

FUBW60120

INSTALLATION GUIDE

Secoris wireless motion detector PIR MW



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1. General Information

1.1. Introduction

Thank you for choosing the **Secoris wireless motion detector**, a product from ABUS Security Center (also commonly referred to as "ABUS").

This manual contains important descriptions, technical data, overviews and further information on project planning, commissioning, and operation of the **Secoris wireless motion detector** in conjunction with the Secoris or Secvest intruder alarm system.

The products/systems described here may only be installed and maintained by persons who are qualified for the respective task. Qualified personnel for the installation and maintenance of the system is generally a trained ABUS specialist partner.

Translated with www.DeepL.com/Translator (free version)

1.2. Intended Use/ Legal Information

The responsibility for the legally compliant use of the product lies with the purchaser or customer and the end user. In accordance with the manufacturer's liability for its products as defined in the Product Liability Act, the above information must be observed and passed on to the operators and users. Non-compliance releases ABUS Security Center from legal liability.

Non-compliant or unusual use, repair work or modifications not expressly authorized by ABUS and improper servicing can lead to malfunctions and must be avoided. Any modifications not expressly authorized by ABUS will result in the loss of liability, warranty and separately agreed guarantee claims.

Architects, technical building planners (TGA) and other consulting institutions are required to obtain all necessary product information from ABUS in order to fulfill their information and instruction obligations in accordance with the Product Liability Act. Specialist dealers and installers are required to observe the information in the ABUS documentation and to pass it on to their customers if necessary.

Further information can be found at www.abus.com on the general page or for dealers and installers in the partner portal at www.partner-asc.abus.com

1.3. Customer Service / Customer Support

Our support team is available for further assistance: support@abus-sc.com

General information on the Secoris wireless motion detector can be found on our homepage at <https://abus.com/products/FUBW60120>

1.4. Imprint

1st edition German 04/2024

This edition becomes invalid with the publication of newer installation instructions.

All rights reserved. No part of these installation instructions may be reproduced in any form or duplicated or processed using electronic, mechanical or chemical processes without the written consent of the publisher.

ABUS Security Center accepts no liability for technical or typographical errors and their consequences. The information in these installation instructions has been compiled to the best of our knowledge and belief, taking into account the current state of the art. They are checked regularly and updated or corrected as necessary. corrected if necessary.

All trademarks and industrial property rights are recognized; changes in the sense of technical progress can be made without prior notice.

1.5. Explanation of Symbols

The following symbols are used in this manual:

Symbol	Signal Word	Meaning
	Caution	Indicates a risk of injury or health hazards caused by electrical voltage
	Important	Indicates possible damage to the device/accessories or a risk of injury or health
	Note	Indicates important information

2. Functional Principle and Performance Features

2.1. Product Features

The **FUBW60120 wireless motion detector** is a passive infrared & microwave indoor detector for joint use with the Secoris intruder alarm system or Secvest wireless alarm control unit. It communicates with 868 MHz narrowband receivers from ABUS. The PIR/MW detector detects the movements of bodies and has a fan-shaped sensitive area of approx. 10 m radius with an opening angle of 85°. The housing is protected by an internal tamper contact and a lift-off contact (wall demolition).

Main features:

