

EMFIT[®] SafeDoor[™]

Door Exit Monitor with Nuisance Alarm Rejection

Operation and installation instructions Warranty terms

Applicable model numbers:
Control unit D-1170-2G with
Floor sensor L-6090 and Magnetic Switch

For monitor device version t51 1.0.0.



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DANGER NOTES

THE FOLLOWING NOTES ARE PROVIDED FOR BOTH YOUR PERSONAL SAFETY AND TO PROTECT THE DESCRIBED PRODUCT OR ATTACHED DEVICES FROM DAMAGE.

SAFETY NOTES AND WARNINGS FOR THE PREVENTION OF DANGER TO THE LIVES AND HEALTH OF USERS OR MAINTENANCE PERSONNEL AND/OR FOR THE AVOIDANCE OF DAMAGE TO PROPERTY ARE EMPHASISED IN THESE INSTRUCTIONS BY THE PICTOGRAMS DEFINED HERE. THE PICTOGRAMS USED HAVE THE FOLLOWING MEANINGS FOR THESE INSTRUCTIONS:



Means that death, serious personal injury or substantial damage to property can occur if the appropriate precautionary measures are not taken.

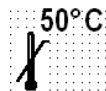


Means important information about the product or a part of the instructions that particular attention should be paid to.

OTHER SYMBOLS USED



Use by



Upper storage temperature limit

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1. EMFIT® SAFEDOOR™ - GENERAL INFORMATION

Emfit® SafeDoor door exit alarm is designed for care of elderly person. It consist a floor sensor, a magnetic switch and a control unit. With use of floor sensor and magnetic switch, systems knows if person goes out of the room and does not alarm if person only opens the door and stays in, thus reducing nuisance alarms usually a problem with magnetic switch alone. A time delay can be used if it is allowable for the person to go out for determined time, and alarm only if not returning back in time.

Control unit

Control unit operates with 2 pcs AA size good quality alkaline batteries. Optionally a 5 V DC adapter is available.

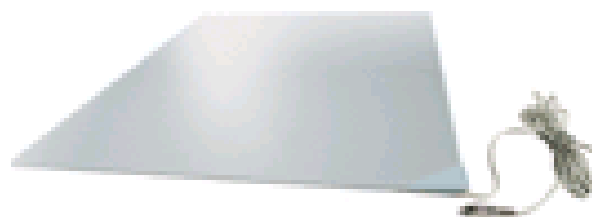


Floor sensor (mat)

Emfit floor sensor is a dynamic type sensor that senses when person walks over it or is standing on it. It notices movement only and no weight. It is mounted next to the door, inside.

Magnetic switch

Magnetic switch attaches to the door and door frame. It senses when door is open or closed.



2. CONTENTS OF PACKAGE

Emfit SafeDoor package consists of:

- D-1170-2G control unit
- L-6090SL floor sensor (mat)
- SM-217 Magnetic Switch
- Wall mounting clip
- Fastening items
 - 2 pcs 4 mm screws and locking anchors for fastening the mounting rack to the wall
 - 4 pcs of screws for fastening the magnetic switch
 - 4 pcs cord clips for wires
- This user's manual

Optionally also:

- AC adapter

3. INSTALLATION AND WIRING

1. Fasten the control unit to the wall with the included mounting clip, at about 1,8 m height. Do not install outdoor the building.



