

Wirefree Magnetic Contact Detector

Installation and Operating Instructions

These instructions should be read in conjunction with your System Installation and Operating Manual and be retained for future reference.

Introduction

These Magnetic Contacts are designed for use with Response Wirefree Intruder Alarm systems operating at 433MHz only.

The Magnetic contact comprises two parts; a Detector and a Magnet. They are designed to be fitted to doors or windows with the Magnet mounted on the opening part and the Detector mounted on the fixed frame. Opening the protected door/window will remove the magnetic field, trigger the Detector and generate an alarm condition, (if the system is armed and the alarm zone active).

The Detector is powered by two CR2032 type Lithium cells which under normal conditions will have an expected life in excess of 1 year. Under normal battery conditions the LED on the Detector will not illuminate when the Detector is triggered, (unless in test mode). However, under low-battery conditions this LED will be illuminated for approx. 1s when the detector is triggered. When this occurs the batteries should be replaced as soon as possible.

The Magnetic Contact Detector has the facility to connect an additional wired Magnetic Contact. This additional contact must be of a normally closed contact type with the contacts being opened in order to generate an alarm condition.

Positioning the Magnetic Contact Detector

The Magnetic Contact Detector is suitable for mounting in dry interior locations only.

Decide which doors/windows are to be protected by Magnetic Contact Detectors, (usually the front and back doors as a minimum will have Magnetic Contact Detectors fitted). Additional detectors may also be fitted where required to other vulnerable doors or windows, (e.g. garage, patio/conservatory doors etc).

Ensure that the position selected for the Magnetic Contact detector is within effective range of the Siren, (refer to your System Installation and Operating Manual).

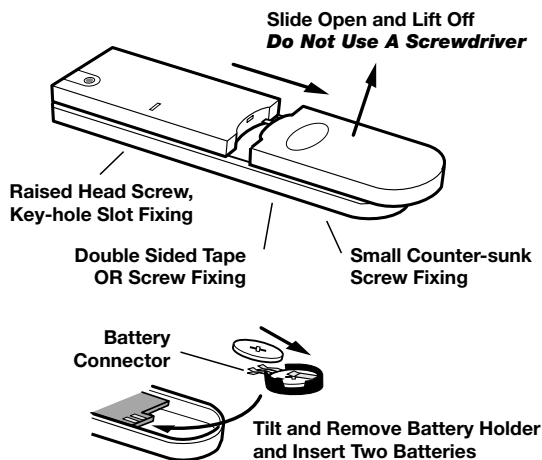
Note: Take care when fixing the Detector to a metal frame, or mounting within 1m of metalwork (i.e. radiators, water pipes, etc) as this could affect the radio range of the device. If required, it may be necessary to space the magnet and detector away from the metal surface using a plastic or wooden spacer to achieve the necessary radio range.

Installing the Magnetic Contact Detector

Ensure that the system is in Test/Service Mode.

1. Remove the battery cover by sliding and lifting it off. (DO NOT use a screw driver to lever the cover off).

2. Remove the battery holder by carefully tilting up the end and pulling the connector off of the printed circuit board.

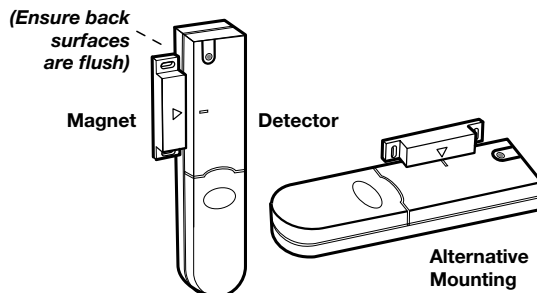


3. Mount the Detector to the fixed part of the frame along the opening edge opposite the hinges using either the double sided adhesive tape or screws provided.

If fixing the Detector with screws; Fit the Keyhole slot in the top of the Detector over the head of the smaller pan-head screw. Secure the bottom of the Detector using the 12mm countersunk head screw fitted within the battery compartment. You will need to drill out the centre of the fixing screw hole using a 3mm drill. Do not over-tighten the fixing screws as this may distort or damage the casing.