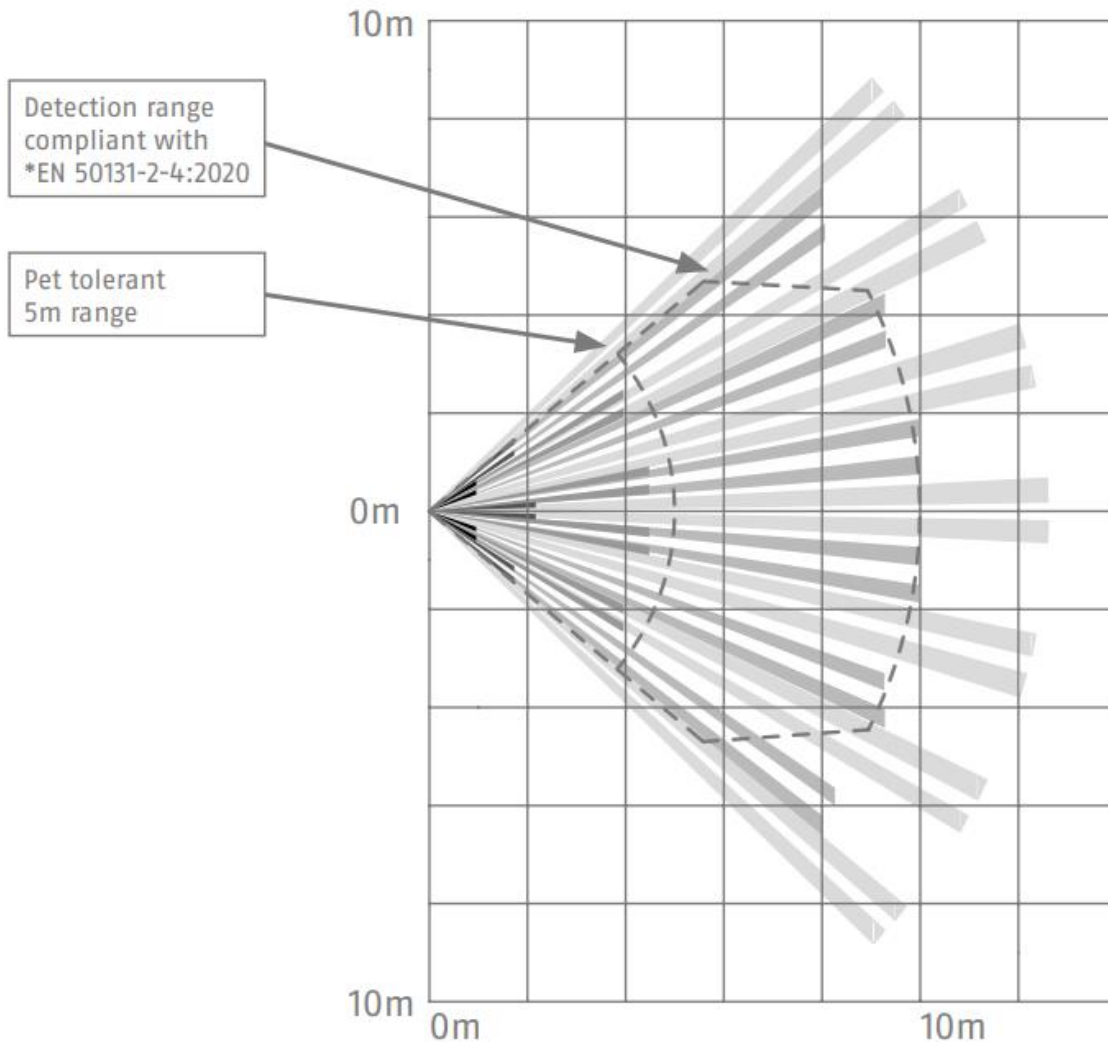
- Wall or corner mounting
- Reliably detects movements using a passive infrared sensor and a microwave sensor
- Optional LED display for motion detection
- Large wireless range
- Impact-resistant design
- Tamper monitoring thanks to cover and wall tear-off contact
- Simple installation
- Monitoring of the wireless connection via supervision message
- Voltage monitoring and low battery message.
- Operating modes for use with the Secoris (Secoris wireless) or Secvest (Secvest wireless) intruder alarm system.
- Certified to EN 50131 Grade 2

Main features in Secoris radio mode:

- Radio communication is AES128 encrypted and replay-safe
- The detector is configured via the alarm panel (control panel or web interface)
- Extended diagnostic functions (signal strength display on the detector, locating function)
- Minimization of radio interference through adjustable radio frequency in the range 868.0 - 868.51 MHz

2.1.1. Reach and Opening Angle

The **FUBW60120** has a range of 10 meters with an opening angle of 85°.

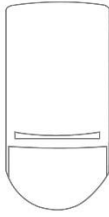
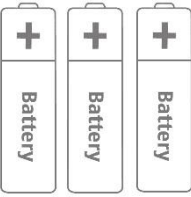


2.1.2. Rest Period

The idle time function is integrated in the detector to extend the battery life. The idle time of the detector is 3 minutes. This means that the detector does not detect any further movement for 3 minutes after detecting movement.

