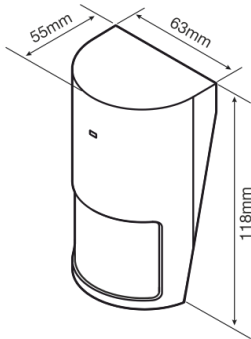
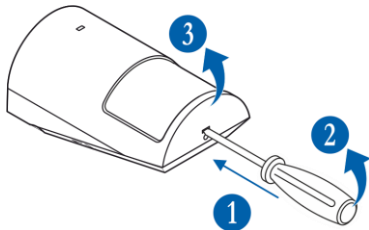
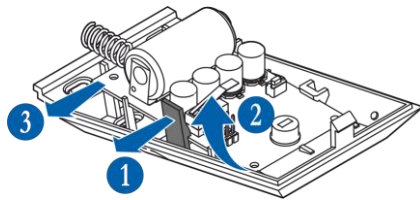
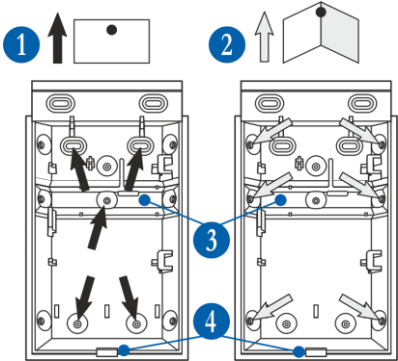
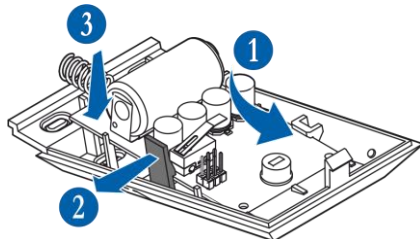
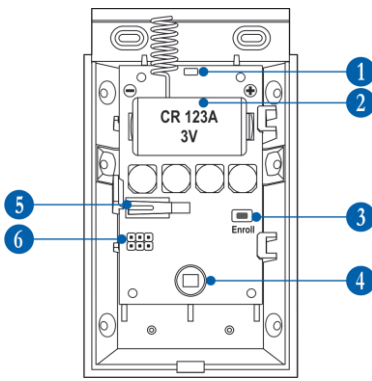
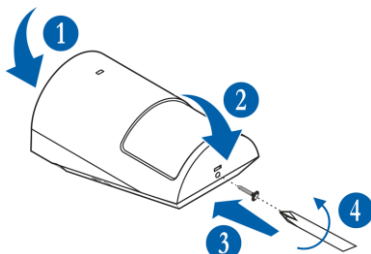
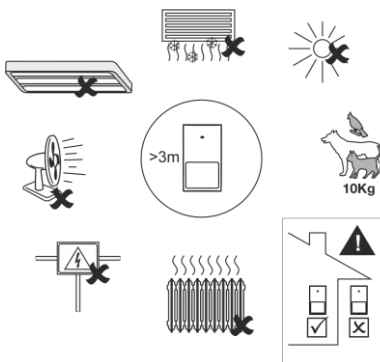
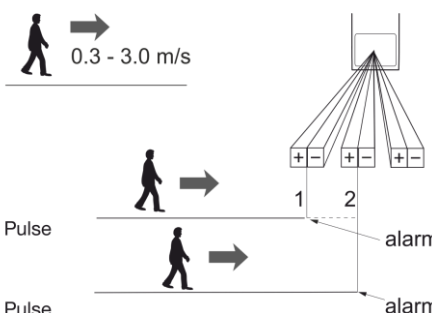
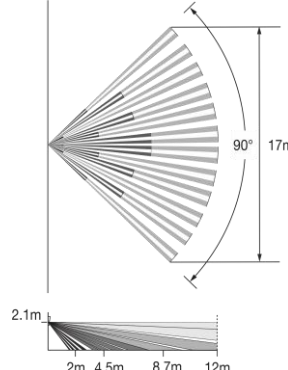


ATTENTION: Read carefully this installation Instructions before installing the device! This manual is subject to change without notice!

