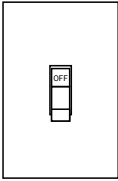
Required Items:



Live Wire & Neutral Wire

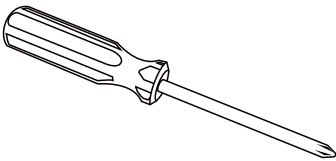


Existing or New Home Appliances or Device with Wiring Ready

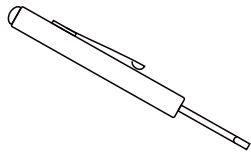


Switch or a Button

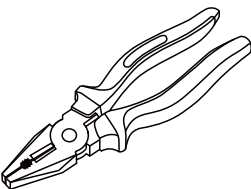
Tools you will need:



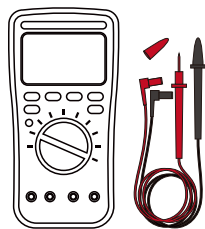
Medium Phillips Screwdriver



Small Slotted Screwdriver



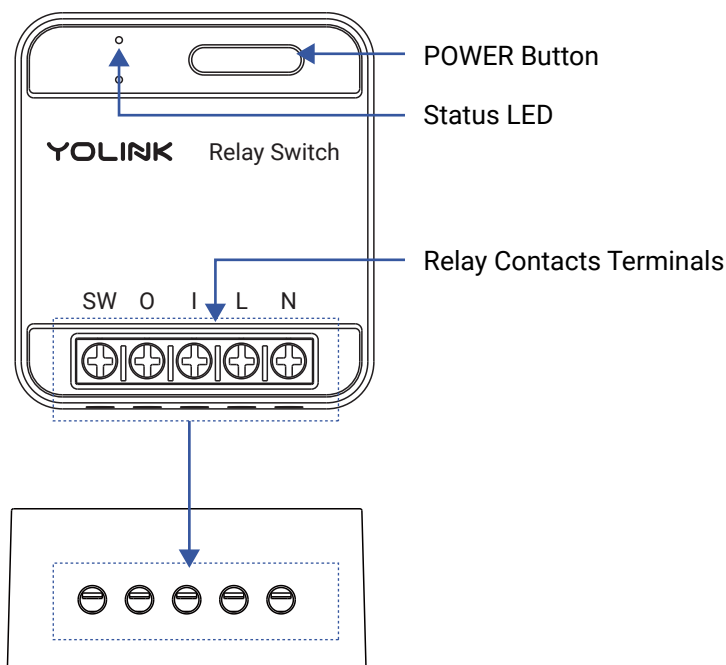
Wire Strippers or Cutters



Multimeter

E

Get to Know Your Smart Relay Switch



LED Behaviors

-  **Blinking Red Once, then Green Once**
Connected to the Power
-  **Blinking Red And Green Alternately**
Restoring to Factory Defaults
-  **Green**
Relay is On
-  **Red**
Relay is Off
-  **Blinking Green**
Connecting to Cloud
-  **Quick Blinking Green**
Control-D2D Pairing inProgress
-  **Slow Blinking Green**
Updating
-  **Quick Blinking Red**
Control-D2D Unpairing in Progress



Install the App

If you are new to YoLink, please install the app on your phone or tablet, if you have not already. Otherwise, please proceed to the next section.

Scan the appropriate QR code below or find the “YoLink app” on the appropriate app store.



Apple phone/tablet
iOS 9.0 or higher



Android phone/tablet
6.0 or higher

Open the app and tap **Sign up for an account**. You will be required to provide a username and a password. Follow the instructions, to set up a new account. Allow notifications, when prompted.

You will immediately receive a welcome email from no-reply@yosmart.com with some helpful information. Please mark the yosmart.com domain as safe, to ensure you receive important messages in the future.

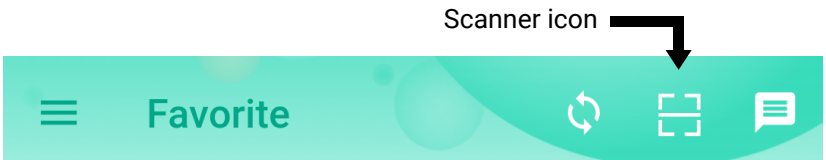
Log in to the app using your new username and password.

The app opens to the **Favorite** screen. This is where your favorite devices and scenes will be shown. You can organize your devices by room, in the **Rooms** screen, later.