Attach the wall mount with the included two anchors and screws

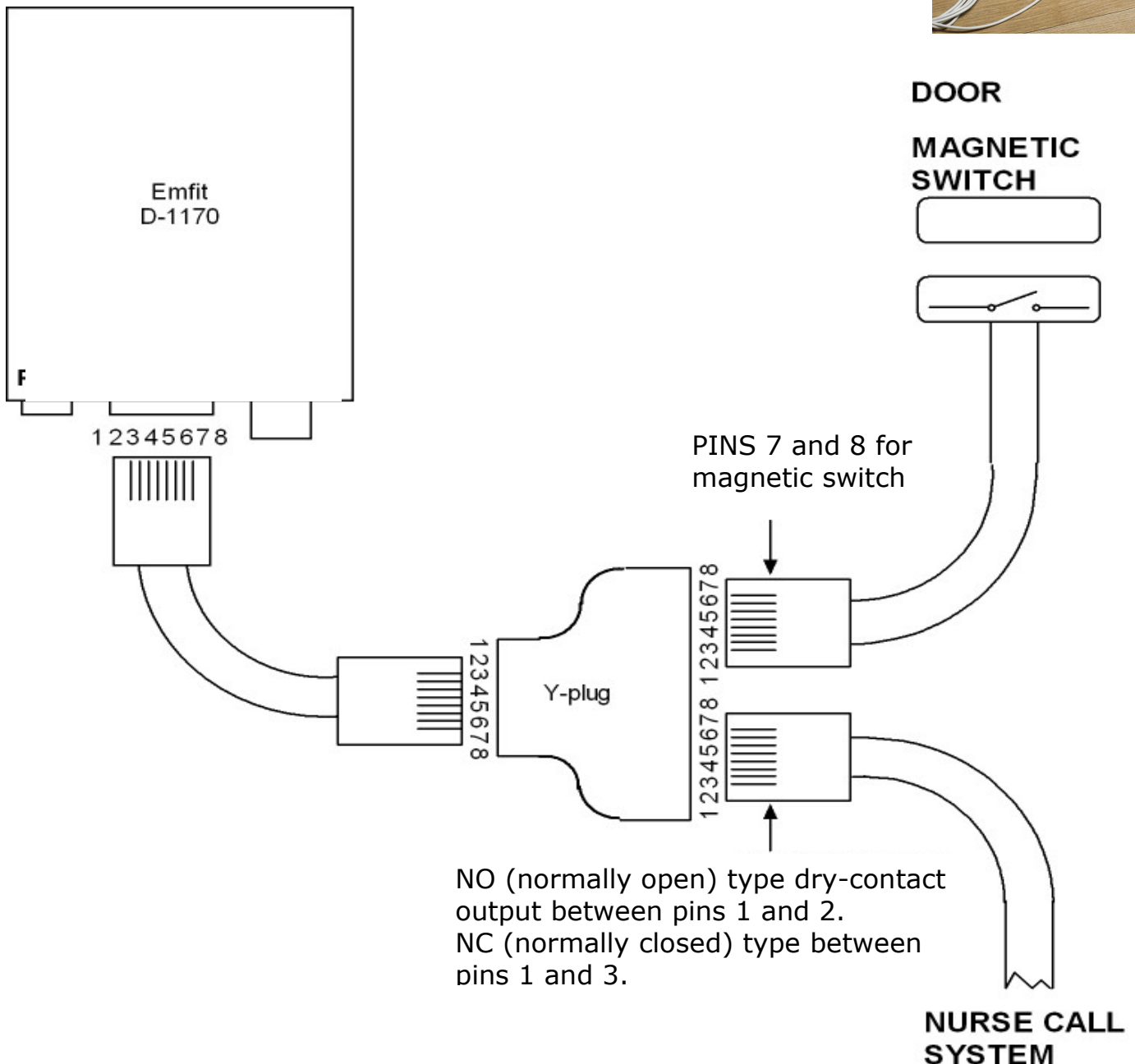


Slide the device into the mount



Press the device downwards so you hear a "click" sound

2. Install the magnetic switch to the door and the doorframe.
3. Install the floor sensor inside (!) of the door, placed as the normal doormat. It is very important to clean the surface from dust and stones. Place the anti-slip pads under the sensor. Install the sensor to the floor with double side tape, or tape the sides to avoid any small particles to get under the sensor. Those easily break the sensor.
4. Plug the AC adapter to the mains and connect its cord to the control unit PWR connector.
5. Connect the control unit to the facility alarm system and magnetic switch to the control unit with a proprietary connection cable and Y-connector. See the wiring picture below.
6. Connect the floor sensor wire to the control unit connector marked as X3.
7. System is ready for use.

