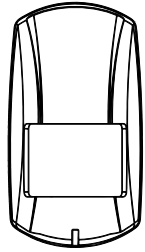


SECOLink®

INTRUDER ALARM SYSTEM



BP2vP, BP2vP_pet

WIRELESS MOTION AND TEMPERATURE DETECTOR

INSTALATION INSTRUCTION

1. INFORMATION

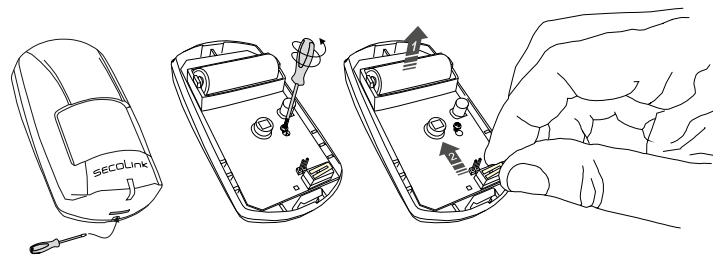
Wireless detectors BP2vP or BP2vP_pet are designed for use inside the premisses, where it is necessary to secure the area with a radius of 15 meters. The detector BP2vP_pet is equipped with a PET immune lens and ignore the animals up to 25 kg. In the narrow and long premisses (up to 20 meters long) is recommended to use detector with a replaceable corridor type lens (optional).

The wireless detector has a built-in digital thermometer. It is used for temperature compensation and can also be programmed as an extra temperature zone. The measured temperature can be seen in the keypads, using application SECOLINK PRO and in online service platform ALARMSERVER.NET.

Detector operates within the SECOLINK intruder alarm system, by connecting via the two-way, encrypted protocol to the receiver. The communication range is up to 100 meters in the premisses. In addition, the detector can be used as part of third-party security system unit due to the EXT11 module integration.

To save energy the detector is going to the sleep mode when signal about detected motion is delivered to the receiver. Sleep time last 4 minutes.

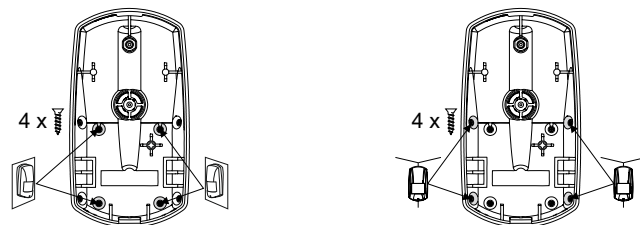
2. DETECTOR



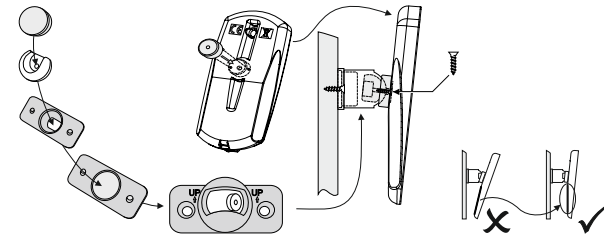
Battery CR123A (included)

LED Tamper switch

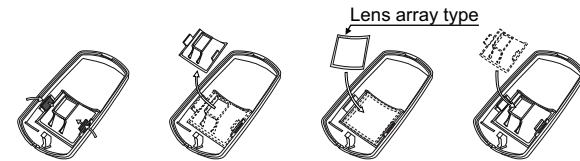
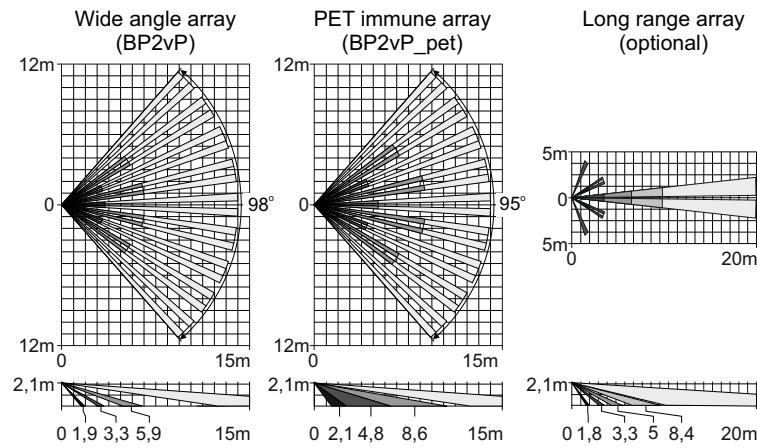
Mounting knockouts:



