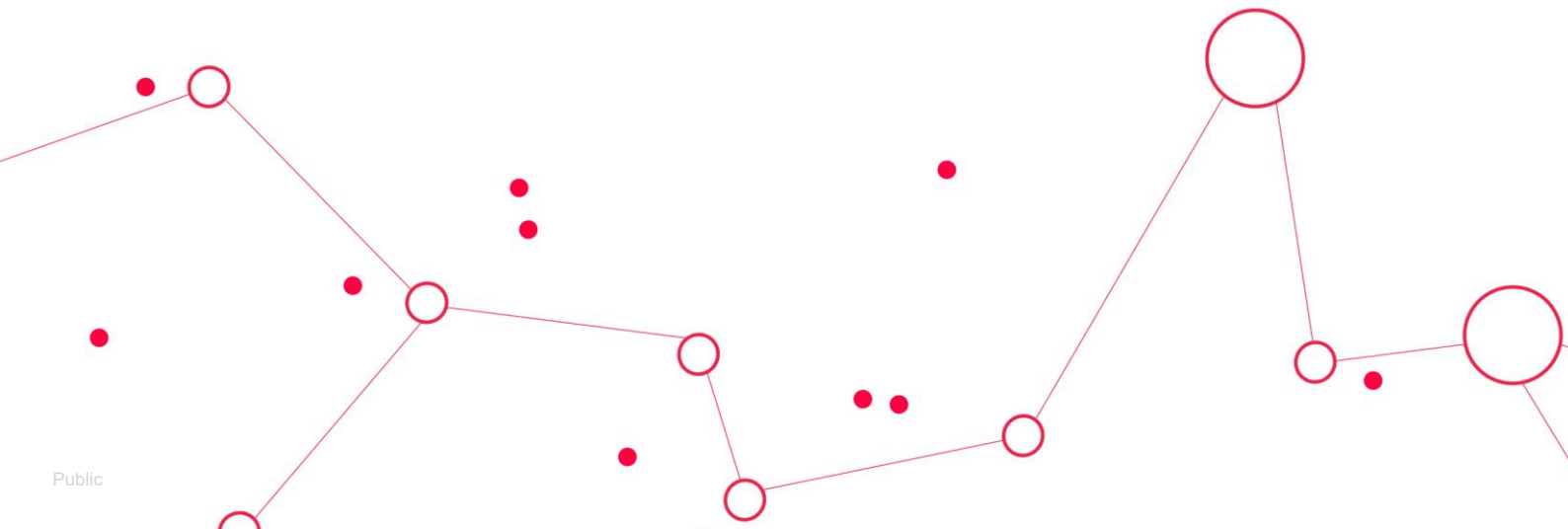




User's Guide Motion Sensor



DATE: 10/03/2026
RESPONSABLE: Enkoa



GENERAL WARNINGS AND INSTRUCTION GUIDE

Read carefully the instruction given, before installing and using the motion sensor and hold it for future references.



In order to ensure the correct operation of the product in your installation is necessary to carry the following safety regulations out:

1. The installation and the use of the product must be done according to the technical operating conditions explained below.
2. The good use of the application is client's responsibility.
3. After reception of the goods, check the packaging and the existing material in case there is any damage. Check as well, that the reception is complete (accessories, papers, etc).
4. If packaging is damaged during delivery or it is suspicious of being damaged or having a failure, do not put the unit on. In that case please contact us.
5. The installation and handling of our product has to be done by authorized personnel. Mainly the electrical connections must be done only by qualified experts.
6. Do not try to repair any material after a failure or damage and put it working again. In this case it is highly important to contact us.
7. There will not be accepted any responsibility for damages caused by a wrong use.

Ensure that the top and the low caps are unified and correctly screwed before starting the unit up.

AVERTISSEMENTS GÉNÉRAUX ET GUIDE D'INSTRUCTIONS

Veuillez lire attentivement les instructions fournies avant d'installer et d'utiliser le détecteur de mouvement, et conservez-les pour de futures références.