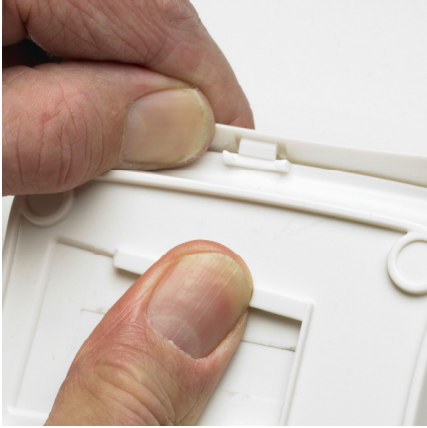




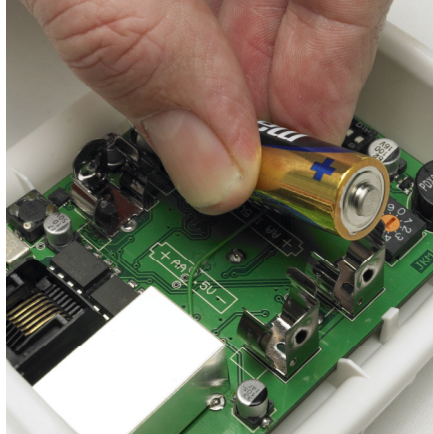
DRY-CONTACT OUTPUT OF THE X2 (AUX) CONNECTOR CAN ONLY BE CONNECTED TO A SYSTEM SAFETY VOLTAGE INPUT WITH MAX VOLTAGE BELOW 25V (AC) / 60V (DC), WHERE BOTH POLES HAVE BEEN SEPARATED FROM THE ELECTRICAL NETWORK (SO CALLED FLOATING APPLIED PART)! MAX LOAD CURRENT IS 100 mA.

4. INSTALLING BATTERIES AND BATTERY CONSUMPTION

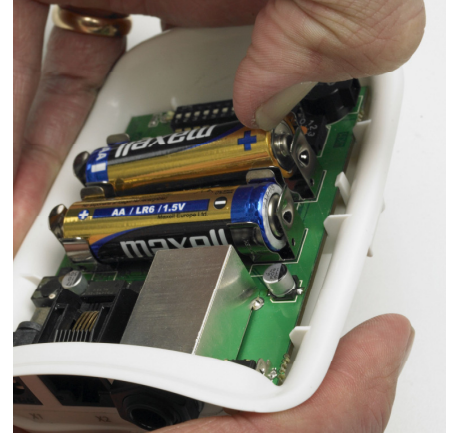
Product operates with 2 pcs AA size 1.5 V alkaline batteries. Install and remove the batteries as follows:



Open the cover by lifting from one side



Install 2 pcs good quality AA size 1,5 V alkaline batteries according the polarity drawings on the circuit board



When removing old batteries, they are easiest to remove by lifting from + ends

Estimated battery life is 6 months, when using high quality alkaline batteries, with 2800 mAh capacity (2pcs). Estimation is based on measured battery consumption in various conditions and then a calculation where device is on 50% of time and shut down 50% of time.

5. ABOUT THE OPTIONAL 5V AC ADAPTER

For preparing the optional power supply in use, do the following:



Remove the plastic cover



Pick up suitable adapter from the included 4 pcs



Install the adapter and make sure it stays in its place



THE EMFIT SAFEDOOR IS DESIGNED AND TESTED TO BE USED ONLY WITH GLOBTEK INC. POWER SUPPLY MODEL: NO GTM41060-1505 AND P/N:WR9QA3000LCP-N-MNK. ANY OTHER TYPE OF AC ADAPTER MAY AFFECT THE PRODUCT'S SAFETY.

The power supply is equipped with a blue indicator light; when the light is on the power supply is in use. If the light is off and the power supply is connected to the mains outlet, the power supply is probably damaged and should be replaced.

i WHEN THE AC ADAPTER IS CONNECTED TO THE POWER INPUT (X1), THE BATTERIES WILL OPERATE AS BACK UP POWER SUPPLY IN CASE OF NO MAINS POWER. NOTE THAT ALL BATTERIES DRAIN EMPTY UPON TIME. THEREFORE REPLACE BACK UP BATTERIES LATEST EVERY SECOND YEAR. LOW BATTERY WARNING DOES NOT OPERATE WHEN AC ADAPTER IS CONNECTED. TO TEST BATTERIES, SWITCH THE DEVICE ON AND REMOVE THE AC-ADAPTER CORD FROM X1. IF THE RED LED LIGHTS UP, REPLACE THE BATTERIES.

6. SW1 SWITCH USE

Setting the device ON or OFF

Switch the device ON by pressing the SW1 switch about 3 sec. Blue light starts blinking. The control unit is now in STANDBY mode.

Switch the device OFF by pressing the ON/OFF/RESET about 3 sec. Blue light stops blinking.

Reset

When the notification has been triggered, the device resets by person returning to the room or by pressing shortly the SW1 button. Sound alarm silences by pressing shortly the SW1 button. If DIP switch #3 is at ON position, systems resets automatically.



By-passing the exit notification

Nurse or other person can come in or go out without causing notification by pressing shortly the SW1 button. By-pass time is 20 seconds and during it the green led will blink.

