

Door Sensor

YS7704-UC, YS7704-EC



Installation & User Guide

Revision Oct. 31, 2024

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

<https://www.yosmart.com/support/YS7704-UC>

Or by scanning the QR code:

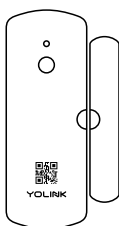


Download the most current version of the user guide by scanning the QR code:

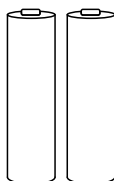


Your Door Sensor connects to the internet via a YoLink hub, and it does not connect directly to your WiFi or local network. In order for remote access to the device from the app, and for full functionality, a hub is required. This guide assumes the YoLink app has been installed on your smartphone, and a YoLink hub is installed and online (or your location, apartment, condo, etcetera, is already served by a YoLink wireless network).

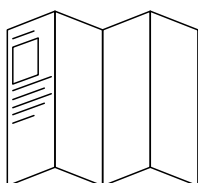
C In the Box



Door Sensor

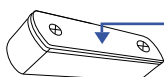


AAA Batteries (2) Installed

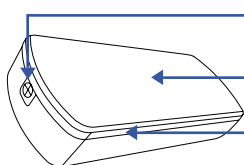


Quick Start Guide

D Get to Know Your Door Sensor



Double-sided Tape



Housing Screw

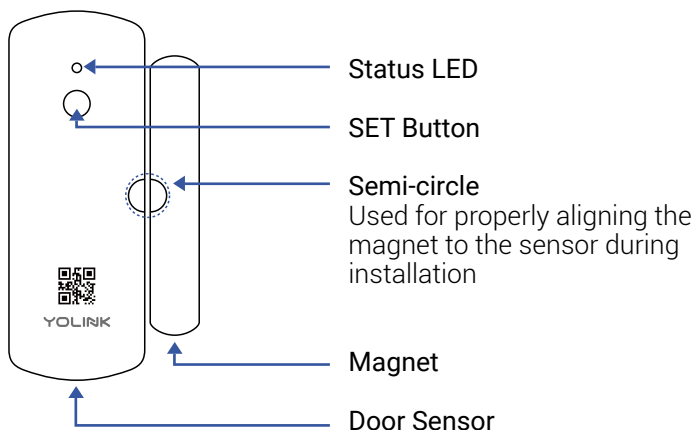
Double-sided Tape

Back Shell

Includes two AAA
non-rechargeable batteries

D

Get to Know Your Door Sensor, Continued



LED & Beep Behaviors



Blinking Red Once, then Green Once
Device turned on



Blinking Red And Green Alternately
Restoring to Factory Defaults



Blinking Green
Connecting to Cloud



Fast Blinking Green
Control-D2D Pairing in Progress



Slow Blinking Green
Updating



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; please replace the batteries

E 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.

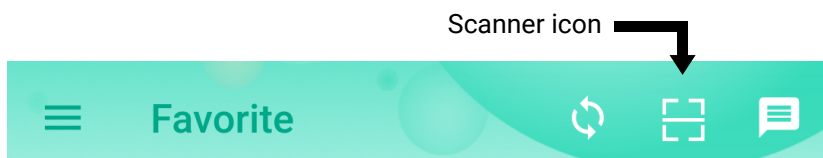
Log in to the app using your new username and password.

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.

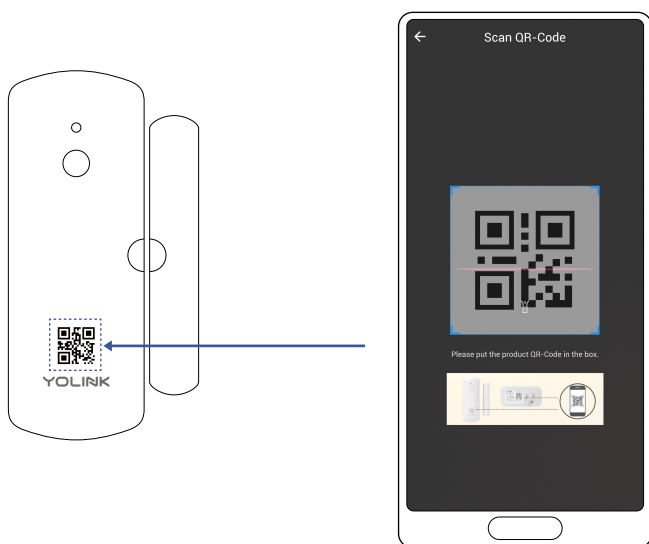


Add Your Door Sensor to the App

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.



