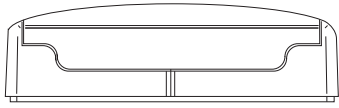# SmartCell

Contact Transmitter and Input Device for Information Zones*
Installation Guide
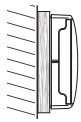
NOT FOR FIRE OR SECURITY APPLICATIONS

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1 Pre installation

■ Installation must conform to applicable local installation codes and should only be installed by a fully trained competent person.

■ The use of a non-metallic spacer should be considered if mounting the device on to a metal surface.
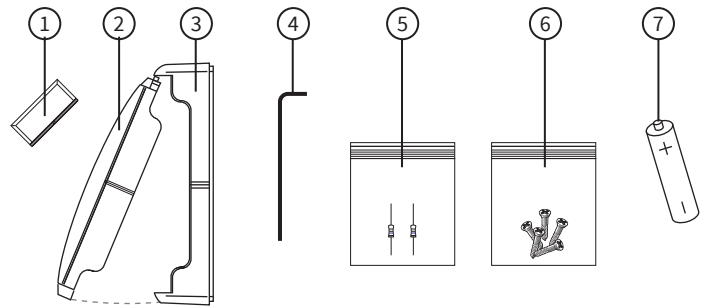
■ This device contains PCBs that are susceptible to damage from Electrostatic Discharge (ESD). The PCBs contain no serviceable parts and therefore must not be removed.

■ To ensure correct operation, products must be used within the specified environmental operating conditions.

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2 Components

① Magnet holder assembly ② Lid ③ Device back box ④ Allen key

⑤ Resistor pack ⑥ 5x fixing screws ⑦ Battery *(not included in some regions*)*

*When batteries are not supplied, only fit specified batteries.

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3 Unlocking the device

■ If locked, turn the Allen key **CLOCKWISE** to release the locking mechanism.

■ Once unlocked, carefully unclip the two sections from one another.

1. **2.** **3.**

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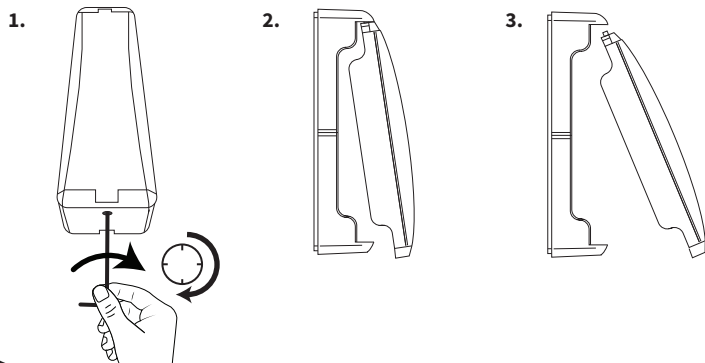
4 Prepare the back box

■ There are two available cable entry points shown below.

■ Remove the thin sections of plastic as required.

Entry point 1 **Entry point 2**
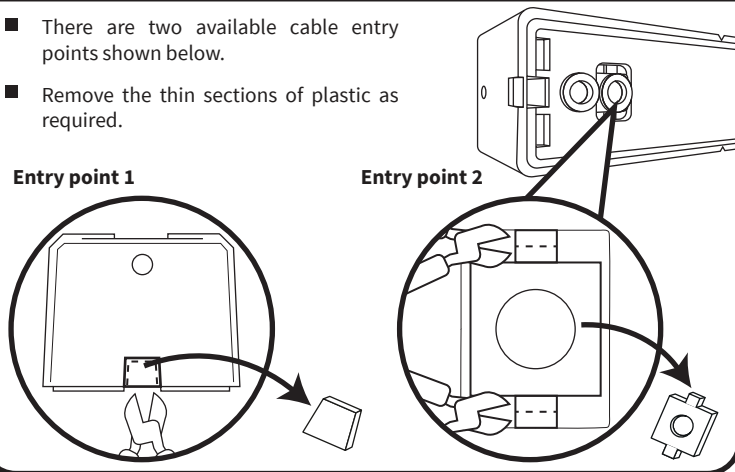
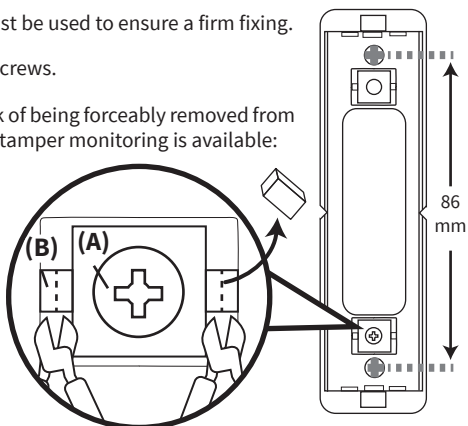
5 Fix back box

■ Both fixing positions must be used to ensure a firm fixing.

■ Use the supplied fixing screws.

⚠ If the device is at risk of being forceably removed from the wall, additional tamper monitoring is available:
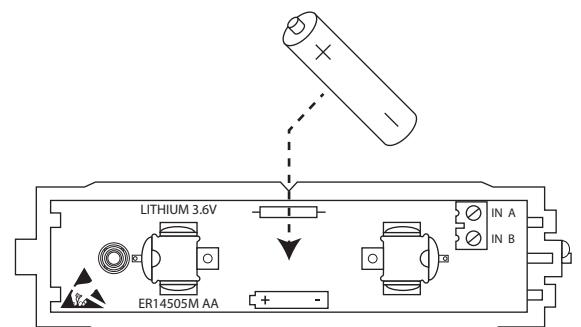
A) Screw the tamper segment to the wall, using a supplied fixing screw.