Door-exit alarm delay

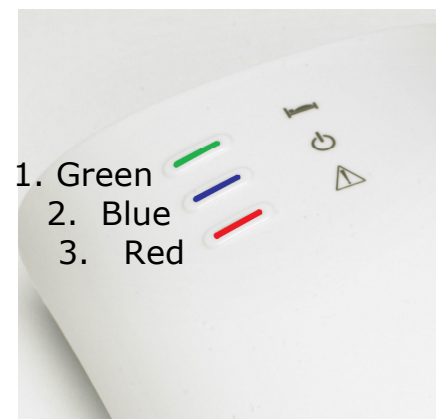
Emfit SafeDoor can be set to alarm only if the person leaves the room and does not return in and close the door within a preset time. See chapter DIP switches.

7. LED-Light indicators

Green light	
Blinking slowly, every second time of blue light.	Normal situation. System is monitoring presence in room
Blinking same time as blue light	By-pass time is going (20 sec)
Blinking fast (two times faster than blue light)	Device has noticed door exit and is counting delay as per is set by DIP switches #1 and #2.
Blinking very fast	System notices someone is standing on the floor sensor


Blue light	
No light	Device is turned OFF
Blinking	Device is ON
Blinking fast	Door is open
Short period very fast blinking	Notification is being triggered

Red light (fault)	
Blinking slowly (every second time of blue light)	Replace batteries
Blinking same speed as blue light	Floor sensor is detached or broken



8. BEFORE USE SELECT THE RIGHT DIP SWITCH SSETTINGS

Inside the device there is a so called DIP switch with 8 small switches. These are used for various program settings.

 See the following table and set up the switches for your preferred way. To open the device cover, see the picture on right.

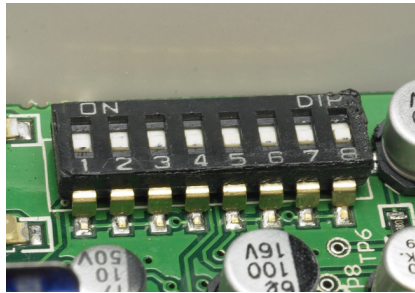


Table of DIP Switch Settings

Switch #	OFF (down)	ON (up)
#1	Notification time delay setting, see next chapter	Notification time delay setting, see next chapter
#2	Notification time delay setting, see next chapter	Notification time delay setting, see next chapter
#3	Automatic reset disabled (not in use)	Automatic reset enabled (in use).
#4	Intruder notification disabled (not in use)	Intruder notification enabled (in use).
#5	Dry-contact output is pulse mode (about 1 sec pulse)	Dry-contact output is constant type. Use only when necessary by other system to be connected with. Not to be used with batteries! Only with optional power supply due increased power consumption.
#6	Power switch function at SW1 is enabled (device can be shut down and turned on by pressing SW1 for about 3 seconds)	Power switch function at SW1 disabled (device is always on).
#7	Notification sound volume setting, see after next chapter	Notification sound volume setting, see after next chapter
#8	Notification sound volume setting, see after next chapter	Notification sound volume setting, see after next chapter

Setting the Notification Time Delay

Time Delay	Switch # 1	Switch #2
Shortest (6 sec)	OFF (down)	OFF (down)
15 minutes	ON (up)	OFF (down)
30 minutes	OFF (down)	ON (up)
60 minutes	ON (up)	ON (up)

Setting the Notification Sound Volume

The notification sound is useful only when caregiver is in close proximity to the control unit. The volume can be adjusted at 4 levels: no sound, quiet, loud, and very loud.

Volume level	Switch # 7	Switch #8
Very Loud	OFF (down)	OFF (down)
Loud	ON (up)	OFF (down)
Quiet	OFF (down)	ON (up)
No sound / mute	ON (up)	ON (up)

 ALWAYS UNPLUG THE AC ADAPTER AND REMOVE BATTERIES WHEN MAKING CHANGES TO THE DIP SWITCH POSITIONS IN ORDER TO RESET THE PROGRAM AND GET THE NEW SETTINGS IN USE.