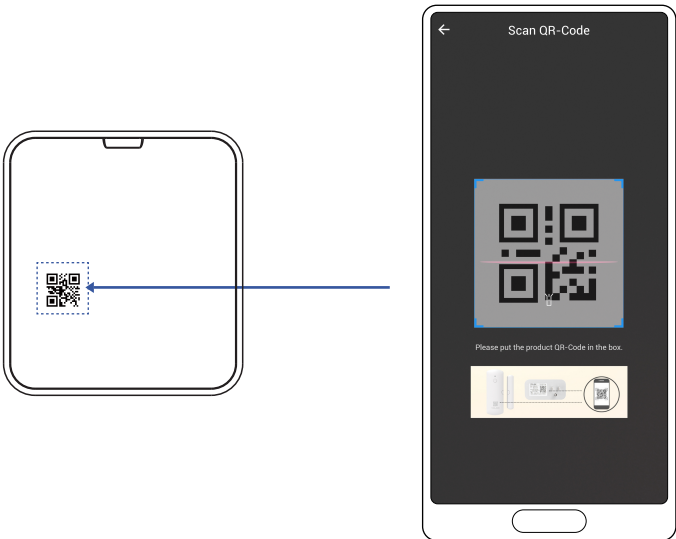


Add Your Relay to the App

1. Tap **Add Device** (if shown) or tap the scanner icon:



2. Approve access to your phone's camera, if requested. A viewfinder will be shown on the app.



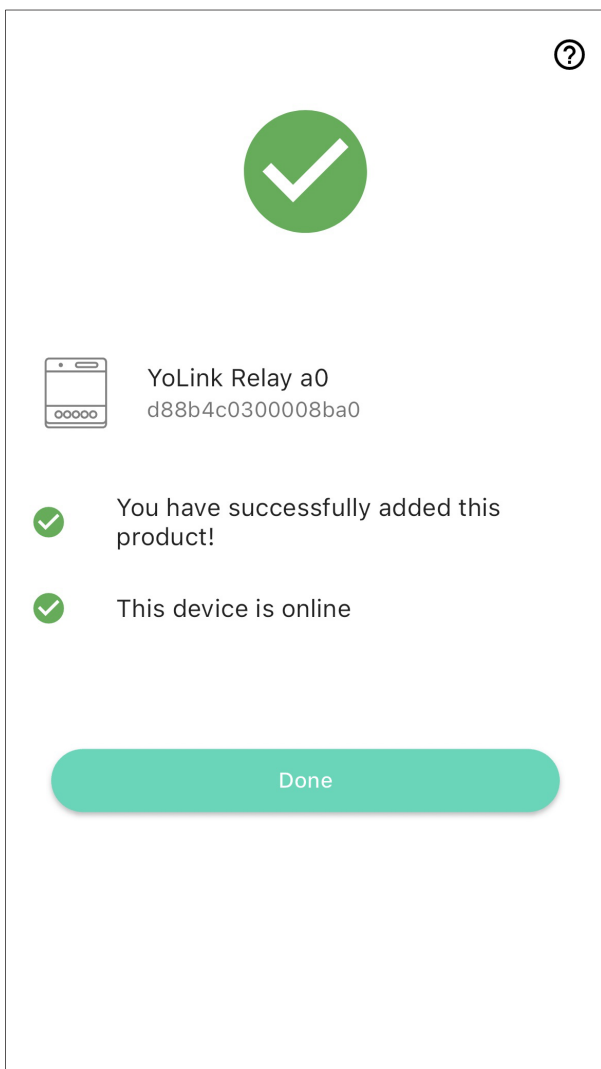
3. Hold the phone over the QR code so that the code appears in the viewfinder. If successful, the **Add Device** screen will be displayed.



Add Your Relay to the App, Continued

4. You can change the device name and assign it to a room later. Tap **Bind device**.

5. If successful, the screen will appear as shown. Tap **Done**.





Before Installation

- 1. Avoid connecting I and O to AC mains with phases different from L.**
- 2. Avoid connecting I and O to DC power sources with grounding or in contact with the earth.**
- 3. Make sure to use this product together with 15A circuit breaker in the upstream.**
- 4. Danger of electrocution. Mounting/installation of the Device to the power grid has to be performed with caution, by a qualified electrician.**
- 5. Danger of electrocution. Every change in the connections has to be done after ensuring there is no voltage present at the Device terminals.**
- 6. Do not use the device if it shows any sign of damage or defect.**
- 7. Do not open the device. It does not contain any parts that can be maintained by the user. For safety and licensing reasons, unauthorized change and/or modification of the device is not permitted.**
- 8. Use the Device only with a power grid and appliances that comply with all applicable regulations. A short circuit in the power grid or any appliance connected to the Device may damage it.**



Before Installation, Continued

9. No SELV/PELV circuits may be connected to the terminals of the inputs and outputs, including the extension inputs.

10. Do not connect the Device to appliances exceeding the given max load!

11. Connect the Device only in the way shown in these instructions. Any other method could cause damage and/or injury.

12. The Device is intended for indoor use only.

13. Keep the Device away from liquids and moisture. Do not use the device in places with high humidity.

14. The Device can control electric circuits and appliances wirelessly. Proceed with caution! Irresponsible use of the Device may lead to malfunction, danger to your life, or violation of the law.

