AXIS T8342 Door/Window Sensor

User Manual

AXIS T8342 Door/Window Sensor

Solution overview
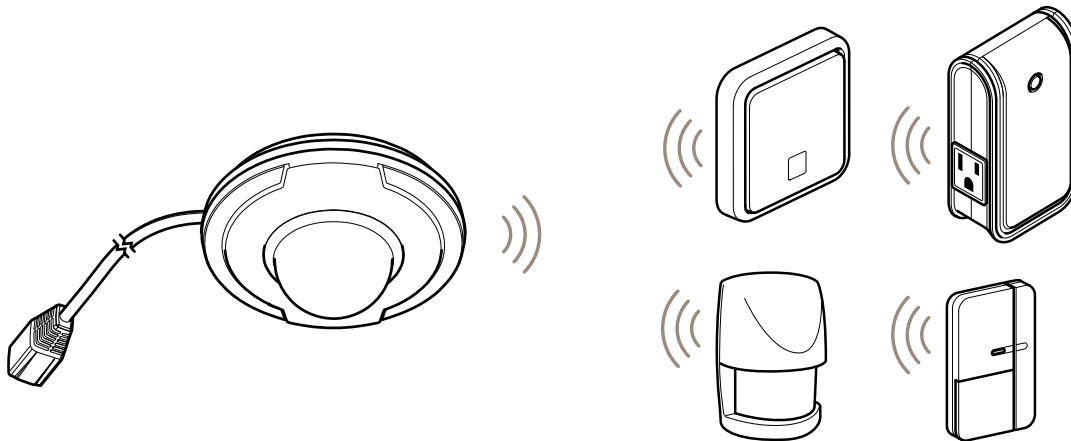
The device is Z-Wave® enabled and fully compatible with any Z-Wave enabled network. The device can be set up in a Z-Wave network to communicate directly with other end-devices such as lighting controllers, or to report directly to a Z-Wave controller, such as AXIS M5065 PTZ Network Camera.

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Product overview

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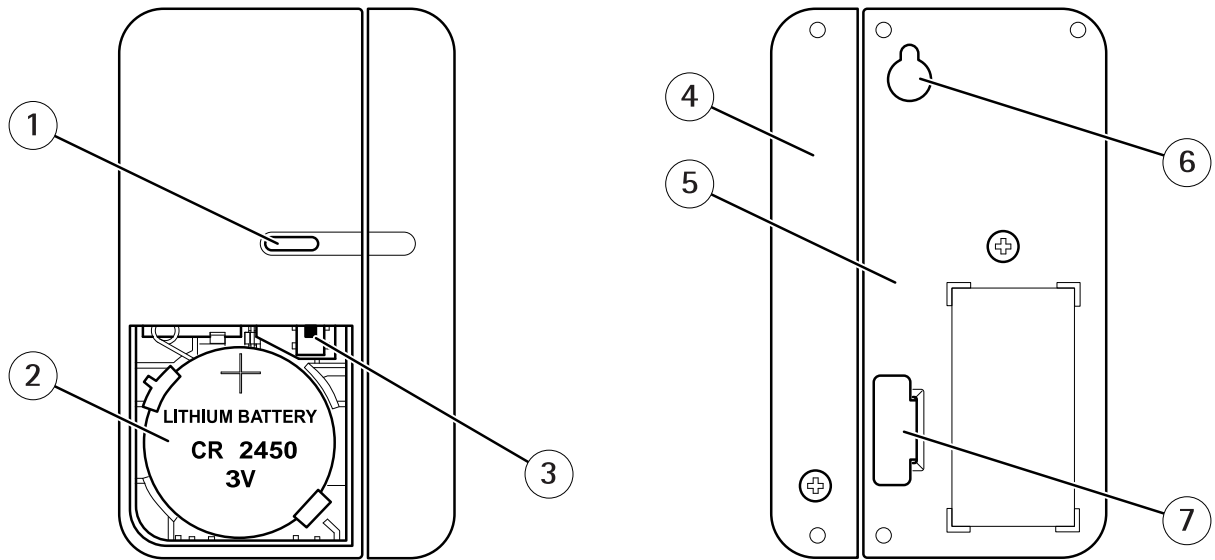
1. LED

2. Battery

3. Tamper switch

4. Magnet

5. Detector

6. Screw hanger

7. Battery protection film

How to add a device to a Z-Wave Network

Auto-inclusion

This device supports the auto-inclusion feature, where it will automatically enter Inclusion mode when first powered up.

