

HI!

THANK YOU

FOR CHOOSING OUR PRODUCT

WIRELESS SMOKE SENSOR EWF3!

INSTALLATION INSTRUCTIONS AND
USER GUIDE CAN BE FOUND HERE:

<https://eldesalarms.com/wireless-smoke-sensors-ewf3/#manuals>



EWF3 compatible with:

- ELDES alarm system ESIM484 V04.01.03 and up.

Main features:

- Photoelectric sensor for slow smoldering fires
- High and stable sensitivity
- Quick fix mounting plate for easy installation
- LED operation indicator
- TEST WEEKLY button
- Built-in siren for audio alarm indication
- Non-radioactive technology for environmental friendly

The EWF3 is a wireless smoke detector utilizing photoelectric technology, specifically engineered to identify smoldering fires before they escalate into open flames. If smoke concentrations surpass a predefined limit, the device triggers its integrated siren. Furthermore, when integrated and configured with an ELDES ESIM484 alarm system, it can transmit SMS notifications and make voice calls to registered user phone numbers. In installations featuring multiple units, an interconnection capability can be utilized if active; for additional details, refer to **4.1. Interconnection**.

ESIM484 supports up to 64 EWF3 devices.

NOTE: For comprehensive details regarding device usage within an ELDES alarm system, please consult the ELDES alarm system installation manual available at www.eldesalarms.com

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2. TECHNICAL SPECIFICATIONS

2.1 Electrical & Mechanical Characteristics

Smoke detection type	Photoelectric smoke detector MD368NSTB3 from Everyday Technology
Sensitivity standard	EN14604:2005-AC:2008 ; 1134-cpr-212 ; BOSEC B-9321-FD-H1029
Mounting method	Ceiling
Alarm sound level	over 85dB at 3m
Smoke sensor lifetime	10 years*
Smoke sensor internal Battery	Non-replaceable*
Operation mode	Standalone & wireless reporting
Battery for Wireless module	Replaceable Primary 3V Lithium CR123A
Battery operation time	10 years* *
Wireless band	ISM868
Wireless communication range	Up to 3km in open areas
Range of operating temperatures	0... +50°C
Humidity	5-90% RH @ 0... +40°C (non-condensing)
Dimensions	Ø120mm x 48mm

*** NOTE:** Battery performance is based on weekly testing and zero alarm events. Actual lifespan is subject to environmental variables and usage patterns. The smoke detector requires replacement after a 10-year operational lifespan under any circumstances.

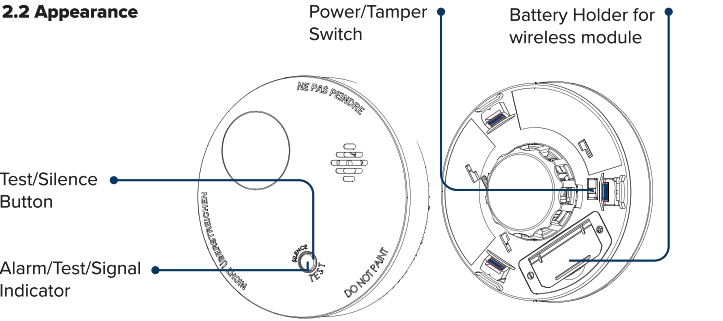
**** NOTE:** The wireless module's battery life is reduced to 3 years if the ELDES alarm system's interconnection functionality is active.

WARNING: This smoke detector is intended exclusively for single-family residences, such as individual houses or apartments. In multi-unit residential complexes, each separate living space must be equipped with its own dedicated smoke detection units and separate ELDES alarm systems ESIM484.

WARNING: This detector is not meant to be used in non-residential buildings. Warehouses, industrial or commercial buildings, and special purpose non-residential buildings require special fire detection and alarm systems. This Smoke detector alone is not a suitable substitute for complete fire detection systems for places where many people live or work, such as hotels or motels. The same is true of dormitories, hospitals, nursing homes or group homes of any kind, even if they were once single family homes.