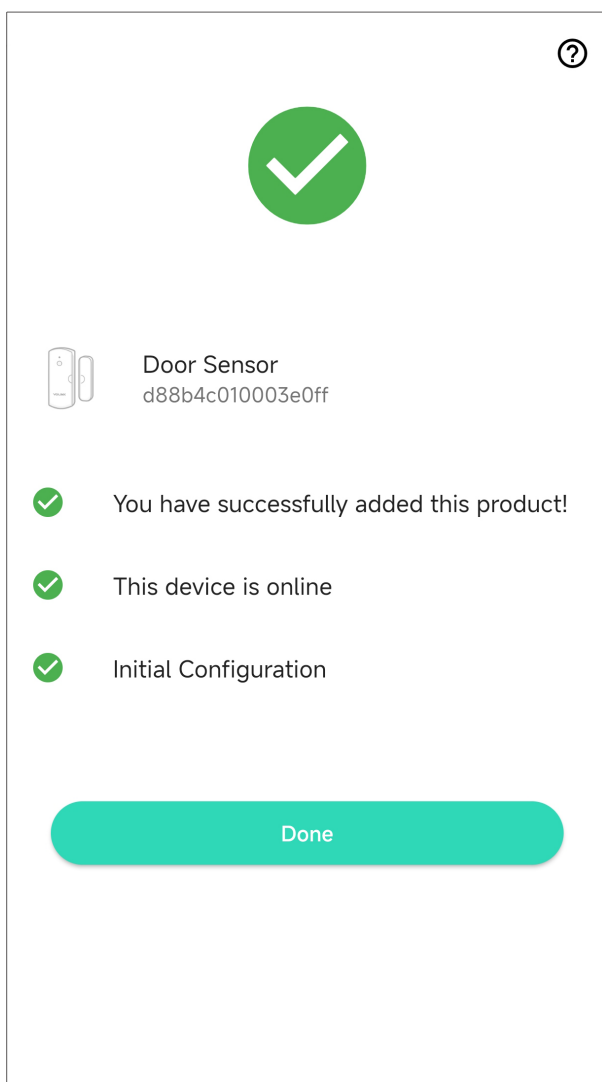
3. Hold the phone over the QR code so that the code appears in the viewfinder. If successful, the **Add Device** screen will be displayed.

F

Add Your Door Sensor to the App, Continued

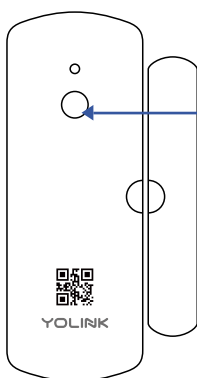
4. You can change the device name and assign it to a room later. Tap **Bind device**.

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





Power Up



**Press the SET button
briefly**

Observe the LED blinks
red then green

Door sensor basics

Before installing your new Door Sensor, it is best if you understand how it works. The Door Sensor is made up of two parts. The smaller part is referred to as the magnet, while the larger part is typically referred to as the sensor or door sensor. The larger part contains the batteries and the electronics, as well as a reed switch. When the magnet is near the sensor, its magnetic force causes the reed switch to close and signal the sensor that the door is closed.

The door sensor has a maximum distance between it and the magnet, while it will indicate the door is closed. This is often referred to as the “gap”. The Door Sensor has a maximum gap of around $\frac{3}{4}$ ” or around 19 millimeters. The door material, such as steel versus wood, can adversely impact this distance. Refer to Figure A. The sensor and magnet each have a semi-circle engraved into the housing. The optimal placement of magnet and sensor will result in the two semi-circles placed next to each other to form a circle. But the magnet can be placed on a higher, or lower, plane (or level), than the sensor, as shown in Figure B. Also, the magnet can be turned at an angle from the sensor, as shown in Figure C (90 degrees, as shown here, or less than 90 degrees, for angled or sloped molding). When determining the appropriate location, placement and orientation of the Door Sensor parts, you can view the status of the door sensor in the YoLink app,

H Installation, Continued

as well as use the sensor's LED indicator (which illuminates briefly when the door is opened) to check your installation.

