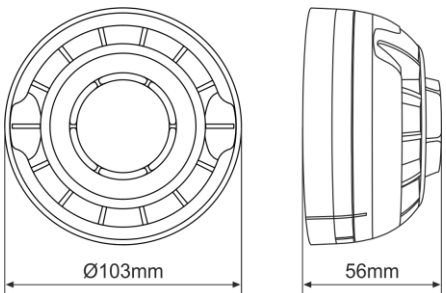
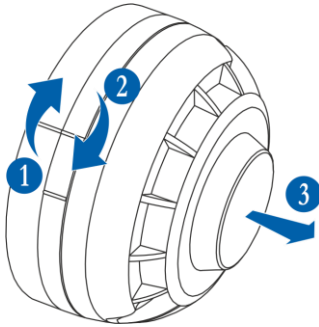
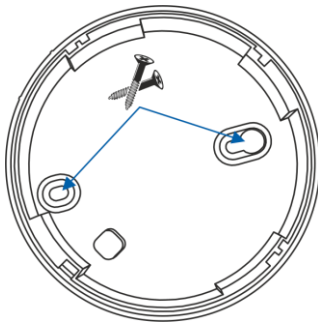
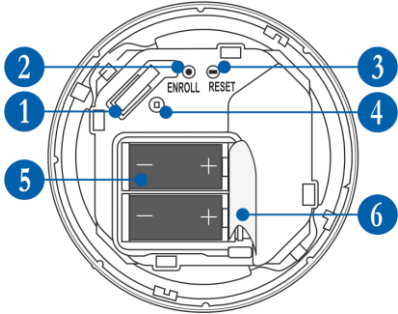
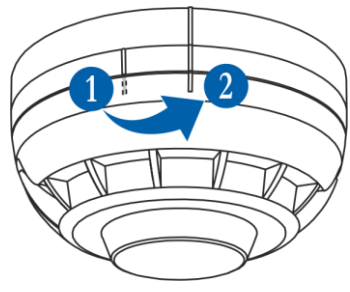
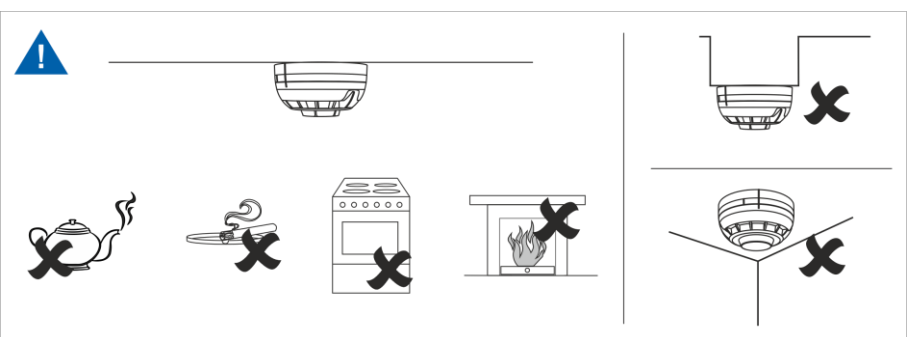
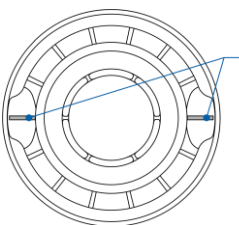


**ATTENTION:** Read carefully this installation Instructions before installing the device! This manual is subject to change without notice!

## 1. Installation

<p><b>1 General view &amp; Dimensions</b></p>  <p>Ø103mm 56mm</p>	<p><b>2 Opening the front cover</b></p> 	<p><b>3 Mounting the base</b></p> 
<p><b>4 PCB elements</b></p>  <ul style="list-style-type: none"> <li>1 – Tamper switch</li> <li>2 - Operation button (used for Enrolment, Reset and Radio signal check)</li> <li>3 - RESET button</li> <li>4 - Bicolour operation status LED</li> <li>5 - Battery 2x3V CR123A*</li> <li>6 - Protection folio against activation of the batteries</li> </ul> <p>* Use only Panasonic, IEC 60086 tested batteries.</p>		<p><b>5 Closing the detector</b></p> 
<p><b>6 Installation place</b></p> 		<p><b>7 Front LED indication</b></p>  <p><b>LED indication for events</b></p> <p><b>Fire Alarm:</b> Fast blinking in red</p> <p><b>Selected device:</b> Slow blinking in orange</p> <p><b>Note:</b> The front LED indication can be enabled or disabled via the control panel or programming software.</p>

## 2. General Information

PAX FD is a wireless combined fire alarm detector – with optical-smoke and heat parts. 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 FD detector must be at least 1 meter to guarantee the correct operation of the system.

### Technical Specifications:

Battery (type CR123A) .....	2 x 3 V/ 1500mAh
Battery life (max. without LED) .....	~ 4 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
Class* for the heat part.....	A1/R
Working temperature .....	-10°C - +50°C
Storing temperature.....	- 40°C - +50°C
Sensitivity .....	RoR 10°C/min (max 60°C)
Dimensions .....	Ø103 x 56 mm
Weight (including battery) .....	~163 g
* Category, according EN 54-5:2017+A1:2018	

### Main Functional Features:

- 24-hour fire alarm supervised zone
- Tamper switch for self-protection of the box
- Indication for the signal strength (RSSI)
- Events transmitted: Fire, 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 FD 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 FD is new: Remove the protection folio from the batteries – the operation status 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 FD 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 FD is enrolled to PAX WL Expander module, select a free zone number and attach the detector to it. Then, set Fire alarm type for the zone.

## 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 FD.
- With batteries on press and hold the RESET button for at least 3-5 seconds.
- The reset is completed when the status LED blinks shortly three times in green.
- 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 status operation LED 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. Default Settings

The front LED indication of PAX FD can be enabled or disabled. PAX FD comes with enabled front LED operation, as this setting is available for adjustment only via the control panel or programming software.

## 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 batteries with new ones:

- Open the detector.
- Remove the batteries.
- Press several times the tamper button.
- Wait for 10-15 seconds and place the new batteries as observe the polarity.
- The operation status LED lights on in sequence in red, then in green.
- Mount back fire detector to the base.

**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.