AXIS T8342 Door/Window Sensor

User Manual

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Solution overview

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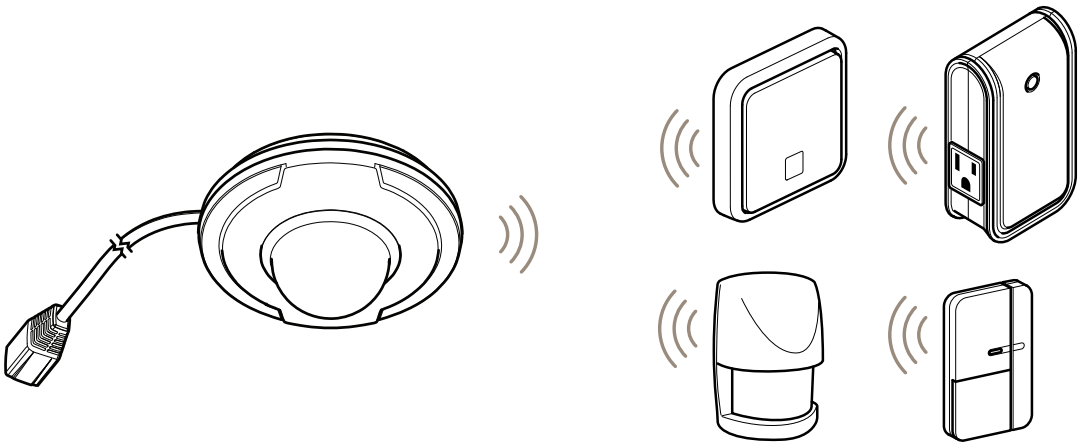

The device is Z-Wave® enabled and fully compatible with any Z-Wave enabled network. The device can be set up in a Z-Wave network to communicate directly with other end devices such as lighting controllers, or to report directly to a Z-Wave controller like the AXIS M5065 PTZ Network Camera.

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Product overview

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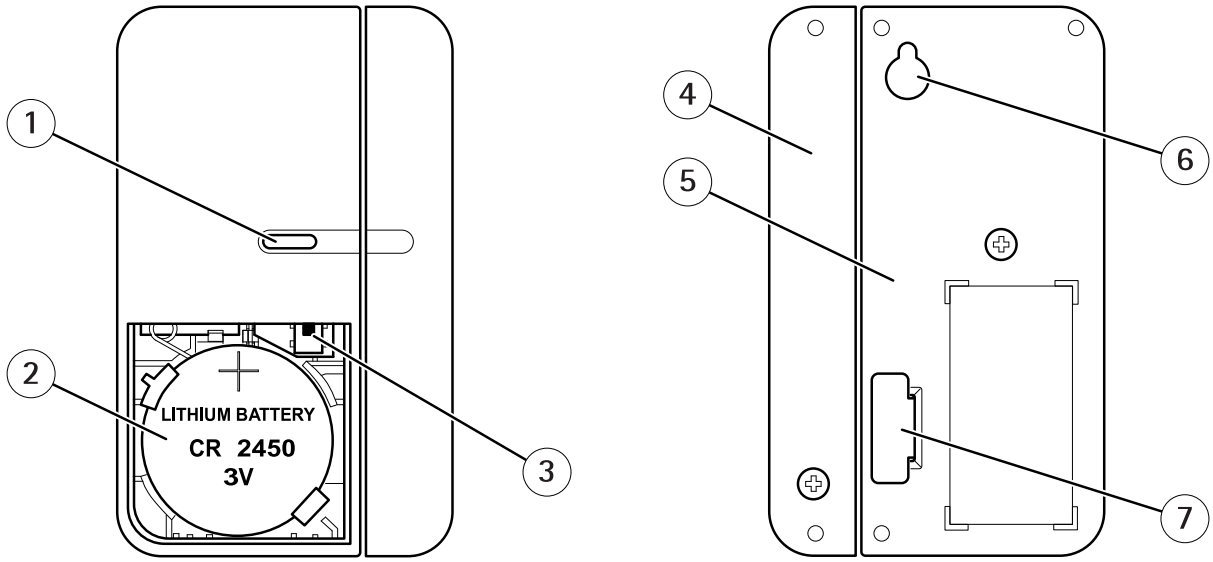

1. LED
2. Battery
3. Tamper switch
4. Magnet
5. Detector
6. Screw hanger
7. Battery protection film

How to add a device to a Z-Wave Network

How to add a device to a Z-Wave Network

Auto inclusion

The detector 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 PIN number into the Z-Wave controller. The PIN number can be found on the device. See where in the installation guide.
4. The inclusion process should be completed when the LED stops blinking.
5. Perform 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. Please follow the steps described 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 PIN number into the Z-Wave controller. The PIN number can be found on the device. See where in the installation guide.
4. The inclusion process should be completed when the LED stops blinking
5. Perform 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 unit into learning (inclusion/exclusion) mode.
3. The exclusion process should be completed when the LED stops blinking
4. Refit the battery cover.

How to test the Z-Wave device

How to test the Z-Wave device

- Remove the battery cover with the tamper switch not being pressed on the detector (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 from the batteries, the device may not operate continuously for an extended period of time. Therefore, the set up time for device should be minimized, and repeated presses of the tamper switch should be avoided, in order to prevent incidents caused by a quick battery voltage drop.
- You can enter test mode by releasing the tamper switch. If the magnetic sensor is triggered during that time, then 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 low battery is detected.

How to program the Z-Wave device

How to program the Z-Wave device

Note

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

Z-Wave Group

The detector supports either one of two 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 detector to transfer commands directly to end devices without the participation of the controller. This has the effect that when the detector triggers, all devices associated with detector will be operated.

Note

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

Group 1 commands:

- If the device already is a part of a Z-Wave network when powered up, the device will send a Notification Report to the node in Group 1.
- When setting up the device or changing the device's status, the device will send a Binary Switch Report to the node of 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 Factory Reset, the device will send Device Reset Locally Notification to the node of Group1.

Group 2 commands:

- When the button on the device is pressed, the device will send a Basic Set command to the nodes of 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
Slave Sleeping report	Z-Wave Plus node	Sensor Notification Device Type (Access Control)	Sensor Notification Device Type (Access Control)

Version

Protocol library	3 (Slave_Enhance_232_Library)
Protocol version	4.61(6.71.01)

Manufacturer

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

AGI (Association Group Information) table

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

How to program the Z-Wave device

After the detector has been included into a Z-Wave network it will go to sleep, but it will send a wake-up notification command to the controller periodically 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-second on, 2-second 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-second on, 2-second off for 2 minutes.
Failed or successful results in including/excluding the ID can be viewed on the Z-Wave Controller.		

Table below lists typical problems encountered:

Symptom	Possible cause	Recommendation
Cannot carry out inclusion and association.	1. The device is still connected, or has been accidentally included, to a previous network. 2. The entered PIN code is incorrect 3. The battery has run out of power. 4. Battery polarity is reversed. 5. Detector is malfunctioning.	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. 5. Ensure the detector is working properly.
Cannot control the connected modules.	The device is still connected, or has been accidentally included, to a previous network. 1. The battery has run out of power. 2. Detector is malfunctioning.	1. Exclude the device before including it again. 2. Replace the battery. 3. Ensure the detector is working properly.
The detector is not working.	1. The device is still connected, or has been accidentally included, to a previous network. 2. The battery has run out of power. 3. Distance between the Alert Button and the receiver(s) too far. 4. Detector is malfunctioning.	1. Exclude the device before including it again. 2. Replace the battery. 3. Move closer to the receivers. 4. Ensure the detector is working properly.

Note

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

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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