WARNING: This Smoke detector will not alert people who are hard of hearing. It is strongly recommended that the special-purpose Smoke detectors, using lights or vibrating devices, should be installed to alert occupants who are hard of hearing.

2.2 Appearance



2.3. Operation modes

Standby/Alarm/Error Indicator	Alarm	Individual alarm indicator Red LED flashing 3 times and siren emits 3 tones every 4 second
	Malfunction (Error)	Yellow LED flashing every 48 second
	Standby	Green LED flashing every 48 second

OPERATIONAL STATES

A green LED flash every 48 seconds indicates the detector is in Standby mode. To verify normal operation, hold the test button for 1 second; the device should respond with a red LED flash once per second and a three-tone sound.

ALARM AND SILENCE FUNCTIONS

During an alarm, the siren emits three tones and the red LED flashes three times every 4 seconds. For details on system integration, see section **5.1. EWF3 ZONE AND TAMPER**. You can temporarily mute an active alarm for approximately 8 minutes by pressing the test/silence button. If smoke concentrations remain above the alarm threshold after this period, the siren will reactivate.

MALFUNCTION MANAGEMENT and ERROR signals

The Hush feature allows you to silence malfunction warnings for 1 hour by pressing the test button. Pressing the button again during the hush period will restore the audible warning. Error signals and maintenance procedures are detailed in chapter **5.1. Testing the Unit**.

3. PLACEMENT

LOCATIONS TO INSTALL YOUR SMOKE DETECTORS

Smoke detectors should be installed in accordance with EN54 standard. For complete coverage in residential units, Smoke

detectors should be installed in all rooms, halls, storage areas, basements, and attics in each family living unit. Minimum coverage is one detector on each floor and one in each sleeping area.

Here, we have useful tips for you:

- Install one separate Smoke detector in every bedroom and one Smoke detector in the floor as a minimum protection. Install a separate Smoke detector in each separate room and exit way except kitchen, as shown in Figure 1 and Figure 2.
- Install a Smoke detector on every floor of a multi-floor home or apartment, as shown in Figure 3.
- Install a minimum of two detectors in any household.
- Install a Smoke detector inside every bedroom.
- Install Smoke detectors at both ends of a bedroom hallway if the hallway is more than 40 feet (12 meters) long.
- Install basement Smoke detector at the bottom of the basement stairwell.
- Install second-floor Smoke detectors at the top of the first-to-second floor stairwell. Be sure no door or other obstruction blocks the path of smoke to the alarm.

Figure 1:

One separate smoke detector in every bedroom and one smoke detector in the floor for minimum security.

- Detector for minimum security

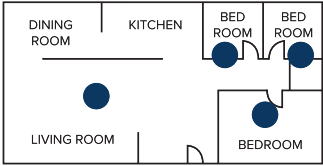


Figure 2:

One separate smoke detector in every room, except kitchen and bathroom as a more security

- Detector for more security

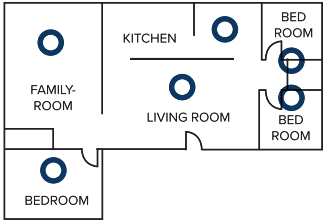
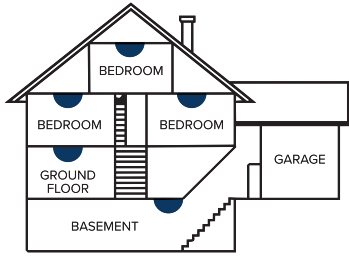


Figure 3:

Location for placing smoke detector for a multi-floor residence

- Detector for minimum security



Install additional Smoke detectors in your living room, dining room, family room, attic, utility and storage rooms.

- Install Smoke detectors as close to the center of the ceiling as possible. If this is not practical, put the detector on the ceiling, no closer than 20 inches (50 cm) from any wall or corner, as shown in **Figure 4**.
- If ceiling mounting is not possible and wall mounting is permitted by your local and state codes, put wall-mounted detectors between 4 and 6 inches (10 ~ 15 cm) from the ceiling, also see **Figure 4**.
- If some of your rooms have sloped, peaked, or gabled ceilings. The distance between the peak and the mounting point of the smoke detector on peaked ceilings (>20°) is minimum 0.5 m to maximum 1 m measured along the peaked ceiling as shown in **Figure 5**.

