

## JA-82M - Wireless Magnetic Door/Window Detector

The JA-82M is designed to detect opening windows, doors etc. It can be installed into most plastic or wooden frames.

The JA-82M detector is suitable for indoor installations only.

### Installation - Overview

Installation should only be undertaken by technicians holding a certificate issued by an authorised distributor. The detector must not be exposed to bending or other deformation, as it may become damaged.

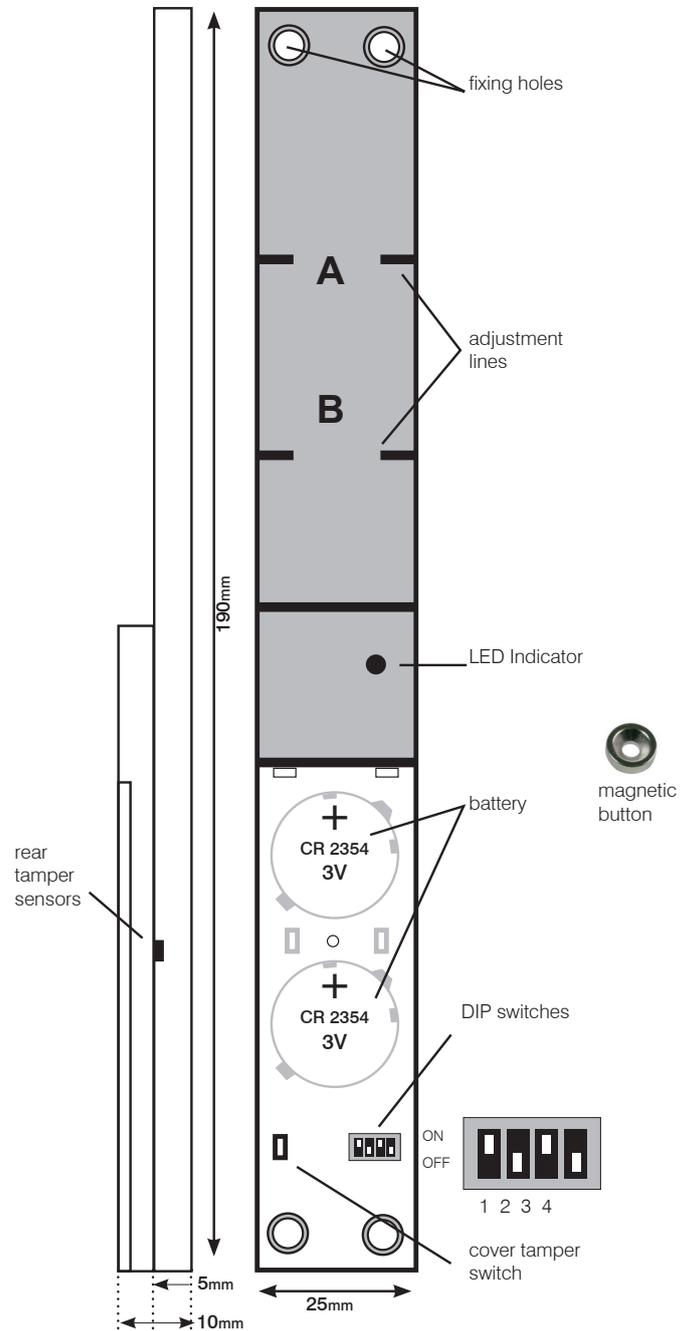
The detector reacts to the removal of the magnetic button. The electronics should be installed onto the non-moving part of windows or doors, and the magnet onto the moving part.

The magnetic button should be installed into the window / door between the moving and non moving parts, where the closing mechanism is located. Prior to installation ensure that the detector fits the given window/door type. In the case of a wooden frame with too narrow a profile it is usually possible to mill out a groove for detector insertion.