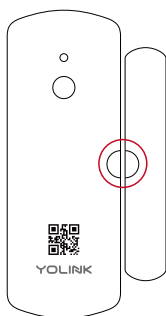
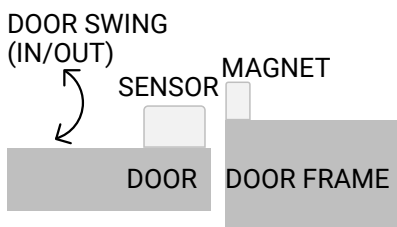
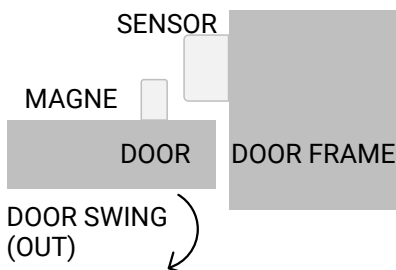


Figure A



(VIEWED FROM ABOVE/BELOW)

Figure B



(VIEWED FROM ABOVE/BELOW)

Figure C

Please note, the Door Sensor is intended for indoor use. Consider our Outdoor Contact Sensor for outdoor locations, such as swing gates. For garage doors, consider our Garage Door Sensor. For special applications, our Outdoor Contact Sensor can be used in conjunction with specialized contacts, such as chain link fence gate contacts.



Sensor location considerations

The Door Sensor can be used on many types of standard “man” doors, both swing and sliding type, sliding glass doors, windows, lids, hatches, cabinet and pantry doors, and even in or on drawers and boxes.

Before installing the Door Sensor, consider the following:

- The magnet can be on the door, or the sensor can be on the door.
The sensor and magnet can be installed upside-down or sideways; this will not effect the operation, as shown in Figure D.
- The Door Sensor should always be installed on the indoor and “secure” side of the door (that is on the locked or private side of the door, which should not be subjected to tampering or disabling by an intruder, etc.).
- Avoid locations where the door sensor will be subjected to physical damage, such as on the bottom of the door (where it might be kicked) or near the handle (where is might be struck by a hand or object).

H Installation, Continued

- With windows and sliding glass or French doors, consider the sliding door or leaf that is fixed, and the one that is moveable, and make sure your sensor is not being installed where it will not allow the door or window to slide fully open, as shown in Figure E.
- Do not place the door sensor too close to the magnet. As materials can shrink or expand with temperature changes, the distance between the two pieces might change later, too, resulting in the two parts colliding.

Use care to not place your sensor and

- magnet too far apart. If you have placed the sensor and magnet at their absolute farthest distance from each other, expansion or contraction of the door and frame due to temperature or humidity changes could result in your Door Sensor indicating the door/window is open when it is not. Also, doors or windows with too much play (movement while in the closed position), can contribute to false-open indications.

Generally avoid placing the sensor on the hinge side of a door. While the sensor can be

- made to work at these locations, the door itself might be able to be opened significantly before the sensor indicates the door is open.