15. The Device has to be secured by a cable protection switch in accordance with EN60898-1 (tripping characteristic B or C, max. 16 A rated current, min. 6 kA interrupting rating, energy limiting class 3).

16. Before starting the mounting/installation of the Device, check that the breakers are turned off and there is no voltage on their terminals. This can be done with a mains voltage tester or multimeter. When you are sure that there is no voltage, you can proceed to connecting the wires.



Before Installation, Continued



Your Relay is an RF wireless device that ideally is not installed on or near metal. If the Relay is intended for installation in a metal box, please first test the location by placing the Relay in the box and installing the cover. On the app, verify the device is online, and on the device detail screen the signal level is not indicated as "Weak". The signal level may be improved by utilizing a plastic cover on a metal box. Otherwise, a plastic box will be required to ensure reliable operation.



Installation Instructions



1. Avoid connecting I and O to AC mains with phases different from L.
2. Avoid connecting I and O to DC power sources with grounding or in contact with the earth.

1. Live and Neutral Wire Connections:

- Connect the live wire to the "L" terminal.
- Connect the neutral wire to the "N" terminal.



Installation Instructions, Continued

2. SW Terminal Connection:

- If an external switch is required, connect the "SW" terminal to the live wire via the switch, as shown in Figure 1 or Figure 3.
- If no external switch is required, leave the "SW" terminal unconnected, as shown in Figure 2 or Figure 4.

3. I Terminal and O Terminal Connections:

- **Mains Power Connection (Figure 1 or Figure 2):**
 - Connect the "I" terminal to the "L" terminal. Connect the "O" terminal to the live wire of the load.
 - Connect the neutral wire of the load to the neutral wire.

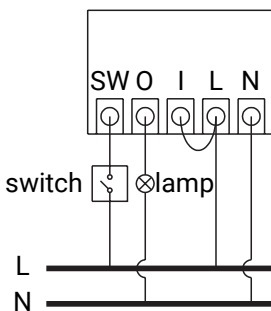


Figure 1

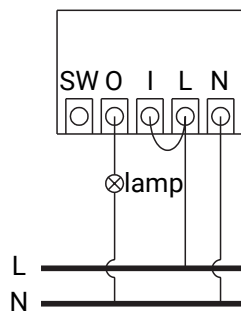


Figure 2



Installation Instructions, Continued

- **Other Applications Connection (Figure 3 or Figure 4):**

- a. DC Power Connection:**

- Connect the "I" terminal to the positive terminal of the DC power supply.
 - Connect the "O" terminal to the positive terminal of the load.
 - Connect the negative terminal of the load to the negative terminal of the DC power supply.

- b. AC Power Connection:**

- Connect the "I" terminal to the live wire of the AC power supply.
 - Connect the "O" terminal to the live wire of the load.
 - Connect the neutral wire of the load to the neutral wire of the AC power supply.

- c. Switch Signal in Other Circuits:**

- Polarity does not matter; connect the two terminals directly to the circuit.