Figure 4:
Recommended best and acceptable locations to mount smoke detectors.

- BEST location
- Acceptable location

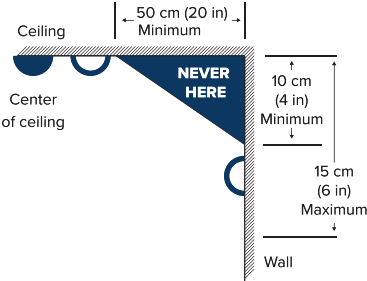
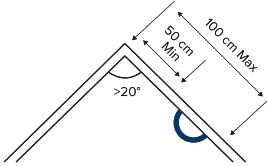


Figure 5:

Recommended location to mount smoke detectors in rooms with sloped, gabled, or peaked ceiling.

- Acceptable location



3.1 Incorrect Placement

LOCATIONS NOT TO INSTALL YOUR SMOKE DETECTORS

False alarms occur if smoke detectors are positioned in unsuitable environments. To prevent these unwanted alerts, avoid installing the devices in the following conditions:

- A byproduct of burning materials is the release of combustion particles. Consequently, to minimize false triggers, do not mount detectors inside or close to zones where these particles accumulate, including poorly ventilated kitchens, garages prone to vehicle emissions, or near heating furnaces, water boilers, and ambient heaters.
- Maintain a distance of at least 6 meters (20 feet) from regular sources of combustion particles, such as cooking areas. When this spacing cannot be achieved, such as within mobile homes, place the device as far from the source as feasible, ideally mounting it on a wall. Ensuring proper airflow in these locations also helps prevent false alarms.

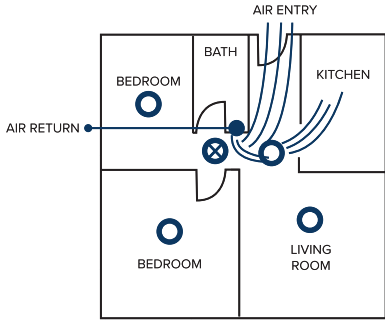
IMPORTANT: Under no circumstances should the device be deactivated to prevent false alarms

- The manner in which air currents from kitchens transport combustion particles through standard ventilation pathways is illustrated in Figure 6, highlighting both appropriate and improper placement options to address this issue.

Figure 6:

Recommended smoke detectors locations to avoid air streams with combustion particles

- Correct location
- ⊗ Incorrect location



- In regions with high humidity or adjacent to bathrooms containing showers. Airborne moisture can infiltrate the detection chamber, condensing into water droplets when cooled and triggering false alarms. Mount the device a minimum of 3 meters (10 feet) away from bathroom areas.
- In locations experiencing extreme cold or heat, such as unheated structures or external rooms. Operating the device beyond its specified thermal limits prevents proper functionality. The supported ambient temperature boundaries are 0°C to 50°C (14°F to 122°F).
- Within environments with excessive dust or dirt accumulation. Particles can gather inside the internal sensor chamber, causing the unit to become overly sensitive. Furthermore, debris can clog chamber entryways and obstruct smoke detection.
- Close to ventilation intakes or highly drafty spots near air conditioners, heaters, or fans. Moving air currents can divert smoke away from the sensors, disrupting timely detection.
- In dead air pockets typically located at the apex of sloped roofs or corners where walls join ceilings. Stagnation may hinder smoke from reaching the sensor. Consult Figure 4 and Figure 5 for optimal installation points.
- In spaces prone to insect populations. Pests that infiltrate the inner measurement chamber can generate false alerts. Implement pest control measures to clear bugs prior to installation.
- In close proximity to fluorescent light fixtures, where electrical interference might spark false alarms. Position the units at least 1.5 meters (5 feet) away from these sources.

WARNING: Avoid extracting the power cells during a false activation to ensure essential protection remains active.