H Installation, Continued

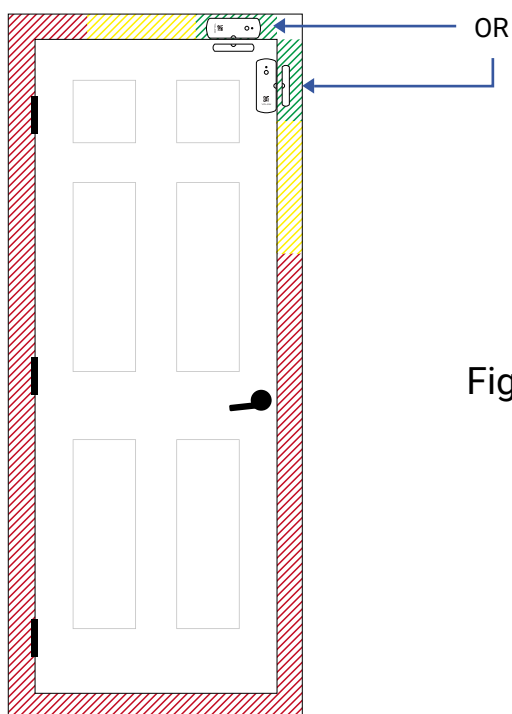


Figure D

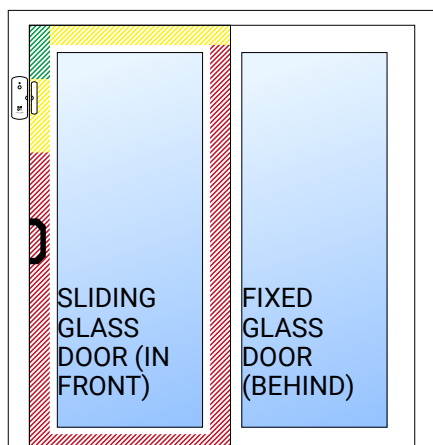
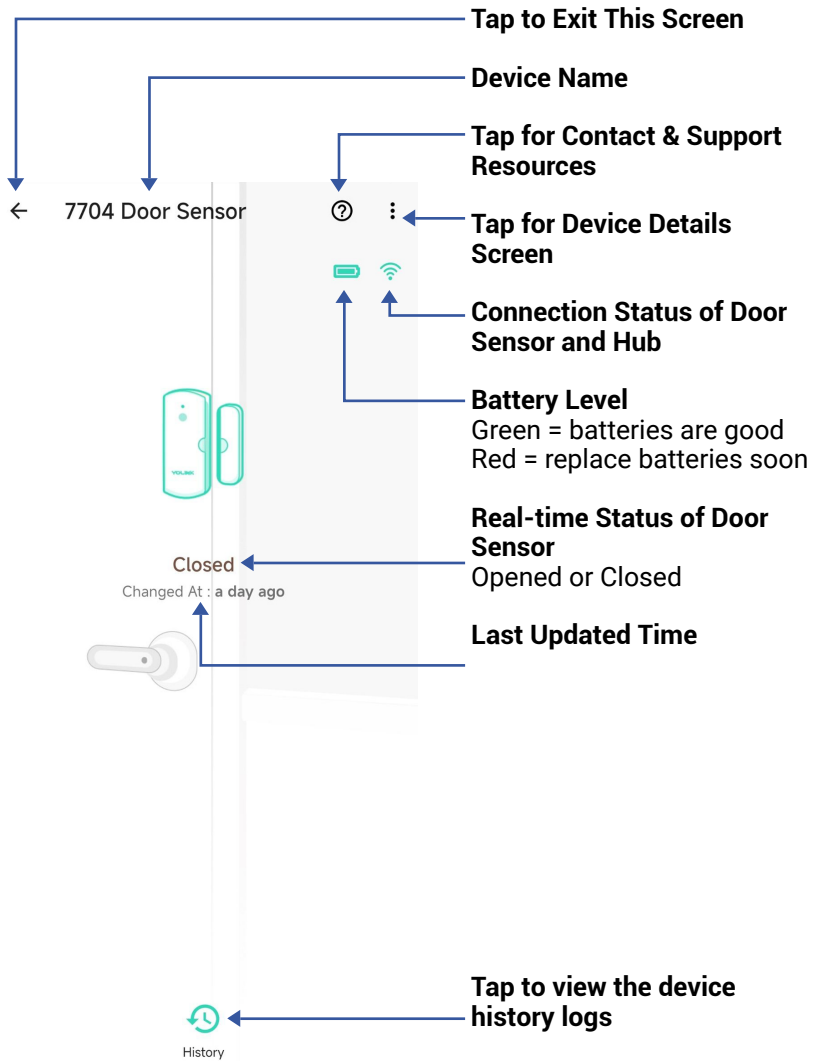


Figure E



App Functions: Device Screen

In the app, tap on your Door Sensor icon. Your 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 Door Sensor **Details** screen. Your Door Sensor screen should be similar to the one shown below.

← Details ?

TypeDoor Sensor

Name7704 Door Sensor >

Room1.27 >

Favorite

Will show in favorite screen

History

Get device logs

Alert

Door is opened or closed >

Open Reminder

Alert after left open

3 min >

Alarm Strategy

door sensor >

You will be notified according to selected alarm strategy when device alerts

View your alarm strategies

State

Closed

Other

Model

YS7704-UC

Device EUI

d88b4c020004a637

Device Type

Device Name
(Tap to Edit)

Room
(Tap to Edit)

Favorite
(Red if Favorite, Tap to Edit)

Device alarm history
Tap to view device history

Alert Settings
Tap to enable or disable alerts

Open Reminder
Tap to edit open reminder and continuous alarm settings

Alarm Strategy
Tap to edit the sensor's Alarm Strategy

State

15



App Functions: Device Details Screen, Continued

←

Details

?