Using bracket:

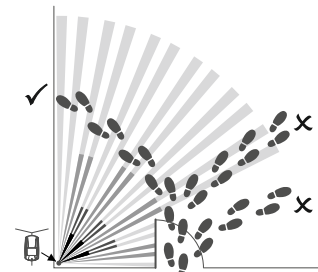


3. DETECTION PATTERN

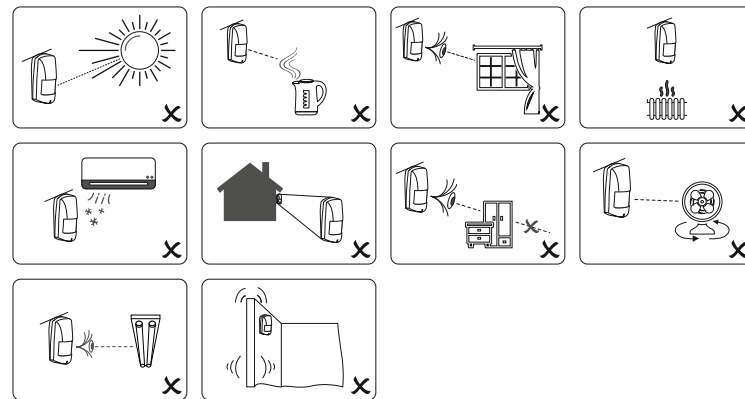


4. CHOOSING A LOCATION

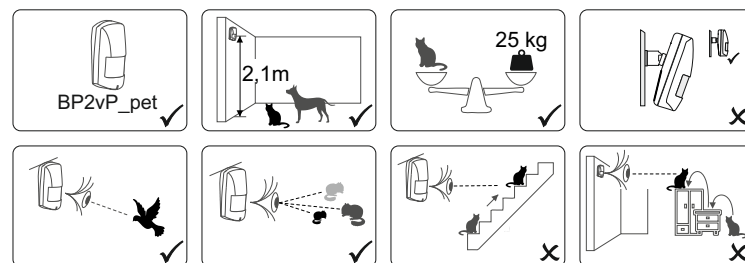
The detector performs best when it detects the motion crossing the beam (-s); it is less sensitive detecting motion toward/backward the detector.



Avoid common false alarm sources:



5. PET IMMUNITY GUIDELINES (for BP2vP_pet)



6. PROGRAMMING

Get into service mode (default PIN codes: first user – 0001, service – 0000):

Main menu ▶ Service Mode ▶ System Setup ▶ Zones

6.1. SETTING UP ADDRESS OF THE ZONE

- Press [7] or [★] for a next zone.
- Give an appropriate name to the zone **1**.
- Enter the correct zone address in MA_Z format **2**, where MA is a module address in the system and Z is a zone number in the module.
- Enable zone using loop type *Wireless* **3**.

Z01 Living room		
1 Name	Living room	← 1
2 Address	12_1	← 2
3 Loop type	Wireless	← 3
...		

Default module address:

- ♦ P16-EXT116VM – 12
- ♦ P32-EXT116VM – 12 and 13
- ♦ P64-EXT116VM – 12, 13, 14 and 15

6.2. ENROLMENT

Wireless detectors, starting from firmware version 2.000, can be enrolled in two ways:

- ♦ by entering serial number and setting up other related settings **4**;
- ♦ by entering the *Operation code* **5**.