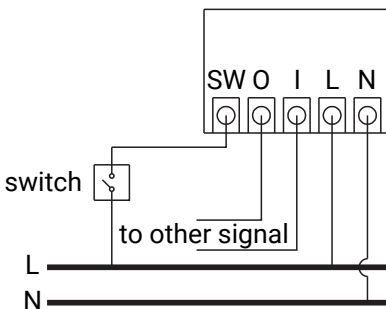


Figure 3

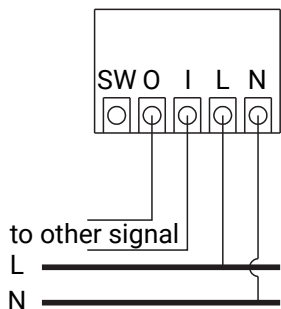


Figure 4



Installation Instructions, Continued

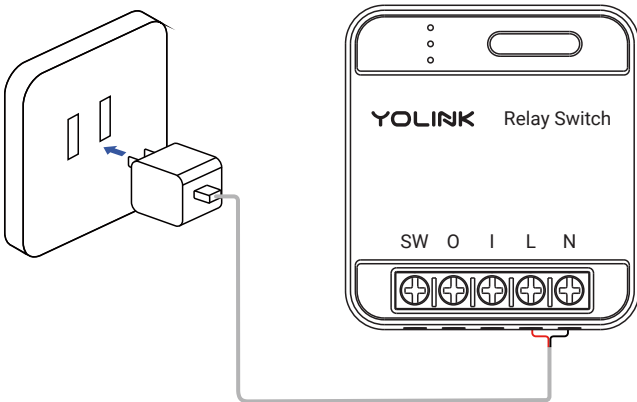


Other Applications Connection Method requires proper protection to prevent direct contact with people, and the power & energy monitoring function is not accurate.



Test the Relay

1. Turn on circuit(s) at the controlled equipment after installation.
2. Power on the Relay Switch.

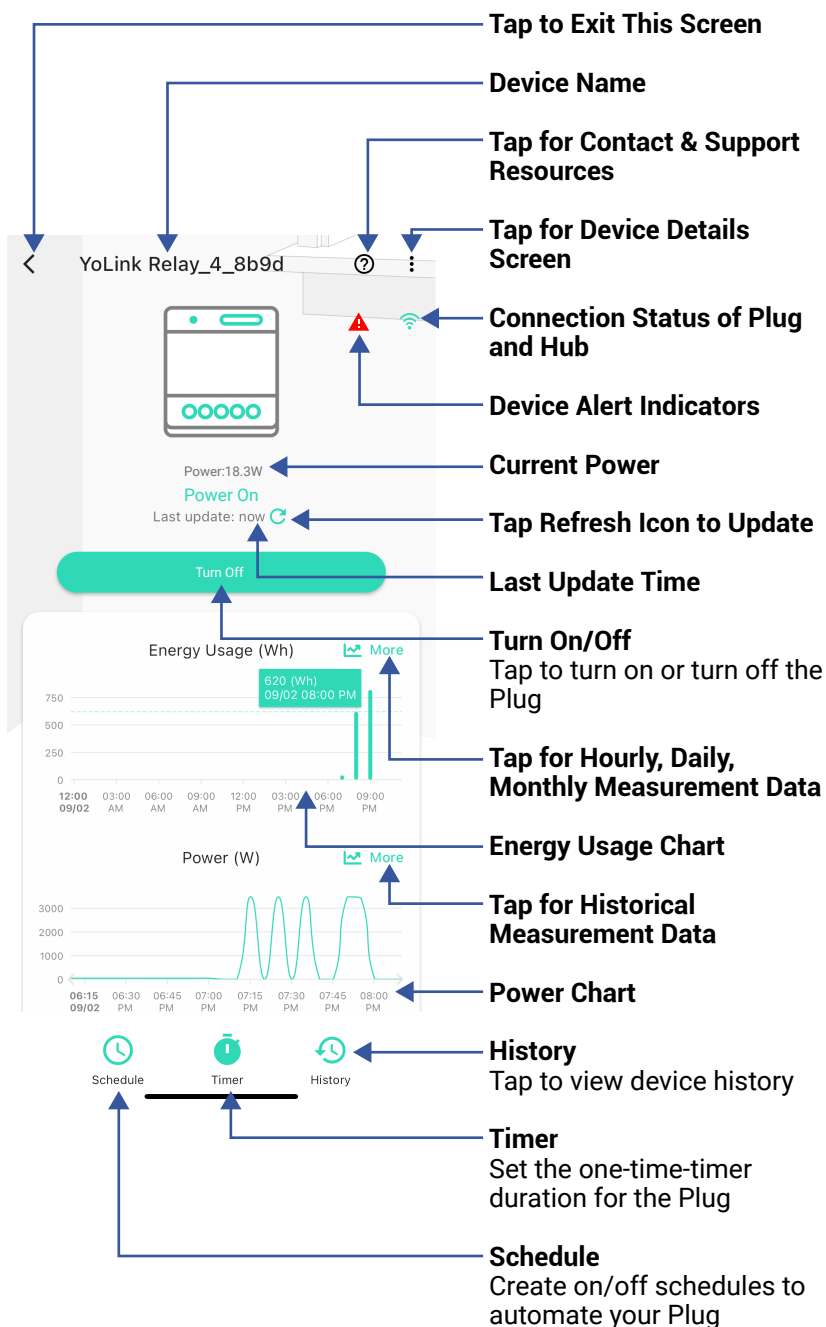


3. Using the YoLink app, test the operation of the Relay (turn it on, then off, etc.). If it is not working properly, double-check or re-do steps on part H, as needed.