Alert

Door is opened or closed >

Open Reminder

Alert after left open

3 min >

Alarm Strategy

door sensor >

You will be notified according to selected alarm strategy when device alerts

View your alarm strategies

State

Closed

Other


Model

YS7704-UC

Device EUI

d88b4c020004a637


SN

F770F67540  >

Signal Intensity

Strong (~9 dBm) >

Battery



Firmware

041E

Delete

Model Number

Device EUI
Unique Identifier Number

Device Serial Number

Signal Intensity
(From YoLink Hub)

Firmware Revision
(Refer to page 27)

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



App Functions: Smart - Automation

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

The screenshot shows the 'Automation' app interface. At the top is a green header bar with a back arrow, the title 'Automation', and a checkmark icon. Below this is the 'Name' field, currently set to 'Front Door'. The main area is divided into 'When' and 'Then' sections. The 'When' section shows a condition: '7704 Door Sensor' with the state 'Door Open'. The 'Then' section shows a behavior: '7104 Outdoor Siren' with the action 'Start Alarm'. Below the 'Then' section is the 'Working Time' section, currently set to 'Always Working'. At the bottom is the 'Advanced Settings' section. Annotations with arrows point to various elements: 'Tap to save the settings' points to the checkmark icon; 'Edit the name of the automation' points to the 'Name' field; 'Tap to set a condition for the automation' points to the 'When' section; 'Add behavior' points to the plus icon; 'Tap to add a behavior' points to the plus icon; 'Delete the behavior' points to the trash icon; 'Tap to sort behaviors' points to the sort icon; 'Always Working' points to the 'Always Working' text; and 'Advanced Settings' points to the 'Advanced Settings' section.

Automation

Name
Front Door

10/64

When

7704 Door Sensor Door Open

Then

Behavior

7104 Outdoor Siren Start Alarm

Working Time

Always Working

Advanced Settings

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.



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.

<

Alarm Strategy

?

Name

Always >

Related Devices

1 >

🔔

Enable Device Alarm

☒

Do Not Disturb

☐

📄

Send App Notification

Admin ▾

Notification Settings ...

Will send App Notification to the administrator of this home when device alerts

✉

Send Email

None ▾

Will not send Email when device alerts

💬

Send SMS

None ▾

Will not send SMS when device alerts

🔔

Trigger Action

None >

Have not set any action

Save

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 settings 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'; 'Notification Settings' with a link to 'Notification Settings ...'; '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 callout arrows point from the text descriptions on the right to the corresponding settings on the screen.

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 (subscribe required-starter or standard plan), if desired to send to all members

Trigger Action

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

M 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:

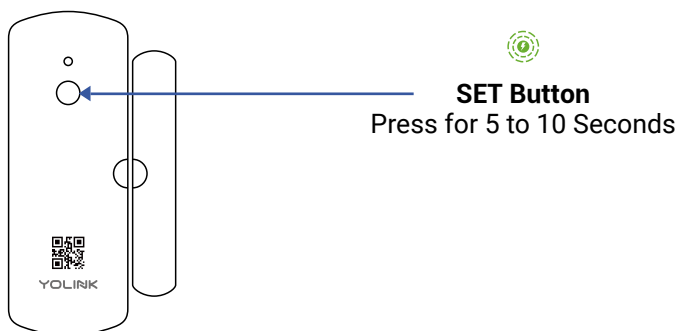
- The use of Control-D2D is entirely optional. It is more common to use the app’s automation and scene settings to create desired behaviors, such as motion sensors turning on the lights automatically. Your application may require functionality during the loss of internet/WiFi, in which case Control-D2D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

M 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.

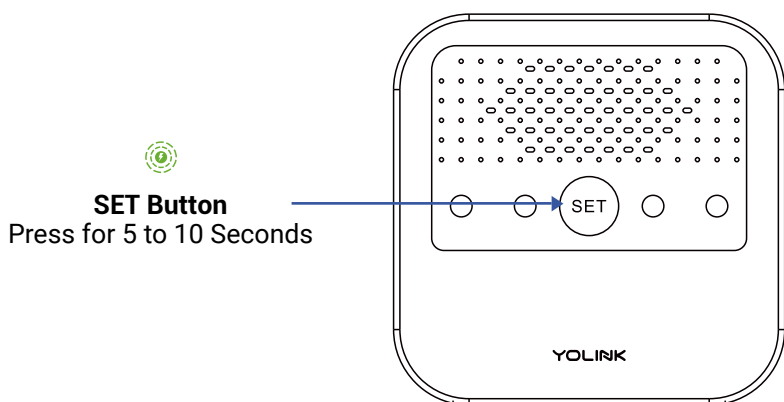
The following instructions use pairing your Door Sensor with a YoLink Siren as an example, when door is open, then start alarm.

