

# Sounder Red + Base Wireless XPA-CB- 14003-APO

Instruction Sheet  
R10028GB0



## **Schneider Electric Fire & Security Oy**

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# 1 **Addressable Wireless XPA System Products overview**

**If wiring is a challenge in the building then XP wireless products are your solutions.**

XPA is a system in which individual detectors and other wireless devices communicate with the FX ALC loop by radio signals. An interface is connected to the ALC loop in the same way as any addressable interface.

Every wireless XPA device is assigned an address and this address is recognized by the Esmi Sense FDP panel.

# 2 **Sounder Red + Base Sounder Wireless XPA-CB- 14003-APO overview**

The Wireless XPA-CB-14003-APO sounders can be wall or ceiling mounted and use a bi-directional monitored radio platform to communicate. They feature 32 selectable tones and a self-test which causes a fault signal to be sent if the sounders fail to operate. The self-test feature is activated by a DIL Switch. Individual parts may be ordered separately

A Radio Interface is connected to the loop. It communicates with the control panel using the addressable two-wire power and communications system. The interface communicates with the detection and alarm signaling devices by means of radio waves.

The detectors are multistate in that they report normal, pre-alarm, fire or fault states to the radio base which transmits the information to the interface. The detectors incorporate drift compensation and report any compensation limit occurring.

The radio bases and signaling devices are addressable and use a pre-set analogue value to report via the Schneider protocol. Apart from normal and fire the bases can send pre-set analogue values to indicate low battery, detector contaminated, detector tamper and low signal strength fault conditions

The address of a sound or a sounder/visual indicator is set at the commissioning stage by means of an XPERT card.

## 2.1 Electrical Description

The sounders and sounder/visual indicators are powered by two packs of batteries, one with three “AA” and one with three “C” size alkaline batteries which provide a working life of typically 3-5 years.

The three-year life includes weekly tests and a half-hour sounding in a fire condition. The Sounder Visual Indicators incorporate audio and visual signaling within one unit. Sound output: 100dB(A)

## 2.2 Installation and maintenance guidelines

**Note!** Before installing make a site survey with Wireless Diversity Survival kit to ensure that wireless devices are compatible in the premises.

**Note!** When replacing batteries, allow the device to power down for a period of two minutes before installing replacements.

**Note!** When replacement batteries are required, all batteries must be replaced together.

**Note!** Disposing of batteries should be in accordance with European and/or local regulations.

Detectors should be checked regularly at the intervals indicated by the locally applicable code of practice. We recommend that the detectors be checked at least once a year. If detectors appear not to be functioning correctly they should be returned to Schneider Electric for testing. If detectors are externally dirty they can be cleaned carefully with a damp cloth using a small amount of industrial alcohol.

## 2.3 Sounder Tone Settings

Tone	Tone type	Tone description/ap plication	2nd stage tone	DIP switch 1_2_3_4_5	Sound level (dBA@1m)
1	970Hz (BS5839-1:2002)	4		0-0-0-0-0	97
2	800Hz/970Hz @ 2Hz (BS5839-1:2002)	1		0-0-0-0-1	97
3	800Hz - 970Hz @ 2Hz (BS5839-1:2002)	1		0-0-0-1-0	98
4	970Hz 1s OFF/1s ON Apollo Fire Systems Alert Tone, (BS5839-1:2002)	1		0-0-0-1-1	96
5	970Hz 0,5s/630Hz 0,5s Apollo Fire Systems Alert Tone, (BS5839-1:2002)	4		0-0-1-0-0	97
6	544Hz 0,1s/440Hz 0,4s (France – AFNOR NF S 32 001)	1		0-0-1-0-1	96
7	500 – 1200Hz 3,5s/o,5s OFF (Netherlands – NEN 2575:200)	1		0-0-1-1-0	99
8	420Hz 0,625s ON/0,625s OFF (Australian AS2220 Alert tone)	9		0-0-1-1-1	93
9	500 – 1200 Hz 3,75s/0,25s OFF (Australian AS2220 Evacuation tone)	8		0-1-0-0-0	99