Z01 Living room		
1 Name	Living room	
2 Address	12_1	
3 Loop type	Wireless	
4 Serial No.	12599300	← 6
Model	BP2vP	← 7
Loop (zone)	Motion (PIR)	
Detect tamper	Yes	← 8
Battery	CR123A	
5 Operation code	181	
6 PIR sensitivity	Normal	← 13
7 Pulse counter	2 pulses	← 14
...		

❗ **TIP!** When enrolling, the detector must be within range of the receiver. However, it's still good practice to bring the detector as close to the panel as possible during enrollment.

6.2.1 ENROLMENT USING SERIAL NUMBER

Enrolment using serial number is a two step process:

- ♦ **1step.** Enter detector serial number **1**. The keypad will identify the detector's type **7** and will show all other related settings that are required for enrolment **8**.

▲ **Important!** Set the correct battery type as soon as the serial number of the detector is entered and the battery type setting menu appears (see section 6.5).

- ♦ **2step.** SERVICE MODE DOES NOT HAVE TO BE ENTERED AT THIS STEP! To complete enrolment, the detector must be activated to send a signal to the receiver. It could be done by triggering the detector's loop (zone) OR by pressing the tamper switch.

When wireless device is not enrolled all its zones are marked with a phrase *Not activ.* **9** in menu *Wireless communication*.

Technical information ▶ Wireless communication

Wireless communication		
...		
Detect status		
1 Entry doors	Not activ.	← 9
2 Window	LR	← 10
3 Living room	No SN.	← 11
4 Kitchen	only LR	← 12
...		

When the device is successfully enrolled, the mode *LR* or *ES* will be displayed next to its all zones **10**. Phrase *No SN.* will be displayed when wireless zone is enabled, but serial number of the detector is not entered **11**. Phrase *only LR* **12** will be displayed when the detector supports only the *LR* mode.

6.2.2 ENROLMENT USING OPERATION CODE

Enter wireless detector's *Operation code* **5** and press the [ENT] key.

When enrolment has started, immediately press the detector's tamper switch for a short period of time (~1 sec).

Operation codes:

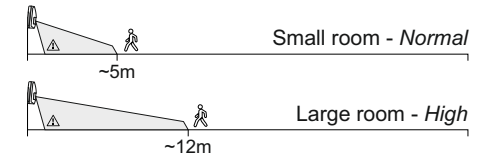
181	180
Motion	Temperature

The same *Operation code* **5** field is used to delete the particular detector or all detectors from the particular module:

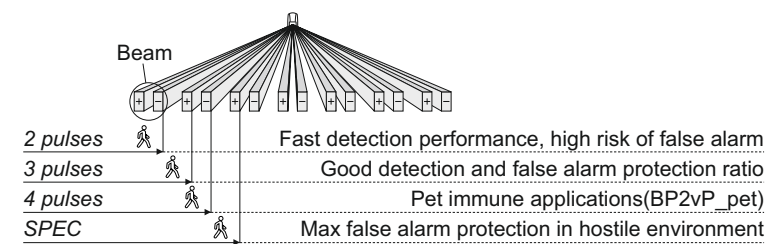
255	254
Delete single	Delete all

6.3. SENSITIVITY AND PULSE COUNTER

To reduce the risk of false alarms always select the lowest sensitivity (coverage) **13** possible for the installation.



Pulse counter **14** determines the amount of beams that need to be crossed before the detector will send the alarm signal.



6.4. TEMPERATURE ZONE

Temperature field **15** is visible when the detector is enrolled as a temperature sensor **16** AND the definition *24h High temperature* or *24h Low temperature* **17** is programmed. The system will generate the *technical alarm* when the programmed temperature threshold is reached. Temperature zone violation can trigger a PGM output. Use the zone attribute *No alarm* **18** to avoid loud technical alarm (for example: to silently trigger the PGM output).

