

Vibration Sensor

YS7201-UC



Installation & User Guide

Revision Feb. 05, 2024

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A 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 Vibration Sensor support page on our website, for the latest installation guides, additional resources, information and videos by visiting:

<https://www.yosmart.com/support/YS7201-UC>

Or by scanning the QR code:



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



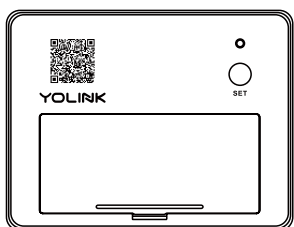
B Before You Begin, Continued



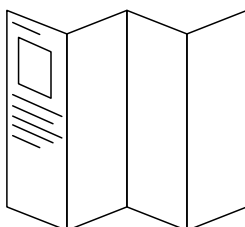
Your Vibration Sensor connects to the internet via a YoLink hub, and it does not connect directly to your WiFi or local network. In order for remote access to the device from the app, and for full functionality, a hub is required.

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).

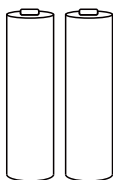
C In the Box



Vibration Sensor



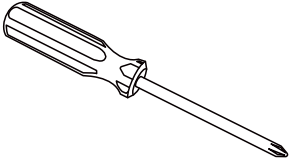
Quick Start Guide



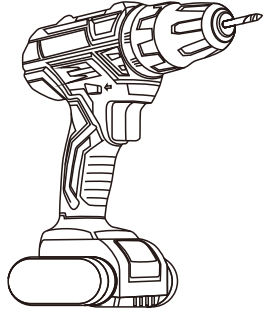
2 x AAA Batteries (Pre-installed)

D Required Items

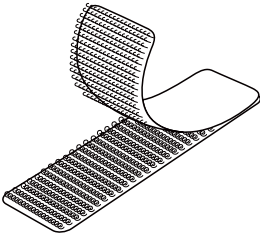
Items You May Need:



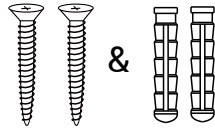
Medium Phillips Screwdriver



Drill & Drill Bits



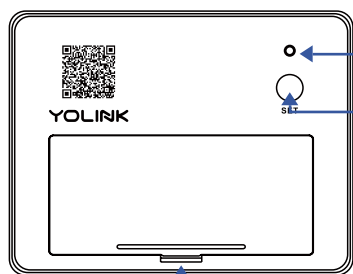
Velcro Strips



Phillips Screws (2)
Plastic Anchors(2)

E

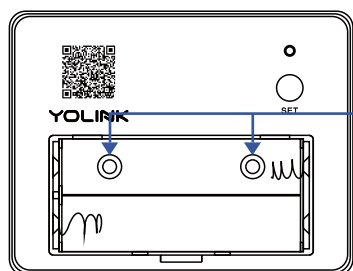
Get to Know Your Vibration Sensor, Continued



Status LED

SET Button

Battery Compartment Cover



Wall-Mounting Holes
(Inside Battery Compartment)

LED Behaviors



Blinking Red Once, then Green Once
Device Power-Up



Blinking Red And Green Alternately
Restoring to Factory Default Settings



Blinking Green
Connecting to Cloud



Slow Blinking Green
Updating



Fast Blinking Green
Control-D2D Pairing in Progress



Blinking Red Once
Device Alerts or Device is Connected to the Cloud and is Functioning Normally



Fast Blinking Red
Control-D2D Unpairing in Progress



Fast Blinking Red Every 30 Seconds
Batteries Are Low (Replace the Batteries)

F 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.

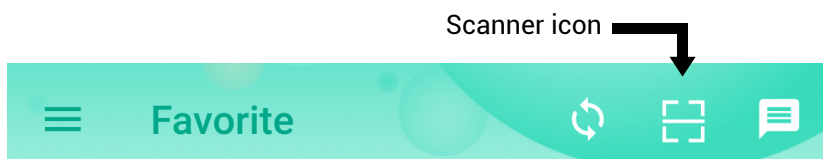
Log in to the app using your new username and password.

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.

