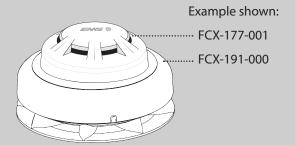


# Combined Sounder/Detector/Visual Indicator

**Installation Guide** 



Part no	Description	CPR
FCX-174-001	Multisensor Smoke Detector Only	[1]
FCX-175-001	Heat A1R Detector Only	[2]
FCX-176-001	Heat CS Detector Only	[2]
FCX-177-001	Optical Smoke Detector Only	[3]
FCX-191-000	Sounder/Detector Base Only	[4]
FCX-191-200	Sounder/Detector/Red Visual Indicator Base Only	[4]

See the Specification section for compliance information.

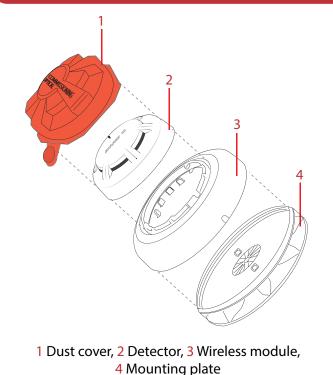
### 1 Pre installation



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

- Ensure that the device is installed as per the site survey.
- The use of a non-metallic spacer should be considered if mounting the device on to a metal surface.
- Do NOT press the log on button on a pre-programmed device, as this will cause communication with the control panel to be lost. Should this happen, delete the device from the system and add it back on.
- This device contains electronics that may be susceptible to damage from Electrostatic Discharge (ESD). Take appropriate precautions when handling electronic boards.
- For pre-2024 versions of this device with a 4-way power/sounder configuration switch, refer to the legacy version of this manual.

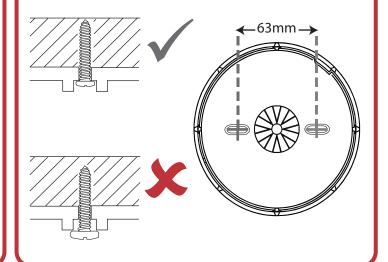
# 2 Components



# 3 Fix mounting plate

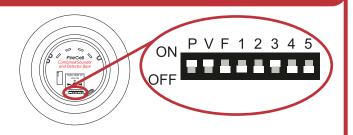
Remove the mounting plate by turning the device ANTICLOCKWISE, to release it from the mounting plate.

- Use both fixing positions to ensure a firm fixing.
- Use suitable fasteners and fixings.



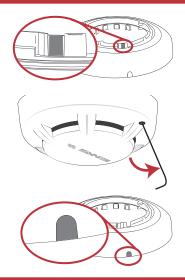
#### **4 Power device**

- When fitting / replacing batteries; observe correct polarity, using only specified batteries.
- Set the P (POWER) switch to the ON position to power the device. See the 'Switches' section for other available switch settings.
- Once powered, reassemble the device.



## **5 Device locking**

- To lock the detector into the wireless module, remove the cut out (shaded) section as shown.
- To unlock the detector, insert a 1.5 mm allen key and lever the allen key towards the outside of the device and turn the detector anticlockwise to release.
- The wireless module can also be locked into the mounting plate by removing the shaded section shown and fitting a 5/16 Phillips pan head screw.



# 6 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 of at least once per annum or in accordance with local codes of practice.
- Cleaning and repairs must be undertaken by the manufacturers authorised representative.
- Do not open the case to clean inside the detector.
- When activated, the device will sound for a maximum of 30 minutes before switching off to conserve battery life.

# 7 Configuration

This device is intended to form part of a wireless fire alarm system. The device's loop address is configured within the user interface's menu structure.

Refer to the programming manual for full programming details.

FireCell = MK98 Fusion = TSD062 WZM = TSD143

Free to download from www.emsgroup.co.uk



### 8 Switches

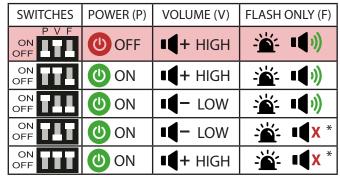
#### Device power/volume/flash only (set on wireless module)

The PVF switches control the device's power supply, adjust the sounder volume and, if necessary, initiate flash only mode (sounder off).



= Default setting.

<sup>\*</sup> Flash only mode is applicable to the FCX-191-200 model only. If selected, this is not within the scope of EN54-3.



#### Sounder tone (set on wireless module)

Switches 1 to 5 select the sounder tone.



Note: Tones 1, 2, 3, 5, 6, 7, 10, 13, 21 are EN54-3 approved tones. Secondary tones and low volume settings are not approved.