Afin de garantir le bon fonctionnement du produit dans votre installation, il est nécessaire de respecter les consignes de sécurité suivantes :

1. L'installation et l'utilisation du produit doivent être effectuées conformément aux conditions techniques de fonctionnement décrites ci-après.
2. La bonne utilisation de l'équipement relève de la responsabilité de l'utilisateur.
3. À la réception du matériel, vérifiez l'état de l'emballage et du contenu afin de détecter tout dommage éventuel. Vérifiez également que la livraison est complète (accessoires, documents, etc.).
4. Si l'emballage a été endommagé durant le transport, ou si vous soupçonnez un dommage ou un défaut, n'allumez pas l'appareil. Dans ce cas, veuillez nous contacter.
5. L'installation et la manipulation de ce produit doivent être réalisées par du personnel autorisé. En particulier, les connexions électriques doivent être effectuées exclusivement par des techniciens qualifiés.
6. Ne tentez pas de réparer l'appareil après un dommage ou un dysfonctionnement, ni de le remettre en service. Dans ce cas, il est impératif de nous contacter.
7. Aucune responsabilité ne sera acceptée en cas de dommages causés par une utilisation incorrecte du produit.

Assurez-vous que les capuchons supérieur et inférieur sont correctement assemblés et solidement vissés avant la mise en service de l'appareil.

INDICE:

1. INTRODUCTION	5
1.1 Brief description.....	5
1.2 Shipment content	5
2. INSTALLATION	6
2.1 Dimensions	7
2.2 Installation process	7
3. OPERATION	9
3.1 saving mode	9
3.2 Room comfort option	9
3.3 Security Option.....	9
4. MAINTENANCE AND CLEANING	10
4.1 Battery replacement	10
5. TECHNICAL DATA	11
6. TIPPS FOR PROTECTING THE ENVIRONMENT.....	12
7. CONSEILS POUR PROTÉGER L'ENVIRONNEMENT	12
8. OPERATING PRECAUTIONS.....	13
9. REGULATORY INFORMATION.....	14
10. INFORMATIONS RÉGLEMENTAIRES	16

1. INTRODUCTION

1.1 Brief description

The MOTION SENSOR is a passiv infrated detector device that detects people movement through the room. In addition, it features a thermostat that measures room temperature and humidity.

It has a wireless communication with the lswitch energy saver and sends movement information and the room temperature to the energy saver. The energy saver enables connect or disconnect the room devices depending on the information sent by the motion sensor.

The MOTION SENSOR is standalone and is operated by 3 batteries of 1.5 V LR3 AAA (non rechargeable).



1.2 Shipment content

- MOTION SENSOR
- Screw box (2 screws and 2 number five plugs to fix it in the ceiling. 1 side screw to close the cap.)
- User's and starting up user's guide.

2. INSTALLATION

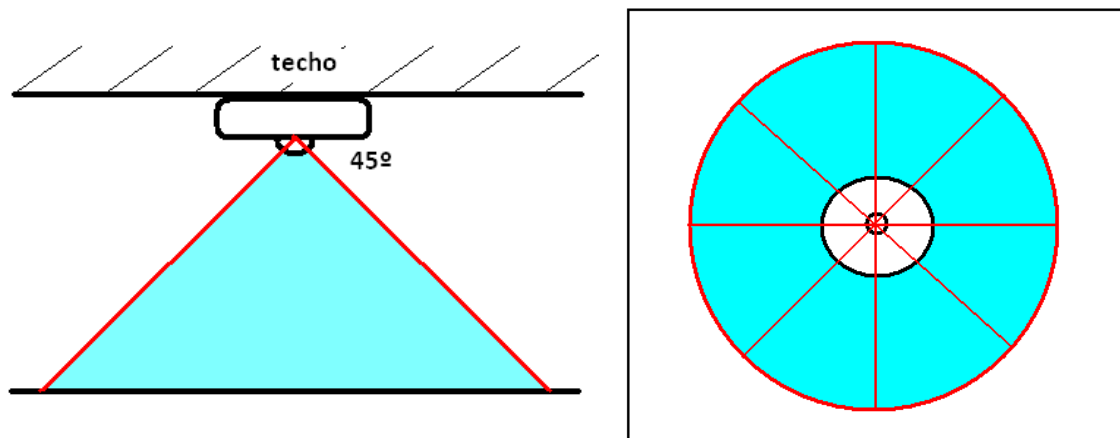
The MOTION SENSOR will be always overhead mounted.