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.



M Control D2D, Continued

2. To configure a YoLink Siren as the responder, press and hold the SET 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 siren will start alarm.

Unpair your Door Sensor:

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.

M Control D2D, Continued

2. On the Siren, press and hold the SET 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 siren.

N App & 3rd-Party Services

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

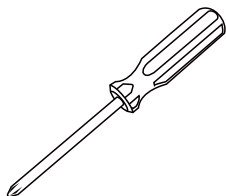
To set up 3rd-party integrations (Alexa, Google and IFTTT), in the app, go to Settings, Third-Party Services, and follow the instructions.

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

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

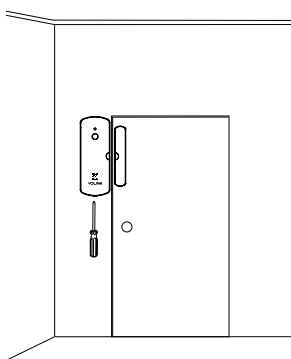
0 Battery Replacement

Tools Required :

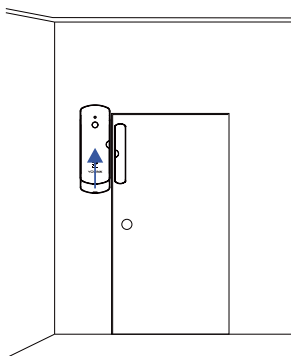


Small Phillips Screwdriver

- 1 Remove the housing screw, carefully place it aside.

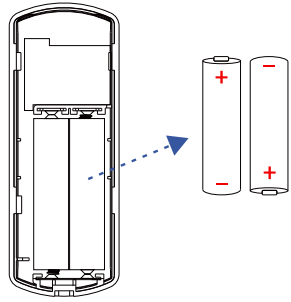


- 2 Push the sensor upward and then remove the sensor.

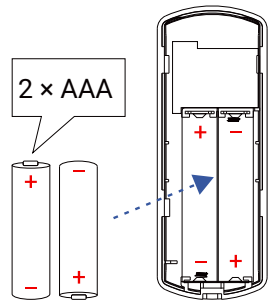


0 Battery Replacement, Continued

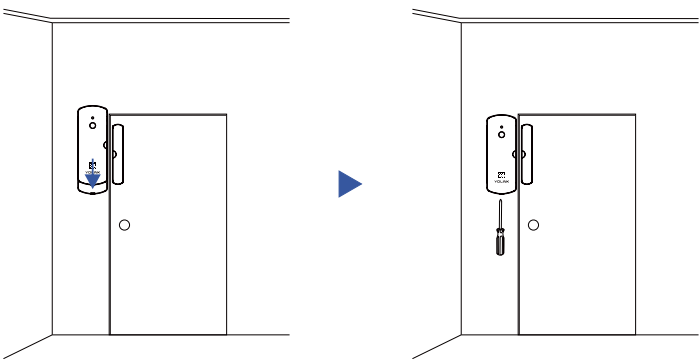
- 3 Remove the old batteries.



- 4 Observing polarity, insert two new AAA batteries.



- 5 Reassemble the sensor and then tighten the screw.



- 6 Using the app, verify the sensor is online and battery with full charge.

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.



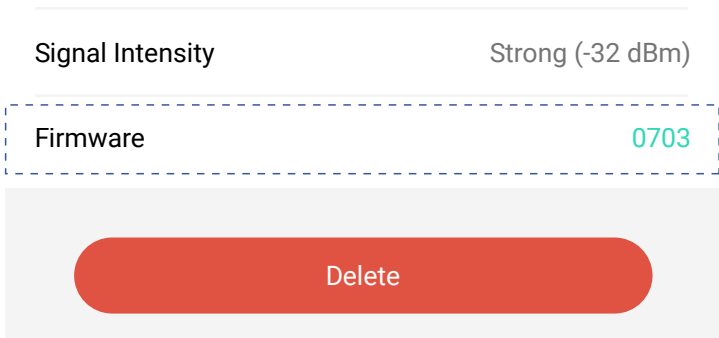
PLEASE NOTE: Only deleting a device from the app will remove it from your account. Factory reset will not delete the device from the app.