Z02 Temperature		
4 Serial No.	12599300	
Model	BP2vP	
Loop (zone)	Temperature	← 16
Detect tamper	Yes	
5 Operation code	180	← 16
...		
9 Definition	24h Low temp	← 17
11 Temperature	+30C	← 15
13 No alarm	Yes	← 18
...		

Information about the present temperature is sent during polling time or when temperature changes more than 2°C.

The temperature will be displayed at the bottom bar of the system's keypad screen (KM24G, KM25) or in technical information menu, as well as in the service platform ALARMSERVER.NET and in the application SECOLINK PRO (extra services required).

❗ **TIP!** It is not necessary to create an extra zone for a purpose just to monitor the temperature in the premisses. It will be also displayed along with the zone that is used to detect the motion (PIR).

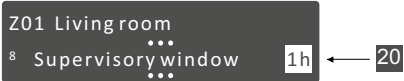
6.5. BATTERY

SECOLINK wireless detectors were equipped with different types of batteries depending on the year of manufacture. The latest version of the BP2 detector series BP2vP or BP2vP_pet is supplied with a CR123A battery **19**. If you are trying to add a detector to an older system and you don't see a CR123A battery, choose a CR2 battery instead.

Z01 Living room		
1 Name	Living room	
Battery	CR123A	← 19
5 Operation code	181	
...		

6.6. SECURITY GRADE, SUPERVISORY WINDOW

The wireless detector periodically sends a supervision signal to a receiver. If the system does not receive supervision (or alarm signal) signal from a specific detector, the detector is regarded as inactive. The amount of time after which a detector is considered inactive is called the *Supervisory window*²⁰.



Supervisory window and periodic supervision signal sending are directly related to selected security grade²¹ in the system (see Table 1).

🔑 Main menu ▶ Service Mode ▶ System Setup ▶ Wireless Subsystem



Table 1. Security grade

Name	Periodic supervision signal	Supervisory window	Application
Grade 1	every 1h	1h	♦ minimal risk of planned robbery.
Custom	every 1h	0 - 24h (0 = disabled)	♦ due to repetitive supervisory loss, the <i>Supervisory window</i> can be expanded from 1 to 24 hours ²⁰ ; ♦ it is not necessary to meet requirements of Grade 1.
Grade 2	every 20 min	20 min	♦ low to medium risk of planned robbery.

⚠ **Important!** wireless detector supervision is postponed for 3h after changing the *Security grade*²¹ from *Grade 1/Custom* to *Grade 2* or after restart of the system/module.

7. COMMUNICATION MODE SELECTION

Wireless devices, starting from version 2.000 support new communication mode, that can be selected in menu *Mode*²²:

🔑 Service mode ▶ System setup ▶ Wireless Subsystem

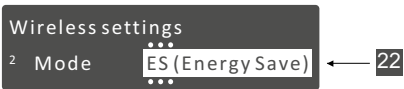
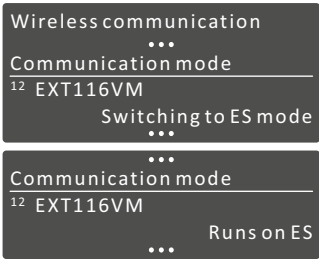


Table 2. Mode comparison

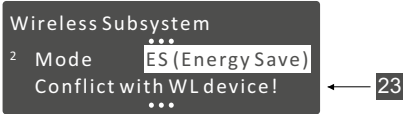
Mode	Distance	Battery life	Application
LR	●●●●●	●●●●○	♦ harsh environment for a signal to travel (ex. concrete walls and ceilings); ♦ long range; ♦ less than 32 wireless devices in the system.
ES	●●●●○	●●●●●	♦ suitable environment for a radio signal to travel (ex. wooden walls); ♦ middle range; ♦ more than 32 wireless devices in the system;