1. Installation

<div>1</div> <div>General view & Dimensions</div> <div></div>	<div>2</div> <div>Opening the front cover</div> <div></div>	<div>3</div> <div>Dismantling the PCB</div> <div></div>											
<div>4</div> <div>Mounting the enclosure box bottom</div> <div><div></div><div><p>1 - Wall mounting holes*</p><p>2 - Corner mounting holes*</p><p>3 - Back-tamper knock out plate (against unauthorized dismantling of the box)</p><p>4 - Clip with hole Ø2mm for fixing the cover to the bottom with a screw (optional, against unauthorized opening, according EN50131-1 and EN50131-3) – see 7</p><p>* Note: Use the supplied anchors (Ø6x30) and screws (3.5x30) suitable for mounting on brick wall. In case the detector needs to be mounted on other type of surface, it is required to use supporting elements that can hold on up to 900N downwards force.</p></div></div>		<div>5</div> <div>Mounting back the PCB</div> <div></div>											
<div>6</div> <div>PCB Elements and Jumper settings</div> <div><div></div><div><p>1 - Bicolour status LED</p><p>2 - Battery 3V CR123A*</p><p><i>* Use only Panasonic, IEC 60086 tested batteries.</i></p><p>3 - Operation button (used for Enrolment, Reset and Radio signal check)</p><p>4 - PIR sensor</p><p>5 - Tamper switch</p><p>6 - Jumper terminals</p><div><table><tr><td>PIR - 1p</td><td>PIR - 2p</td></tr><tr><td>1 Pulse Set</td><td>2 Pulses Set</td></tr><tr><td>LED - Off</td><td>LED - On</td></tr></table><p>LED operation is disabled - Off</p></div><div><table><tr><td>PIR - 1p</td><td>PIR - 2p</td></tr><tr><td>1p - 1 Pulse</td><td>2p - 2 Pulses</td></tr><tr><td>LED - Off</td><td>LED - On</td></tr></table><p>LED operation is enabled - ON</p></div><p>When all jumpers are removed, the Pulse and LED operation is fully programmable via the control panel or configuration software!</p></div></div>	PIR - 1p	PIR - 2p	1 Pulse Set	2 Pulses Set	LED - Off	LED - On	PIR - 1p	PIR - 2p	1p - 1 Pulse	2p - 2 Pulses	LED - Off	LED - On	<div>7</div> <div>Closing and securing the front cover</div> <div><div></div><p>For securing the cover to the bottom, use the little screw DIN7981 C from the supplied kit with spare parts.</p></div>
PIR - 1p	PIR - 2p												
1 Pulse Set	2 Pulses Set												
LED - Off	LED - On												
PIR - 1p	PIR - 2p												
1p - 1 Pulse	2p - 2 Pulses												
LED - Off	LED - On												
<div>8</div> <div>Installation place</div> <div></div>	<div>9</div> <div>Pulse settings diagram</div> <div></div>	<div>10</div> <div>Beam coverage diagram</div> <div></div>											

2. General Information

PAX PIR is a wireless passive infrared detector for detecting of movement. The detector is compatible for operation with:

- **BRAVO Next** wireless control panel, for building of fully wireless security systems.
- **PAX WL Expander** module, for building of hybrid security systems with Eclipse series control panels.

Attention: The minimum distance between BRAVO Next or PAX WL Expander and enrolled to it wireless PAX PIR detector must be at least 1 meter to guarantee the correct operation of the system.

Technical Specifications:

Battery (type CR123A)	1 x 3 V/ 1500mAh
Battery life (max. without LED)	~ 6 years
Low voltage threshold.....	2.6V
Current consumption (TX/Standby).....	26 mA / 4 µA
RF communication type	Bidirectional
Operation frequency	~868 MHz
Radio distance (open space)	Up to 1500m
PET Immunity (small animals)	Up to 10 kg
Working temperature	-10°C - +50°C
Storing temperature	- 40°C - +50°C
White light immunity	4500 Lux
Walk detection speed	0.3 m/s - 3.0 m/s
Coverage angle	90°
Mounting height	1.8 - 3.0 m (2.1 m)
Number of detection zones.....	54
Dimensions	63 x 118 x 55 mm
Weight (including battery)	100 g

Main Functional Features:

- Energy saving mode
- Front cover and rear (anti-tear) tamper
- Indication for the signal strength (RSSI)
- Adjustable pulse filter – 1 or 2 pulses
- Automatic temperature compensation
- Events transmitted: Detection of movement, Tamper activation, Low battery
- EMC Immunity EN 50130-4
- Indoor use
- Beacon+ protocol type for wireless communication

3. Enrolment

(You should also refer to BRAVO Next and PAX WL Expander module full installation and operation manuals for more details)

Note: For already used PAX PIR detectors, first perform RESET procedure.