9. SYSTEM TEST AND SENSITIVITY ADJUSTMENT

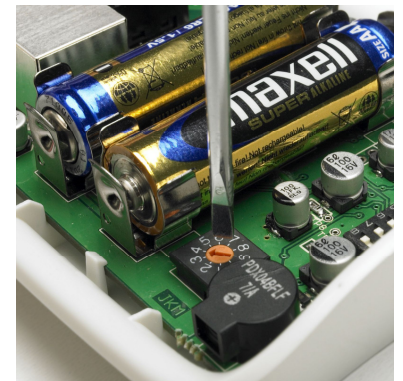
Make the following test after installation and at least every week when in use.

1. Inspect that all wires are on place and good condition.
2. Check that the floor sensor is positioned correctly, next to the door, inside. Check that anti-slip is below the sensor. It is recommended that sensor is taped to the floor with double side tape to prevent small particles get below the sensor and damage it. If sensor is not taped to the floor, clean the bottom of the sensor and the floor with moist cloth to make sure there is no small particles like stones that can puncture the sensor.



IT IS VERY IMPORTANT THAT THE ANTI-SLIP IS USED BELOW THE SENSOR TO AVOID IT SLIPPING.

3. Check that the blue light is blinking and that green light does not blink when door is closed and no person is standing on the sensor.
4. Check that blue light is blinking fast when door is opened but no one is on the floor sensor.
5. Check that green light is blinking fast when you stand still on the sensor, for at least one minute. If it doesn't stay on, adjust sensitivity higher. It can be adjusted with rotary switch from the inside of the device. Factory default setting is position #3. You need a small Phillips head screwdriver for adjusting. Adjust it so that you stand still on the floor sensor and device is in its bracket and not in hand. Turn the sensitivity screw clockwise step by step until the green light is blinking faster than blue light while you stand still on the sensor, not moving (!). Minimum sensitivity is at #1 and maximum sensitivity at #9 position. Also, make sure that green light is blinking same speed as blue light while you do not stand on the sensor and door is closed. If it is blinking faster than blue light (sensitivity is set too high), turn the sensitivity screw counter-clockwise step by step and until the green light blinks same speed as blue light (door must be closed). Wait for a while at each step.



If the sensitivity is set too high, it will cause the green light blink faster than blue light even though there is nobody on the sensor and thus the device will not function properly. Also, if it is set for too low sensitivity, device will not function properly and may not trigger notification when needed.

10. CLEANING

The floor sensor can be cleaned with water and, when necessary, neutral general-purpose or mild antiseptic detergents. Always dry the sensor after cleaning. Use a moist cloth for cleaning the control unit. Clean also the bottom of the sensor and the floor where it is being installed to avoid small particles punch the sensor and cause a short.



THE CONTROL UNIT MUST NOT GET WET! DO NOT CLEAN THE AC ADAPTER OR THE CONTROL UNIT WHEN IT IS CONNECTED TO THE MAINS OUTLET. ALWAYS DRY IT WELL AFTER CLEANING.

11. TROUBLESHOOTING



ALWAYS CHECK FIRST THAT INSTALLATION IS CORRECT AND TEST THE DEVICE PROPERLY AFTER EVERY CHANGE (SEE SYSTEM TEST).

System alarm (relay output) does not work;

- Check that all the wirings are installed properly and they are in good condition

Sound alarm does not operate;

- Check the volume level.

False alarm alarms without reason:

- Make the system test (chapter 9).

No alarm at all even though such should have come:

- Make the system test (chapter 9).

Other possible problems: please contact your dealer, distributor or manufacturer directly.

ANY FEEDBACK TO MANUFACTURER IS HIGHLY APPRECIATED AND HELPS TO FURTHER DEVELOP THE PRODUCT.

12. IMPORTANT SAFETY NOTICES

TO AVOID POSSIBLE INJURY OR DEATH:

- EMFIT SAFEDOOR IS NOT A LIFE SAVING SYSTEM
- KEEP THE EMFIT SAFEDOOR ELECTRONIC DEVICE AND SENSOR ALWAYS DRY. EXPOSURE TO EXCESSIVE MOISTURE CAN CAUSE IT TO MALFUNCTION.
- READ INSTRUCTIONS PRIOR TO USE
- ALWAYS TEST THE SYSTEM PER INSTRUCTIONS PRIOR TO USE
- THIS PRODUCT MAY NOT BE SUITABLE FOR ALL PERSONS
- THIS PRODUCT SHOULD NOT BE A SUBSTITUTE FOR MAINTAINING THE ROUTINE VISUAL MONITORING PROTOCOL BY CAREGIVER.
- MUST NOT BE USED IN SITUATIONS WHERE A DELAY IN THE ARRIVAL OF APPROPRIATE CARE COULD LEAD TO A POTENTIALLY LIFE-THREATENING SITUATION.
- NEVER USE EMFIT SENSOR WITH OTHER MANUFACTURERS' DEVICES.
- THE NOTIFICATION MAY FAIL TO SOUND IF THE SENSOR OR ITS WIRE IS DAMAGED OR IMPROPERLY POSITIONED.
- PETS CAN CAUSE SYSTEM DO NOT GIVE NOTIFICATIONS OR GIVES FALSE NOTIFICATION.
- SENSOR MUST NOT BE SCRATCHED, SLIT OR CUT.
- CHECK SENSOR AND WIRES CONDITION AND IN USE TIME AT LEAST WEEKLY AND REPLACE WHEN NECESSARY.
- DO NOT INTEGRATE TO OTHER SYSTEM OTHERWISE THAN SPECIFIED IN THIS MANUAL.
- DO NOT OPEN THE PARTS OR ATTEMPT TO REPAIR IT YOURSELF.
- ALWAYS KEEP THE CONTROL UNIT AND SENSOR DRY. EXPOSURE TO EXCESSIVE MOISTURE CAN CAUSE IT TO MALFUNCTION.
- THE PRODUCT FULLFILLS THE REQUIREMENTS OF THE EMC-DIRECTIVE FOR MEDICAL DEVICES- IT DOES NOT CAUSE ANY ELECTROMAGNETIC DISTURBANCE IN NORMAL WORKING CONDITIONS.
- THE PRODUCT CAN BE STACKED OR PLACED NEAR OTHER PRODUCTS OR DEVICES AS LONG AS MECHANICAL VIBRATION IS NOT PRESENT.
- ALWAYS CHECK THE FUNCTION OF THE PRODUCT AFTER MAKING ADJUSTMENTS.

ACCIDENTIAL OR INTENTIONAL ADJUSTMENT OF KNOBS AND SWITCHES BY THE USER OR SUBJECT MAY CAUSE:

- THE NOTIFICATION SOUND TO NOT ACTIVATE
- FALSE NOTIFICATIONS (INCREASE) OR MALFUCTION (DECREASE) WHEN ADJUSTING THE SENSITIVITY.
- THE PRODUCT MAY NOT GIVE NOTIFICATION WHEN NECESSARY IF TURNED OFF BY PRESSING THE SW1 SWITCH.
- THE PRODUCT MAY NOT GIVE NOTIFICATION WHEN NECESSARY WHEN SWITCHING DIP SWITCHES.

13. MATERIALS DISPOSAL

These Emfit products contain the following materials that might require special handling when disposed of:

- PVC

Disposal of this material can be regulated because of environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance (EIA, www.eiae.org).

14. EU / DECLARATION OF CONFORMITY

Emfit SafeDoor™ alarm (product numbers D-1170-2G, L-6090SL and SC516) complies with the requirements of EMC directive 2004/108/EC and CE mark directive 93/68/EEC and carries the CE marking accordingly.



15. U.S. / FCC STATEMENT

The United States Federal Communications Commission has specified that the following notice to be brought to attention of users of this product:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

⚠ CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR THE COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

16. CANADA / EMC COMPATIBILITY STATEMENT

This Class A digital apparatus complies with Canadian ICES-003.
Cet appareil numéroté de la classe A est conforme à la norme NMB-003 du Canada.

17. EMFIT LIMITED WARRANTY STATEMENT

In the unlikely event that your product needs guarantee service, please contact your dealer, distributor or manufacturer. To avoid any unnecessary inconvenience on your part, we recommend you read this instruction manual carefully before seeking guarantee service.

YOUR GUARANTEE

By this Guarantee, Emfit guarantees the product to be free from defects in materials and workmanship at the date of original purchase for a period of two (2) years from that date.

If within the guarantee period the product is determined to be defective (at the date of original purchase) due to improper materials or workmanship, Emfit will, without charge for labour or parts, repair or (at Emfit's discretion) replace the product or its defective parts subject to the terms and limitations below. Emfit may replace defective products or parts with new or refurbished products or parts. All products and parts replaced become the property of Emfit.

TERMS

1. Guarantee services will be provided only if the original invoice or sales receipt (indicating the date of purchase, model name and dealer's name) is presented with the defective product within the guarantee period. Emfit may refuse free-of-charge guarantee service if these documents are not presented or if they are incomplete or illegible. This Guarantee will not apply if the model name or serial number on the product has been altered, deleted, removed or made illegible.