App Functions: Device Screen

In the app, tap on your Relay Switch icon. Your Relay Switch main screen should be similar to the one shown below.





App Functions: Device Details Screen

Tap the three dots (in the upper right corner) to open the Relay Switch **Details** screen. Your Relay Switch screen should be similar to the one shown below.

<

Details

?

Type

YoLink Relay

Device Type

Name

YoLink Relay >

Device Name
(Tap to Edit)

Room

5716 >

Room
(Tap to Edit)

Favorite

Will show in favorite screen

♥

Favorite
(Red if Favorite, Tap to Edit)

State

Off

State

Time

8/21 4:16:02 PM (GMT+8)

Sync With Mobile >

Time
Tap to sync with mobile

Historical Measurement Data

Energy Usage >

Energy Usage Chart

Power

>

Power Chart

Other

Power On Status

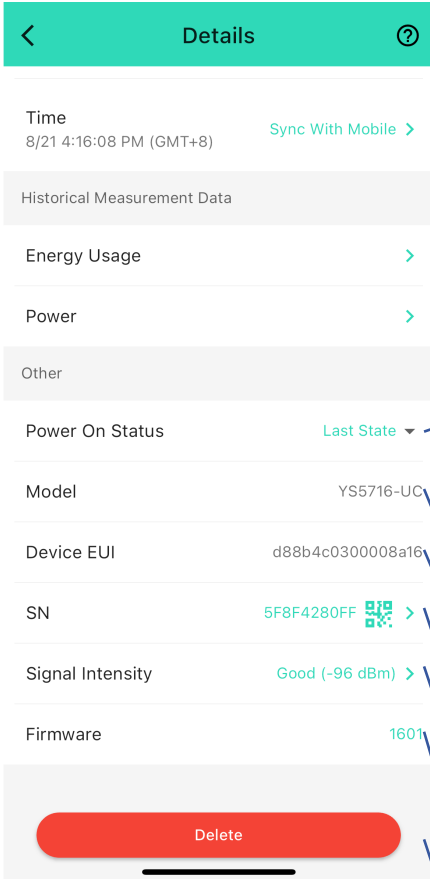
Last State ▾

Model

YS5716-UC



App Functions: Device Details Screen, Continued



Power On Status

Power on status after firmware update or power loss, choose Last State, On or Off. Default is set to Last State

Model Number

Device EUI

Unique Identifier Number

Device Serial Number

Signal Intensity

(From YoLink Hub)

Firmware Revision

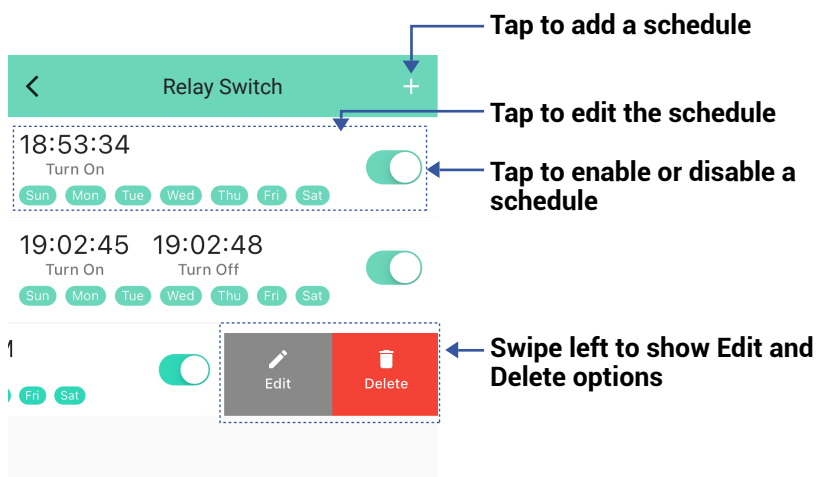
(Refer to page 26)

Remove Device From Current Account

Tap to delete the device from your YoLink account



App Functions: Schedule



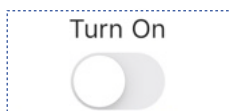
You can have a maximum 6 schedules at one time.

The schedule runs on the device (no internet connection required).

You can add more schedules in Automation settings. Automation settings are saved in the cloud.