- Enter in Device Programming menu of the used control panel.
- Select a free wireless device number.
- Enrol the detector as:
If the PAX PIR is new: Remove the protection folio from the battery – the LED lights on in red followed by a green blink, and after that the enrolment procedure starts automatically. If the automatic enrolment is failed, press the ENROLL button to initiate the process again.
If the PAX PIR has been already used: Press the ENROLL button on the PCB - the LED will blink fast in red for a while.
- The enrolment is successful, if in a time interval up to 30 seconds, the device LED lights on in green, and after that starts blinking in orange, which means that the device is selected. Make a radio test on the place of installation of the device as press the ENROLL button once and wait for LED indication – see item 5.
- In case PAX PIR is enrolled to PAX WL Expander module, select a free zone number and attach the detector to it. Then, set the type of the zone, according the system configuration.

4. Resetting

Resetting is a procedure for restoring the default factory settings of a device. It is necessary to perform, when the device is moved to new system installation and must be enrolled to new control panel.

- Remove the cover of the PAX PIR.
- With battery on press and hold the ENROLL button for at least 7 seconds.
- The reset is completed when the green LED blinks shortly three times, followed by one long red flash and one long green flash.
- Next pressing of the ENROLL button will activate the enrolment procedure described at item 3.

5. Performing Radio Test

Note: Perform the radio test just after the enrolment of the device and at the place of installation, as in that way you can choose the place with the best signal coverage.

The radio test should be performed in order to check the signal strength on the site and the quality of the communication between the control panel and the PAX wireless devices.

The radio test can be performed directly after the enrolment of the device and after that during the maintenance of the system.

To perform a radio test of a device:

- Remove the cover of the device to access the PCB.
- Press the ENROLL button - the LED(s) will blink single in green. Up to 30 seconds the device will inform for signal coverage with a new indication with the following meaning:
 - 3 blinks in green - the signal coverage is good and there is a stable communication between the device and the panel;
 - 3 blinks in red - no signal coverage and communication between the device and the panel;
 - 3 blinks in yellow – there is a signal coverage, but the communication between the device and the panel is unstable. In this case it is recommended to change the place of installation and to perform a new radio test.

6. Jumper Settings

The LED operation and Pulse option can be set directly with hardware set jumpers on the terminals of PAX PIR, or remotely via the control panel or programming software.

PAX PIR comes with the following default factory set adjustments:

- LED operation is enabled.
- 2 Pulses mode for PIR sensor operation.

The settings can be changed with placing a jumper on the respective terminals, or remotely (from the control panel or programming software) when all jumpers are removed.

7. Replacing the Battery

Attention: Use only Panasonic batteries approved by the manufacturer, type CR123A 3V/1500mAh! Use only IEC 60086-4 tested batteries!

To replace the battery with new:

- Remove the cover of the detector's enclosure.
- Remove the battery.
- Press several times the ENROLL button.
- Wait for 10-15 seconds and place the new battery as observe the polarity.
- The LED lights in sequence in red, then in green.
- Mount back the cover of the device enclosure.

SAFETY PRECAUTIONS: Keep new and used batteries away from children! If the battery compartment does not close securely, stop using the product and keep it away from children's reach. If swallowed, the coin-sized batteries can cause serious injuries and burns in just 2 hours. In case of any doubt for swallowing of a battery, seek for medical help immediately!



Environmental Protection

Directive of batteries disposal – Information for the user
(2013/56/EO)

The used batteries from devices, after changing with new ones, should not be disposed together with another household waste. The chemical elements, used in the batteries can seriously harm the man's health and the outdoor environment.

The recycling of the used batteries and waste of batteries contributes for protection, keeping clean and improving the outdoor environment.