



*eldes*

**EWP2** WIRELESS MOTION DETECTOR

## User manual v1.3

### Compatible with:

- ESIM364 v02.08.00 and up.
- EPIR3 v1.2.0 and up
- EPIR2 v01.03.02 and up

### Main features:

- Built-in dual element passive infrared (PIR) sensor.
- Pet immunity against the animals of up to 40 kg.
- 2 built-in tamper switches: on the front and on the back of the PCB.
- Built-in temperature sensor.

EWP2 is a wireless device intended to secure the premises by motion detection. Due to the dual element technology of a built-in PIR sensor, the device features the pet immunity against the animals of up to 40 kg weight in order to prevent them from causing false alarms while moving within the secured premises. In addition, EWP2 comes equipped with 2 built-in tamper switches for sabotage detection. In order to start using EWP2, it has to be paired with ELDES alarm system using *ELDES Configuration Tool* software or by sending a corresponding SMS text message to ELDES alarm system.

It is possible to pair up to 16 EWP2 devices with EPIR3 or EPIR2 system, while with ESIM364 alarm system - up to 32 EWP2 devices at a time. The maximum wireless connection range is 150m (492.13ft) (in open areas).

**NOTE:** For complete information on device operation with ELDES alarm system, please refer to ELDES alarm system installation manual located at [www.eldes.it/download](http://www.eldes.it/download)

## 1. CONTENTS OF PACK

Item	Quantity
1. EWP2 .....	1
2. 1,5V Alkaline AA type batteries .....	2
3. User manual .....	1
4. Screws .....	2
5. Jumper.....	1
6. Holder .....	1
7. Wood Screws .....	2
8. Nuts.....	2

## 2. TECHNICAL SPECIFICATIONS

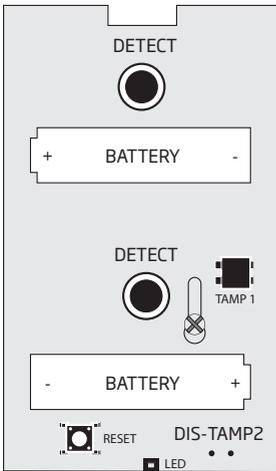
### 2.1. Electrical and Mechanical Specifications

Batteries.....	1,5V Alkaline AA type LR6 (IEC) / 15A (ANSI/NEDA)
Number of batteries .....	2
Battery operation time .....	~18 months*
Detection coverage angle .....	90°
Maximum detection distance .....	11m (36.09ft)
Wireless band .....	ISM868/ISM915
Wireless communication range .....	Up to 30m (98.43ft) in premises; up to 150m (492.13ft) in open areas
Range of operating temperatures .....	-10... +55°C (+14... +131°F)
Humidity .....	0-90% RH @ 0... +40°C (0-90% RH @ +32... +104°F) (non-condensing)
Dimensions .....	124x67x58mm (4.88x2.64x2.28in)
Compatible with alarm systems .....	ELDES Wireless

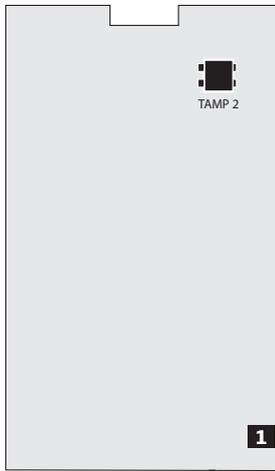
\* The operation time might vary in different conditions.

### 2.2. Main Unit and LED Functionality

#### FRONT VIEW



#### BACK VIEW



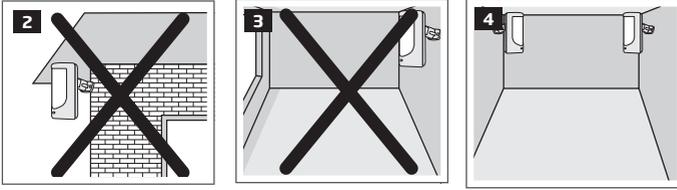
Unit	Description
DETECT	PIR sensors to detect possible intruders
+/-	Battery slots
TAMP1	Front tamper switch
RESET	Button for restoring default parameters
LED	Light-emitting diode for indication of motion detection (if enabled) and parameter restoring to default
TAMP2	Back tamper switch
DIS-TAMP2	Pins for back tamper switch management

Jumper position	DIS-TAMP2	DIS-TAMP2
Address	Back tamper switch disabled	Back tamper switch enabled