The MOTION SENSOR'S installation is made through 2 screws and 2 plugs. It is required to drill 2 holes of 5 mm thick in the wall, introduce the plugs inside the holes and screw the top cover to the ceiling.

The sensor's cover is released by turning the lower part slightly anticlockwise.



The SENSOR installation position must be taken into consideration. Following is explained the detection coverage for locating it. It may require more that one sensor per room, depending on the room structure.



The shaded parts show the motion sensor's detection area.

It belongs to the round area on the floor with a diameter equal to the sensor installation Height.

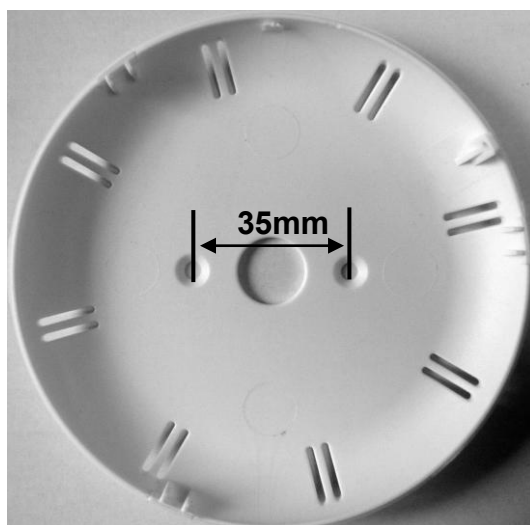
$$\text{Detection } \varnothing = \text{Mounting height} \times 2$$

Maximum Mounting Height = 4 meters

Mounting Height	Detection $\varnothing$
2.5 meters	5 meters
3 meters	6 meters
4 meters	8 meters

2.1 Dimensions

The dimensions and assembly points are shown in the picture below.



2.2 Installation process

The MOTION'S SENSOR installation must be done as follows:

1. Mark two holes on the ceiling with a 35mm distance between them.
2. Drill two holes of 5mm thick with M5 drillbit.
3. Place it including the plugs in the holes.

4. Dismantle the SENSOR by separating the top part from the lower part. Turn it slightly anticlockwise.
5. Place the top cover in the ceiling and screw it using two fixing screws.
6. **SENSOR AND ISWITCH SYNCHRONIZING (Energy saver)...**
 To configure the iSwitch Energy Saver in Synchronization mode, refer to the corresponding manual for each energy saver.
 While the iSwitch Energy saver is SYNC mode, push the inner button of the energy saver with the hand. The red pilot will go on.
 Then the sensor and the energy saver will try to synchronize. The synchronizing will be correct when the sensor blinks red quickly that last around five seconds. Finally the red pilot must go off.
 Repeat it with all the sensor of the same room that must be synchronized with the same energy saver.
7. Place back the lower sensor cover on the top cover turning it clockwise. Make sure that the holes for the side screw coincide.
8. Screw the side screw to lock the top and lower cover.

Note (Sensor desynchronization)

To perform the desynchronization or erasure of the sensors in the iSwitch Energy saver, refer to the corresponding manual of each energy saver. The energy saver deletes the list of the synchronized sensors.

The desynchronization will be necessary in the following situations:

- One it is desired to delete one of the room sensors.
- One a sensor is damaged and is changed by a new one.

After the desynchronization, it is always necessary to synchronize the room sensor with the new energy saver.

The desynchronization is NOT necessary in the following cases:

- When the sensor's batteries are changed.
- When a new sensor is added to the room.

3. OPERATION

The MOTION SENSOR is connected wirelessly to the ISWITCH energy saver. The operation modes are the following:

3.1 saving mode

The MOTION SENSOR is detecting continuously movement inside the room. If during the configuration time no movement is detected within the room, the iswitch disconnects the relay 2 that is usually connected to the air conditioning or to other high consuming device.