1. Put a Z-Wave controller into inclusion mode.

2. Remove the strip of battery protection film sticking out from the battery cover on the front of the casing. The LED on the device should turn ON.

3. Enter the PIN number into the Z-Wave controller. See the installation guide for where to find the PIN number on the device.

4. The inclusion process should be complete when the LED stops blinking.

5. Perform a test before you refit the battery cover. See **How to test the Z-Wave Device**.

Manual inclusion

You can also choose to manually add the Z-Wave device to a control device. Follow the steps below.

Note

For best results, exclude the device before starting the inclusion process. For more details see the installation guide.

1. Remove the battery cover.

2. Press the tamper switch 3 times within 1.5 seconds to put the unit into learning (inclusion/exclusion) mode.

3. Enter the PIN number into the Z-Wave controller. See the installation guide for where to find the PIN number on the device.

4. The inclusion process should be complete when the LED stops blinking.

5. Perform a test before you refit the battery cover. See **How to test the Z-Wave Device**.

Manual exclusion

1. Remove the battery cover.

2. Press the tamper switch 3 times within 1.5 seconds to put the device into learning (inclusion/exclusion) mode.

3. The exclusion process should be complete when the LED stops blinking.

4. Refit the battery cover.

How to test the Z-Wave device

- Remove the battery cover, without pressing the tamper switch on the detector part (test mode).

- Separate the magnet from the detector. The detector should then flash.

- Put the battery cover back on the detector and the detector will enter normal mode.

Note

If you have removed the batteries, wait 5 seconds before you refit them.

Operational guidelines

- Due to the limited power supplied by the batteries, the device should not operate continuously for an extended period of time. Therefore, the setup time for the device should be minimized, and repeated presses of the tamper switch should be avoided, in order to prevent incidents caused by a rapid drop in battery voltage.

- You can enter test mode by releasing the tamper switch. If the magnetic sensor is triggered during this time, the LED will be illuminated. You can confirm whether the tamper switch has been pressed properly by testing this function.

- When the tamper switch has been pressed and the device has entered normal mode, the LED will not be illuminated, even if the magnetic sensor is triggered, unless a low battery level is detected.

How to program the Z-Wave device

Programming Z-Wave devices using a Z-Wave controller is recommended for experienced users only.

The detector supports two different Z-Wave Association Groups:

- Group 1: Association with 1 Controller node.

- Group 2: Association with 4 nodes (i.e. end-devices such as smart plugs and other lighting controllers). This allows the device to send commands directly to other devices without the participation of the controller. This has the effect that when the device triggers, all other associated devices will also be operated.

Association group support can vary among Z-Wave Controllers. The AXIS M5065 supports Z-Wave Association Group 1.

Group 1 commands:

- If the device is already part of a Z-Wave network when powered up, it will send a Notification Report to the node in Group 1.

- When setting up the device or changing device status, the device will send a Binary Switch Report to the node in Group 1. When the device is turned **OFF**, the Switch Binary Report Value = 0x00. When the device is turned **ON**, the Switch Binary Report Value = 0xFF.

- Device Reset: When performing a factory reset, the device will send **Device Reset Locally Notification** to the node in Group1.

Group 2 commands:

- When the button on the device is pressed, the device will send a Basic Set command to the nodes in Group 2. When the device is **OFF**, Basic Set Value = 0x00. When the unit is **ON**, Basic Set Value = 0xFF

Z-Wave Plus® info

Role type	Node type	Installer Icon	User Icon
Secondary Sleeping report	Z-Wave Plus node	Sensor Notification Device Type (Access Control)	Sensor Notification Device Type (Access Control)

Version

Protocol library	3
Protocol version	4.61(6.71.01)

Manufacturer

Manufacturer ID	Product Type	Product ID
0x0364	0x0003	0x0001

AGI (Association Group Information) table

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How to program the Z-Wave device

Group	Profile	Command Class & Command (List) N bytes	Group Name (UTF–8)
1	General	Notification Report Device Reset Locally Notification	Lifeline
2	Control	Basic Set	PIR Control