App Functions: Timer



Turn On After relay

Slide to enable/disable



Set the duration

When enabled, the relay will turn on after this timer duration has elapsed



Turn Off After relay

Slide to enable/disable



Set the duration

When enabled, the relay will turn off after this timer duration has elapsed

The timer starts when the settings are saved (by tapping the checkmark at the upper right of the screen).

You can add more timers in Automation settings. Automation settings are saved in the cloud.



The timer will run only once. You can set a new timer after the timer has already run once or after you cancel it.

The timer runs on the device (no internet connection required).



App Functions: Smart - Scene

Tap to view the scene history

Tap to save the settings

Name
Tap to edit the scene name

Icon
Tap to select a scene icon

Favorite
Tap to make it a favorite scene

Assign the scene to a scene group

Delete the behavior

Add behavior
Tap to add a behavior

Tap to sort behaviors



The Scene settings are saved in the cloud.

If you have two or more alternating scenes, such as "Armed" and "Disarmed" or "Day Mode" and "Night Mode", you can place them into a custom scene Group. As only one scene in a Group can be active, when you activate the Night Mode scene, the Day Mode scene will be indicated as inactive. This is only a visual indicator; in this example, any specific required actions for the Day Mode (such as device actions, etc.) must be accomplished by separate automation settings.



App Functions: Smart - Automation

The Relay Switch can be set up as a condition or action in automation.

The screenshot shows the 'Automation' app interface with the following sections and annotations:

- Automation Header:** A green bar with a back arrow, the title 'Automation', and a checkmark icon. An arrow points to the checkmark with the text: **Tap to save the settings**.
- Name:** The text 'Name switch' is displayed. An arrow points to it with the text: **Edit the name of the automation**.
- When:** A section for scheduling. An arrow points to the 'When' header with the text: **Tap to set a schedule for the automation**. Below it, a clock icon is followed by the text 'When 12:00 AM' and 'Every Tue,Wed,Thu'.
- Then:** A section for actions. An arrow points to the 'Then' header with the text: **Add behavior**. Below it, the text 'Behavior' is followed by three icons: a list icon, a plus sign, and a trash can. An arrow points to the plus sign with the text: **Tap to add a behavior**. An arrow points to the trash can with the text: **Delete the behavior**. An arrow points to the list icon with the text: **Tap to sort behaviors**.
- Working Time:** A section for activation time. An arrow points to the 'Always Working' text with the text: **Always Working** and 'Tap to set when the automation can be activated'.
- Advanced Settings:** A section for advanced settings. An arrow points to the 'Advanced Settings' text with the text: **Advanced Settings** and 'Tap to edit advanced automation and logging settings'.

The Automation settings are saved in the cloud.

You can edit the Advanced Settings, including save the log, retry if action fails, notify if action fails, etc.

Q Control-D2D

YoLink Control-D2D (device-to-device) pairing is a feature unique to YoLink products. One device can be paired to one (or more) devices. When two or more devices are paired, a link is created, “locking-in” the behavior, so that the device(s) will carry out their paired behavior when required, regardless of a connection to the internet or cloud, and even without AC power (in the case of battery-powered or battery backed-up devices). For example, a Door Sensor can be paired to a Siren Alarm, so that when the door is opened, the siren is activated.

Several important points:

- The use of Control-D2D is entirely optional. It is more common to use the app’s automation and scene settings to create desired behaviors, such as motion sensors turning on the lights automatically. Your application may require functionality during the loss of internet/WiFi, in which case Control-D2D pairing may be preferred.
- A device that controls another device is referred to as a Controller. The device that is controlled is referred to as a Responder.

Q Control-D2D, Continued

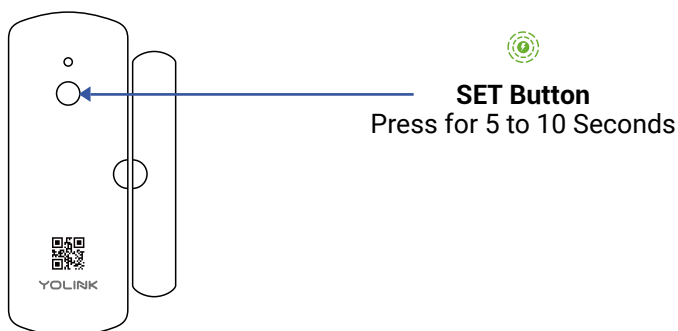
- While online, any paired behaviors as well as automation and scene settings (desired relay behaviors set in advance by you, such as the motion sensor/relay example) will both be carried out. Paired behaviors and app settings can coexist, but use care to not create conflicting actions between the two, as the device may not operate as desired.
- A device can have up to 128 pairings.
- During D2D pairing, both the controller and the responder must be in the correct operational state corresponding to their intended behavior. For example, if the controller (door sensor) is meant to turn on a plug when the door opens, the door sensor should be in the open state and the plug should be on during pairing.