3.2 Room comfort option

The energy saver must be pre-configured in this mode for the system to work correctly. In Comfort mode, the volumetric sensor acts by sending the room's temperature and humidity information to the iSwitch energy saver. The iSwitch enables or disables the configured relay or relays whenever there is no presence in the room, maintaining the pre-set comfort temperature.

3.3 Security Option

If the iSwitch energy saver is configured in Security mode, it is possible to know if there has been any intrusion while the client is not in the room. If there is no card inserted in the energy saver and the volumetric sensor detects movement, the iSwitch enables one or several relays as the intrusion alarm signal.

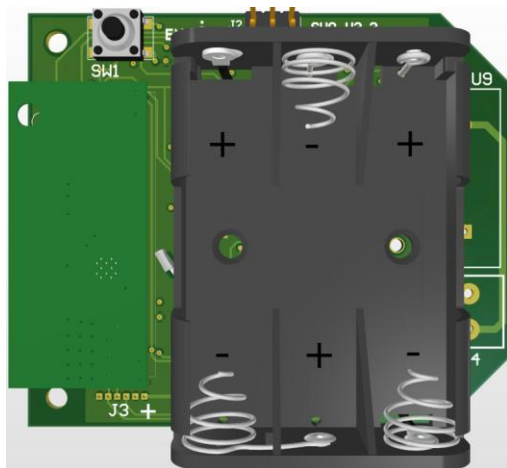
4. MAINTENANCE AND CLEANING

For a long lasting device, please follow these instructions:
Make sure the optic is clean and there is no object glued to it.
Replace the batteries every two years or when the sensor asks by red blinking.

4.1 Battery replacement

When the batteries are about to run out, the sensor warns the users to change them.
The optic's pilot makes **three red blinkings every eight seconds showing low battery**.
In order to replace the batteries, please follow the next steps:

- Let loose the side screw that locks the sensor's cover.
- Hold the low part of the cover and turn it anticlockwise.
- Once you have the lower cover at your hand replace the 3 AAA batteries. Replace it with batteries of the same supplier. Caution: make sure that batteries with the same polarity are used.



- Place again the lower cover on the front cover by turning it clockwise. Keep in mind to coincide the holes for the side screw.
- Screw the side screw.

5. TECHNICAL DATA

DESCRIPTION	Wireless motion sensor for the energy saver
REFERENCE	SVOEIxS
POWER SUPPLY	3 batteries of AAA LR3 1,5 V
AUTONOMY	4 years (Average consumption 30uA, max. 20mA)
COMUNICATIONS	Wireless 2,4 GHz , IEEE 802.15.4
COMMUNICATIONS COVERAGE	10m (Max. distance to the energy saver)
INTERFACE	Red led
TEMPERATURE/HUMIDITY RANGE	Temperature: -40° to 160° Humidity: 0 % rH to 100 % rH
TECHNOLOGY	Infrared passive detector. Fresnel lens
DETECTION COVERAGE	Ø6m if 3m height mounted (coverage depending on the mounting height)
MOUNTING HEIGHT	Between 2,5 -4m
THERMOSTAT ACCURACY	Temperature: ±0.5° (15° to 40°), ±1° (0° to 60°) Humidity: ±3.5% (20% to 80%)
DIMENSIONS	Ø 111mm x 40mm
WEIGHT	120gr.

6. TIPPS FOR PROTECTING THE ENVIRONMENT



The batteries can be damaging if they are not disposed adequately.

Protect the environment by throwing the run-out batteries in an authorized collecting point.

For long lasting batteries, when low battery is detected, do change all the batteries.

7. CONSEILS POUR PROTÉGER L'ENVIRONNEMENT



Les batteries peuvent être dangereuses si elles ne sont pas éliminées correctement.

Protégez l'environnement en déposant les batteries usées dans un point de collecte agréé.

Pour les batteries longue durée, lorsqu'un niveau de batterie faible est détecté, remplacez toutes les batteries.