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.

R Specifications

Controller:	Semtech® LoRa® RF Module YL09 microcontroller with 32-Bit RISC processor
-------------	--

Voltage:	3V DC (2 - alkaline non-rechargeable AAA batteries)
----------	---

Magnet Gap:	≤ 0.4 inch
-------------	-----------------

Dimensions, Imperial (L x W x D):	Door Sensor: 3.27 x 1.22 x 0.61 inches
-----------------------------------	---

Magnet: 2.48 x 0.45 x 0.53 inches

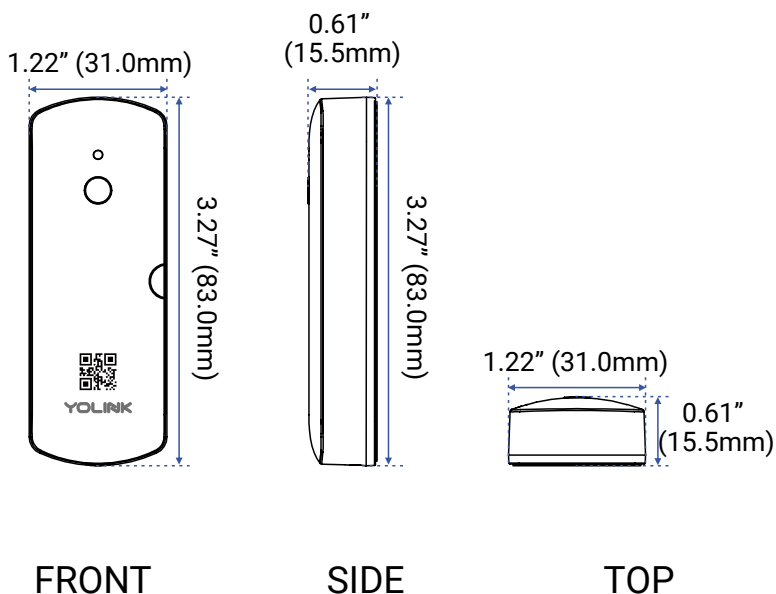
Dimensions, Metric (L x W x D):	Door Sensor: 83 x 31 x 15.5 mm
---------------------------------	-----------------------------------

Magnet: 63 x 11.5 x 13.5 mm

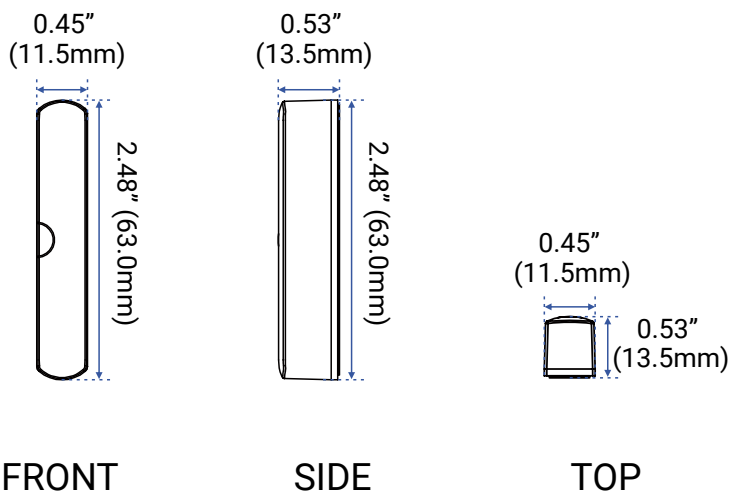
Environment:	Temperature: 32°F-122°F (0°C-50°C)
	Humidity: $\leq 95\%$ non-condensing

R Specifications, Continued

Door Sensor.



Magnet:



S 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 Door 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.



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 26 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.

T Warnings

- Please install, operate and maintain the Door 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 AAA 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 28
- If your Door 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



Warnings, Continued

- 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.

V 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:
DOOR SENSOR

PARTY:
YOSMART, INC.

TELEPHONE:
831-292-4831

MODEL NUMBER:
YS7704-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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