	= Default	setting.
S۱	WITCHES	PRIMAI

SWITCHES	PRIMARY TONE	TONE TYPE	TONE DESCRIPTION / APPLICATION	SECONDARY TONE
1 2 3 4 5 ON OFF	1		970Hz	18
ON OFF	2		800Hz/970Hz at 2Hz	1
ON OFF	3	1111	800Hz - 970Hz at 1Hz	1
ON OFF	4		970Hz 1s OFF / 1s ON	1
ON OFF	5		970Hz, 0.5s / 630Hz, 0.5s	4
ON OFF	6		554Hz, 0.1s / 440Hz, 0.4s (AFNOR NF S 32 001)	1
ON OFF	7	111	500 - 1200Hz, 3.5s / 0.5s OFF (NEN 2575:2000)	1
ON OFF	8		420Hz 0.625s ON / 0.625s OFF (Australia AS1670 Alert tone)	9
ON OFF	9	111	500 - 1200Hz, 0.5s / 0.5s OFF x 3 / 1.5s OFF ( <i>AS1670 Evacuation</i> )	1
ON OFF	10		550Hz / 440Hz at 0.5Hz	19
ON OFF	11		970Hz, 0.5 ON / 0.5s OFF x 3 / 1.5s OFF (ISO 8201)	1
ON OFF	12		2850Hz, 0.5s ON / 0.5s OFF x 3 / 1.5s OFF (ISO 8201)	1
ON OFF	13	777	1200Hz - 500Hz at 1Hz (DIN 33 404)	1
ON OFF	14		400Hz	18
ON OFF	15		550Hz, 0.7s / 1000Hz, 0.33s	1
ON OFF	16	1111	1500Hz - 2700Hz at 3Hz	1
ON OFF	17		750Hz	1
ON OFF	18		2400Hz	1
ON OFF	19		660Hz	18
ON OFF	20		660Hz 1.8s ON / 1.8s OFF	19
ON OFF	21		660Hz 0.15s ON / 0.15s OFF	19
ON OFF	22		510Hz, 0.25s / 610Hz, 0.25s	1
ON OFF	23		800 / 100Hz 0.5s each (1Hz)	1
ON OFF	24	1111	250Hz - 1200Hz at 12Hz	1
ON OFF	25	^	500Hz - 1200Hz at 0.33Hz	1
ON OFF	26	1111	2400Hz - 2900Hz at 9Hz	18
ON OFF	27	1111	2400Hz - 2900Hz at 3Hz	18
ON OFF	28	1111	800Hz - 970Hz at 100Hz	8
ON OFF	29	1111	800Hz - 970Hz at 9Hz	1
ON OFF	30	1111	800Hz - 970Hz at 3Hz	1
ON OFF	31		800Hz, 0.25s ON / 1s OFF	1
ON OFF	32	111	500Hz - 1200Hz, 3.75s / 0.25s OFF (AS2220)	8

### Specification

**Operating temperature** -10 to +55 °C 5 to 30 °C Storage temperature

0 to 95% non-condensing Humidity

3 x AA alkaline (Panasonic LR6AD Powerline / Varta 4006 Industrial) & 3 x C alkaline (Panasonic LR14AD Powerline / Varta 4014 Industrial) Supply

CAUTION!

Fitting of an incorrect battery type invalidates the product certification and may result in poor performance.

IP21 IP rating

**Operating voltage** 3.3 to 4.5 VDC

**Current consumption** 120 µA

**Battery life** Up to 5 years (based on weekly 30 second test)

**Operating frequency** 868 MHz

**Output transmitter power** Auto adjusting 0 to 14 dBm (0 to 25 mW)

Signalling protocol

Up to 99.5 dB(A) at 1 m (as dispatched). Low setting typically reduces volume by 10 dB. **Sounder output** 

Refer to the sounder data document (MK187) for full details. Free to download from www.emsgroup.co.uk

Dimensions (Ø x D)

146 x 53 mm (without detector) | 146 x 89 mm (with smoke detector) | 146 x 94 mm (with heat detector) | 146 x 100 mm (with multisensor detector)

Weight 0.70 kg (with detector) Location Type A: For indoor use

Intended use Fire safety for fire detection and fire alarm systems with components using RF links.

### **Regulatory information**

**Manufacturing location** KGS Manufacturing Poland Sp. z o.o. Ul. Kolejowa 24. 39-100 Ropczyce, Poland

Placed on the market by EMS Ltd. Technology House, Sea Street, Herne Bay, Kent, CT6 8JZ

Year of manufacture See devices serial number label

Certification

0905 [2][3] 2821 [4] **0359** [1][2][3]

CPR DoP

See part listing for associated products: [1]0905-CPR-202126, [2]0359-CPR-0015, [3]0359-CPR-0017 & [4]DoP0012

Approved to See part listing for associated products:

EN54-5:2017+A1:2018. Incorporating Amendment No. 1. Fire detection and fire alarm

systems. Part 5: Heat detectors - Point Detectors. [2]

EN54-7:2018. Incorporating Amendment No. 1. Fire detection and fire alarm systems. Part 7: Smoke detectors - Point detectors using scattered light, transmitted light or

ionization. [1][3]

EN54-25:2008. Incorporating corrigenda September 2010 and March 2012. Fire detection and fire alarm systems. Part 25: Components using radio links. [4]

**European Union Directives** EMS declares that this 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.emsgroup.co.uk

2012/19/EU (WEEE directive). For more information see www.recyclethis.info Dispose of your batteries in an environmentally friendly manner according to your local

regulations.

ULeu Certified to EN 54-3:2014+A1:2019. This is an accredited certification scheme run Additional approvals by UL Solutions and is in addition to EU regulatory requirements [4]





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**BOSEC**