WARNING: Ventilate the area by opening windows or circulating air to clear the fumes. The internal siren will automatically deactivate once the air clears. If false alerts recur, proceed to clean the unit following the maintenance guide guidelines.

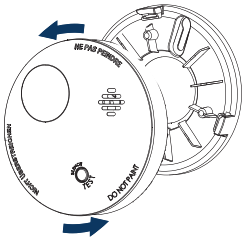
WARNING: Do not remain in close proximity to the unit while the siren sounds. The broadcast volume is high to ensure awakening during crises, and close-range exposure to the horn could damage your hearing.

ATTENTION: Incorrect placement will result in a decrease of operational effectiveness.

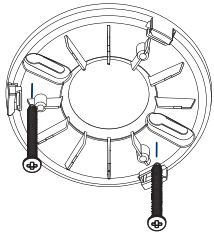
4. INSTALLATION

NOTE: Before installing the wireless device, we highly recommend to refer to RADIO SYSTEM INSTALLATION AND SIGNAL PENETRATION manual located at www.eldesalarms.com

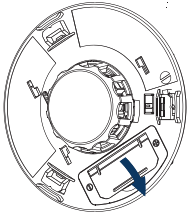
1. Detach the mounting plate by turning it counter-clockwise from the back of EWF3.



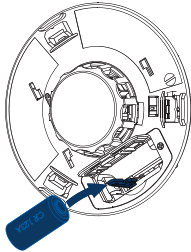
2. Secure the mounting plate to ceiling or wall with mounting screws.



3. Lift to open the battery pocket door.



4. Insert the battery into the battery pocket considering the polarity terminals indicated on the enclosure of EWF3. Ensure the battery is securely connected.



5. Close the battery pocket door by snapping it into place.
6. Position the smoke detector to the mounting plate by turning it clockwise to lock into place. Note that the device will not lock into the mounting plate without the battery being present in the battery pocket.
7. Push the TEST WEEKLY button to verify if the wireless smoke detector is operational. See **5.1. Testing the unit.**
8. Bind the device to the alarm system using ELDES Utility Tool soft-ware. Open Wireless Device Management section, find your unpaired EWF3 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 installation manual.
9. Upon the successful binding process, the EWF3 device icon becomes visible in **Wireless Device Management** section as well as Battery Level and Signal Level.

NOTE: If you are unable to pair the smoke sensor to alarm panel ESIM484, please restore the parameters of the wireless device to default and try again. See chapter **5.3. Restoring Default Parameters** for more details.

CAUTION: This smoke detector comes with cover latches that will prevent the smoke detector cover from closing if battery is not installed. This tells you that the smoke detector will not work until a new battery is properly installed.

4.1. Interconnection

The interconnection feature automatically links all wireless detectors that are paired with the alarm system. When any EWF3 detects smoke, it will sound the built-in siren and send the signal to the alarm system resulting in an instant alarm followed by built-in siren sound caused by the rest of EWF3 devices. EWF3 devices that detected smoke will auto-reset when the smoke clears, while the rest of EWF3 devices will continue to sound in accordance with the set time period (by default - 30 seconds) that can be managed by *ELDES Configuration Tool* software.

5.MAINTENANCE

5.1. Testing the Unit

- The TEST WEEKLY button verifies if EWF3 is operational. Firmly push the TEST WEEKLY button for 1sec and the detector will sound a loud 3 times beep.
- Test the detectors weekly and upon returning from vacation or when no one has been in the household for several days.
- Test each detector to be sure it is installed correctly and operating properly.
- DO NOT use an open flame to test this detector. You may ignite and damage the detector or your home.
- MALFUNCTION. If you hear “beep” with yellow LED flashing once 48 seconds, it indicates that the detector doesn't work properly, please have it repaired or serviced:
 - “Beep” 3 times with yellow LED flashing 1 times means smoke sensor trouble, please clean the smoke chamber or EWF3 must be replaced.
 - “Beep” 1 times with yellow LED flashing 1 times means that the smoke detector non-replaceable battery low voltage and EWF3 must be replaced.
 - “Beep” 2 times with yellow LED flashing 2 times means “Clean me”, please clean the smoke chamber.
 - “Beep” 2 times with yellow LED flashing 1 times means “Low sensitivity”, please clean the smoke chamber.
 - “Beep” 1 times with yellow LED flashing 4 times means that the smoke detector reached 10 years of operation and EWF3 must be replaced.