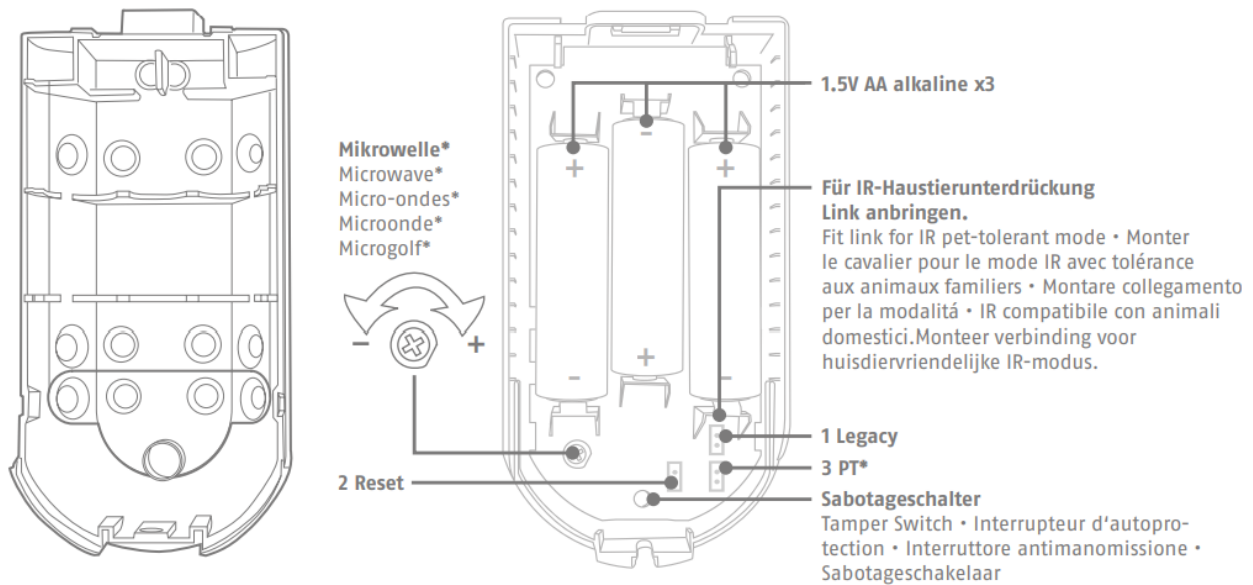
To simplify the detector test for you, the idle time is only 10 seconds in the first 30 minutes after inserting the battery or after pressing the tamper switch.

2.2. Scope of Delivery

		
1 x FUBW60120 Sensor	3 x AA-Battery (1,5 V) 2,3 Ah	1 x Housing Screw
		
1 x Safety Instruction	3 x Jumpers	1 x Quick Guide

2.3. Device Description

Product Structure



* Important note: This jumper setting is only effective if the product is operated in Secvest radio mode.

Steckbrücke Jumper • cavalier • trui • jumper • jumper			
1	Legacy		Secoris-Funk-Modus Secoris RF mode • Secoris mode radio • Secoris radiomodus • Secoris radiomodus • modalita radio Secoris
			Secvest-Funk-Modus Secvest radio-mode • Secvest mode radio • Secvest radiomodus • Secvest radiomodus • Secvest modalità radio
2	Reset		Normalbetrieb normal operation • mode normal • normaal gebruik • Normal drift • Funzionamento normale
			Werkseinstellungen Factory settings • Paramètres d'usine • Fabrieksinstellingen • Fabriksindstillinger • Impostazioni di fabbrica
3	PT*		Haustierimmunität aus PET immunity off • immunité des animaux désactivée • huisdierimmunititeit uitgeschakeld • Immunitet af kæledyr slukket • Immunità degli animali disattivata
			Haustierimmunität an PET immunity on • immunité des animaux activée • huisdierimmunititeit ingeschakeld • Immunitet af kæledyr tændt • Immunità degli animali attivata

 Note	When pet immunity is switched on, the Secoris wireless motion detector is not compliant with EN 50131-2-2:2021
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2.4. Compatibility

The **Secoris wireless motion detector** is compatible with the following products

Control panels:

- Secoris ESEZ60500 and ESEZ70500 via radio extension BUM060040 or BUM060030 o Required control panel firmware version: 2.00.09 or higher.
- Secvest FUAA50000 and Secvest Touch FUAA50500 o Required control panel firmware version: 3.00.11 or higher.