2. This Guarantee does not cover transport costs and risks associated with transport of your product to and from Emfit.
3. This guarantee does not cover:
 - a) periodic maintenance and repair or parts replacement due to wear and tear. Notice! Floor sensor is easily damaged if small particles like stones get below it. Such damage is not covered by guarantee.
 - b) consumables (components that are expected to require periodic replacement during the lifetime of a product such as non-rechargeable batteries)
 - c) damage or defects caused by use, operation or treatment of the product inconsistent with normal use
 - d) damage or changes to the product as a result of:
 - i. misuse, including:
 - treatment resulting in physical, cosmetic or surface damage or changes to the product
 - failure to install or use the product for its normal purpose or in accordance with Emfit's instructions on installation or use
 - failure to maintain the product in accordance with Emfit's instructions on proper maintenance
 - installation or use of the product in a manner inconsistent with the technical or safety laws or standards in the country where it is installed or used
 - ii. the condition of or defects in systems with which the product is used or incorporated except other Emfit's products designed to be used with the product
 - iii. use of the product with accessories, peripheral equipment and other products of a type, condition and standard other than prescribed by Emfit
 - iv. repair or attempted repair by persons who are not Emfit employees
 - v. adjustments or adaptations without Emfit's prior written consent, including:
 - upgrading the product beyond specifications or features described in the instruction manual, or
 - modifications to the product to conform it to national or local technical or safety standards in countries other than those for which the product was specifically designed and manufactured
 - vi. neglect
 - vii. accidents, fire, liquids, chemicals, other substances, flooding, vibrations, excessive heat, improper ventilation, power surges, excess or incorrect supply or input voltage, radiation, electrostatic discharges including lightning, other external forces and impacts.
4. This guarantee covers only hardware components of the product.

EXCLUSIONS AND LIMITATIONS

EXCEPT AS STATED ABOVE, EMFIT MAKES NO WARRANTIES (EXPRESS, IMPLIED, STATUTORY OR OTHERWISE) REGARDING PRODUCT OR ACCOMPANYING OR CONSTITUENT SOFTWARE QUALITY, PERFORMANCE, ACCURACY, RELIABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OTHERWISE. If this exclusion is not permitted or fully permitted by applicable law, Emfit excludes or limits its warranties only to the maximum extent permitted by applicable law. Any warranty that cannot be fully excluded will be limited (as far as permitted by applicable law) to the duration of this Guarantee.

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Where applicable law prohibits or limits these liability exclusions, Emfit excludes or limits its liability only to the maximum extent permitted by applicable law. For example, some countries prohibit the exclusion or limitation of damages resulting from negligence, gross negligence, wilful misconduct, deceit and similar acts. Emfit's liability under this guarantee will in no case exceed the price paid for the product, but if applicable law permits only higher liability limitations, the higher limitations apply.

YOUR LEGAL RIGHTS RESERVED

Consumers have legal (statutory) rights under applicable national laws relating to the sale of consumer products. This guarantee does not affect statutory rights you may have nor those rights that cannot be excluded or limited, nor rights against the person from whom you purchased the product. You may assert any rights you have at your sole discretion.

18. SPECIFICATIONS

Control Unit

Model: D-1170-2G
Operating voltage: 5 V DC
Connectors: X1 = DC in, X2 = dry-contact out and magnetic switch in, X3 = floor sensor
Dry-contact out: Max. 100 mA, 25 V AC or 60 V DC, NO or NC
Switches and controls: SW1 = ON/OFF/RESET, inside 8 program DIP switches and 10 position rotary switch for floor sensor sensitivity adjustment
Status indicators: 3 LED lights
Alarm delay: 4 positions, from immediate (6 sec) to 1 hour
Preferred mounting: On the wall with included bracket
Dimensions mm: 96 x 127 x 34 mm
Weight: 110 g
Color: White
Case: Plastic
Enclosure protection: IP20

Floor sensor

Model: L-6090SL
Placing: Inside next to the door
Dimensions mm (W x H): 610 x 930 mm (24,0" x 36,6")
Thickness: 2 mm (5/64")
Weight: 1,9 kg (65,8 oz)
Surface material: Plastic
Wire length: 3 m (9,84 ft)

Magnetic switch Use normally closed (NO) type

19. MANUFACTURERS CONTACT INFORMATION

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