ATTENTION: If EWF3 is removed from bracket, Test weekly button does not operate.

ATTENTION: Test all detectors weekly to ensure proper operation.

5.2. Wireless module battery replacement

- Turn EWF3 counter-clockwise to detach it from the mounting plate.
- Gently pull down the device.
- Remove the old battery from the battery pocket.
- Position the new battery according to the appropriate battery slot positive/ negative terminals indicated on the enclosure of EWF3. Ensure the plastic battery holder is fully depressed when the battery has been fitted.
- Re-attach EWF3 to the mounting plate by turning the device clock-wise until it snaps into place.
- Using the TEST WEEKLY button, test the detector to verify if it is operational. See **5.1. Testing the Unit.**

ATTENTION: Only Panasonic or Duracell CR123A batteries are recommended. Install only new, high quality and unexpired batteries.

ATTENTION: The battery must be removed if the device is not in use.

ATTENTION: To prevent risk of fire or explosions, operate this equipment solely using certified power cells. Pay close attention to proper polarity alignment when inserting the contacts. Recycle depleted cells exclusively at authorized disposal facilities. Never attempt recharging, dismantling, exposing to high temperatures, or burning used power cells.

NOTE: Real-time tracking of the wireless module's battery is accessible via the ELDES Utility Tool application. When a low-voltage threshold occurs in either the integrated non-interchangeable sensor cell or the communication battery, a Trouble event is logged by the ELDES alarm system. Only wireless battery voltage could be seen on Utility software.

NOTE: Once the battery charge drops below 5%, the ESIM484 system transmits an SMS notification to the registered user phone number.

5.3. Restoring Default Parameters

- The EWF3 must remain docked within the mounting plate, as factory restoration is otherwise blocked.
- Press and sustain the TEST WEEKLY button while the sounder emits more than nine acoustic signals.
- The detector restores factory configurations and becomes fully prepared to bind with the ELDES alarm system.

5.4. Cleaning and Precautions During Use

Clean the detector at least once a month to remove dust, dirt, or debris. Using the soft brush or wand attachment of a vacuum cleaner, vacuum all sides and cover of the detector. Be sure all the vents are free of debris. If necessary, use a damp cloth to clean the detector cover.

Some household substances can affect the sensitivity of the detectors in a short or long term. Avoid the use of model paint, model glue or nail polish remover close to the alarm. Do not use aerosol sprays, household cleaners, polishes or perfumes close to the device.

NOTE: Do not attempt to remove the cover to clean inside the detector. This will void your warranty.

6. EWF3 ZONE AND TAMPER

Upon successful device pairing process, the system adds wireless zone (-s) as follows:

- EWF3** - 1 Fire-type zone intended for smouldering fire/smoke detection.

A tamper violation immediately leads to an alarm on the primary control panel, executing whether the ELDES alarm system is currently armed or disarmed. There are two separate methods to identify a tamper event on the EWF3:

- Through the tamper switch.** The EWF3 features an integrated tamper mechanism designed to monitor the enclosure. Situated on the rear of the device, this switch supervises the back casing to detect unauthorized removal (see Fig. No. x). Detaching the EWF3 housing from its mounting bracket after 15sec activates this tamper. Consequently, an alarm is initiated, prompting the system to transmit an SMS notification and/or place a voice call to the registered user. This text message specifies the exact name of the violated tamper.
- Through wireless signal drop.** A disruption in the radio communication between the EWF3 and the ELDES security panel triggers an alarm condition. The control panel interprets this supervisory failure as a tamper breach, sending a standard alert via text message and cellular call to the user(-s). Furthermore, a follow-up SMS message will notify the user once the wireless network connection is recovered.

ATTENTION: The tamper will not operate if the wireless zone (-s) is disabled.

ATTENTION: The weekly testing button will not function when the EWF3 is detached from its mounting plate.