### 3. INSTALLATION

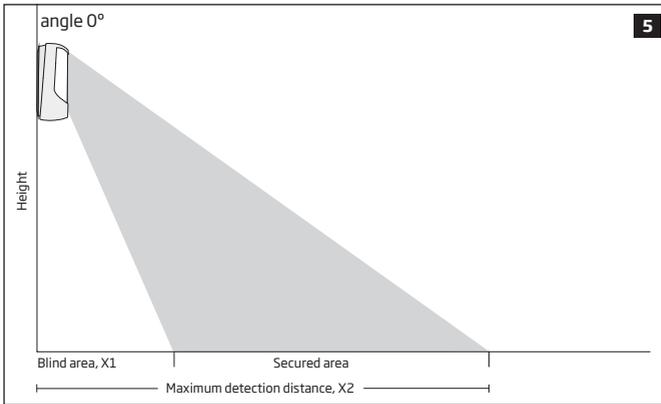
**NOTE:** Before installing the wireless device, we highly recommend to refer to **RADIO SYSTEM INSTALLATION AND SIGNAL PENETRATION** manual located at [www.eldes.it/download](http://www.eldes.it/download)

The system should be installed indoors, **in stationary environment ONLY**. Choose a location where unauthorised entry is most likely.

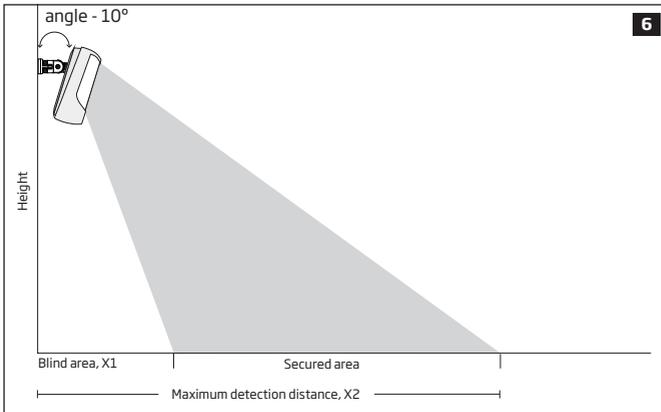


To prevent false alarms, avoid installing the unit in the following locations:

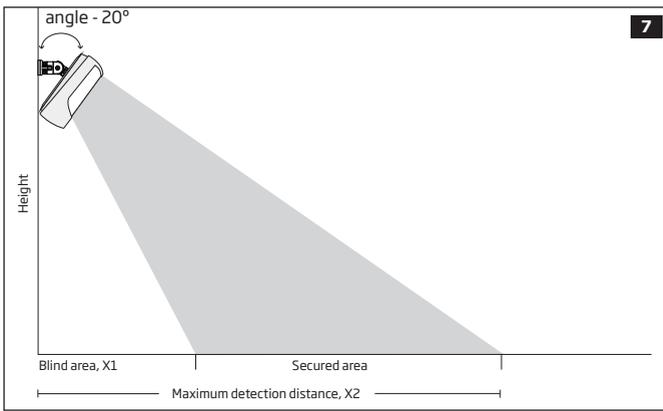
- With the lens facing direct sunshine, for instance in front of windows
- Places with high temperature fluctuations, such as near fireplaces, boilers, ovens etc
- Anywhere with high dust or air flow
- In an area surrounded by metal or thick walls where the wireless signal may be lost



height	X1	X2
2,5m (8.20ft)	3,5m (11.48ft)	11m (36.09ft)
2,3m (7.55ft)	3m (9.84ft)	11m (36.09ft)
2,1m (6.89ft)	1,5m (4.92ft)	11m (36.09ft)
1,5m (4.92ft)	0m (0ft)	11m (36.09ft)

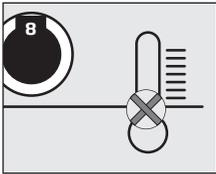


height	X1	X2
2,5m (8.20ft)	2,5m (8.20ft)	10m (32.81ft)
2,3m (7.55ft)	2,5m (8.20ft)	8m (26.25ft)
2,1m (6.89ft)	1,5m (4.92ft)	8m (26.25ft)
1,5m (4.92ft)	0m (0ft)	4,5m (14.76ft)



height	X1	X2
2,5m (8.20ft)	2m (6.56ft)	5m (16.4ft)
2,3m (7.55ft)	1,5m (4.92ft)	4,5m (14.76ft)
2,1m (6.89ft)	1m (3.28ft)	4,5m (14.76ft)
1,5m (4.92ft)	0m (0ft)	3m (9.84ft)

