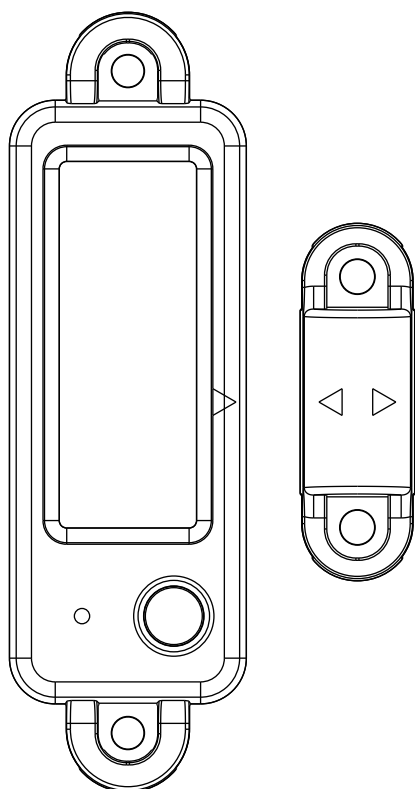




Solar Door Sensor

YS7717-UC



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

<https://www.yosmart.com/support/YS7717-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

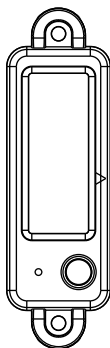


Your Solar Door Sensor connects to the internet via a YoLink hub, and it does not connect directly to your WiFi or local network. In order for remote access to the device from the app, and for full functionality, a hub is required.

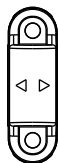
This guide assumes the YoLink app has been installed on your smartphone, and a YoLink hub is installed and online (or your location, apartment, condo, etcetera, is already served by a YoLink wireless network).



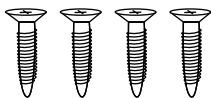
In the Box



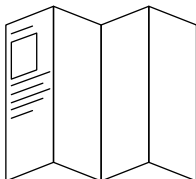
Solar Door Sensor



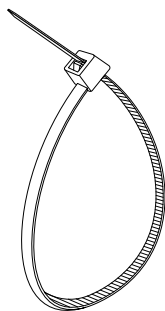
Magnet



Self-tapping Screw (4)



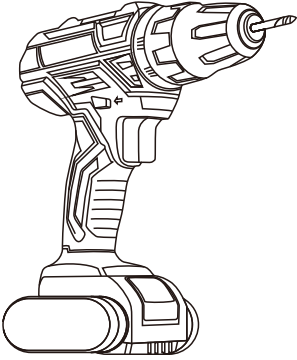
Quick Start Guide



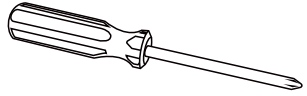
Cable Tie

D Required Items

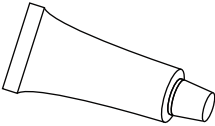
Items You May Need:



Drill & Drill Bits



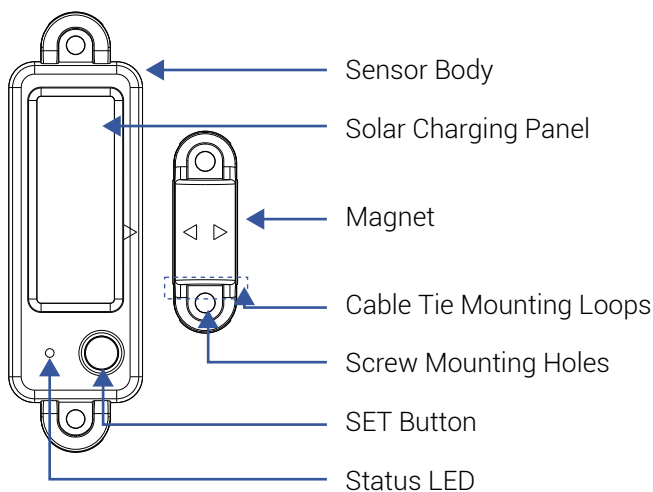
Medium Phillips Screwdriver



Mounting Adhesive

E

Get to Know Your Sensor



LED Behaviors



Blinking Red Once
Alert Mode (Opened or Closed)



Blinking Green
Connecting to Cloud



Fast Blinking Green
Control-D2D Pairing in Progress



Slow Blinking Green
Updating



Fast Blinking Red
Control-D2D Unpairing in Progress



Blinking Red And Green Alternately
Restoring to Factory Default



Fast Blinking Red 5 Times when pressing the SET Button
Battery Power Is Low; Please Place the Device in Direct Sunlight to Recharge via the Solar Panel



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.