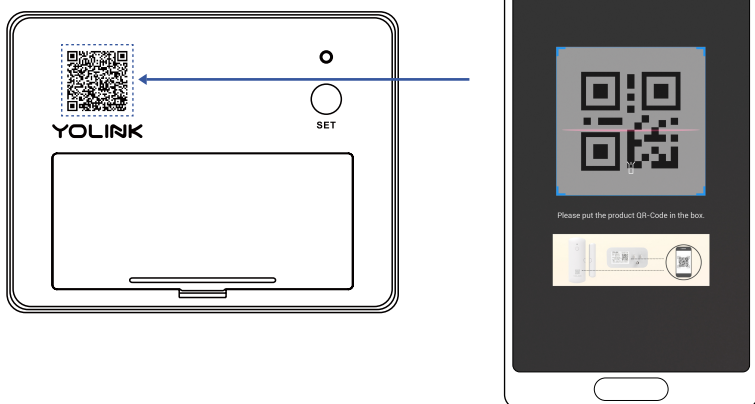


Add Your Vibration Sensor to the App

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.



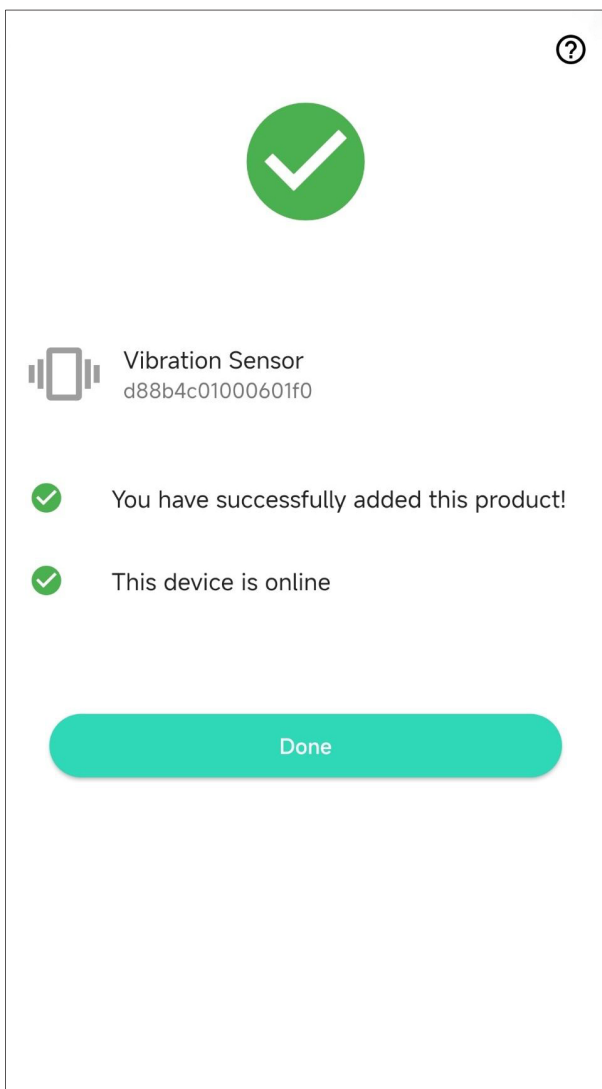
3. Hold the phone over the QR code so that the code appears in the viewfinder. If successful, the **Add Device** screen will be displayed.

G

Add Your Vibration Sensor to the App, Continued

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

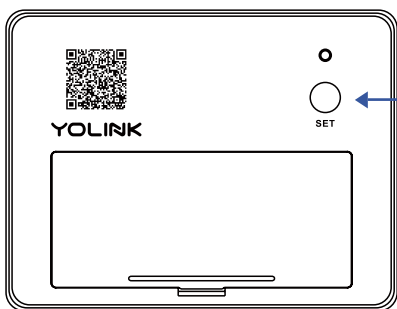
5. If successful, the screen will appear as shown. Tap **Done**.





Power Up

Power up the Vibration Sensor by briefly pressing the SET button, until the LED flashes red then green.



SET Button



Installation

Application and location considerations:

Please note, the Vibration Sensor is intended for indoor applications, only. Refer to the environmental specifications on the product support page. The performance of the device and the life of the batteries may be effected by the incorrect application of this product, and the warranty does not cover water damage.

The Vibration Sensor has many applications, and the installation requirements can vary between them. Please contact us if you have questions about your specific application, and how best to locate and install the Vibration Sensor.