4. Fit the Magnet to the moving part of the door/window opposite the Detector using the adhesive tape or 15mm fixing screws.

Ensure that the parallel gap between the Magnet and Detector is less than 10mm and that the arrow on the Magnet is pointing towards and aligned with the mark on the Detector.



5. If an additional wired Magnetic Contact is required, this should be wired to the terminal block provided in the battery compartment. The wired contact should be connected using two core (24AWG) wire of maximum length 1.5m.

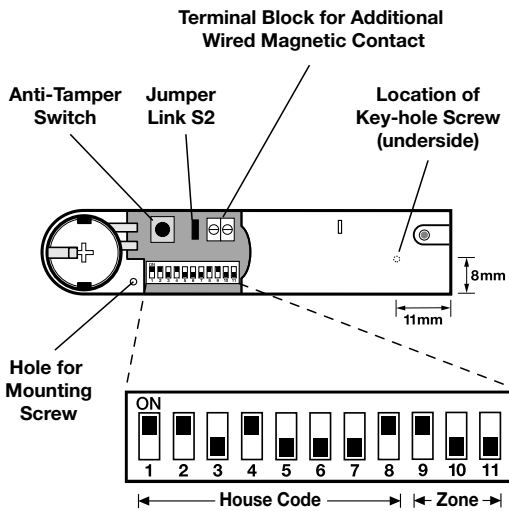
A cable entry cut-out is provided beside the terminal block in the battery cover.

6. Configure the Detector as described overpage.

- Slide the batteries supplied into the holder, ensuring that the positive (+) side is uppermost on each battery as it is installed.
- Carefully refit the battery holder onto the Detector ensuring that the spring connectors slide onto either side of the circuit board.
- Refit the battery cover.

Configuring the Magnetic Contact Detector

- Located in the battery compartment is a row of 11 DIP switches.
- DIP switches 1-8 are used to set the House Code for the Detector and must be set to the same ON/OFF combination as the House Code DIP switches in all other system devices.



- If used with a "Siren Controlled" alarm system (i.e. a system without a separate Control Panel) DIP switches 9-11 must be set as follows:

DIP 9	DIP 10	DIP 11
ON	ON	OFF

otherwise these DIP switches are used to configure the alarm zone which the detector operates on as follows:

	DIP 9	DIP 10	DIP 11
Zone 1	OFF	OFF	OFF
Zone 2	OFF	OFF	ON
Zone 3	OFF	ON	OFF
Zone 4	OFF	ON	ON
Zone 5	ON	OFF	OFF
Zone 6	ON	OFF	ON

- If additional external contacts are wired to the Detector, remove the jumper link S2 on the PCB.

IMPORTANT: If external contacts are not connected then jumper link SW2 must be fitted for the detector to operate correctly.

Testing the Magnetic Contact Detector

Ensure that the system is in Test/Service Mode.

- Remove the battery cover from the Detector.

As the battery cover is removed the LED on the Detector will illuminate for approx. 1s to indicate that the tamper switch has been activated.
- Open the door/window to remove the magnet from the Detector. As the magnet is moved away from the detector the LED will illuminate for approx. 1s to indicate that the Detector has been triggered.
- If connected, operate the wired Magnetic Contact. As the contact is opened the LED on the Detector should illuminate for 1s to indicate that it has been triggered.
- Replace the battery cover on the Detector.
- It is recommended that the operation of the detector is also tested with the alarm in normal operating mode to ensure that the detector will successfully trigger a Full Alarm condition and that the Detector is operating on the correct zone (if installed on a multi zone alarm system). Refer to your System Installation and Operating Manual.

Guarantee

This product is guaranteed for one year from the date of purchase against faulty materials and workmanship. We will repair or replace any faulty product. No liability can be accepted for any problems caused by fair wear and tear, buyers negligence, improper fitting or use, wilful or accidental damage, or any consequential loss or damage howsoever caused. This guarantee does not affect your statutory rights and is valid in the UK and EIRE only.

If an item develops a fault, the product must be returned to the "Response Technical Sales Services Department" at the address below in adequate packing with:

- 1) A copy of your original invoice/receipt and
- 2) A full description of the fault.

For security, Recorded or Registered post is recommended.