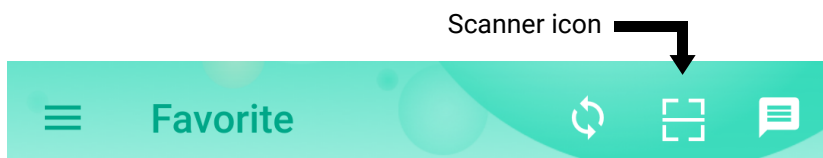
Log in to the app using your new username and password.

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.

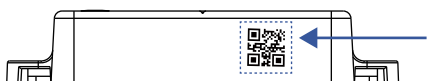


Add Your Solar Door Sensor to the App

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.



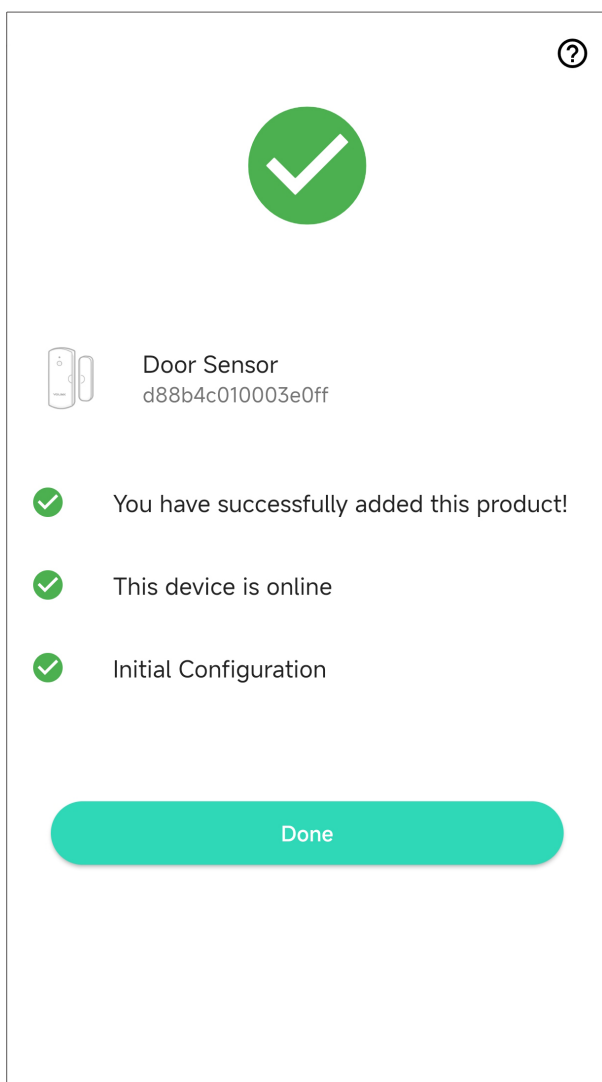
3. Hold the phone over the QR code so that the code appears in the viewfinder. If successful, the **Add Device** screen will be displayed.



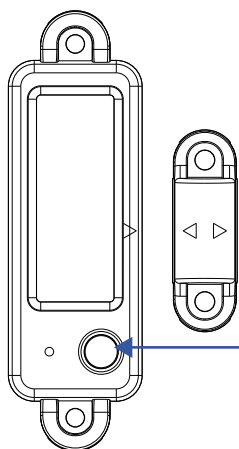
Add Your Solar Door Sensor to the App, Continued

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**.



H Power Up



Press the SET button briefly, long enough for the LED to illuminate, blinking red then green



Installation

Solar Door Sensor Basics

Before installing your new Solar Door Sensor, it is important to understand how it works.

