Ceiling Mount Motion Sensor

Installation Guide

for use with Control4

Overview 2

The Axxess Ceiling Mount 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, humidity.

Included

- Ceiling Mount Motion Sensor with mounting springs
- 6" power harness

Power 3

This device is powered via 6.5-24VDC.

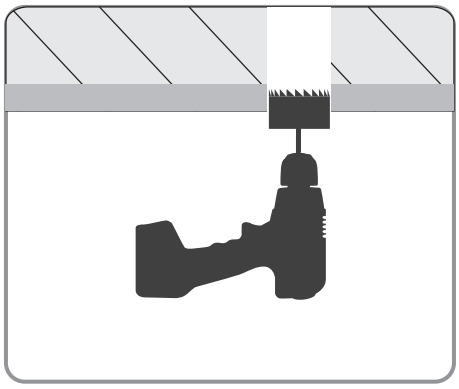
Use the provided 6" power harness to connect device to low voltage wire.

Mounting 4

Before mounting, make sure the device is in a location where you can join the device 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.

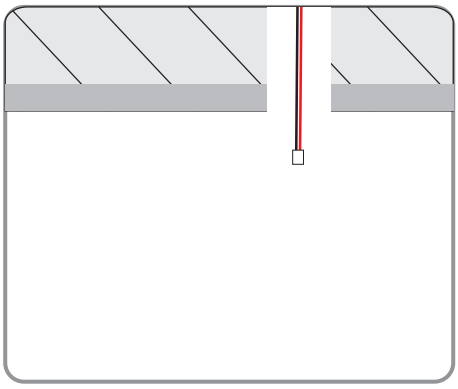
Mounting 5

Using a 2 1/4" hole saw, drill a hole into the ceiling where the motion sensor will sit.



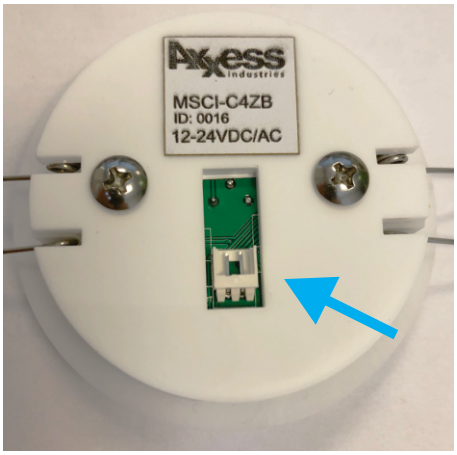
Mounting 6

Connect the 6" power harness to the low voltage wire, leaving enough slack to plug in the motion sensor.



Mounting 7

Connect the wire harness to the Ceiling Mount Motion Sensor via the white power connector.

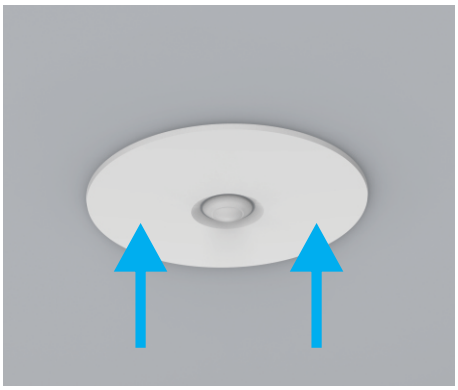


Mounting 8

Push the metal springs upwards. While holding the springs, push the sensor into the pre-drilled hole.

Mounting 9

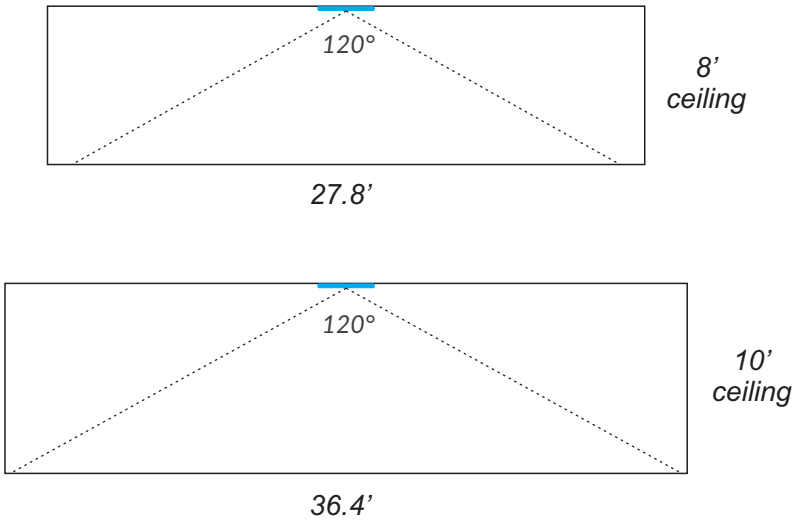
Gently push the Ceiling Mount Motion Sensor flush to the ceiling and allow the springs to settle into place.



Viewing Angle

The Ceiling Mount Motion Sensor can detect motion in a cone with an angle of 120°, covering 360° at the base provided there are no objects obstructing the view.

This motion sensor has effective coverage of 27'+ in diameter depending on the height of the ceiling.



ZigBee Network

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	Red LED turns on with motion

A button tap sequence controls the joining and leaving of a network: the button is located through a small hole on the face of the device, and can be pressed by using a thin piece of metal, such as a bent paper clip.

ZigBee Network (Cont'd)

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

Instructions for using this device with Composer can be accessed on our website: axxind.com/dealers/composer

Drivers

Control4 device drivers are available for download on our website: axxind.com/dealers/drivers

The parameters that may be set up in the device driver are self-explanatory. The properties page contains a core voltage value.

Testing

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 set-up mode or enter set-up mode with composer. The motion sensor red LED 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 set-up mode after 8 minutes.

Troubleshooting

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

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 you see LED flashes in response to network taps, but don't receive ZigBee messages for motion, enter set-up mode. The red 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 rejoin it to the network.

Troubleshooting (Cont'd)

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

Please note, the Motion sensor will not detect motion for approximately one minute after being powered up.

A complete list of troubleshooting and additional information is available at: axxind.com/about/automation/