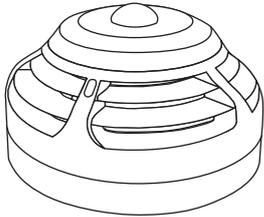


# SmartCell

## Dual Smoke / Heat Detector and Combined Sounder Beacon

### Installation Guide



#### Part number

SC-23-0210-0001-99

#### Product description

Dual Smoke / Heat Detector and Combined Sounder-Beacon (VAD RED Flash)

SC-23-0220-0001-99

Dual Smoke / Heat Detector and Combined Sounder-Beacon (VAD WHITE Flash)

## 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.

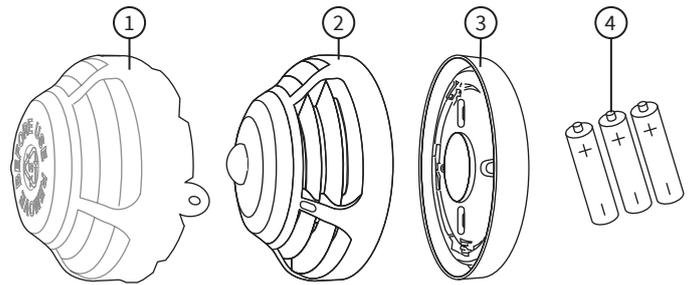


This device contains electronics that may be susceptible to damage from Electrostatic Discharge (ESD). Take appropriate precautions when handling electronic boards.



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

## 2 Components

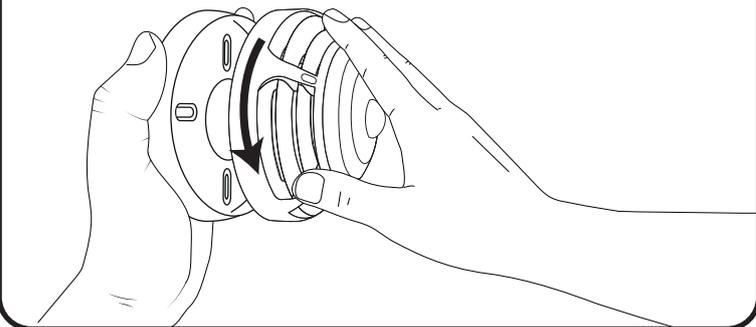


- ① Dust cover    ② Dual smoke / heat detector and combined sounder beacon  
 ③ Mounting plate    ④ Batteries (*not included in some regions*)

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

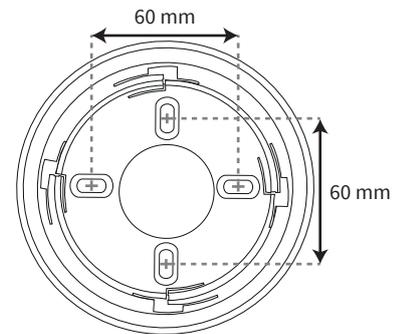
## 3 Remove mounting plate

- Remove the mounting plate by turning the device **ANTICLOCKWISE**, to release it from the mounting plate.



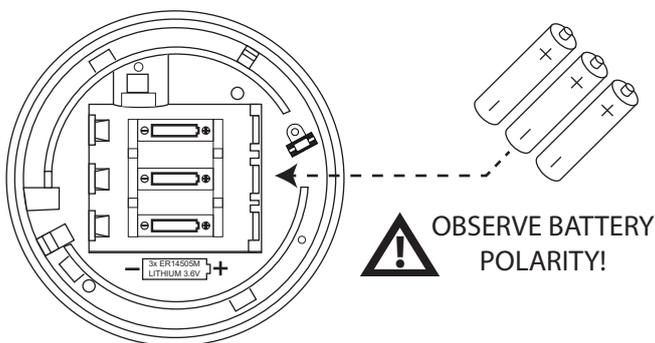
## 4 Fix mounting plate

- When fixing to the ceiling, all four fixing positions should be used to ensure a firm fixing.
- Where existing electrical mounting boxes are present, two fixing positions may be used.
- Use suitable fasteners and fixings.



## 5 Fit batteries

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



**! OBSERVE BATTERY POLARITY!**

## 6 Configuration

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

#### Method 1 Device powering

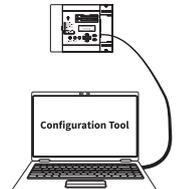


Refer to the programming manual for full programming details.