Device Components

The Solar Door Sensor consists of two primary parts:

- 1. The Main Sensor Body:** This is the larger unit that houses the core electronics and an internal reed switch. Unlike traditional sensors, it does not use replaceable batteries; instead, it features a built-in Solar Charging Panel that harvests energy from ambient light to keep the device powered.
- 2. The Magnet:** This is the smaller, separate piece. Its sole job is to trigger the internal reed switch when the two parts are brought close together.

How it Works: The "Gap"

The sensor determines if a gate is "Open" or "Closed" based on the proximity of the magnet to the internal reed switch.

The Threshold: To indicate a "Closed" status, the magnet must be within 25 millimeters of the sensor body. This distance is commonly known as the "gap."

Material Interference: Be aware that mounting the sensor on metal surfaces (like steel gates) can slightly reduce this maximum gap distance compared to wood or vinyl.



Installation, Continued

Installation Tips

In this guide, we refer to the object you are monitoring (door, gate, lid, etc.) simply as a "gate."

Alignment: When the gate is closed, ensure the magnet is aligned with the sensor body within the 25mm limit.

Verification: You can confirm a successful installation by checking the YoLink app or watching the LED indicator on the sensor, which flashes briefly whenever the gate opens or closes.

Light Exposure: For optimal performance, ensure the solar panel on the main body is positioned to receive adequate ambient or direct light.

Sensor Location Considerations

The Solar Door Sensor is specifically designed for outdoor environments, such as gates, fences, sheds, and pool entries. Because it relies on solar energy, the main body **must be installed in a location with access to ambient or direct sunlight.**

Before starting the installation, ensure your sensor is added to the YoLink app and is online. This allows you to verify the "Open/Closed" status in real-time as you test the placement.



Installation, Continued

Important Placement Tips

- **Solar Exposure:** The main sensor body must be mounted where the solar panel can receive light. Avoid deep shadows or placing the panel directly under heavy overhangs.
- **The "Secure" Side:** Always install the sensor on the private/locked side of the gate to prevent tampering or disabling by intruders.
- **The "Gap" Safety Zone:** Do not mount the magnet touching the sensor body. Leave a small buffer (around 5mm) to account for gate "play" or the natural expansion or contraction of materials due to weather changes.
- **Avoid False Opens:** If the magnet is placed at the absolute edge of its 25mm range, wind or gate movement may cause "false open alerts. Aim for a tighter alignment when the gate is fully closed.



Installation, Continued

Pre-installing & Testing

Before permanent mounting, we recommend a "dry run" to test the signal and magnetic alignment.

1. Temporary Positioning: Use painter's tape to hold the sensor body and magnet in the proposed locations.

2. Observe the LED: With the gate closed, move the magnet toward the sensor body. The LED indicator will flash briefly when the internal reed switch detects the magnet. It will flash again when the gate is opened.

3. Check the App: Verify that the YoLink app accurately reflects the "Closed" status when the gate is shut.

Installation Options

Once you are satisfied with the placement, choose the mounting method that best suits your gate material.

1. Screw Mounting (Included)

Best for wood fences or flat surfaces. Use the 4 provided screws (2 for the sensor body, 2 for the magnet) to secure the components directly to the gate and frame.



Installation, Continued

2. Cable Tie Mounting (Included)

Best for poles, bars, or chain-link fences. Thread the 4 provided cable ties through the mounting loops on the sensor body and magnet. Wrap them around the post and pull tight. Trim the excess tie for a clean finish.

3. Mounting Adhesive (Optional / Not Included)

Best for metal, glass, or stone where drilling is not preferred. You may use a high-quality outdoor-rated mounting adhesive (no-drill glue).

Note: Due to the short shelf life of industrial adhesives, we do not include this in the package. If choosing this method, ensure the surface is clean and dry, and follow the adhesive instructions regarding cure time before operating the gate.

