**I. GLOSSARY OF TERMS**

- **EXCLUSION**: (excluding a device from learning mode) - a device sends the 2-node Info frame command allowing to the device to the Fibaro System (Home Center)
- **ASSOCIATION**: - comparing other devices with the Fibaro System
- **MultiChannel association**: - controlling other multi-channel devices within the Fibaro System.

**II. Z-WAVE NETWORK INCLUSION**

The Fibaro Motion Sensor can be included into the Z-Wave network using the B-button.

1. Insert the battery into the Fibaro Motion Sensor. Exclusion is locked until an on/off. Make sure the device is included within the direct range of the main controller.
2. Set the main controller into the learning mode (see main controller’s operating manual).
3. Quickly triple click the B-button - LED diode will glow blue.
4. Fibaro Motion Sensor will be detected and included in the Z-Wave network.
5. Press the B-button for 2 to 4 seconds to confirm the sensor woke up, and then press the B-button for 2 to 4 seconds to confirm the sensor woke up.

**III. SENSOR INSTALLATION**

1. Include the device into the Z-Wave network (see p. 3). Note that Fibaro Motion Sensor may be detected ONLY in direct range of the main controller.
2. Insert the battery into the Fibaro Motion Sensor. Enclosure lock is secured by using the B-button.
3. Quickly triple click the B-button - LED diode will glow blue.
4. Fibaro Motion Sensor will be detected and included in the Z-Wave network.
5. Press the B-button for 2 to 4 seconds to confirm the sensor woke up, and then press the B-button for 2 to 4 seconds to confirm the sensor woke up.

**IV. SENSOR INSTALLATION**

- **Temperature and light intensity reports** are sent too frequently - reduce the reporting interval.
- **Wake up interval** is too short - it’s recommended to lengthen the reporting interval.
- **Tamper sensitivity** may result in reducing the battery life.
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**V. DETECTION AREA AND WORKING CONDITIONS**

![Diagram 5 - Fibaro Motion Sensor's proximity area.

**VI. INSTALLATION NOTES**

Fibaro Motion Sensor cannot be positioned at any source of heat (e.g. radiator, fireplace, cooker, etc.) or any source of light (direct sunlight, lamp). It’s not recommended to install the motion sensor in places prone to moisture. Sensor can be mounted using screw or the sticker.

**VII. RESETTING THE FIBARO MOTION SENSOR**

The Fibaro Motion Sensor reset erase the EDRMON memory, including all information on the Z-Wave network and the main controller.

1. Select the battery works and is in place.
2. Press and hold the B-button for 4 to 6 seconds until the LED glows stabilizing the Z-Wave network.
3. Release the B-button briefly.

**VIII. OPERATING WITHIN THE Z-WAVE NETWORK**

Fibaro Motion Sensor has a built-in motion detector, temperature sensor and light intensity sensor, which make it a multi-channel device. Fibaro Motion Sensor has to be associated to one Z-Wave network. To make sure quick and easy addition of the Fibaro Motion Sensor, get in touch with your main controller.

**IX. ASSOCIATIONS**

By using association with Fibaro sensor the Fibaro Motion Sensor may control or other Z-Wave devices, Dimmers, Rotary Switch, Roller Shutter (RGR) Controller, Wall Plug or a scene (view only through Home Center 2 main controller).

**X. EARTHQUAKE DETECTOR MODE**

Fibaro Motion Sensor can be configured to work as a simple earthquake detector, by setting the Parameter 24 value to 4. Reports will be sent in the BASIC SET control frame to the associated devices having 1st association group.

**XI. SENSOR'S ORIENTATION IN SPACE**

Motions, temperature and light intensity values are presented in Home Center 2 menu with the following icons:

![Diagram 6 - Fibaro Motion Sensor's motion area.

**XII. Z-WAVE RANGE TEST**

The Fibaro Motion Sensor is a battery-powered device, using batteries other than specified may result in explosion. Dispose of properly, observing environmental protection rules.

**XIII. Z-WAVE NODE INFO**

The Fibaro Motion Sensor has a built-in accelerometer. When the value of parameter 0x24 is 1, the Z-Wave network controller will be informed on the Sensor’s orientation in space.

**XIV. BATTERY USAGE TIPS**

The Fibaro Motion Sensor’s battery life is approximately 2 years at factory default settings. The current battery level is displayed in a Home Center 2 window. Red battery symbol indicates the need for a battery replacement.

**NOTE**

The Fibaro Motion Sensor is a battery-powered device. Using batteries other than specified may result in explosion. Dispose of properly, observing environmental protection rules.