The Vibration Sensor is typically mounted to the protected item using the preinstalled mounting tape, or by screwing the Vibration Sensor to the surface of the protected item. Follow the instructions applicable to your application.

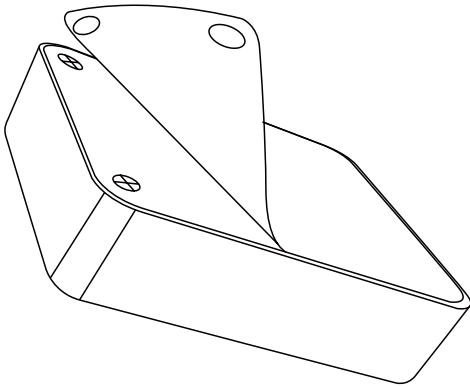
It is recommended that you test your location and installation method before permanently installing the Vibration Sensor. For either mounting method, this can be done by only removing a portion of the protective plastic on the mounting tape – just expose enough tape so that you can temporarily place the sensor at the intended location. After testing has confirmed the Vibration Sensor will function as expected, you can remove the tape entirely (or secure it to the surface using screws, not included, as is applicable).



Installation, Continued

Mounting Tape Method:

1. After a suitable location has been determined, clean the mounting surface well with a degreaser or rubbing alcohol, and allow it to dry. The surface must be free of moisture, dirt, oil, grease, and cleaning chemicals.
2. Remove the protective plastic from the mounting tape, by peeling it back from one corner.



3. Place the sensor at the desired location, and press firmly down for at least 5 seconds.
4. Gently tug on the sensor, to verify it is securely mounted.



Installation, Continued

Screw-Mounting Method:

1. Open the battery cover, by gently prying at the notch and remove the batteries.
2. Place the sensor at the desired location and secure it to the wall using screws (not included), as shown in Figure 1.

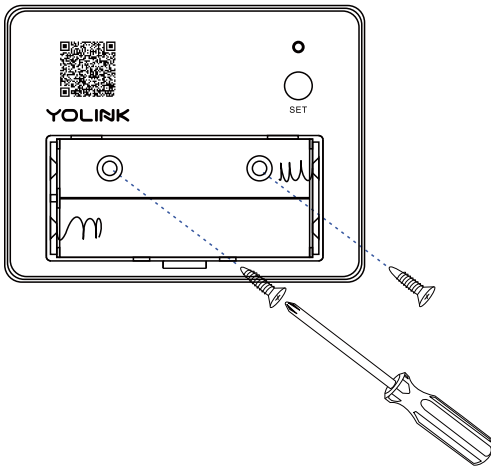
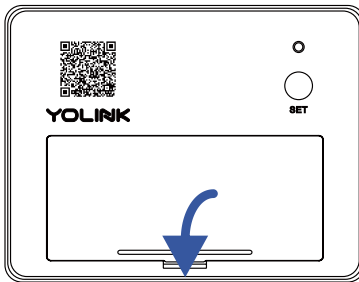


