



## Wireless Motion Sensor Installation Guide

for use with Control4

### Overview

The Axxess Wireless Motion Sensor can be fully incorporated into Control4 automation and control projects. The Motion Sensor supports all motion dependent functions, including lighting, security, occupancy detection and energy management. It has the viewing angle and range to cover all typical applications, and can be used to detect light levels, temperature and, optionally, even humidity.

### Included

- Motion Sensor Device
- 1 1" ball mount
- 1 1.5" ball mount
- 2 batteries
- 2 mounting screws

### Battery and Power

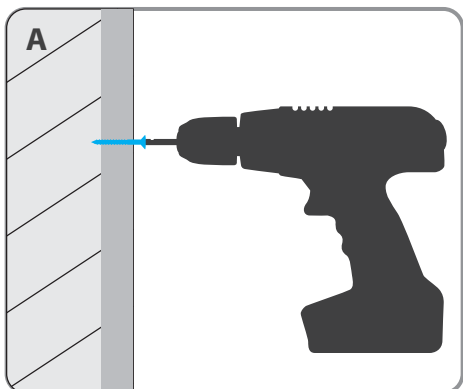
This device ships with AA 1.5V alkaline batteries inserted. We recommend buying long-lasting brand name batteries if you need to replace them.

Typical battery life is about 2.5 years in operation; actual life varies with application. See "Maximize Battery Life" in the driver documentation tab.

**Note:** A Device out of range of its joined network may use extra battery power trying to find its network. See website support tab for replacement battery specs.

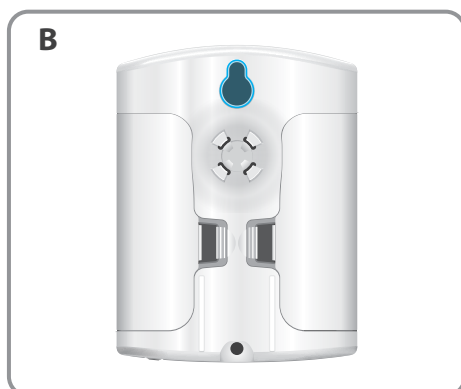
### Mounting

Before mounting, make sure the device is in a location where you can still push the button to join it to the ZigBee network. If the location will be difficult to reach, view the instructions for ZigBee networking and join the device to the network before mounting.



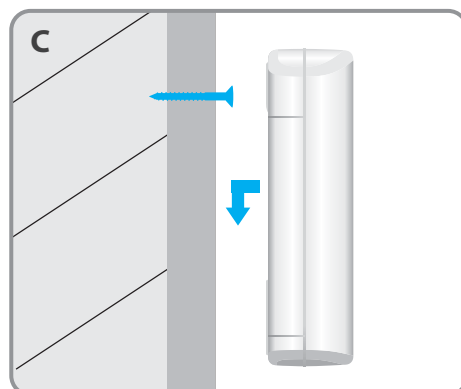
### Keyhole Mount

Screw one of the provided screws into the wall until the head protrudes just enough for the keyhole shape on the back of the motion sensor to fit snugly. Depending on wall material and location, consider using a wall anchor.



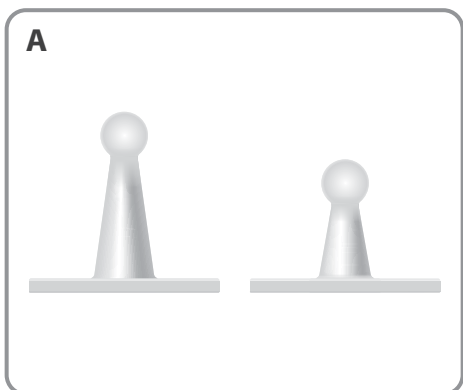
### Keyhole Mount (Cont'd)

Fit the motion sensor on the screw and slide down until snug. If the motion sensor is loose, remove it and turn the screw in further.



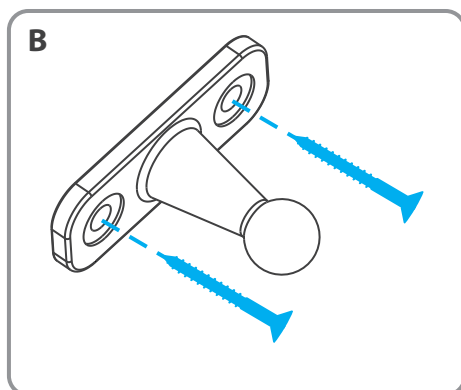
### Ball Mount

For installation in corners, or where device needs to be tilted, use the ball mount of suitable length.



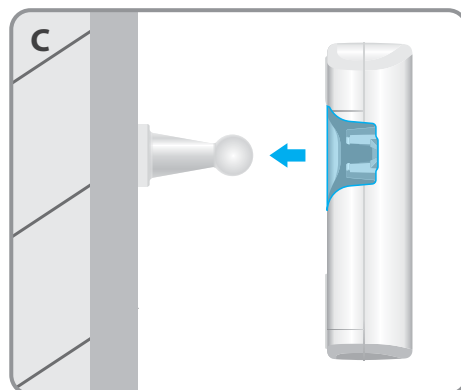
### Ball Mount (Cont'd)

Screw ball mount to the wall with the screws provided.



