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For all supervised sensors, LOW BATT detection is

below a certain level. This alerts the user in advance

A Case Tamper detector monitors any unauthorized

Once the sensor is mounted and activated, the Back

removed or vandalized by detecting any removal of the unit from a wall or corner. The Back tamper

detector will alert the security panel in such cases.

6

STEP-1 INSTALLING THE BATTERY (Fig 1)

Unscrew the case locking screw and remove the front cover. CAUTION Do not touch the magnetic element

or the electronic components inside as this may

2) For a new unit, simply remove the plastic strip contact breaker. For replacement, remove the battery

To test, press in both the back-tamper and the case-

tamper buttons, or use a magnet to simulate a door opening and closing. The LED will light to indicate

5) Close the front cover and replace the locking screw

by using a small screwdriver. CAUTION: Notice

the polarity. Replace with a fresh battery.

3) Dispose of the old battery properly. Do not

incinerate, heat, disassemble, recharge.

Tamper detector ensures that the sensor is not

when a sensor continuously measures its battery

state and transmits a low battery signal to the security panel when the battery's voltage drops

opening of the unit housing. A signal will be transmitted to the security panel to notify the user of

INTRODUCTION (FAQ's) - continued;

What is LOW BATT detection ?

to replace a weak battery.

such tampering.

What is a CASE TAMPER detector?

What is a BACK TAMPER detector?

Use only the specified 3.6 V Lithium Battery.

Q:

A:

0: A:

A:

(See block 22)

cause damage

an RF transmission.



4 www.rosslaresecurity.com FEATURES OF SA-02 - Performance

Magnetic Contact Sensor

The SA-02 Supervised Wireless Magnetic Contact Sensor is a high-performance intrusion sensor developed with the highest level of technology to make it ideal for residential and commercial applications Following features standard.

Supervisor

Case & Back Tamper Detectors ASIC and Microprocessor Technology Up to 3-yr. Battery Life with SPS Ultra-low Current Consumption Readily Replaceable 3.6V- 1/2 AA Lithium Battery SMD Component technology L.E.D. Test Function

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TERMINAL BLOCK FOR

RF TRANSMISSION

NDICATION LED

MAGNETIC CONTACT

(NORMALLY CLOSED)

CASE TAMPER

BUTTON

WIRED CONTACTS

Contraction of the local division of the loc

JUMPER FOR

BATTERY HOLDER

ANTENNA

EXTERNAL

SENSOF



- What is a Magnetic Contact Sensor ? 0 A Magnetic Contact Sensor is a sensor which Δ: detects the opening and closing of doors or windows protected by the sensor.
- What is WIRELESS and how can it benefit me ? Q: Wireless is the use of radio signals to transmit a A: signal from any sensor to a security panel, eliminating the need for setting wire ducts, extra cabling materials or drilling, saving time and money.
- Q: What is SUPERVISOR or SUPERVISED sensor ? A: A Supervised sensor continuously reports to the receiver or security panel to confirm status of the sensor and its presence. If the receiver fails to hear from a sensor within a pre-programmed time, it will presume a sensor is missing or malfunctioning and notify the user. This provides added security.



magnet with which it is intended to be used. Otherwise, performance could be affected and false alarms could occur.

- AVOID: Mounting on or near large metal surfaces and multiple concrete/steel walls. This may interfere or block the wireless signals. Make sure to test the range from any location by using the RF Test Procedure to ensure reception

- IMPORTANT NOTE: Install the Magnetic Contact Sensor on windows or doors that have firm hinges and firm locking action to prevent false alarms associated with wind or bumping.

www.rosslaresecurity.com 8 **STEP-2 SELECTING THE LOCATION**

The location and mounting of the SA-02 affects both the transmission range and wear and tear of the transmitter.

