resideo L2 WiFi Water Sensor and Switch Installation Guide

L2 WiFi Water Sensor and Switch Installation Guide

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Contents

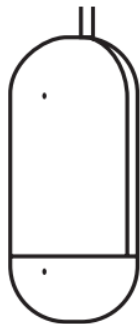## Included in Box

L2 WiFi Water Sensor and Switch

Cable Sensor

Wire Nuts (5)

Tools you will need

Home Wi-Fi Password

Tools you may need

Phillips #2 Screwdriver
Flathead 1/8" Screwdriver

Drill

Wire Stripper

Before Installation

1. Read these instructions carefully. Failure to follow instructions can damage the product or cause a hazardous condition.
2. Check the product information to see if product is suitable for your application.
3. Installer must be a trained, experienced service technician.
4. After completing installation, use these instructions to verify the product operation.

Download App

1. Download the Reside app onto your mobile device.

2. Launch the app and sign up for an account. Select L2 WiFi Water Sensor and Switch from the device **list.**

Note: If you already have an account, tap the add button and select your device from the list.
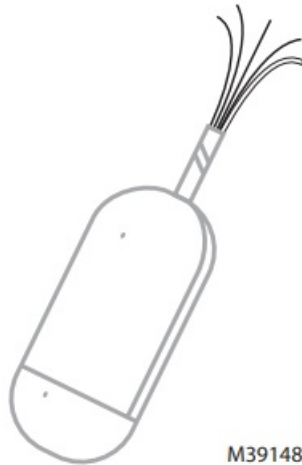
Connect to App

Follow instructions in app to complete setup.

Installation

Wire Device

L2 WiFi Water Sensor and Switch can be wired to 24V equipment, so that when water is sensed, the sensor either opens or closes a circuit. Typical applications include preventing HVAC condensation pan overflow, turning on water pump when water is sensed, etc.
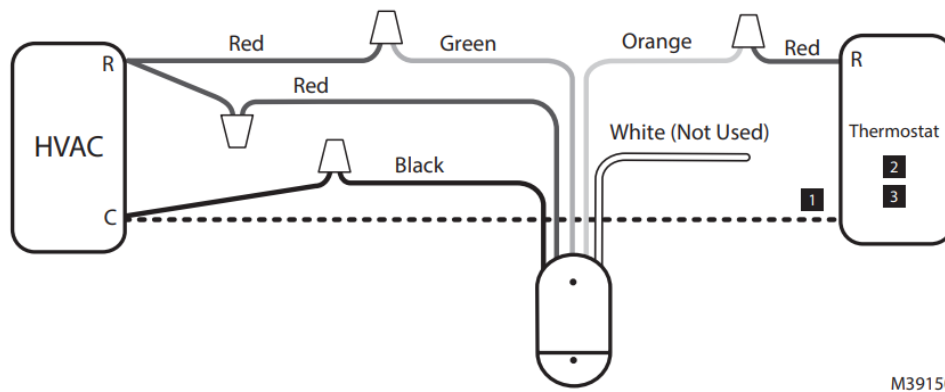

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Connect wiring as shown in the following wiring diagram. For additional diagrams, scan the QR code at the right. Wires may be extended if needed using provided wiring nuts.

Wiring Functions

Wires	Color	Description	Wire Function
M39149	Red	24V Power Supply	Device Supply
	Black	Power Supply GND	Device Supply
	White	Normally Open	Dry Contact
	Orange	Normally Closed	Dry Contact
	Green	Common	Dry Contact

Wiring Example

L2 locks out heating/cooling when wet.