Final Verification

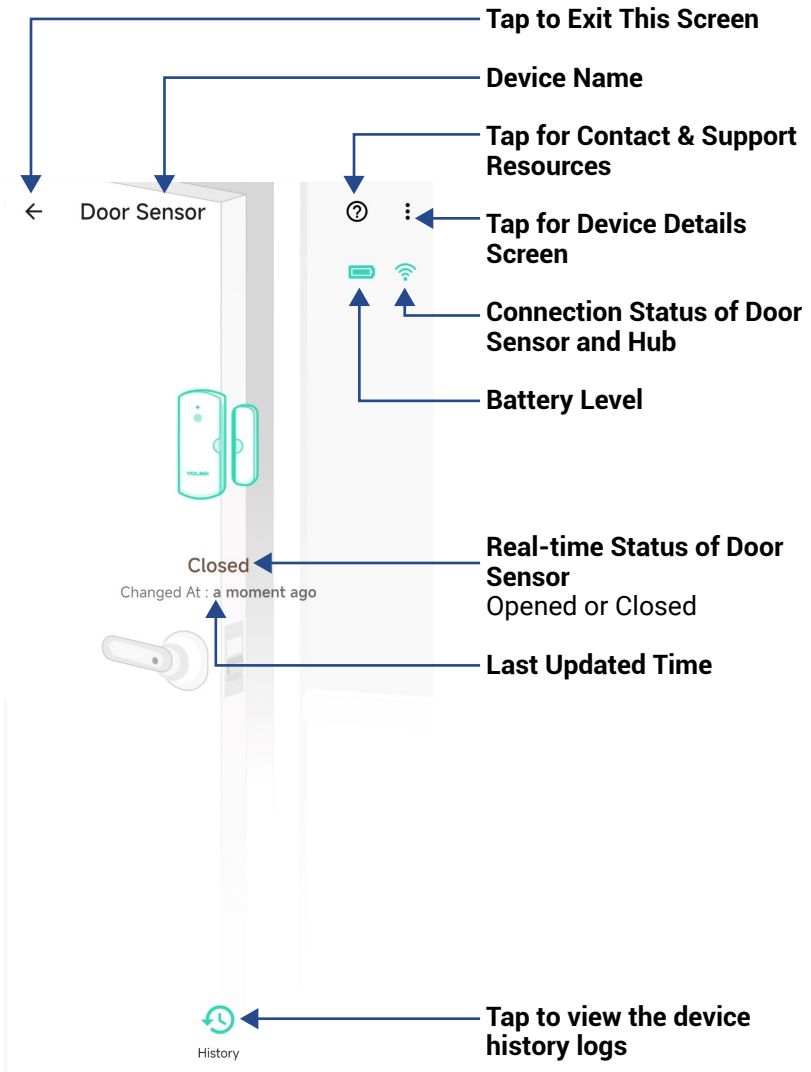
Clean the Panel: Ensure the solar panel is free of dust or protective film to maximize charging efficiency.

Test Cycle: Open and close the gate one final time while watching the app to ensure consistent reporting.



App Functions: Device Screen

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

The screenshot shows the 'Details' screen for a 'Door Sensor'. The header is teal with a back arrow, the title 'Details', and a help icon. The screen lists various settings and status information for the device, with blue lines pointing to specific elements and their functions.

Field	Value	Annotation
Type	Door Sensor	Device Type
Name	Door Sensor >	Device Name (Tap to Edit)
Room	7717 >	Room (Tap to Edit)
Favorite	Will show in favorite screen	Favorite (Red if Favorite, Tap to Edit)
History	Get device activity logs >	Device alarm history (Tap to view device history)
Alert	Don't Alert >	Alert Settings (Tap to enable or disable alerts)
Open Reminder	Alert after left open 20 sec >	Open Reminder (Tap to edit open reminder and continuous alarm settings)
Alarm Strategy	Disabled >	Alarm Strategy (Tap to edit the sensor's Alarm Strategy)
State	Opened	State
Model	YS7717-UC	

Other



App Functions: Device Details Screen, Continued

Details

Alarm Strategy

Disabled >

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

[View your alarm strategies](#)

State

Opened

Other

Model

YS7717-UC

Device EUI

d88b4c030000dfc6

SN

99C17592DA

Signal Intensity

Strong (-54 dBm)

Battery

Firmware

1701
1703 ready now.