The newly set communication mode will be applied in the system when all enrolled wireless devices will communicate with a receiver. The actual system status is displayed at the menu *Wireless communication*:

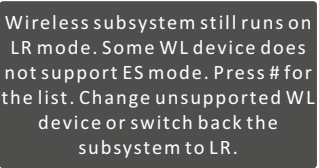
🔑 Technical information ▶ Wireless communication



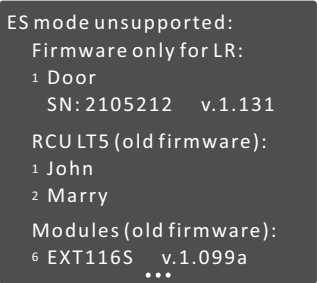
The conflict can occur when the mode *ES*²² is chosen in the system with the older wireless devices that supports only the *LR* mode. The new setting will not be applicable and an error will be displayed on screen upon changing the mode²³:



on main screen:



after pressing key [#]:

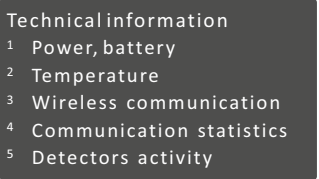


The error message that *ES* is not supported is also displayed in the corresponding user (LT5), wireless zone or module editing menu. All errors will be displayed until all older wireless devices will be replaced (upgraded) OR when *Mode*²² will be changed back to the *LR*.

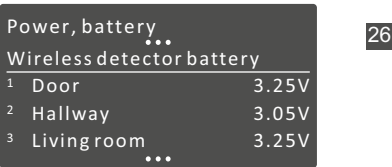
8. TECHNICAL INFORMATION

To evaluate wireless detector work get into technical information menu:

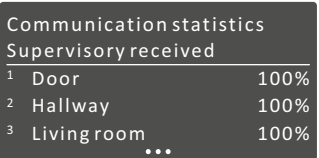
🔑 Technical information



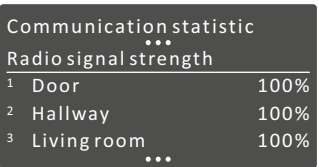
Battery life²⁴ of wireless detectors depends on the environment, usage, and the specific wireless devices being used. Factors such as humidity, high or especially low temperatures, large variations in temperature may all reduce the actual battery life in a given installation. When the battery is nearly dead, the detector will send a low battery signal to the alarm system for the user to replace it before it discharges completely.



Supervisory²⁵ is expressed in percentages, measured while system is armed in AWAY or MAX AWAY modes. This value indicates how well the detector and receiver communicates. Take the necessary actions to improve the signal quality if the supervisory value is not in an acceptable range! Even a simple action, like changing the location of the detector might significantly improve the reception quality.

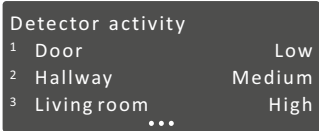


Radio signal strength²⁶ in a wireless environment indicates how well the control panel or module can „hear“ a signal from the detector.



Detector activity is expressed in words²⁷, showing the average number of all the signals received (excluding the supervision signal) from a single detector per day during a 1 week period of time.

- ♦ *Low* – from 0 to 12 violations;
 - ♦ *Medium* – from 12 to 24 violations;
 - ♦ *High* – 24 to 30 violations;
 - ♦ *Very high* – from 30 and more.
- Higher activity decreases the estimated battery life time.