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1. C wire is optional or not used on some thermostats.
2. The W, Y, G, etc. wires match as normal from thermostat to HVAC.
3. If display powered by C, thermostat will be blank during lockout. If thermoset is WiFi it will not be accessible on app during lockout.
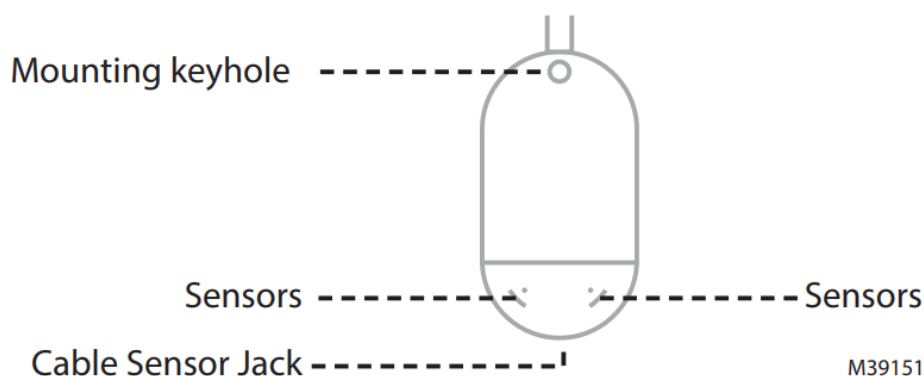
Note: Use caution if locking out heating in locations in which pipes could freeze.
For More Application Examples… Go to:
https://customer.resideo.com/resources/tetillid/TechLitDocuments/33-00000S/33-00631EFS.pdf

Water Sensor and Switch Diagram

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Placement and Sensing
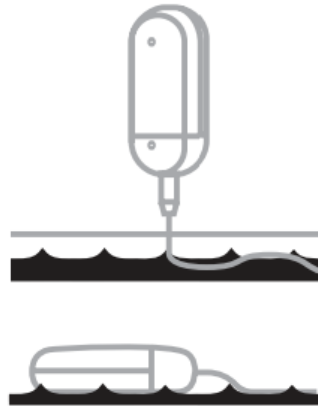
ⓘ Do not submerge sensor in water

Wall Mounting
Device can be installed on a wall while using the optional cable sensor.

Floor Placement
Device can be placed on the floor using the on-device water sensing contacts and the optional cable sensor.

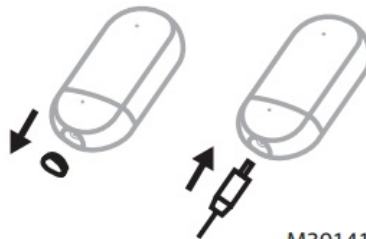**Note:** For WiFi operation, device cannot be mounted inside a metal box.

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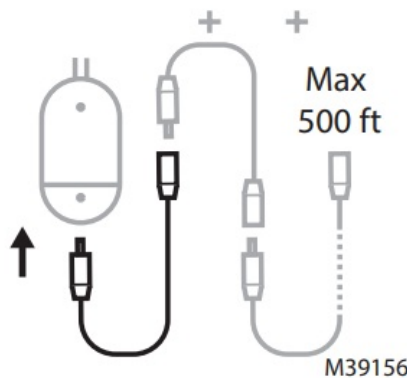**Placement and Sensing Continued…**
Optional Cable Sensor
To install the cable sensor, remove the plug at the bottom of the device and plug in the cable sensor.
Accessory cable sensors (WLD3CABLE sold separately) can be connected to extend the cable and increase water sensing area. The entire length of the cable is a water sensor.
Note: The cable sensor jack is NOT for plugging in an adaptor. Doing so could damage the water sensor.
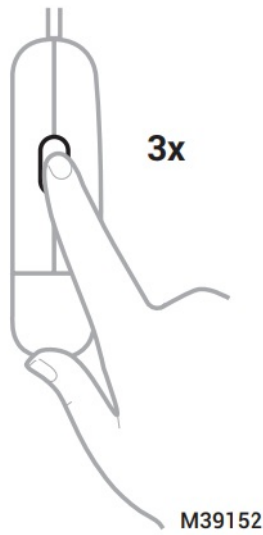
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+   +

Max
500 ft

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Test Mode
Press the sensor's button three times. The LED should start blinking red.
In test mode, alarm sounds and switches change position. (Switch for Orange and Green wires open. Switch for White and Green wires closed.)
To return to normal function, press the reset button 3 more times.
Test mode will not function during an active alarm or a firmware update.
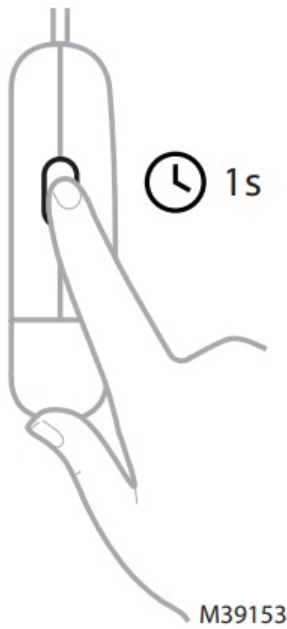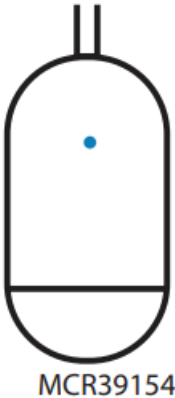
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When a Leak is Detected