Notification

Event	Type	Event	Event Parameters Length	Event Parameters
Power is applied for the first time	0x08	0x01	null	
Door sensor trigger OPEN	0x06	0x16	null	
Door sensor detector trigger Close	0x06	0x17	null	
Tamper switch pressed for more than 10 seconds and then released	0x07	0x03	null	
Tamper switch pressed	0x07	0x00	null	

Battery

Battery Report (value)	Description
0xFF	Battery is low

Command classes

This product supports the following command classes:

- COMMAND_CLASS_ZWAVEPLUS_INFO_V2
- COMMAND_CLASS_ASSOCIATION_V2
- COMMAND_CLASS_ASSOCIATION_GRP_INFO
- COMMAND_CLASS_TRANSPORT_SERVICE_V2
- COMMAND_CLASS_VERSION_V2
- COMMAND_CLASS_MANUFACTURER_SPECIFIC_V2
- COMMAND_CLASS_DEVICE_RESET_LOCALLY
- COMMAND_CLASS_POWERLEVEL
- COMMAND_CLASS_SECURITY
- COMMAND_CLASS_SECURITY_2
- COMMAND_CLASS_SUPERVISION
- COMMAND_CLASS_FIRMWARE_UPDATE_MD_V4
- COMMAND_CLASS_BATTERY
- COMMAND_CLASS_WAKE_UP_V2
- COMMAND_CLASS_NOTIFICATION_V4

Wake–up command class

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How to program the Z-Wave device

After the detector has been included in a Z-Wave network it will go to sleep, but will periodically send a wake-up notification command to the controller at a preset period. The detector will stay awake for at least 10 seconds and then go back to sleep, to conserve battery life.

The time interval between wake-up notification commands can be set in the wake-up command class, based on the range values below:

Minimum wake-up interval	600s (10 minutes)
Maximum wake-up interval	86400s (1 day)
Default wake-up interval	14400s (4 hours)
Wake-up interval step seconds	600s (10 minutes)

Troubleshooting

If you can't find what you're looking for here, try the troubleshooting section at *axis.com/support*.

The table below explains the status in the Z-Wave controller as well as the LED indication on the device.

Action/Status	Description	LED indication
No node ID.	The Z-Wave controller could not find the device and did not provide a node ID.	2 seconds on, 2 seconds off, for 2 minutes.
Factory Reset (This procedure should only be used when the controller is inoperable.)	1. Press the tamper switch 3 times within 1.5 seconds to put the unit into exclusion mode.	
	2. Within 1 second of step 1, press the tamper switch again and hold for 5 seconds.	
	3. Node ID is excluded. The device reverts to factory default state.	2 seconds on, 2 seconds off, for 2 minutes.
Failure or success in including/excluding the ID can be viewed on the Z-Wave Controller.		

The table below lists some typical problems encountered:

Symptom	Possible cause	Recommendation
Cannot perform inclusion and association.	1. The device is still connected, or has accidentally been included in a previous network. 2. The entered PIN code is incorrect 3. The battery has run out of power. 4. Battery polarity is reversed.	1. Exclude the device before including it again. 2. Make sure you have entered the correct PIN code. 3. Replace the battery. 4. Refit the battery with the correct polarity.
Cannot control the connected modules.	1. The device is still connected, or has accidentally been included in a previous network. 2. The battery has run out of power.	1. Exclude the device before including it again. 2. Replace the battery.
The detector is not working.	1. The device is still connected, or has accidentally been included in a previous network. 2. The battery has run out of power. 3. The distance between the device and the receiver(s) is too great.	1. Exclude the device before including it again. 2. Replace the battery. 3. Move the device closer to the receivers.

Note

For best results, exclude the device before starting the inclusion process. For more details see the installation guide.

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Specifications

Specifications

To find the latest version of the product's datasheet, go to the product page at *axis.com* and locate **Support & Documentation**.

Specifications

Battery	CR2450 3.0V Lithium Battery x 2
Battery Life	1 year*
Range	Up to 100m (328 ft) line of sight
Frequency Range	908.42 MHz, 922.5 MHz, 868.42 MHz (EU)

Specifications are subject to change without notice.
* measured at 10 triggers per day.

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