Figure 1

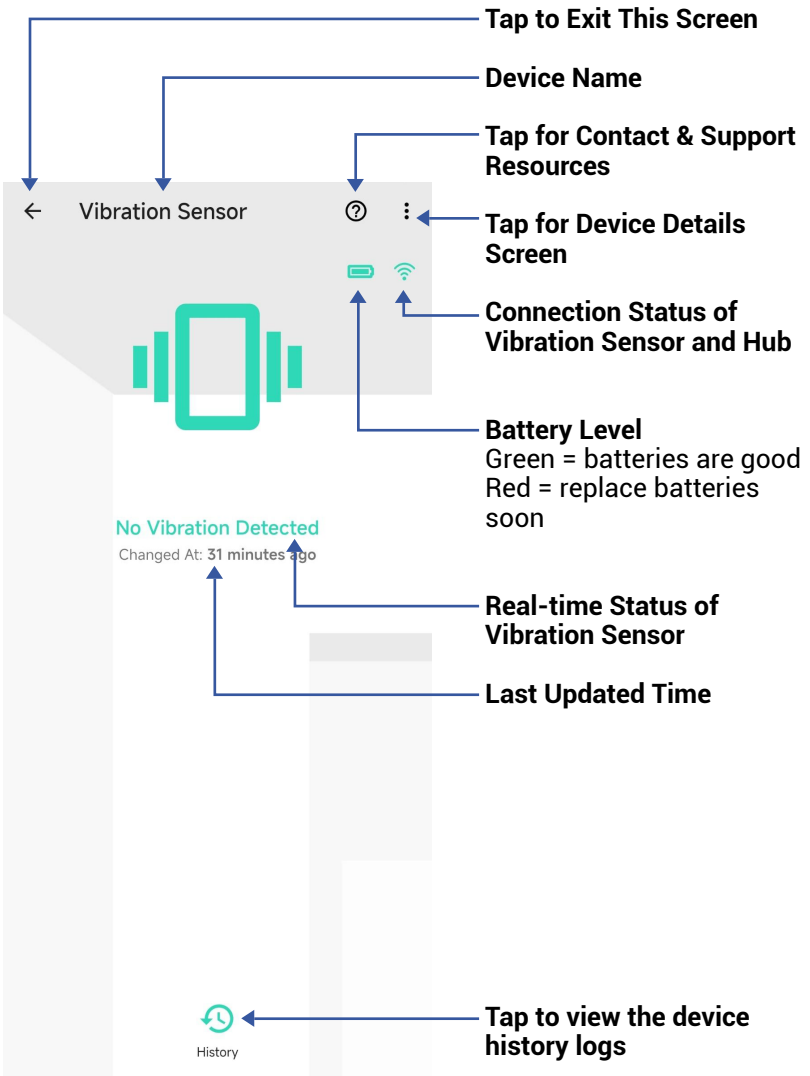
3. Reinstall the batteries and replace the battery compartment cover.





App Functions: Device Screen

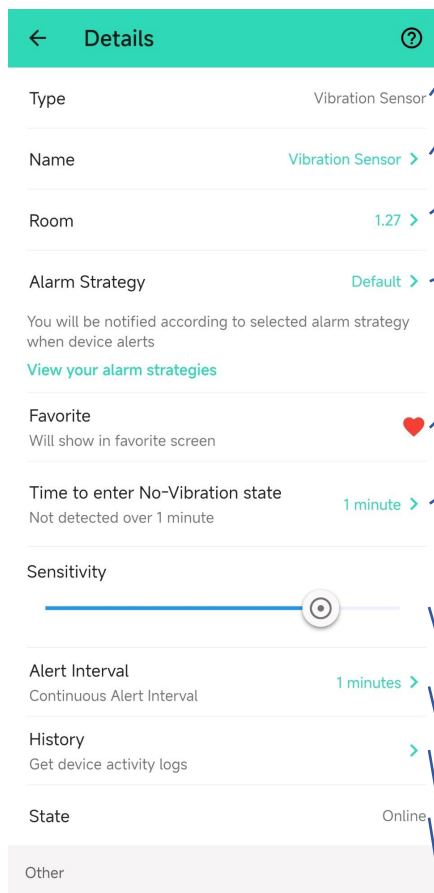
In the app, tap on your Vibration Sensor icon. Your Vibration Sensor main screen should be similar to the one shown below.





App Functions: Device Details Screen

Tap the three dots (in the upper right corner) to open the Vibration Sensor **Details** screen. Your Vibration Sensor's screen should be similar to the one shown below.



Device Type

Device Name
(Tap to Edit)

Room
(Tap to Edit)

Alarm Strategy
Tap to edit the sensor's Alarm Strategy

Favorite
(Red if Favorite, Tap to Edit)

Time to enter No-Vibration state
After it detects vibration, the vibration sensor will update its status to "no vibration detected" once the pre-set "time to enter no motion state" has passed without any further vibration being detected