Components:

- Secoris wireless repeater FUM060010
- Secvest wireless repeater FUM050010

Der **Secoris Funk-Bewegungsmelder** ist mit folgenden Produkten kompatibel

2.5 Technical Data

Product name / Article number	Secoris wireless motion detector PIR MW/ FUBW60120
Dimensions (WxHxD)	55 x 115 x 55 mm
Weight	112 g (without Battery) 180 g (with Battery)
Display	Status LED for S/W status, IR teach-in, detection/transmission display (only in the first 30 min) and signal strength display (green / yellow / red)
Operating Temperatur	-10 °C to +55 °C
Environmental class	II (EN 50131-1 + + A1 + A2 + A3)
Humidity	Average relative humidity approx. 0 - 95%, non-condensing
Radio Frequency	Secoris Radio: 868.0 - 868.5 MHz / G2FSK Secvest Radio: 868.6625 MHz / G2FSK
Power, Radio	10 mW
Radio Range	Max. 700m Free field
Required Signal Strength	The value must be at least 3 and ideally > 5
Optimum Mounting Height	Between 2 m and 2,4 m
Detection Range	10 m x 85° (5 m x 85° with pet immunity on) Note: FUBW60120 is not compliant with EN 50131-2-2:2021 when pet immunity is switched on.
Operating Voltage	4,5V DC
Undervoltage threshold value of the batteries / reset	"Empty battery" fault at <3.5V If the voltage falls below the threshold of 3.5V, a fault message is transmitted to the control panel / reset at 3.8V
Power Consumption	15 µA (Quiescent current), 23 mA max.
Battery Type	3 x AA Alkaline Battery 1.5 V / 2.3Ah Duracell Procell MN1500, (ABUS-Art.Nr.: AZBT10100) Duracell Industrial ID1500, or Eveready Energizer E91
Battery Life	Up to 5,5 Jahre
Design of the power supply	Typ C (50131-1+A1+A2+A3)
Microwave Frequency	24.15 GHz
Microwave Transmisson Power	Max. 20 mW
Security Level	EN 50131 Grade 2
Tamper protection (detection / protection)	Yes
Conformity	is compliant with EN 50131-2-2:2021 and EN 50131-5-3:2017 when properly installed in conjunction with the Secoris BUS wireless extension BUM060030 or Secvest wireless alarm system FUAA50xxx. Note: FUBW60120 is not compliant with EN 50131-2-2:2021 when pet immunity is switched on.
Certification body:	 EN 50131-2-6:2008 EN50131-5-3:2017
EU-Guidelines	RED: 2014/53/EU, RoHS: 2011/65/EU, ErP: 2009/125/EU General Safety: 2001/95/EG

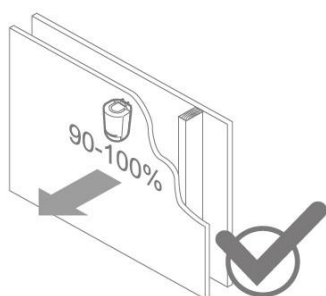
3. Commissioning & Assembly

3.1. Selecting the installation location

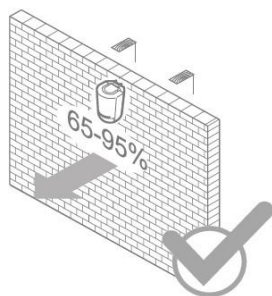
- Select a mounting location that is within the wireless range of the receiving device (alarm panel or wireless extension).
- Only install the detector after checking the wireless signal strength (see step 3.3.3 or in Secvest wireless mode by using the wireless test box).