Delete

Model Number

Device EUI
Unique Identifier Number

Device Serial Number

Signal Intensity
(From YoLink Hub)

Firmware Revision
(Refer to page 31)

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



App Functions: Smart - Automation

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

The screenshot shows the 'Automation' app interface with several annotations:

- Automation**: The title bar at the top.
- Tap to save the settings**: Points to the checkmark icon in the top right corner.
- Edit the name of the automation**: Points to the 'Name' field, which currently displays 'Front Door'.
- Tap to set a condition for the automation**: Points to the 'When' section, which shows a 'Door Sensor' icon and the text 'Door Open'.
- Add behavior**: Points to the plus sign icon in the 'Behavior' section.
- Tap to add a behavior**: Points to the plus sign icon in the 'Behavior' section.
- Delete the behavior**: Points to the red trash can icon in the 'Behavior' section.
- Tap to sort behaviors**: Points to the sort icon (three horizontal lines with an arrow) in the 'Behavior' section.
- Always Working**: Points to the 'Working Time' section, which currently displays 'Always Working'.
- Tap to set when the automation can be activated**: Points to the 'Working Time' section.
- Advanced Settings**: Points to the 'Advanced Settings' section at the bottom.
- Tap to edit advanced automation and logging settings**: Points to the 'Advanced Settings' section.

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.

The screenshot shows the 'Alarm Strategy' settings screen. The header is green with a back arrow, a question mark icon, and the title 'Alarm Strategy'. Below the header, there 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 that is turned on; 'Do Not Disturb' with a toggle switch that is turned off; 'Send App Notification' with a value of 'Admin' and a dropdown arrow, followed by a link 'Notification Settings ...' and a description 'Will send App Notification to the administrator of this home when device alerts'; 'Send Email' with a value of 'None' and a dropdown arrow, followed by a description 'Will not send Email when device alerts'; 'Send SMS' with a value of 'None' and a dropdown arrow, followed by a description 'Will not send SMS when device alerts'; and 'Trigger Action' with a value of 'None' and a chevron, followed by a description 'Have not set any action'. At the bottom is a green 'Save' button. Annotations with arrows point to the question mark icon, the 'Always' value, the '1' value, the 'Enable Device Alarm' toggle, and 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' screen with a teal header. The screen contains several settings sections: 'Name' (Always >), 'Related Devices' (1 >), 'Enable Device Alarm' (toggle on), 'Do Not Disturb' (toggle off), 'Send App Notification' (Admin >), 'Notification Settings' (iOS only) (Will send App Notification to the administrator of this home when device alerts), 'Send Email' (None >), 'Send SMS' (None >), and 'Trigger Action' (None >). A green 'Save' button is at the bottom. Blue arrows point from text boxes on the right to specific settings: 'Send App Notification' to the 'Admin' dropdown, 'Notification Settings (iOS only)' to the 'Notification Settings' section, 'Send Email' to the 'None' dropdown, 'Send SMS' to the 'None' dropdown, and 'Trigger Action' to the 'None' 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 (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)



App & 3rd-Party Services

The YoLink Solar 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/>



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.

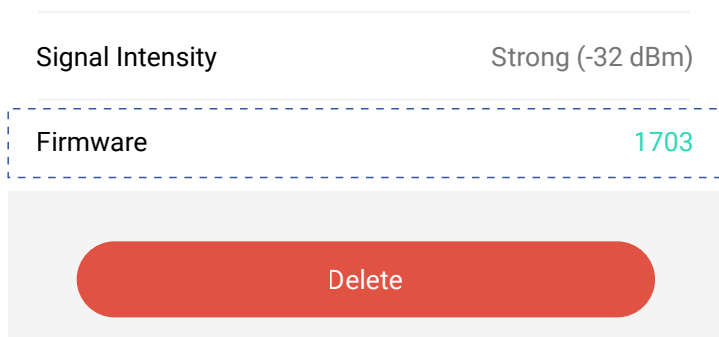


PLEASE NOTE: Only deleting a device from the app will remove it from your account. Factory reset will not delete the device from the app.