Sensitivity
Slide to adjust the sensitivity

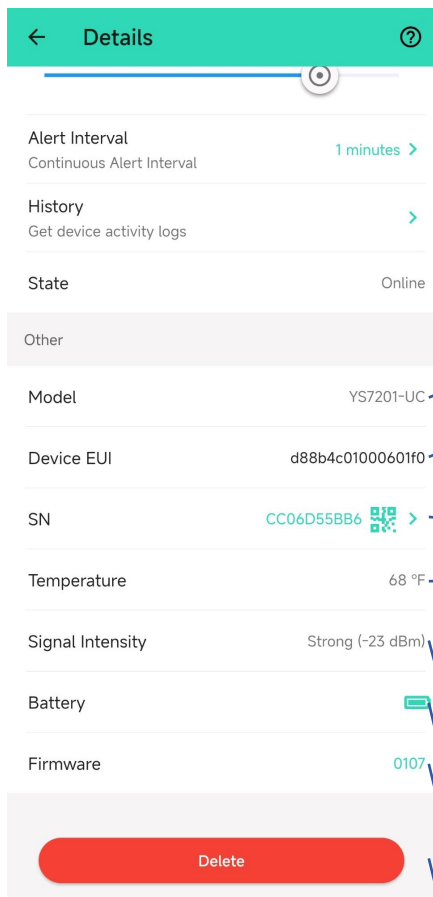
Alert Interval
Choose how often you want to be reminded after an alarm

Device history
Tap to view device history

State



App Functions: Device Details Screen, Continued



Model Number

Device EUI
Unique Identifier Number

Device Serial Number

Temperature
It is an auxiliary function and the temperature updates are not frequent, it will only update when the sensor sends an alert, heartbeat signal, or the SET button is pressed

Signal Intensity
(From YoLink Hub)

Battery

Firmware Revision
(Refer to page 26)

Remove Device from Current Account
Tap to delete the device from your YoLink account



App Functions: Alarm Strategy Screen

You can set up notifications in Alarm Strategy settings, make sure you have enabled App, Email, SMS notification from the app->Menu->Settings->Account Settings->Advanced Settings, and verified your email address and added your phone number in the app.

The screenshot shows the 'Alarm Strategy' settings screen. The header is green with a back arrow, the title 'Alarm Strategy', and a help icon. Below the header, there are several settings sections. The first section has 'Name' set to 'Always' with a right arrow, and 'Related Devices' set to '1' with a right arrow. The second section has 'Enable Device Alarm' with a green toggle switch, and 'Do Not Disturb' with a greyed-out toggle switch. The third section has 'Send App Notification' set to 'Admin' with a dropdown arrow, a link for 'Notification Settings ...', and a description. Below that are 'Send Email' and 'Send SMS', both set to 'None' with dropdown arrows, and a description for each. At the bottom is 'Trigger Action' set to 'None' with a right arrow and a description. A green 'Save' button is at the very bottom. Blue arrows point from text annotations to specific elements: 'Strategy Name' points to the help icon, 'Related Devices' points to the '1' in the 'Related Devices' row, 'Tap to Enable or Disable The Strategy' points to the 'Enable Device Alarm' toggle, and 'Tap to Set Up Dnd (Do Not Disturb)' points to the 'Do Not Disturb' toggle.

Strategy Name
Tap to edit the name

Related Devices
Tap to add more devices (that can alert) to this strategy, a device can be related to only one strategy

Tap to Enable or Disable The Strategy

Tap to Set Up Dnd (Do Not Disturb)



App Functions: Alarm Strategy Screen, Continued

The screenshot shows the 'Alarm Strategy' configuration screen. At the top is a green header with a back arrow, the title 'Alarm Strategy', and a help icon. Below the header are several sections: 'Name' with a value of 'Always' and a chevron; 'Related Devices' with a value of '1' and a chevron; 'Enable Device Alarm' with a toggle switch turned on; 'Do Not Disturb' with a toggle switch turned off; 'Send App Notification' with a dropdown menu set to 'Admin' and a 'Notification Settings...' link; 'Send Email' with a dropdown menu set to 'None'; 'Send SMS' with a dropdown menu set to 'None'; and 'Trigger Action' with a dropdown menu set to 'None'. At the bottom is a green 'Save' button. Blue arrows point from text boxes on the right to specific elements: one to the 'Send App Notification' dropdown, one to the 'Notification Settings...' link, one to the 'Send Email' dropdown, one to the 'Send SMS' dropdown, and one to the 'Trigger Action' dropdown.