### Ball Mount (Cont'd)

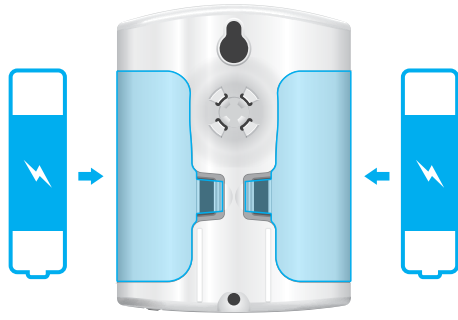
Attach motion sensor to the ball mount by attaching the clasp on the back of the motion sensor to the ball mount.



### Battery and Power <sup>10</sup>

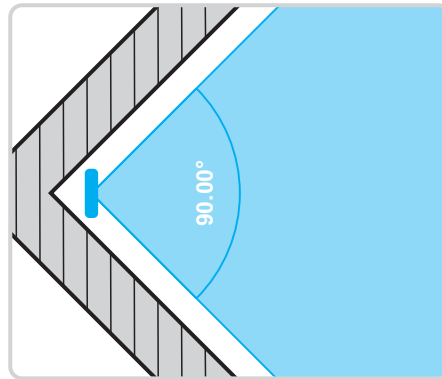
The Axxess Wireless Motion Sensor ships with 2 AA 1.5V batteries inserted into the case. The batteries are accessible via 2 doors, by pushing the release clasp lightly toward the outside.

Make sure to only use the proper batteries or the device will not work.



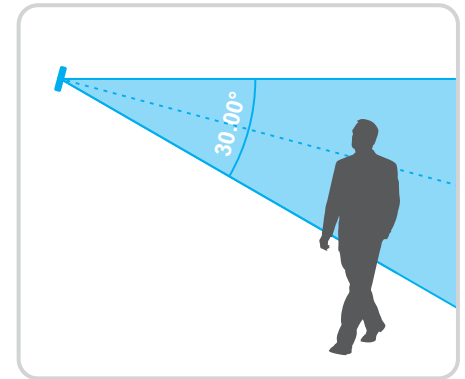
### Horizontal Viewing Angle <sup>11</sup>

The Motion Sensor has a horizontal viewing angle of 90°+ and should be mounted accordingly. Mounting in a corner as shown below offers best coverage.



### Vertical Viewing angle <sup>12</sup>

The Motion Sensor has a vertical viewing angle of 30°+ and must be mounted accordingly. When mounting in higher locations, tilting the device down should offer the best coverage.



### ZigBee Network <sup>13</sup>

The device has to be mounted within the range of the ZigBee network in which it is to operate.

Join:	4 taps	6 flashes - long solid flash when joined
Leave:	13 taps	6 flashes
Setup:	8 taps	Flashes with motion
Reset:	15 taps	6 flashes if not joined or long solid flash if joined

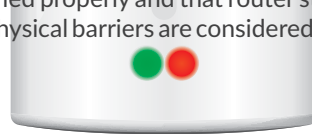
A button tap sequence controls the joining and leaving of a network: the button is located on the bottom of the device, on the right side when facing the front.



### ZigBee Network (Cont'd) <sup>14</sup>

When joining, the device will flash green up to 6 times while searching for a network. Once joined it will give a long solid flash of the LED. On power up, the device will give one long flash indicating it is joined, or 6 quick flashes indicating it is not joined.

The range can vary depending on the strength of the router it is connected to, as well as physical obstructions. Typically the device can communicate up to 400 feet in the open, however, range will be significantly reduced indoors and will vary from site to site. Ensure the network is designed properly and that router strength and physical barriers are considered.



### Composer <sup>15</sup>

Instructions for using this device with composer can be accessed on our website: [axxind.com/dealers/composer](http://axxind.com/dealers/composer)

### Drivers

Control4 device Drivers are available for download on our website: [axxind.com/dealers/drivers](http://axxind.com/dealers/drivers)

The parameters that may be set up in the device driver are self-explanatory. The properties page contains a battery level value, which may be programmed against to provide notification for battery replacement.

### Testing <sup>16</sup>

It is important to make sure that the device is oriented properly to detect movement where required.

In order to test, tap the network button 8 times to enter setup mode or enter setup mode with composer. The motion sensor light will now turn on whenever motion is detected. Point the motion detector in the direction required and walk in the areas you would like it to detect.

Adjust the direction of the motion sensor as required based on whether or not it is detecting in the range required.

The device will automatically leave setup mode after 8 minutes.

### Troubleshooting <sup>17</sup>

If you see LED flashes on the front of the device in response to network taps (join/leave) then you have battery power.

If not, reseal batteries. After resealing both batteries the device should boot up (60 seconds), during which the red LED remains on. Following boot up, network taps should result in LED flashes. If not, try installing new batteries.

If you see LED flashes in response to network taps, but don't receive ZigBee messages for motion, enter setup mode. The LED should now turn on whenever motion is detected. If the LED turns on then the problem is in the networking. Ensure that the device is in range of the network and check that the device is joined. If necessary, leave the device and

### Troubleshooting (Cont'd) <sup>18</sup>

If the LED does not turn on in setup mode, there may be a problem with the device.

Please note, the Motion sensor will not detect motion for approximately one minute from having batteries installed.

A complete list of troubleshooting and additional information is available at: [axxind.com/about/automation/](http://axxind.com/about/automation/)