 Note	The detector must not be installed in the following locations: • at a distance of less than 1m from the house electrics or power distribution boards - inside metal enclosures or near or on large metal structures. • near high-voltage equipment or electronic devices such as computers, photocopiers or other radio equipment • Near heat sources and windows • near the floor
 Note	The radio range is limited when installed near: • Metal pipes • power lines • metal surfaces • Electrical appliances or radio transmitters

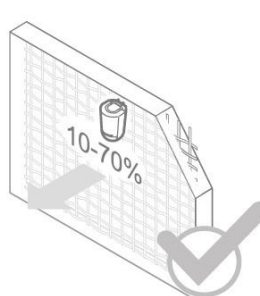
Holz und Gips
Wood & plaster • Bois et plâtre
• Hout en gips • Træ og gips •
Legno e intonaco



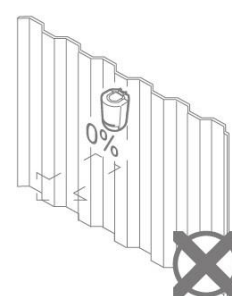
Backstein
Brick • Brique • Steen •
Mursten • Mattone



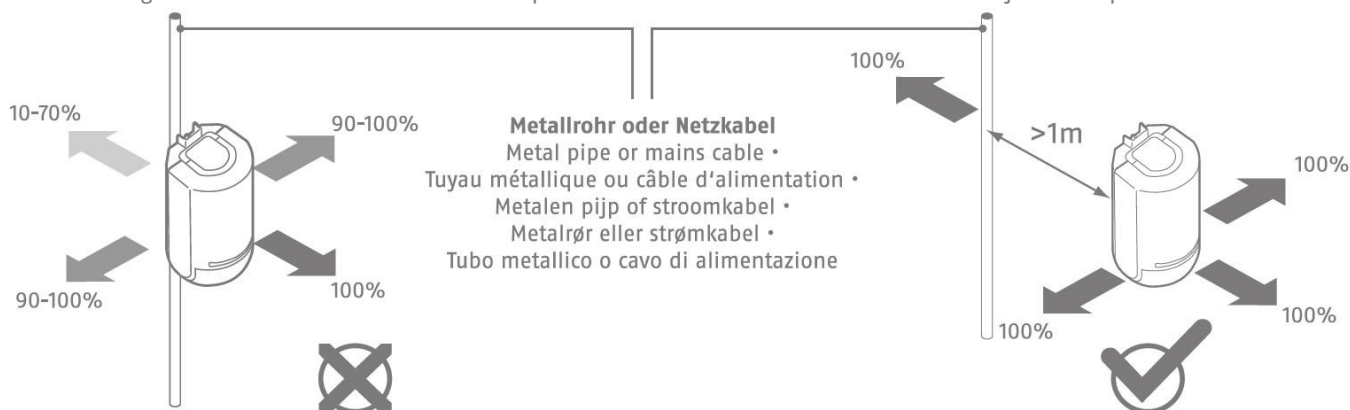
Beton
Reinforced concrete •
Béton armé • Gewapend beton •
Armeret beton • Cemento armato



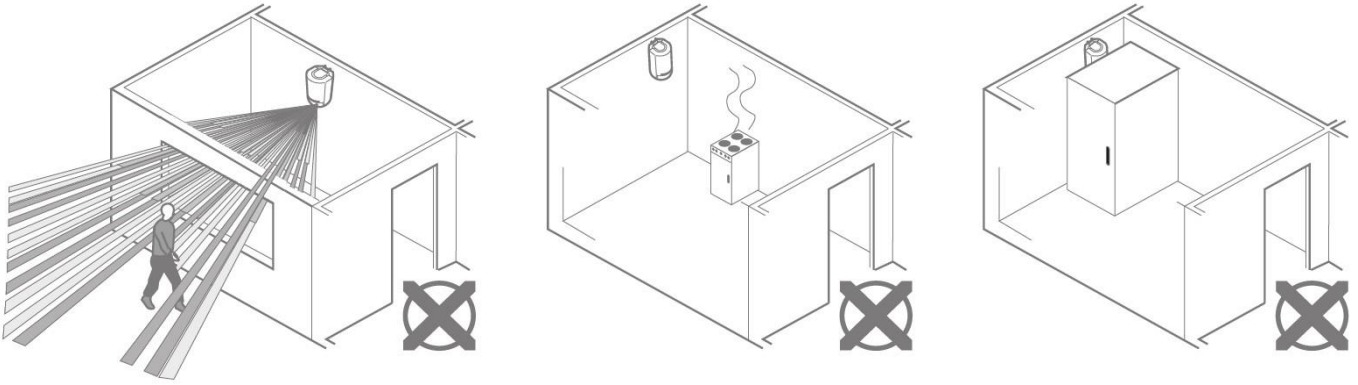
Wellblech
Sheet steel • Tôle d'acier
• Plaatstaal • Stålblade •
Lamiera d'acciaio



Avoid installing the detector on or near metal. Keep a minimum distance of 1 m from metal objects and power cables.