7. TEMPERATURE SENSOR

An integrated temperature sensor is built into the unit, enabling continuous monitoring of ambient environmental conditions immediately surrounding the EWF3. When integrated with an ELDES alarm system, custom minimum and maximum thermal thresholds can be configured between 0°C and +50°C. If these predefined values are breached, the system automatically dispatches an SMS alert to the registered user phone numbers. The integrated sensor tracks environmental data with a measurement precision of +/-1°C.

WARRANTY INFORMATION

You are viewing the warranty information for this product. It's important to thoroughly review this document.

TERMS OF USE

The following terms and conditions govern the use of the ELDES EWF3 device and contains important information on limitations regarding the product's use and function, as well as information on the limitations of the manufacturer's liability. Please carefully read these terms and conditions. For more information on your product, please visit eldesalarms.com.

TECHNICAL SUPPORT

In order to ensure continuous and proper operation of the ELDES EWF3 device and uninterrupted service, it is the responsibility of the User to make sure that: (I) the product is properly installed, and (II) there is constant electrical supply. If you experience difficulty during the installation or subsequent use of the system, you may contact “E ALARMS, UAB” distributor or dealer in your country/region. For more information, visit eldesalarms.com.

WARRANTY PROCEDURES

Warranty and out of warranty service should be obtained by contacting the system integrator/dealer/retailer/e-tailer or distributor where the customer purchased the product. When requesting for service, the proof of purchase and the product serial number must be provided. The return of the defective product should be strictly through the original route of purchase, and the customers shall pack the product appropriately to prevent the returned product from suffering in the transportation.

LIMITED LIABILITY

The buyer acknowledges that the product is able to increase convenience and reduce the risk theft, burglary or other dangers, but does not provide guarantee against such events. “E ALARMS, UAB” will not assume any responsibility regarding personal or property, or revenue loss while using the system. “E ALARMS, UAB” is not affiliated with any of the Internet providers, therefore, it shall not responsible for the quality of Internet service. “E ALARMS, UAB” shall also assume no liability due to direct or indirect damage or loss, as well as unreceived income when using the system, including cases, when the damages arisedue to the above mentioned risks, when due to breakdown or malfunctionthe user is not informed in a timely manner about a risk which has arisen. In any case, the liability of “E ALARMS, UAB”, as much as it is allowed by the laws in force, shall not exceed the price of acquisition of the product.

MANUFACTURER WARRANTY

“E ALARMS, UAB” warrants this system only to the original purchaser and only in case of defective workmanship and materials under normal use of the system for a period of twenty-four (24) months from the date of shipment by the “E ALARMS, UAB” (Warranty Period). Warranty obligations do not cover expandable materials (power elements and/or batteries), holders and enclosures. The warranty remains valid only if the system is used as intended, following all guidelines outlined in this manual and in accordance with the operating conditions specified. The warranty is void if the system has been exposed to mechanical impact, chemicals, high humidity, fluids, corrosive and hazardous environments or force majeure factors. If a hardware defect arises and a valid claim is received within the Warranty Period, at its own discretion, “E ALARMS, UAB” will either (a) repair a hardware defect at no charge, using new or refurbished replacement parts, or (b) exchange the product with a product that is new or which has been manufactured from new or serviceable used parts and is at least functionally equivalent to the original product, or (c) refund the purchase price of the product.

SAFETY INSTRUCTIONS

- DO NOT** use the system where it can interfere with other devices - such as 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.

CONSUMER PROTECTION LAWS

For consumers who are covered by consumer protection laws or regulations in their country of purchase or, if different, their country of residence, the benefits conferred by this warranty are in addition to all rights and remedies conveyed by such consumer protection laws and regulations. This warranty grants upon your specific legal rights, and you may also have other rights that vary by country, state or province.

RECYCLING INFORMATION

The WEEE (Waste Electrical and Electronic Equipment) symbol on this product (see left) means it must not be disposed of in household waste. To prevent possible harm to human health and/or the environment, you must dispose of this product in an approved and environmentally safe recycling facility. For further information contact your system supplier, or your local waste authority.

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