Send App Notification

Tap to select Admin to enable App push, select All, if desired for all members

Notification Settings (iOS only)

Tap to change notification tone, if desired

Send Email

Tap to select Admin to enable email notification, select All, if desired to send to all members

Send SMS

Tap to select Admin to enable limited text messages, select All, if desired to send to all members

Trigger Action

Tap to choose trigger actions (YoLink sirens, YoLink SpeakerHubs, scene)



App Functions: Smart - Automation

The Vibration Sensor can be set up as a condition in automation.

The screenshot shows the 'Automation' screen in an app. At the top is a green header with a back arrow, the title 'Automation', and a checkmark icon. Below this is the 'Name' field with the text 'vibration trigger siren'. A progress indicator '23/64' is visible. The 'When' section shows a 'Vibration Sensor' icon and the text 'Vibration Detected'. The 'Then' section has a 'Behavior' list with a plus icon, a trash icon, and a sort icon. One behavior is listed: '7104 Outdoor Siren Start Alarm'. Below the behaviors is the 'Working Time' section with the text 'Always Working'. At the bottom is the 'Advanced Settings' section with a downward arrow. Blue arrows point from text labels to these specific UI elements.

- Tap to save the settings
- Edit the name of the automation
- Tap to set a condition for the automation
- Add behavior
Tap to add a behavior
- Delete the behavior
- Tap to sort behaviors
- Always Working
Tap to set when the automation can be activated
- Advanced Settings
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.



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:

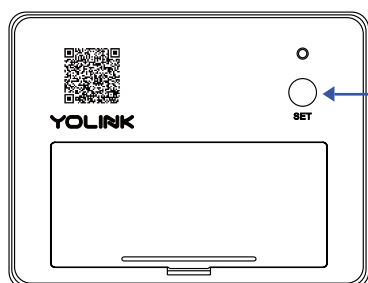
- The use of Control-D2D is entirely optional. It is more common to use the app's automation and scene settings to create desired behaviors, such as motion sensors turning on the lights automatically. Your application may require functionality during the loss of internet/WiFi, in which case Control-D2D 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.

N Control D2D, Continued

- While online, any paired behaviors as well as automation and scene settings (desired siren behaviors set in advance by you, such as the door sensor/siren 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.

The following instructions use pairing your Vibration Sensor with a YoLink Plug as an example, when the vibration is detected, then turn on the plug.

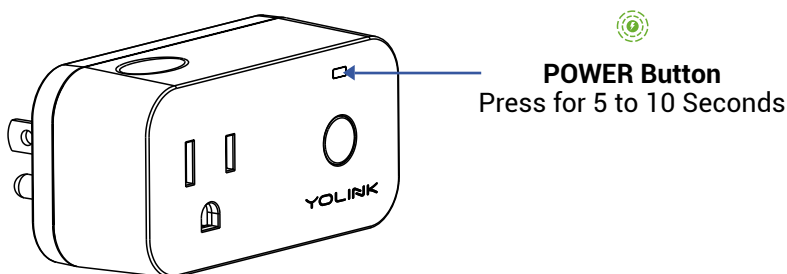
1. To configure your Vibration Sensor as a controller, open the door, press and hold the SET button for 5-10 seconds until the LED quickly blinks green, then, release the button.



 **SET Button**
Press for 5 to 10 Seconds

N Control D2D, Continued

2. To configure a YoLink Plug as the responder, turn on the plug, 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 vibration is detected, the plug will turn on.

Unpair your Vibration Sensor:

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

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



Control D2D, Continued



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 vibration sensor will no longer control the plug.



App & 3rd-Party Services

The YoLink Vibration Sensor works with IFTTT and Home Assistant.

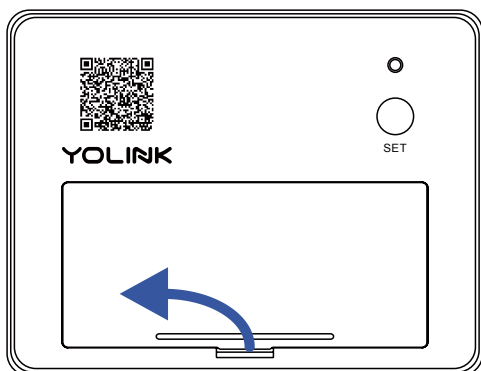
To set up 3rd-party integrations (IFTTT), in the app, go to Settings, Third-Party Services, and follow the instructions.