**NOTE**

The Fibaro Motion Sensor features remote software updates. The functionality is supported by the Home Center 2 and may not be supported by other controllers. During the software update, the sensor does NOT support alarm events.

**VI. INSTALLATION NOTES**

Fibaro Motion Sensor cannot be positioned at any source of heat (e.g. radiator, fireplace, cooker, etc.) or any source of light (direct sunlight, lamp). It’s not recommended to install the motion sensor in places prone to moisture. Sensor can be mounted using screw or the sticker.
**NOTE**

Exemptions do not set to the value of Wake Up Interval to 10 seconds. Short wake up interval may shorten the battery life and delay the reports or even make them impossible.

1. MOTION SENSOR'S SENSITIVITY

The value of Wake Up Interval cannot be higher than 200 seconds. The lower the value, the longer the battery life. If the sensor is required to detect motion quickly, the time period may be omitted. The time of invisibility should be shorter than this time period set in parameter 6. Available settings: 6 – 65535. Default setting: 180 [seconds] Parameter size: 1 [byte]

2. MOTION SENSOR'S BLIND TIME (INSENSITIVITY)

<table>
<thead>
<tr>
<th>Time period</th>
<th>Parameter value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 255</td>
<td>0</td>
<td>No sensor inactivity is measured. The reports are sent even if there are no changes in the light intensity. <strong>Parameter size:</strong> 1 [byte] Default setting: 0 Parameter size: 1 [byte]</td>
</tr>
<tr>
<td>0 - 255</td>
<td>1</td>
<td>Sensor no longer sends reports from the blind time. Reports are sent in case of dark changes in the light intensity. <strong>Parameter size:</strong> 1 [byte] Default setting: 0 Parameter size: 1 [byte]</td>
</tr>
</tbody>
</table>

3. Tamper sensitivity

<table>
<thead>
<tr>
<th>Parameter value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 100</td>
<td>The lower the value, the more sensitive the PIR sensor. <strong>Parameter size:</strong> 1 [byte] Default setting: 0 Parameter size: 1 [byte]</td>
</tr>
</tbody>
</table>

4. Tamper alarm cancelation delay

The parameter determines the time period after which the tamper alarm will be canceled. **Parameter size:** 1 [byte] Default setting: 10 [seconds] Parameter size: 1 [byte]

5. Tamper alarm broadcast mode

The parameter determines whether the tamper alarm frame will or won’t be sent in broadcast mode. **Parameter size:** 1 [byte] Default setting: 0 Parameter size: 1 [byte]

6. Tamper alarm broadcast mode

<table>
<thead>
<tr>
<th>Parameter value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 100</td>
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</table>

7. Tamper alarm broadcast mode

<table>
<thead>
<tr>
<th>Parameter value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>No tamper alarm is sent in broadcast mode. <strong>Parameter size:</strong> 1 [byte] Default setting: 0 Parameter size: 1 [byte]</td>
</tr>
</tbody>
</table>

8. Igniting indicator tamper alarm

Indicating mode resembles a police car (white, red and blue). **Parameter size:** 1 [byte] Default setting: 1 Parameter size: 1 [byte]

9. Tamper alarm cancelation delay

The parameter determines how often the tamper alarm will be reported - 0 - no tamper alarm is reported, 1 - every 10 seconds, 2 - every 20 seconds, 3 - every 30 seconds. **Parameter size:** 1 [byte] Default setting: 0 Parameter size: 1 [byte]

10. Tamper alarm broadcast mode

The parameter determines whether the tamper alarm frame will or won’t be sent in broadcast mode. **Parameter size:** 1 [byte] Default setting: 0 Parameter size: 1 [byte]

11. Tamper alarm broadcast mode

<table>
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<tr>
<th>Parameter value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 100</td>
<td>The lower the value, the more sensitive the PIR sensor. <strong>Parameter size:</strong> 1 [byte] Default setting: 0 Parameter size: 1 [byte]</td>
</tr>
</tbody>
</table>

12. Igniting indicator tamper alarm

Indicating mode resembles a police car (white, red and blue). **Parameter size:** 1 [byte] Default setting: 1 Parameter size: 1 [byte]

13. Tamper alarm cancelation delay

The parameter determines how often the tamper alarm will be reported - 0 - no tamper alarm is reported, 1 - every 10 seconds, 2 - every 20 seconds, 3 - every 30 seconds. **Parameter size:** 1 [byte] Default setting: 0 Parameter size: 1 [byte]

14. Tamper alarm broadcast mode

The parameter determines whether the tamper alarm frame will or won’t be sent in broadcast mode. **Parameter size:** 1 [byte] Default setting: 0 Parameter size: 1 [byte]