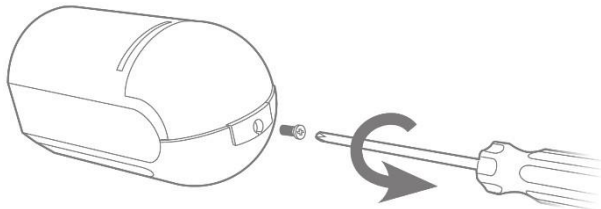
Also ensure that the detector's field of vision is not partially or completely obscured. Do not point the detector's field of vision towards a window, radiator or ventilation.



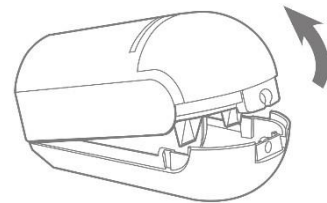
3.2. Checking the Detector Settings

- Open the detector housing

1.



2.



- Remove the battery
 - When delivered, the battery is either secured with plastic strips or packed separately.
- Check the jumpers (see 2.3. Device Description)
 - On delivery, all jumpers are not plugged in (i.e. only attached with one pin)
 - This means that the detector starts in Secoris radio mode after the battery is inserted.
- Set the "Legacy" jumper to operate the detector in Secvest radio mode.



Set the radio mode before putting the device into operation.

- Switching from Secoris radio to Secvest radio is only possible if the detector has been reset beforehand. (See 3.3.6. Resetting the detector)

3.3. Commissioning in Secoris Radio Mode

3.3.1. Inserting the batteries

To start the detector in Secoris radio mode, insert the batteries into the battery compartment. Make sure that the legacy jumper is not inserted.

3.3.2. Teaching in the Detector

- Enter the installer menu
- Start the teach-in mode on your Secoris under "Detectors/components - Detectors - Add/delete detectors - Select radio extension - Free MG"
- Press the tamper switch on the detector - the LED then starts to flash quickly
- You will receive confirmation of the successful operation on the control panel display

3.3.3. Testing the Signal Strength

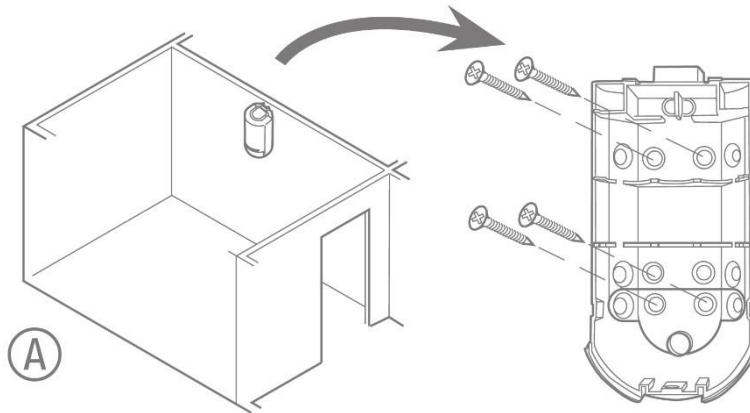
You can check the signal strength of the detector in the Secoris menu under "Test - Signal strength - Detector".

3.3.4. Installing the Detector

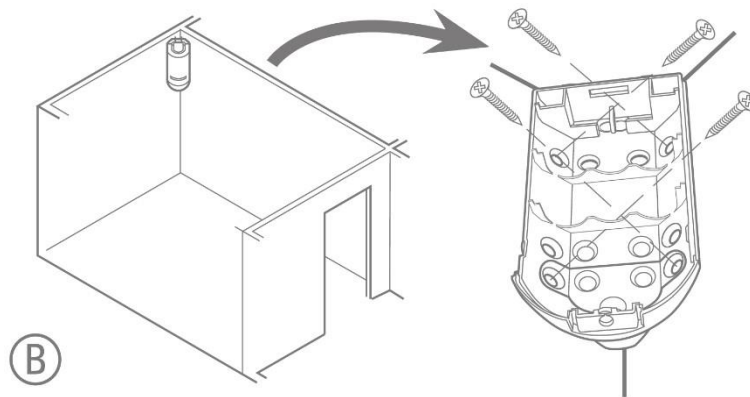
Proceed as shown in the illustration below.