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

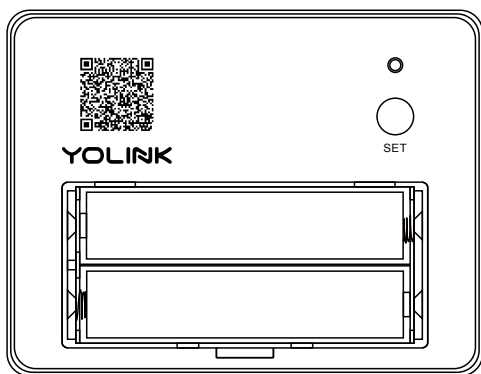
<https://www.home-assistant.io/integrations/yolink/>

P Battery Replacement

- 1 Remove the battery cover by gently prying with your fingertip or tool at the edge as shown.

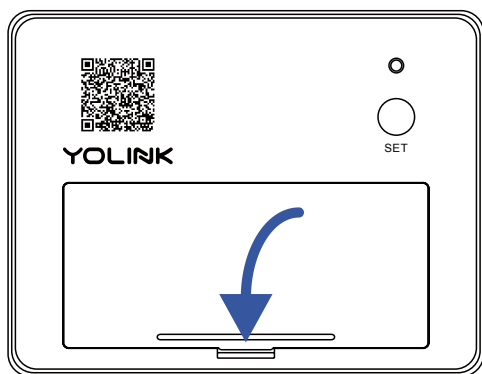
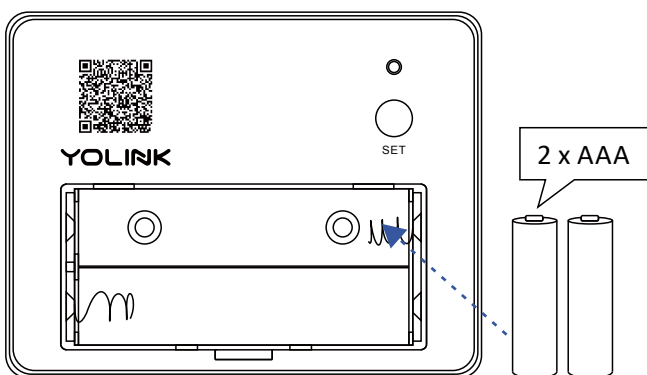


- 2 Remove the old batteries, and then press the SET button several times.



P Battery Replacement, Continued

- 3 Install two new alkaline non-rechargeable AAA batteries, and then close the battery cover.



- 4 Using the app, check the online status of the sensor and verify there is no low-battery indicator.



Do not mix old and new batteries



Factory Reset

Factory reset will erase device settings and restore it to factory default settings. Doing a factory reset will not remove the device from your account and it will not harm the device, or lose any data or require you to redo your automations, etc.

Instructions:

Hold the SET button down for 20-30 seconds, until the LED blinks red and green alternately. Then, release the button. (Holding the button down longer than 30 seconds will abort the factory reset operation)

Factory reset will be complete when the LED stops blinking.

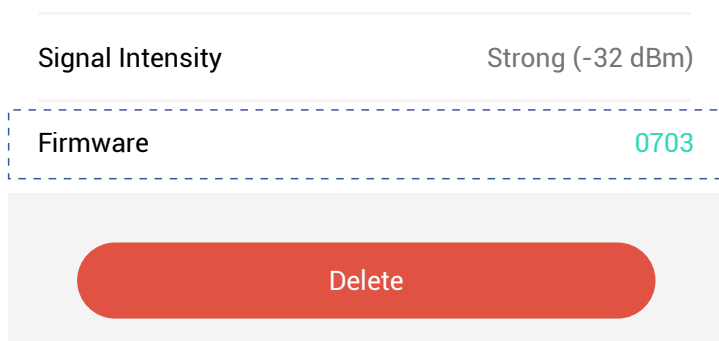


PLEASE NOTE: Only deleting a device from the app will remove it from your account. Factory reset will not delete the device from the app.

R Firmware Update

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.