**ATTENTION:** By default, EWP2 PCB is in the right position. DO NOT change the PCB position in the enclosure.

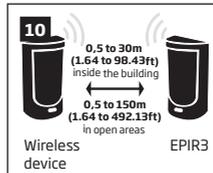


When installing EWP2, follow the recommendations for the installation to achieve the strongest wireless signal:



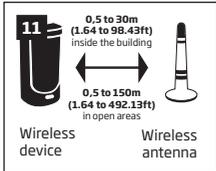
Never install in the following locations:

- inside the metal cabinet
- closer than 20cm (7.87in) from the metal surface and/ or power lines



Recommended:

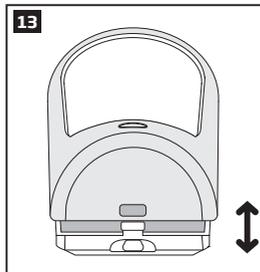
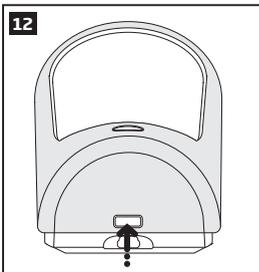
- face the front side of the wireless device towards the the front side of EPIR3.
- keep the distance: 0,5 to 30m (1.64 to 98.43ft) inside the building, 0,5 to 150m (1.64 to 492.13ft) in open areas



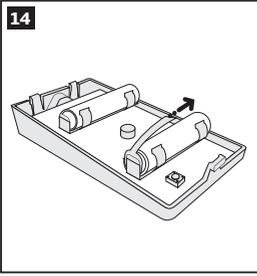
Recommended:

- face the front side of the wireless device towards the antenna.
- keep the distance: 0,5 to 30m (1.64 to 98.43ft) inside the building, 0,5 to 150m (1.64 to 492.13ft) in open areas

1. Remove the front cover of the device (containing the detector lens).

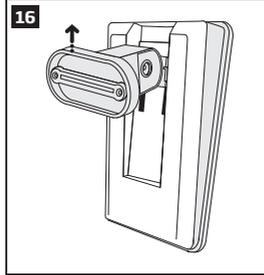
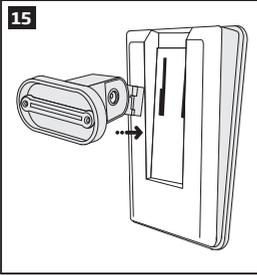


2. Remove the plastic tab inserted between one of the battery terminals and battery slot.



3. Close the front cover of the device (see step #1).

4. Place the holder into the device and slide it up to fix it until you hear a “click!” sound.

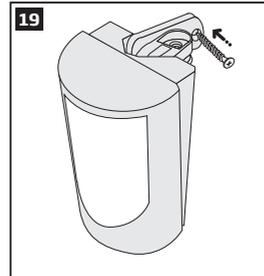
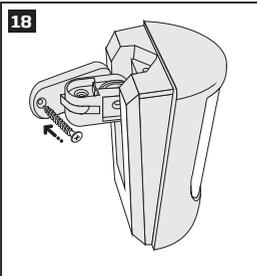


**ATTENTION:** Ensure that the holder is properly fixed into the device, otherwise it will prevent from using the back tamper switch for supervision of the enclosure's back side. If you do not wish to use the back tamper switch still, please disable it by setting a jumper on DIS-TAMP2 pins (see **2.2. Main Unit and LED Functionality**).

5. Pair the device with the alarm system using *ELDES Configuration Tool* software. Open **Wireless Device Management** section and enter the 8-character **Device ID** located on the EWP2 enclosure or select the device icon with a message **NOT CONNECTED** indicated next to it and click the **Add** button. The device can also be paired by sending a corresponding command via SMS text message. For more details, please refer to the software's HELP section and ELDES alarm system user/installation manual.



6. After a suitable location for your EWP2 is chosen, fix the holder to the wall using the screws supplied.



7. Upon the successful pairing process, the message indicated next to EWP2 device icon will turn to **CONNECTED**. If the attempt to pair is unsuccessful, try to move EWP2 closer to the ELDES alarm system and pair anew.
8. Move away from the EWP2 motion detection area and wait for 2 minute-period or longer, while the device auto-calibrates its built-in PIR sensor. DO NOT attempt to test the device before the auto-calibration process is complete.
9. EWP2 is ready for use.

**ATTENTION:** The auto-calibration process initiates as soon as the batteries are inserted into EWP2 device, therefore, please wait for 2 minutes or longer on the first run, after battery replacement or after restoring the default parameters of EWP2 device.

**NOTE:** If you are unable to pair the wireless device, please, restore the parameters of the wireless device to default and try again. See **7. RESTORING DEFAULT PARAMETERS** for more details.