1. Use the respective pre-punched holes for corner or wall mounting

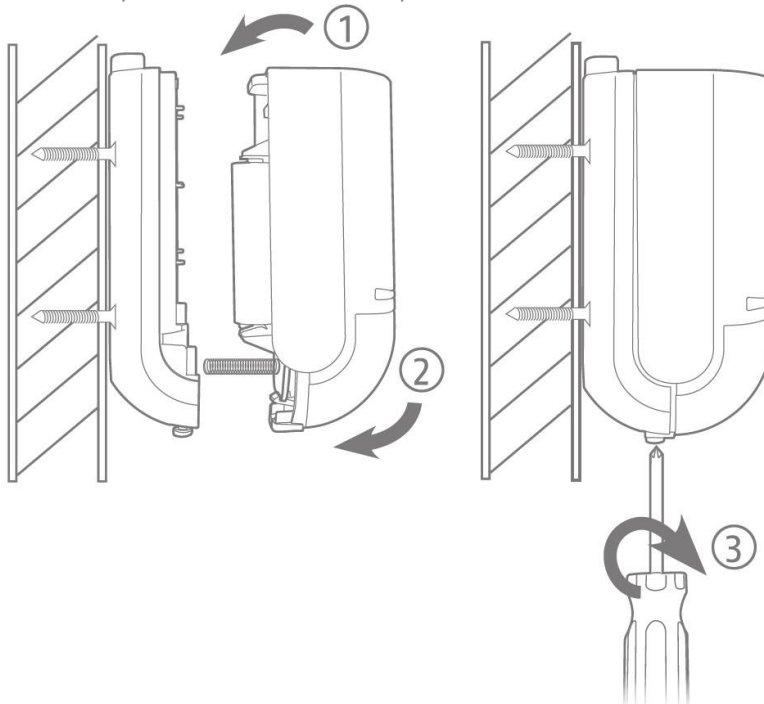
A. Wall Mounting



B. Corner Mounting



2. Hook the top of the detector into the part attached to the wall and close it with the screw on the underside.



3.3.5. Testing the Detector Function

To ensure that your detector is working properly, you should carry out a walk test.

- Enter the installer menu on the Secoris
- Call up the "Test - Walk test - System" menu item
- Trigger a tamper on the detector - an "S" appears behind the detector group on the Secoris display
- Check the triggering of the motion sensor by walking through the detection area. Observe the detector's idle time (see 2.1.2. Rest Period)

3.3.6. Resetting the detector

After deleting the detector from the Secoris, it is also necessary to reset the detector itself. It is then possible to reprogram the detector or operate it in a different radio mode.

- Remove the battery from the detector
- Place the jumper on both pins of the reset jumper
- Insert the battery - the detector's red LED flashes twice per second
- Remove the reset jumper within 10 seconds - the detector acknowledges the reset with a double flash

3.4. Commissioning in Secvest radio mode

 Note	The Secvest radio mode is explained here using the Secoris system as an example - but applies equally to the Secvest intruder alarm system.
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3.4.1. Inserting the Batteries

To start the detector in Secvest radio mode (Legacy), first insert the Legacy jumper as described in 3.2 and then insert the batteries into the battery compartment.

3.4.2. Teaching in the Detector

- Enter the installer menu
- Start the teach-in mode on your Secoris under "Detectors/components - Detectors - Add/delete detectors"
- Select radio extension - Free MG"
- Press the tamper switch on the detector
- You will receive confirmation of the successful process on the control panel display

3.4.3. Checking the Signal Strength

You can check the signal strength of the detector in the Secoris menu under "Test - Signal strength - Detector".

3.4.4. Installing the Detector

See 3.3.4

3.4.5. Testing the Detector Function

- Enter the installer menu on the Secoris
- Call up the "Test - Walk test - System" menu item
- Trigger a tamper on the detector - an "S" appears behind the detector group on the Secoris display
- Check the triggering of the motion sensor by walking through the detection area. Observe the idle time of the detector

3.4.6. Resetting the Detector

It is not necessary to reset the detector when using legacy mode. If the detector was previously used in Secoris radio mode, proceed as described in 3.3.6.