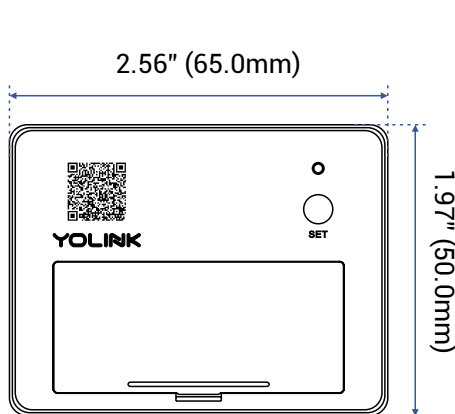


Specifications

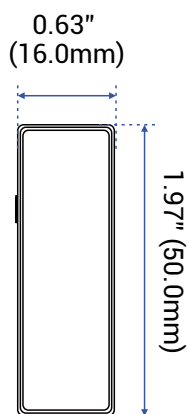
Voltage:	3VDC (2 - alkaline non-rechargeable AAA batteries)
Device Current Draw:	$\leq 135\text{mA}$ (operating), $\leq 15\mu\text{A}$ (standby)
Dimensions, Imperial (L x W x D):	2.56 x 1.97 x 0.69 inches
Dimensions, Metric (L x W x D):	65 x 50 x 16 mm
RF Protocol:	LoRa
Environment:	Temperature: -4°F-122°F (-20°C-50°C) (optimal for 5 year battery life: 32°F - 122°F (0°C- 50°C)) Humidity: $\leq 95\%$ non-condensing



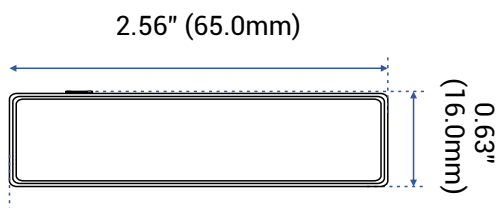
Specifications, Continued



FRONT



SIDE



TOP

T Troubleshooting

These troubleshooting suggestions assume the device has been successfully added to the app. If the device is not working correctly and it is not in the app, return to the Add the Vibration Sensor to the App section and double-check or re-do these steps.

A. Device can not be operated at all, and can not be operated manually via the SET button:

- 1) Ensure the device is turned on (See Power Up section, if needed).
- 2) Check batteries, verify proper installation.
- 3) Replace the batteries.

B. Device can be operated manually, but it is offline

- 1) Ensure the device is connected to the cloud, by pressing the SET button until the LED illuminates briefly.
- 2) Ensure the device is within range of the hub. If you are installing the device remotely from the hub, first place it near the hub to ensure it connects to the cloud via the hub. (Press the SET button briefly to force the device to attempt to reconnect with the cloud). If it is now online, the original location was out of range of the hub. Relocating the device, the hub, or adding an additional hub may be solutions. Contact us as needed for additional guidance.



Troubleshooting, Continued

C. If a Control-D2D-paired functionality is not working:

- 1) Review and re-do the pairing steps, as needed. You can unpair the devices and re-pair them.

D. Performing a factory reset can clear up some issues. Refer to page 25 for instructions. If the device remains non-operational, it may be defective. **Please contact us for assistance with replacing your YoLink product.**

E. Other issues, please contact us via the info on the last page of this guide.



Warnings

- Please install, operate and maintain the Vibration Sensor only as outlined in this manual. Improper use may damage the unit and/or void the warranty
- Use only new, name brand, alkaline non-rechargeable AA batteries
- Do not use rechargeable batteries
- Do not use zinc blend batteries
- Do not mix new and old batteries
- Do not puncture or damage batteries. Leakage can cause harm on skin contact, and is toxic if ingested
- Do not dispose of batteries in fire as they may explode! Please follow local battery disposal procedures
- Do not install or use the sensor outside of the temperature and humidity range listed in the Environmental section in Specifications, on page 27
- 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



Warnings, Continued

- Install or use this device only in clean environments. Extremely dusty or dirty environments may prevent the proper operation of this device, and will void the warranty
- If your Vibration Sensor gets 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 high temperatures and/or open flame
- 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
- To avoid damaging the device, if storing the device for an extended period, remove the batteries
- 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

2 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 2 years 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.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.



FCC Statement, Continued

- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

PRODUCT NAME:
VIBRATION SENSOR

PARTY:
YOSMART, INC.

TELEPHONE:
831-292-4831

MODEL NUMBER:
YS7201-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



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