## 4. EWP2 ZONE AND TAMPERS

Upon successful EWP2 pairing process, the system adds 1 wireless Instant zone intended for movement detection.

In case of tamper violation, the alarm is caused regardless of system being armed or disarmed. There are 2 ways to detect tamper violation on EWP2:

- **By tamper switch.** EWP2 comes equipped with 2 built-in tamper switches intended for enclosure supervision:
  - one located on the front side of the PCB supervising the front cover in case it is illegally opened (see fig. #1).
  - the other one located on back of the PCB supervising the back side of the enclosure in case the EWP2 is illegally removed from the holder (see fig.#1 and fig.#16).

Once the enclosure of EWP2 is tampered, the tamper switch will become triggered. This action will be followed by alarm, resulting in sending an SMS text message and/or phone call to the user. The SMS text message contains the violated tamper number.

- **By wireless connection loss.** The wireless connection loss between EWP2 and ELDES alarm system leads to alarm. The system identifies this event as a tamper violation and sends alarm by SMS text message and phone call to the user (-s) by default. The SMS text message contains the wireless device model, wireless ID code and tamper number

**ATTENTION:** None of the tampers will operate if the wireless zone is disabled.

For more details on EWP2 zone and tamper configuration, please refer to *ELDES Configuration Tool* software's HELP section.

## 5. TEMPERATURE SENSOR

The device comes equipped with a built-in temperature sensor allowing to monitor the temperature of the area surrounding EWP2 device. When using the with EPIR3 alarm system, you may set the MIN and MAX temperature thresholds ranging from -10°C to +55°C resulting in SMS text message delivery to the listed user phone number once exceeded. The accuracy of temperature measurement is +/-1°C.

## 6. BATTERY REPLACEMENT

1. Open EWP2 enclosure.
2. Remove the old batteries from the battery slots.
3. Insert the new batteries based on the battery slot positive/negative terminals indicated on the PCB (printed-circuit-board) of EWP2.
4. Batteries replaced.

For more details, please refer to **3. INSTALLATION**.

**ATTENTION:** 1,5V Alkaline AA type batteries can be used. Install only new, high quality and unexpired batteries. Do not mix the old batteries with the new ones.

**ATTENTION:** At least 1 battery must be removed if the device is not in use.

**ATTENTION:** In order to avoid fire or explosion hazards, the system must be used only with approved battery. Special care must be taken when connecting positive and negative battery terminals. Dispose old batteries only into special collection sites. Do not charge, disassemble, heat or incinerate old batteries.

**NOTE:** The battery status can be monitored in real-time using *ELDES Configuration Tool* software.

**NOTE:** The system sends an SMS text message to a preset phone number as soon as the battery level runs below 5%.

## 7. RESTORING DEFAULT PARAMETERS

1. Remove any battery from EWP2.
2. Press and hold the RESET button.
3. Insert the battery back to EWP2.
4. Hold the RESET button until LED indicator shortly flashes several times.
5. Release the RESET button.
6. Parameters restored to default.

## 8. ADDITIONAL INFORMATION

### Limited Liability

The buyer must agree that the system will reduce the risk of fire, theft, burglary or other dangers but does not guarantee against such events. "ELDES UAB" will not take any responsibility regarding personal or property or revenue loss while using the system. "ELDES UAB" liability according to local laws does not exceed value of the purchased system. "ELDES UAB" is not affiliated with any of the Internet providers therefore is not responsible for the quality of Internet service.

### Manufacturer Warranty

This device carries a 24-month warranty by the manufacturer "ELDES UAB". Warranty period starts from the day the system has been purchased by the end user. The warranty is valid only if the system has been used as intended, following all guidelines listed in the manual and within specified operating conditions. Receipt must be kept as a proof of purchase date. The warranty is voided if the system has been exposed to mechanical impact, chemicals, high humidity, fluids, corrosive and hazardous environment or other force majeure factors.

### Safety instructions

Please read and follow these safety guidelines in order to maintain safety of operators and people around:

- DO NOT use the system where it can be interfere with other devices and cause any potential danger.
- DO NOT use the system with medical devices.
- DO NOT use the system in hazardous environment.
- DO NOT expose the system to high humidity, chemical environment or mechanical impacts.
- DO NOT attempt to personally repair the system.



The WEEE (Waste Electrical and Electronic Equipment) marking on this product (see left) or its documentation indicates that the product must not be disposed of together with household waste. To prevent possible harm to human health and/or the environment, the product must be disposed of in an approved and environmentally safe recycling process. For further information on how to dispose of this product correctly, contact the system supplier, or the local authority responsible for waste disposal in your area.

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