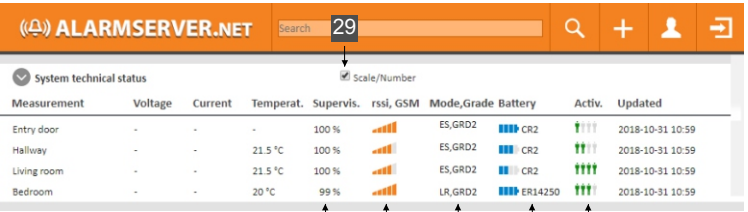


To keep the system well maintained it is recommended for installers to use ALARMSERVER.NET online services. To see the extended technical information, the system should be added to the installer's account and should be programmed to periodically send the technical information to the server²⁸.

🔑 Main menu ▶ Settings ▶ www.alarmserver.net ▶ Reporting ▶ Technical information



Remove checkbox²⁹ to see specific parameter values.

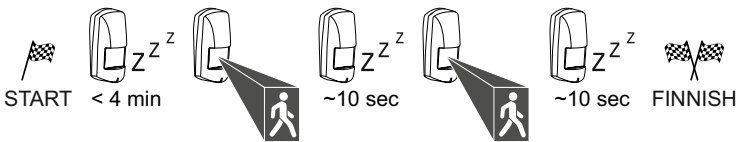


9. TEST

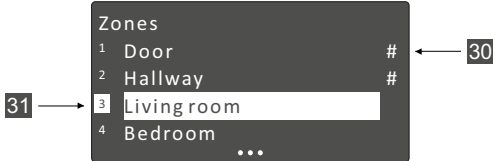
Get into test mode menu:

🔑 Main menu ▶ Test ▶ Burglary zone test

When performing a zone test, the detector must be left idle for 4 minutes. Once 4 minutes has passed, create motion in front of the detector to see if the detector is both detecting motion and transmitting to the receiver.



When signal from detector is received the zone is marked with #³⁰. The detector will instantly go to sleep mode for ~ 10 seconds after successfully transmitted signal. To end testing press [ENT].

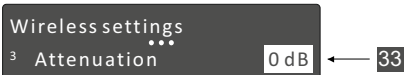


Keypad KM24G and KM25 has a feature that allows to choose the one zone or few zones that only needs to be tested³¹. To select the zone (-es) use the keypad key [#].

10. IMMUNITY TO ATTENUATION

Due to the fact that there may be changes in the passive environment after installation, it is possible to *temporarily* for 8dB attenuate³² the radio frequency link during installation or maintenance. If the system will continue receiving signal from the detector with an attenuated radio frequency link, then it will work for sure under normal conditions. New setting will be applied in 20 min or 1 hour time (depends on supervisory signal sending frequency).

🔑 Service mode ▶ System setup ▶ Wireless settings



⚠ **DO NOT FORGET** to change the *Attenuation* setting's value to 0dB when installation or maintenance works are finished³³.

11. SUMMARY

Compatibility	♦ EXT116VM (panels P16, P32, P64, S16cm, S16em, S16eT, S16eJ, S32eT, S32eJ),), ♦ EXT116S (system module), ♦ EXT11 (receiver for 3rd party systems), ♦ KM25
---------------	---

Communication	Dual way, encrypted
Type	Wireless
Uses	Indoor

Motion detection distance	up to 15m (wide angle), up to 15m (PET immune), up to 20 (corridor type)
---------------------------	--

Motion detector viewing angles	♦ 98° (wide angle), ♦ 95° (PET immune)
--------------------------------	---

Mounting height	2,1 m ±10%
-----------------	------------

PET immune (BP2vP_pet)	up to 25 kg
------------------------	-------------

Tamper switch	Yes (enabled by default)
---------------	--------------------------

Operating frequency	868,30 or 915,30 MHz depending on the country of distribution
---------------------	---

Periodic supervision signal	20 min or 1h
-----------------------------	--------------

Supervisory window	♦ 1h (<i>Grade 1</i>), ♦ 20min (<i>Grade 2</i>), ♦ 0 - 24h (<i>Custom</i>)
--------------------	--

Communication range in building	up to 100 m
---------------------------------	-------------

Power supply	CR123ALithium battery
--------------	-----------------------

Power supply voltage	3V
----------------------	----

Battery life time ¹	~5 years
--------------------------------	----------

Operating humidity	up to 70%
--------------------	-----------

Operating temperature	from -10 up to +55°C
-----------------------	----------------------

Overall dimensions	55 x 100 x 40 mm
--------------------	------------------

¹ – calculated battery life expecting that there will be 12 events and 12 restores and mode *ES* is chosen.