The following instructions use pairing your Door Sensor with a Relay Switch as an example, when door is open, turn on the relay.



Control-D2D, Continued

1. To configure your Door Sensor as a controller, open the door, press and hold the SET button for 5-10 seconds until the LED quickly blinks green, then, release the button.



2. To configure a Relay Switch as the responder, turn on the relay by pressing the POWER button or via YoLink app. Press and hold the POWER button for 5-10 seconds until the LED quickly blinks green, then, release the button.

3. Upon pairing, the LED will stop blinking (this may happen after only blinking two or three times).

When the door sensor is opened, the relay will turn on. The relay will remain on status until turned off via the app or press the Power button.

Unpair your Relay Switch:

1. On the Door Sensor, press the hold the SET button for 10 to 15 seconds, until the LED quickly blinks red, then release the button.



Control-D2D, Continued

2. On the Relay, press and hold the Power button for 10 to 15 seconds, until the LED quickly blinks red, then release the button.



The LED will flash green prior to the 10 second mark, going into pairing mode, but keep pressing until the LED flashes red. The Controller's pairing is now removed. This door sensor will no longer control the relay.



Using the App & 3rd-Party Services

The Relay Switch works with several voice assistants, including Alexa and Google, and it works with other automation platforms such as IFTTT and Home Assistant.

To set up 3rd-party integrations (Alexa, Google and IFTTT), in the app, go to Settings, Third-Party Services, and follow the instructions.

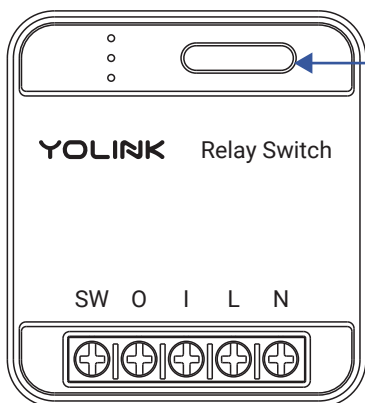
Refer to the Home Assistant website and the YoLink integration page for instructions.

<https://www.home-assistant.io/integrations/yolink/>

S Factory Reset

When directed by customer support, and/or as an attempt to resolve a problem with your Relay Switch, it may be necessary to perform a factory reset. Factory resetting your sensor returns it to the factory default programming and settings. This is a simple process:

- Hold the Power Button for 20 to 30 seconds, until the LED blinks red and green alternately, then release the button.



Power Button
Press for 20 to 30 Seconds

Factory reset is complete when the LED stops flashing.

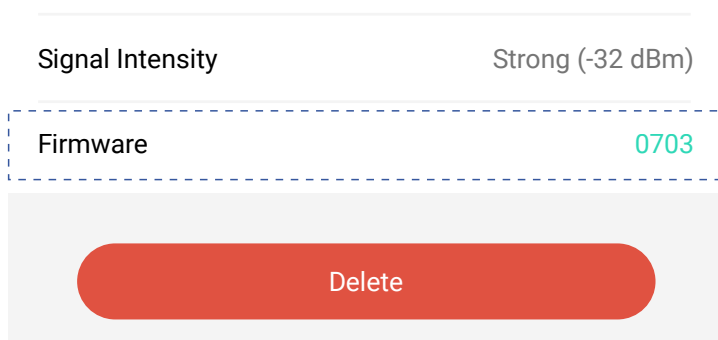


Only deleting a device from the app will remove it from your account

T Firmware Updates

Your YoLink products are constantly being improved, with new features added. It is periodically necessary to make changes to your device's firmware. For optimal performance of your system, and to give you access to all available features for your devices, these firmware updates should be installed when they become available.

In the Detail screen of each device, at the bottom, you will see the Firmware section, as shown in the image below. A firmware update is available for your device if it says "#### ready now"



Tap in this area to start the update.

The device will update automatically, indicating progress by percentage-complete. You may use your device during the update, as the update is performed "in the background". The LED will slowly blink green during the update, and the update may continue for several minutes beyond the LED turning off.