8. OPERATING PRECAUTIONS

Basic Principles

PaPIRs is a pyroelectric infrared sensor that detects variations in infrared rays. However, it may not detect in the following cases: lack of movement, no temperature change in the heat source. Besides, it could also detect the presence of heat sources other than a human body. Efficiency and reliability of the system may vary depending on actual operating conditions:

1) Detecting heat sources other than the human body, such as:

- a) Small animals entering the detection area
- b) When a heat source for example sun light, incandescent lamp, car headlights etc, or strong light beam hit the sensor regardless inside or outside the detection area.
- c) Sudden temperature change inside or around the detection area caused by hot or cold wind from HVAC, or vapor from the humidifier, etc.

2) Difficulty in sensing the heat source

- a) Glass, acrylic or similar materials standing between the target and the sensor may not allow a correct transmission of infrared rays,
- b) Non-movement or quick movements of the heat source inside the detection area.

3) Expansion of the detection area

In case of considerable difference in the ambient temperature and the human body temperature, detection area may be wider apart from the configured detection area.

9. REGULATORY INFORMATION

FCC ID: **2ASEQSVOXIXS**

IC: **24733-SVOXIXS**

HVIN: **SVOxlxS**

9.1 FCC Compliance Statement (§15.19)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

9.2 ISED Compliance Statement (RSS-Gen)

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

9.3 FCC Class B Digital Device Notice (§15.105)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

9.4 FCC Modification Warning (§15.21)

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

9.5 RF Exposure Statement (§2.1093)

This equipment complies with FCC and ISED radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. The device has been evaluated to meet the general RF exposure requirements. The device can be used in portable exposure conditions without restriction.

10. INFORMATIONS RÉGLEMENTAIRES

FCC ID: **2ASEQSVOXIXS**

IC: **24733-SVOXIXS**

HVIN: **SVOxlxS**

10.1 Déclaration de conformité FCC (§15.19)

Cet appareil est conforme à la partie 15 des règles de la FCC. Son fonctionnement est soumis aux deux conditions suivantes :

- (1) Cet appareil ne doit pas provoquer d'interférences nuisibles, et
- (2) Cet appareil doit accepter toute interférence reçue, y compris les interférences susceptibles de provoquer un fonctionnement indésirable.

10.2 Déclaration de conformité d'ISDE (CNR-Gen)

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) L'appareil ne doit pas produire de brouillage;
- (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

10.3 Avis relatif aux appareils numériques de classe B de la FCC (§15.105)

Cet équipement a été testé et déclaré conforme aux limites d'un appareil numérique de classe B, conformément à la partie 15 des règles de la FCC. Ces limites sont conçues pour fournir une protection raisonnable contre les interférences nuisibles dans une installation résidentielle. Cet équipement génère, utilise et peut émettre de l'énergie radiofréquence et, s'il n'est pas installé et utilisé conformément aux instructions, peut causer des interférences nuisibles aux communications radio.

Cependant, il n'y a aucune garantie que des interférences ne se produiront pas dans une installation particulière. Si cet équipement cause des interférences nuisibles à la réception de la radio ou de la télévision, ce qui peut être déterminé en éteignant et en rallumant l'équipement, l'utilisateur est encouragé à essayer de corriger l'interférence par une ou plusieurs des mesures suivantes :

- Réorienter ou déplacer l'antenne de réception.
- Augmenter la distance entre l'équipement et le récepteur.
- Brancher l'équipement sur une prise d'un circuit différent de celui auquel le récepteur est connecté.
- Consulter le revendeur ou un technicien radio/TV expérimenté pour obtenir de l'aide.

10.4 Avertissement sur les modifications (§15.21)

Attention : Tout changement ou modification non expressément approuvé par la partie responsable de la conformité pourrait annuler le droit de l'utilisateur à utiliser l'équipement.

10.5 Déclaration sur l'exposition aux RF (§2.1093)

Cet équipement est conforme aux limites d'exposition aux rayonnements de la **FCC et d'ISDE** établies pour un environnement non contrôlé. Cet émetteur ne doit pas être co-localisé ou fonctionner en conjonction avec une autre antenne ou un autre émetteur. L'appareil a été évalué pour répondre aux exigences générales d'exposition aux RF. L'appareil peut être utilisé dans des conditions d'exposition portables sans restriction.