SYSTEM COMPLIANCE & WARRANTY

Kodinis Raktas UAB, manufacturer of SECOLINK Intruder Alarm System, offers a Warranty for a term of twenty-four months. It declares, that product complies with essential EU directives and EU standards EN 50131-1, Grade 2, Environmental Class II; EN 50131-2-2. For more information visit manufacturer's website www.kodinis.lt or www.secolink.eu for a complete text of declaration. SECOLINK Intruder Alarm System is designed and manufactured in Lithuania.

The warranty is given in favor of the purchaser (hereunder the "Purchaser") purchasing the products directly from Kodinis Raktas UAB (hereunder the "Kodinis Raktas") or from its authorized distributor. During the warranty period, manufacturer shall, at its option, repair or replace any defective product upon return of the product to its factory, at no charge for labor and materials. Repaired products shall be warranted for the remainder of the original warranty period. The Purchaser assumes all responsibility for the proper selection, installation, operation and maintenance of any products purchased from Kodinis Raktas or from its authorized distributor. To obtain service under this warranty, please return the item(s) in question to the point of purchase. All authorized distributors and dealers have a warranty program. All transportation costs and in-transit risk of loss or damage related, directly or indirectly, to products returned to Kodinis Raktas for repair or replacement shall be borne solely by the Purchaser. Kodinis Raktas warranty under this warranty does not cover products that is defective (or shall become defective) due to: (a) alteration of the products (or any part thereof) by anyone other than Kodinis Raktas; (b) accident, abuse, negligence, or improper maintenance; (c) failure caused by a product which Kodinis Raktas did not provide; (d) failure caused by software or hardware which Kodinis Raktas did not provide; (e) use or storage other than in accordance with Kodinis Raktas specified operating and storage instructions; (f) to consumable parts, such as batteries or coatings that are designed to diminish over time. There are no warranties, expressed or implied, of merchantability or fitness of the products for a particular purpose or otherwise, which extend beyond the description on the face hereof. This limited warranty is the Purchaser's sole and exclusive remedy against Kodinis Raktas and Kodinis Raktas sole and exclusive liability toward the Purchaser in connection with the products, including without limitation – for defects or malfunctions of the products. This warranty replaces all other warranties and liabilities, whether oral, written, (non-mandatory) statutory, contractual, in tort or otherwise. In no case shall Kodinis Raktas be liable to anyone for any consequential or incidental damages (inclusive of loss of profit, and whether occasioned by negligence of the Kodinis Raktas or any third party on its behalf) for breach of this or any other warranty, expressed or implied, or upon any other basis of liability whatsoever. Kodinis Raktas does not represent that these products can not be compromised or circumvented; that these products will prevent any person injury or property loss or damage by burglary, robbery, fire or otherwise; or that these products will in all cases provide adequate warning or protection. Purchaser understands that a properly installed and maintained product may in some cases reduce the risk of burglary, fire, robbery or other events occurring without providing an alarm, but it is not insurance or a guarantee that such will not occur or that there will be no personal injury or property loss or damage as a result. Consequently, Kodinis Raktas shall have no liability for any personal injury, property damage or any other loss based on claim that these products failed to give any warning. If Kodinis Raktas is held liable, whether directly or indirectly, for any loss or damage with regards to these products, regardless of cause or origin, Kodinis Raktas maximum liability shall not in any case exceed the purchase price of these products, which shall be the complete and exclusive remedy against Kodinis Raktas.

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