P 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

Power:	Hybrid Layer Capacitor + Solar Charging
--------	--

Operating Environment:	Outdoor Use Only
------------------------	------------------

Device Current Draw:	$\leq 135\text{mA}$ (operating), $\leq 20\mu\text{A}$ (standby)
----------------------	--

Dimensions, Imperial (L x W x D):	Solar Door Sensor: 4.02 x 1.22 x 0.76 inches Magnet: 1.84 x 0.59 x 0.54 inches
--------------------------------------	---

Dimensions, Metric (L x W x D):	Solar Door Sensor: 102 x 30.9 x 19.2 mm Magnet: 46.8 x 15 x 13.8 mm
------------------------------------	--

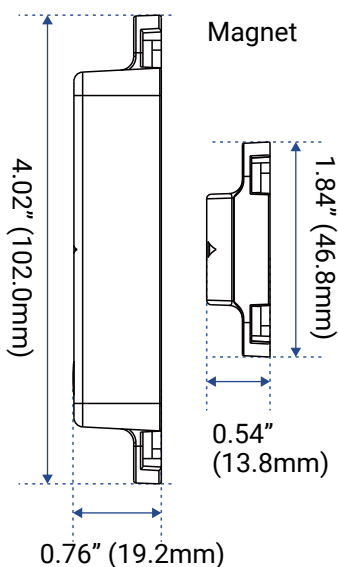
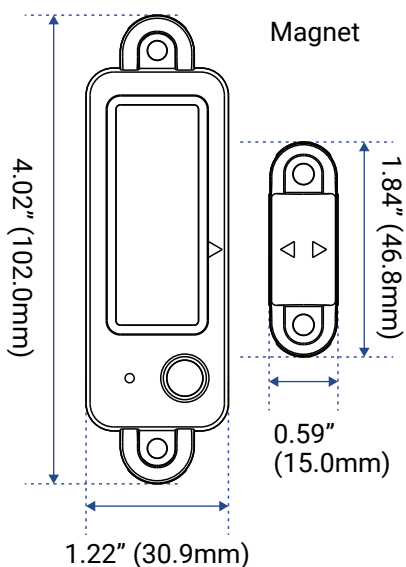
Working Temperature:	-30°C - 60°C (-22°F - 122°F)
----------------------	---------------------------------

Working Humidity:	0% - 100%RH
-------------------	-------------

Q Specifications, Continued

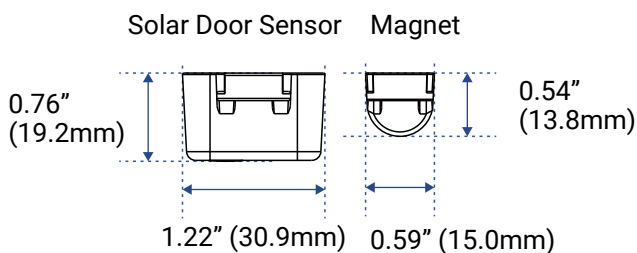
Solar Door Sensor

Solar Door Sensor



FRONT

SIDE



TOP

Warnings

- Please install, operate, and maintain the Solar Door Sensor only as outlined in this manual. Improper use may damage the unit and/or void the warranty.
- Environmental Limits: Do not install or use the sensor outside of the temperature and humidity range listed in the Specifications section of this manual.
- Solar Charging Requirement: This device is designed for outdoor use where it has access to ambient or direct light. Do not install the sensor in dark, indoor, or windowless environments, as the internal power source will not recharge, leading to device failure.
- Cleaning & Maintenance: If your Solar Door Sensor gets dirty, please clean it by wiping it down with a clean, dry cloth. Do not use strong chemicals, detergents, or abrasive cleaners, which may discolor or damage the exterior, cloud the solar panel, or damage the internal electronics, voiding the warranty.
- Physical Protection: 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.

R Warnings, Continued

- **Weather Precautions:** While the unit is rated for outdoor use, do not install it in low-lying areas or "pockets" where it may be submerged in standing water during heavy rain.
- **Unauthorized Service:** Please contact Customer Service before attempting to repair, disassemble, or modify the device. Any unauthorized tampering, disassembly, or modification can void the warranty and permanently damage the device.
- **Magnet Safety:** Keep the magnet out of reach of children to avoid choking hazards. Keep the magnet away from sensitive electronic equipment (such as magnetic storage media) to prevent damage.

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:
SOLAR DOOR SENSOR

PARTY:
YOSMART, INC.

TELEPHONE:
831-292-4831

MODEL NUMBER:
YS7717-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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