3.5. Programming the control panel

After programming the detector, you can edit the type and properties of the detector and adapt them to your requirements. A list of the types and properties can be found in the Secoris installation instructions.

The following additional adjustments can also be made to the **FUBW60120** in Secoris radio mode:

- LED -> ON/OFF
- High sensitivity-> Enabled / Disabled
- Activate or deactivate pet immunity

4. Functionality & Maintenance

4.1. Functionality of the LEDs

The LED behavior of the motion detector differs in Secoris radio mode and Secvest radio mode.

LED behavior in Secoris radio mode:

3x all 5 Seconds	red	MD is not programmed into any control center
Continuous rapid flashing	red	Detector is in teach-in mode
2x Flashing	green	Key exchange successful - detector successfully taught-in
2x rapid flashing every 1 sec. for 10 seconds	red	Reset mode started
1x Flashing	red	Action was carried out -> Movement was detected
4x Flashing (repetition)	red	Disconnection
5x Flashing (repetition)	red	Jamming (Radio overlay)
Continuous Flashing	yellow	Legacy jumper was set without resetting the detector

LED behavior in Secvest radio mode:

1x Flashing	red	Action was carried out -> Movement was detected
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4.2. Error and sabotage monitoring

The detector continuously monitors fault and sabotage states and reports all events to the control panel.

The following is monitored:

Tamper contact: The tamper contact of the detector is continuously monitored.

Battery voltage: The detector monitors the battery voltage and reports faults to the alarm panel. Supervision: The detector continuously sends supervision messages to the alarm panel.

4.3. Maintenance

 Important	Before opening the sensor cover, make sure that the alarm panel is in installer mode. This prevents the tamper alarm from being triggered.
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During routine maintenance, check that the detector is working properly.

Check the tamper contact.

Check the functionality of the detector by walking through the detection zone.

Clean the detector as required.



Note

After removing the old battery, wait 30 seconds before inserting the new battery.

To replace the batteries:

- Set the control panel to installer mode.
- Loosen the screw on the sensor cover and open the cover.
- Remove the battery.
- Wait 30 seconds and insert the new battery.
- Close the cover and tighten the cover retaining screws.
- Test the system.

5. Warranty

- ABUS products are designed and manufactured with the utmost care and tested in accordance with applicable regulations.
- The warranty only covers defects that are attributable to material or manufacturing defects at the time of sale. If there is evidence of a material or manufacturing defect, the module will be repaired or replaced at the discretion of the warrantor.
- In these cases, the warranty ends with the expiry of the original warranty period of 2 years. Further claims are expressly excluded.
- ABUS is not liable for defects and damage caused by external influences (e.g. transportation, use of force, incorrect operation), improper use, normal wear and tear or failure to observe these instructions.
- When asserting a warranty claim, the original proof of purchase with the date of purchase and a brief written description of the fault must be enclosed with the product in question.
- If you discover a defect in the detector that was already present at the time of sale, please contact your seller directly within the first two years.

6. Disposal Instructions



Dispose of the device in accordance with the Waste Electrical and Electronic Equipment EU Directive 2012/19/EU - WEEE (Waste Electrical and Electronic Equipment). If you have any questions, please contact the local authority responsible for disposal. Information on collection points for your old appliances can be obtained, for example, from the local municipal or city administration, the local waste disposal companies or from your dealer.

Disposal of batteries

Lithium batteries and rechargeable battery packs should only be returned to the collection points when discharged! Please take precautions against short circuits (e.g. by insulating the terminals with adhesive tape).

7. Conformity

7.1. EU Declaration of Conformity

Hereby, ABUS Security Center GmbH & Co. KG hereby declares that the radio equipment type **FUBW60120** is in compliance with Directive 2014/53/EU. The full text of the EU Declaration of Conformity is available at the following internet address abus.com > Article search > **FUBW60120** > Downloads

7.2. Conformity according EN 50131

The **FUBW60120** is compliant with EN 50131-2-6:2008 and EN 50131-5-3:2017 when properly installed in conjunction with the Secoris BUS wireless extension BUM060030 or Secvest wireless alarm system FUA50xxx.

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