ⓘ To Silence Alerts

Press the sensor's button or tap the mute button in the app to mute the siren. After you've addressed the cause of the alert, remove sensor and cable sensor from water and wipe dry.

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Lighting Functions

LED Light	Light Color	Light Behavior	Device Status
	Installation		
	Blue	Blinking	Bluetooth pairing mode
	Blue	Solid	Paired with Bluetooth
	Green	2 Blinks	Connection success
	Red	3 Blinks	Connection failure
	In Use		
	Red	Blinking	Detected a leak
	Red	Solid	Factory resetting
	White	Blinking	Firmware updating
	White	Solid	Functioning normally
	Red	Blinking	Test mode
	Blue	Solid	Awake and connected

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Specifications

Part Number: TWLD3005-001
Operating Temperature:
32 °F to 131 °F (0 °C to 55 °C)
Operating Humidity:
5 to 95% Non-Condensing
Shipping Temperature:
-22 °F to 158 °F (-30 °C to 70 °C)
Shipping Humidity:
10 to 95% Non-Condensing Buzzer Alarm SPL: 100 dBA @ 10cm
Physical Dimensions:
3.9 x 2 x 1.1 in (99.4 x 52.4 x 28.6mm) Color: Grey/White
Supply Voltage: 24VAC/VDC
Switches Rating: *Maximum Current: 5A
*Contact Rating: 5A @ 24VAC/VDC
*Maximum Voltage: 24VAC, 24VDC
Weatherproofing: IP44
Action: Type 1 SELV Class 2
Control Pollution Degree: 2
Rated Impulse Voltage: 330
Purpose of Control: Operating electronic appliance control
Construction of Control: Independently mounted control
FCC Regulations § 15.19 (a)(3)
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.

IC REGULATIONS RSS-GEN
This device complies with Industry Canada's license-exempt RSSs. Operation is subject to the following two conditions:

1. This device may not cause interference; and

2. This device must accept any interference, including interference that may cause undesired operation of the device.

FCC Warning (Part 15.21) (USA only)
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
RESIDEO-Extended Producer Responsibility
The product should not be disposed of with other household waste. Check for the nearest authorized collection centers or authorized recyclers. The correct disposal of end-of-life equipment will help prevent potential negative consequences for the environment and human health.
FCC 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.
- Consult the dealer or an experienced radio/TV technician for help.

ISED Statement
This equipment complies with FCC and ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and a human body.

Troubleshooting
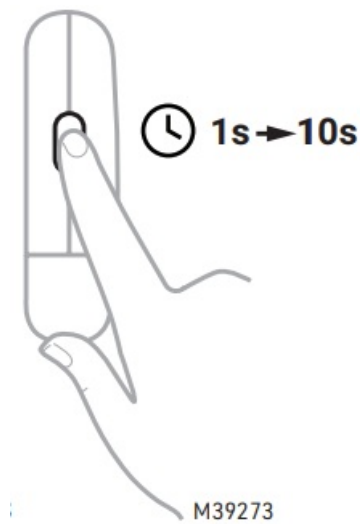
Device not Powering On
Check wiring connections and ensure wires are connected to the proper terminals.
Bluetooth Pairing Failed
If bluetooth pairing fails at any stage, perform a factory rest.
Factory Reset
Press button for 1s to wake up device (solid blue LED). Then press and hold button for 10s (solid orange LED). Two beeps and solid red LED shows reset in progress. Once LED is off, reset is complete.

1s ➡ 10s

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Documents / Resources

	resideo L2 WiFi Water Sensor and Switch [pdf] Installation Guide L2 WiFi Water Sensor and Switch, L2, WiFi Water Sensor and Switch, WiFi Water Sensor, Water Sensor, Sensor

Manuals+,