#### Method 2 Magnet application



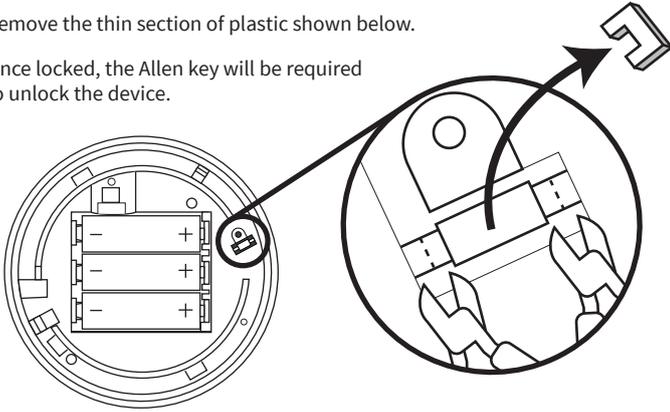
#### Method 3 Via computer



SmartCell panel = TSD155  
 SmartCell WZM = MK067

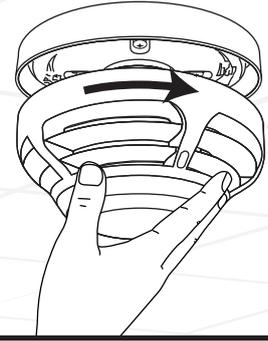
## 7 Optional device locking

- The device includes an optional locking mechanism.
- Remove the thin section of plastic shown below.
- Once locked, the Allen key will be required to unlock the device.



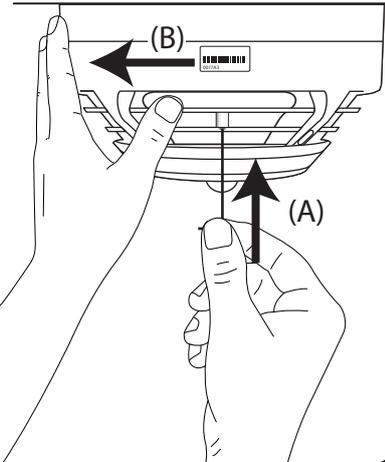
## 8 Completing the installation

- Reassemble the device as shown below.



## Device unlocking

- If the device has been locked, an Allen key will be required for unlocking.
- Depress the locking mechanism, by inserting the Allen key, or similar, into the device's cavity and pushing (A).
- Simultaneously twist the device anti-clockwise to release (B).



## ⚠ IMPORTANT

- Remove dust cover before use.
- The device should be tested upon installation and in accordance with local requirements.
- Testing should only be carried out by a fully trained competent person.
- The manufacturer recommends regular functional testing in accordance with local codes of practice.
- Cleaning and repairs must be undertaken by the manufacturer's authorised representative.
- Do not open the case to clean inside the detector.

## 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 / IP rating	Type A: for indoor use / IP33
Supply	3 x ER14505M 3.6 V lithium thionyl chloride batteries (Fanso or Titus)

### CAUTION!

- This is a life safety product. Only use manufacturer approved battery types. Failure to do so may result in damage to the product.
- DO NOT mix batteries of different type or age.
- When replacing batteries; remove all old batteries before fitting replacements.

Operating voltage	2.7 to 3.65 VDC ---
Current consumption	0.32 A max.
Power consumption	0.8 W max.
Operating frequency	868 MHz
Output transmitter power	14 dBm / 25 mW
Signalling protocol	X5
Detector sensitivity and responsivity settings	Smoke: Normal*†, Normal+AVF, Heat: 58°C static (A2S)*†, 58c rate of rise (A2R)*, 72°C static (BS)* & 72°C rate of rise (BR)*
* EN54 approved sensitivities † Default dual sensitivities	
Sounder output	93 dB(A) at 1m max. For full sounder output information, refer to the Sounder Data doc (MK103).
Beacon coverage	C-3-12 (WHITE flash) / C-3-9.5 (RED flash)
Beacon flash rate	0.5 Hz (1 flash, every 2 seconds)
Dimensions (Ø x D)	110 x 61 mm

## Regulatory information

Manufacturer	Carrier Manufacturing Polska Sp. Z o.o. Ul. Kolejowa 24. 39-100 Ropczyce, Poland
Year of manufacture	See devices serial number label
Certification	<b>CE 19</b>
Certification body	<b>0905</b>
CPR DoP	0359-CPR-00268
Approved to	EN54-3:2001. Incorporating amendments nos. 1 and 2. Fire detection and fire alarm systems. Part 3: fire alarm devices - sounders. EN54-5:2001. Incorporating amendment no. 1. Fire detection and fire alarm systems. Part 5: heat detectors - point detectors. EN54-7:2001. Incorporating amendment no. 1. Fire detection and fire alarm systems. Part 7: smoke detectors - point detectors using scattered light, transmitted light or ionization. EN54-13:2005. Fire detection and fire alarm systems. Part 13: compatibility assessment of system components. EN54-23:2010. Fire detection and fire alarm systems. Part 23: fire alarm devices. Visual alarm devices. EN54-25:2008. Incorporating corrigenda September 2010 and march 2012. Fire detection and fire alarm systems. Part 25: components using radio links.
European Union directives	EMS declares that the radio equipment type SmartCell Dual Detector With Combined Sounder Beacon is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: <a href="http://www.mysmartcell.com">www.mysmartcell.com</a>



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](http://www.recyclethis.info)  
Dispose of your batteries in an environmentally friendly manner according to your local regulations.