B) Remove the two thin sections of plastic, as shown.
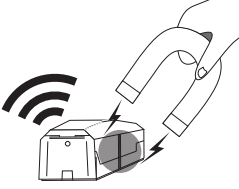
(B) (A)

86 mm

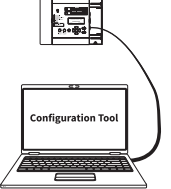---

6 Fit battery

■ When fitting / replacing batteries, observe correct polarity, using only specified batteries.

LITHIUM 3.6V

ER14505M AA

IN A
IN B

TSD123-0001-99 (Issue 1) 07/07/2020 AJM
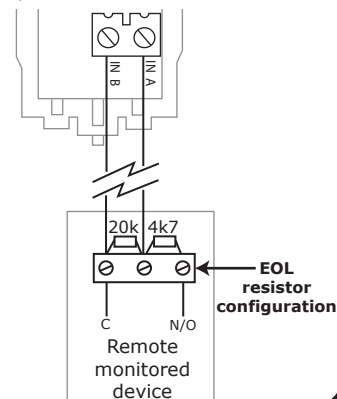
7 Configuration

The device must now be added (programmed) to the control panel.

Method 1
Device powering

Method 2
Magnet application

Method 3
Via computer

Configuration Tool

SmartCell

Refer to the programming manual (TSD155) for full programming details.

8 Input configuration, option 1

The device provides two options for input activation. See the programming manual for full details. Option 1, hardwired input, functions as follows:

- The input monitors; normal, alarm, open circuit and closed circuit conditions.

- The input is factory fitted with an end of line 20 kΩ resistor.

- To connect the input to an external device; wire as shown, using the resistor pack provided.

- If the input is not being used, leave the 20 kΩ resistor as factory fitted.

IN B IN A

20k 4k7

← EOL resistor configuration

C   N/O

Remote monitored device

9 Input configuration, option 2

- Alternative magnetic contact application.

- Ensure that the magnet is positioned in line with the magnet reed switch location marking, as shown.

- Carefully remove the magnet's outer case and the magnet itself.

- Fix the magnet's mounting base with two of the supplied screws.

- Re-assemble the magnet.

Magnet reed switch location marking
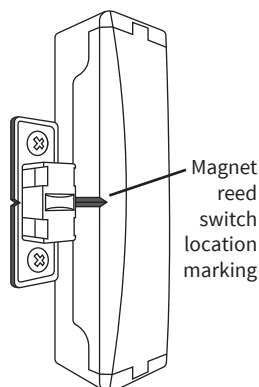
10 LED operation

The device has a status LED that illuminates through the casework, as shown.

LED location
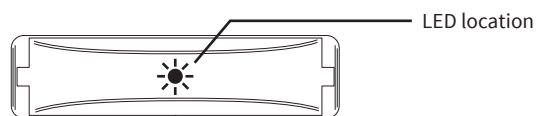
The status LED can be used to check the operation of both of the device's inputs *(hardwired and magnetic)*. Details are shown below:
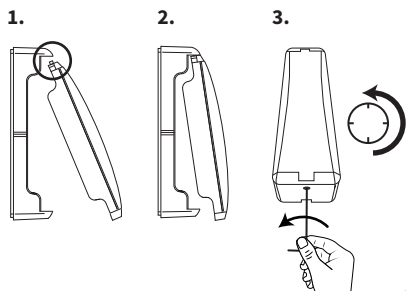
Input activate: RED LED flashes *(for up to 15 seconds)*

Input clear: GREEN LED flashes *(for up to 15 seconds)*

Note: the device status LED is multi functional. See programming manual (TSD155) for full details of operation.

11 Completing the installation

- Reassemble the device, observing the hinged connection as shown.

- Lock the device, by turning the Allen Key **ANTI-CLOCKWISE**, until the screw is flush with the casework

1.   2.   3.

Important notes

If the device's input *(i.e. magnetic input)* changes states quickly, or multiple times in quick succession, it is possible that some LED indications may not be shown.

Specification

Operating temperature	-10 to +55 °C
Storage temperature	
With batteries	-10 to +30 °C
Without batteries	-10 to +55 °C
Humidity	0 to 95% noncondensing
Location	Type A: for indoor use
Supply	1 x ER14505M 3.6 V lithium thionyl chloride battery (Fanso or Titus)

CAUTION!

- Only use manufacturer approved battery types. Failure to do so may result in damage to the product.

Operating voltage	2.7 to 3.65 VDC ---
Operating frequency	868 MHz
Output transmitter power	14 dBm / 25 mW
Signalling protocol	X5
Dimensions (W x H x D)	30 x 110 x 28 mm

Regulatory information

Manufacturer	EMS Ltd. Technology House, Herne Bay, Kent, CT6 8JZ. United Kingdom
Year of manufacture	See devices serial number label CE 19
Approved to	EN54-13:2005. Fire detection and fire alarm systems. Part 13: compatibility assessment of system components.
European Union directives	EMS declares that the radio equipment type SmartCell Contact Transmitter and Input Device is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.smartcell.co.uk
	2012/19/EC (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see www.recyclethis.info Dispose of your batteries in an environmentally friendly manner according to your local regulations.