### Installation

1. Find a suitable part of the window / door frame for the detector's location (within the frame rebate) so that the magnet can be aligned with the A (or B) adjustment line when the window/door is closed. After opening the window/door, the magnet's distance from the detector should increase by at least 2 cm.
2. Avoid locating the detector directly onto a metal frame as metal impairs the functioning of the magnetic sensor and radio communication. Avoid installing the detector onto the bottom part of the window/door frame due to possible water condensation.
3. Screw the magnet onto the moving part of the door / window. Use a non-metallic back-plate if the frame groove is too wide.
4. Unscrew the battery cover and screw the detector to the frame, so that the magnet is aligned with the A (or B) adjustment line when the window / door is closed. Be careful not to over tighten the screws as the detectors plastic body could be damaged.
5. Plastic plates are supplied for use with uneven surfaces. After the detector has been installed, at least one of the rear tamper sensors must be permanently closed (pressed).
6. Test the device, to ensure the device does not obstruct closing of the window or door.
7. Programming of the detector to switching receiver see overleaf.

### The Components



### DIP Switches

There are four DIP switches located under the battery cover:

No.	OFF	ON
1	Rear tamper sensors OFF	<b>Rear tamper sensors ON</b>
2	<b>Permanent window/door status signalling</b>	Only window/door opening will be signalled
3	No function	<b>The reciever will respond without a delay</b>
4	No function	No function

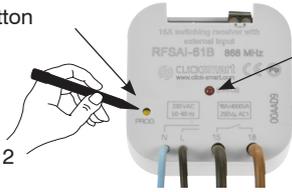
Default settings are shown in bold

## Pairing The Detector:

### Step 1 - Activate The Receiver

Press & hold the 'programming' button on the receiver for 2 seconds (the status LED will flash with a 1 second interval).

Programming button



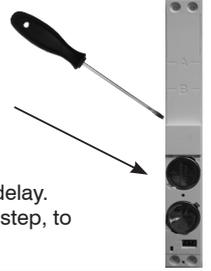
Status LED  
Will flash once per second

Press and hold 2 seconds

### Step 2 - Assign The Device

Remove cover to reveal battery compartment

Insert the batteries, replace the cover, after ten seconds close and open the door / window, the receiver LED will flash at an increased speed once to confirm detector assignment.



The device will now switch on / off without any delay. To programme an off delay proceed to the next step, to exit programming proceed to step 4.

### Step 3 - To Prepare For Function 5

Switching Actuator Function 5 - 'OFF DELAY'



Remove batteries - wait 30 seconds  
Re-insert batteries to set time delay mode  
Remove for another 30 seconds  
Press button on receiver for < 5 seconds to start counter  
When required time elapsed re-insert batteries

### Step 4 - Save And Exit

To exit programming mode press the programme button for 1 second only.

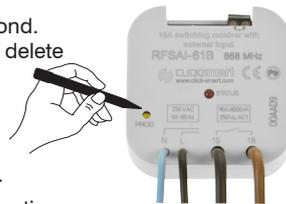
Replace the battery cover.

Press and hold for 1 second



### Select A or B To Delete Stored Function

A. Press and hold programme button for 5 seconds the LED will flash twice a second. Remove and re-install batteries - this will delete the single pairing.



B. Press and hold programme button for 8 seconds - this will delete ALL stored functions. Release programming button and then press for < 1 second to exit

## Battery Replacement

Always replace both battery cells at the same time.  
We recommend using a high quality brand name battery (e.g. Panasonic).

After the batteries have been replaced, detector function should be tested.

Expired batteries should be disposed of according to local regulations.

## Technical Specifications

Battery Type:	CR2354 Lithium
Voltage:	3.0V DC
Typical battery life:	Approx. 3 years (for 5 daily activations)
Communication band:	868 MHz
Communication range:	Approx. 200m (open area)
Operational environment according to EN 50131-1	II.indoor general
Operational temperature range:	-10 to +40 °C
Dimensions:	85 x 60 x 55 mm
EN 50131-1, CLC/TS 50131-2-2, EN 50131-5-3 classification:	Grade 2
Complies with:	ETSI EN 300220, EN 50130-4, EN 55022, EN 60950-1
Can be operated according to:	VO-R/10/05.2006-22