Specifications

Input Voltage:	110-240V AC , 50/60Hz
----------------	-----------------------

Output Voltage:	110-240V AC, 50/60Hz, 15A MAX (Resistive)
-----------------	--

Dimensions, Imperial (L x W x D):	1.65 x 1.49 x 0.66 inches
--------------------------------------	------------------------------

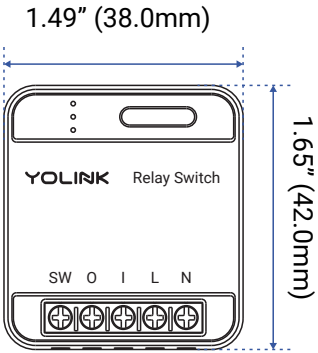
Dimensions, Metric (L x W x D):	42 x 38 x 17 mm
------------------------------------	-----------------

Environment:	Temperature: -4°F-113°F (-20°C-45°C)
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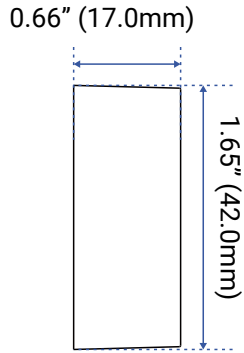
	Humidity: ≤90% non-condensing
--	----------------------------------



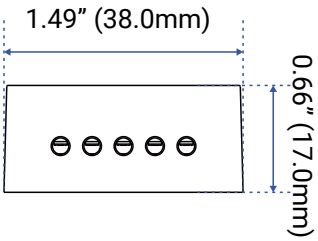
Specifications, Continued



FRONT



SIDE



TOP

V Warnings

- Please install, operate and maintain the Relay only as outlined in this manual. Improper use may damage the unit and/or void the warranty
 - Do not overload the device. Please refer to the Maximum Load section in Specifications on page 27
 - Do not install or use this device outside of the temperature and humidity range listed in the Environmental section in Specifications on page 27
 - Do not install or use this device where it will be subjected to high temperatures and/or open flame
 - This device is not waterproof and is designed and intended only for indoor use. Subjecting this device to outdoor environment conditions such as direct sunlight, extreme hot or cold temperatures, rain, water and/or condensation can damage the device and will void the warranty
- Install or use this device only in clean
- environments. Dusty or dirty environments may prevent the proper operation of this device, and will void the warranty

V Warnings, Continued

- If your Relay does get dirty, please clean it by wiping it down with a clean, dry cloth. Do not use strong chemicals or detergents, which may discolor or damage the exterior and/or damage the electronics, voiding the warranty

Do not install or use this device where it will

- be subjected to physical impacts and/or strong vibration. Physical damage is not covered by the warranty

Please contact Customer Service before

- attempting to repair disassemble or modify the device, any of which can void the warranty and permanently damage the device



Warranty

1 Year Limited Electrical Warranty

YoSmart Inc. warrants to the original user ("customer") of this product that it will be free from defects in materials and workmanship, under normal use, for 1 year from the date of purchase. This warranty does not apply to devices that have been improperly installed, modified, put to a use other than designed, or subjected to acts of God (such as floods, lightning, earthquakes, etc.). This warranty does not cover neglected or abused products. This warranty is limited to the repair or replacement of the device, only, at YoSmart's sole discretion. YoSmart will NOT be liable for the cost of installing, removing, nor reinstalling this product, nor direct, indirect, or consequential damages to persons or property resulting from the use of this product. This warranty only covers the cost of replacement parts or replacement units, it does not cover shipping & handling fees. The customer must provide proof of purchase, in the form of the original purchase invoice or order number. The purchase must have been made from an authorized seller.

To implement this warranty please contact us by one of the methods listed on the Contact Us page of this user guide.

FCC 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.

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

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.



FCC Statement, Continued

- 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.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.

PRODUCT NAME:
Relay Switch

PARTY:
YOSMART, INC.

TELEPHONE:
831-292-4831

MODEL NUMBER:
YS5716-UC

ADDRESS:
25172 ARCTIC OCEAN DRIVE, SUITE 106, LAKE
FOREST, CA 92630 USA

EMAIL:
SERVICE@YOSMART.COM



Contact Us

We are here for you, if you ever need any assistance installing, setting up or using a YoLink app or product!

Need help? For fastest service, please email us 24/7 at service@yosmart.com

Or call us at **831-292-4831** (US phone support hours: **Monday - Friday, 9AM to 5PM** Pacific)

You can also find additional support and ways to contact us at:

www.yosmart.com/support-and-service

Or scan the QR code:



Support Home Page

Finally, if you have any feedback or suggestions for us, please email us at feedback@yosmart.com

Thank you for trusting YoLink!

YoLink Customer Support