Preferably the transmitter should be installed as close as possible to the receiver and mounted in a high location so that the transmission will have less interference

- 1) Select a DOOR OR WINDOW within a room or hallway that best matches the criteria in section 5. (Fig 2):
- 2) Make sure that the Magnetic Contact Sensor will be mounted on a sturdy, non-vibrating door or window frame. Note: Following this instruction will reduce bumping and vibration effects on the sensor, and will extend the life of the product.
- 3) Perform the RF Test from the proposed mounting location to ensure that the sensor can be received
- 4) Select the appropriate height for the magnet assembly that will suit the location of the sensor.



FRONT OF PCB

FIG 1: Front of PCB

The SA-02 comes equipped with a standard magnet with adjustable height, suitable for most applications When there is a special need, select the appropriate height for the magnet assembly that will suit the location of the sensor. (FIG 3)



11 **STEP-4 WIRING THE EXTERNAL SENSOR** When the internal magnetic sensor in the SA-02 is not

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applicable. or an additional set of contacts are needed for the SA-01, the following procedure is required:

The maximum distance that an external contact can be away from the SA-02 is about 8.5 meters or 25 feet.

- This step is not necessary unless installing a remote external magnetic contact sensor with a wire to the SA-02.
- Remove the case locking screw and front cover. Connect the external magnet(s) in series to the wired 3)
- input terminal block of the magnetic contact sensor. 4) Move the jumper cover to the two right-most pins to activate the external magnetic contact input.
- 5) Replace the front cover and locking screw.

Please see FIG 4.







 Long valgnal whe
sour (IN) Dispose of Propen
disassemble, heat or
valse Count: Fixed at single pulse.
Detect Range: Sensitivity of up to 2 cm from magnet.
Operating Twentility: Up to 55% Non-Condensing (max.)
Alarm Transmit:
1 second.
RF Frequency:
Available.
Inform 1 second. Available in 433.92 or 868.35 MHz, with 1m Watt Standard magnet with plastic housing and wall spacer

Standard magnet with plastic housing and wate spectra, adjustable height. Removal of Magnetic Contact Sensor Front Cover (Protected by case tamper switch) Removal of Magnetic Contact Sensor from the wall or from corner mount (protected by yrear tamper switch) The supervisory signal is routinely transmitted to the panels every 20 minute, adviarigh of Tamper Status, Battery Status, Event Activation Status to the panel. Standby - 2UA Transmit - 5 mA Strum (h) x 35mm (w) x 25 mm (d) NOTICE

ansmit - 5 mA mm (h) x 35mm (w) x 25 mm (d) 5 " x 1 3/8 " x 1 ") grams (1.30 oz) without battery. Size (3.5 Weight:

Magnet

Tamper Switch 1: Tamper Switch 2: Supervisor:

The Manufacturer's warranty on this product is for a period of one year from the date of purchase against defects in materials and workmanship. Manufacturer's warranty percuder is limited to repair or replacement, at the manufacturer's sole option. If the warranty is given in favour of the original purchase only. Subject to the above warranty is given in favour of the original purchase only. Subject to the above warranty percent and the original purchase provide the sole of related or consequential loss including but not limited to labour costs incurred in inspecton, replacement or repair of defective products. This warranty is given expressly and in place of all other expressed or implied warrantes of merchantbilly and fitness for a particular purpose and this warranty is the only warranty made by the manufacturer. No agent, representatives or employee of the manufacturer has the authority to wave, alter or add to the printed provisions of this warranty to anyone other than the original purchase provisions of this warranty to make representation of warranty not contained herein or to extend this warranty to anyone ther than the original purchase of the product. The SA-02 Magnetic Contact Sensor is guaranteed against defects in workmanship and material for a period of 12 (Twelve) purchase to your dealer for replacement.

The SA-02 Magnetic Contact Sensor is designed to send an electronic signal to a control system, should intrusion occur, the warranty does not make the manufac or the distributor of the SA-02 Magnetic Contact Sensor held liable for conseque damages resulting from any breech of warranty, expressed or implied, applicab their use.

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window or door frame, it is important to check the reliability of the RF transmission to the receiver or

If the sensor is used with a receiver, check to see that

It is suggested that you arm the system and test that the

previous steps, check the security panel to ensure that there is no tamper signal, and that the sensor is properly