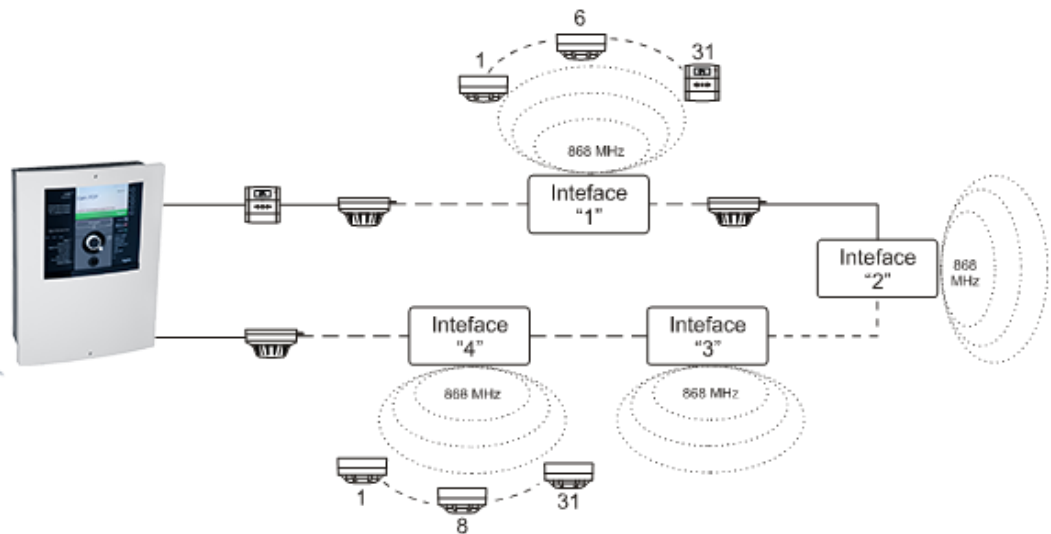
10	550Hz/440Hz @ 0,5 Hz	1	0-1-0-0-1	99
11	970Hz 0,5s ON/0,5s OFF x 3/1,5s OFF (ISO 8201 Low tone)	12	0-1-0-1-0	97
12	2850Hz 0,5s ON/0,5s OFF x 3/1,5s OFF (ISO 8201 High tone)	11	0-1-0-1-1	93
13	1200Hz – 500Hz @ 1Hz (DIN 33 404)	1	0-1-1-0-0	97
14	400Hz	6	0-1-1-0-1	92
15	550Hz 0,7s/1000Hz 0.33s ("SafeSound")	1	0-1-1-1-0	99
16	1500Hz – 2700Hz @ 3Hz (Vandal Alarm)	1	0-1-1-1-1	105
17	750Hz	27	1-0-0-0-0	98
18	2400Hz	26	1-0-0-0-1	106
19	750Hz 0,33Hz ON/0,51s OFF	1	1-0-0-1-0	98
20	750Hz 0,33Hz ON/0,33s OFF	1	1-0-0-1-1	98
21	750Hz 0,33Hz ON/0,2s OFF	1	1-0-1-0-0	97
22	510Hz 0,5s/610Hz 0,5Hz	4	1-0-1-0-1	95
23	550Hz 0,33Hz/1000Hz 0,7Hz	1	1-0-1-1-0	99
24	250Hz – 1200Hz @ 12Hz	18	1-0-1-1-1	94
25	500Hz – 1200Hz @ 0.33Hz	18	1-1-0-0-0	99
26	2500Hz – 2850Hz @ 7Hz	18	1-1-0-0-1	98
27	600Hz – 900Hz/0,9s	1	1-1-0-1-0	97
28	660Hz – 680Hz/0,9s	1	1-1-0-1-1	95
29	670Hz – 725Hz/0,9s	1	1-1-1-0-0	96
30	920Hz – 750Hz/0,9s	1	1-1-1-0-1	98
31	700Hz – 900Hz 0,3s/0,6s OFF	1	1-1-1-1-0	97
32	900Hz – 760Hz 0,6s/0,3s OFF	1	1-1-1-1-1	98

The tone pattern of the sounder is selected using of the 5-way DIL switch on the bottom of the sounder. The factory default setting is tone 5.

The audible self test is enabled by positioning both switches of the 2-way DIL switch on the sounder base to the direction of the arrow on the label.

The sound output of the unit can also be reduced by adjusting the potentiometer located on the bottom of the sounder head.

## 2.4 System Principle



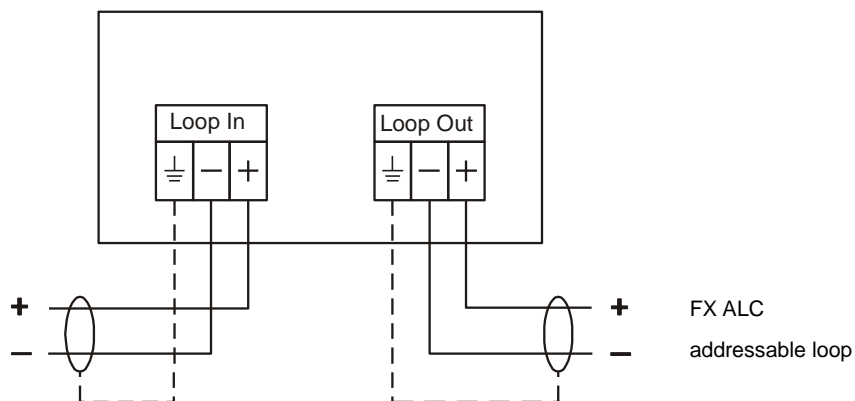
**Note!** The maximum number of interfaces in a site is 5. If more than 5 interfaces are needed, please contact the supplier.

**Note!** The interface takes one address in the ALC loop.

**Note!** The maximum number of addressable radio devices per interface is 31.

**Note!** A good system planning is absolutely necessary to ensure a reliable wireless communication. The field strength must be checked with the survey tool.

## 2.5 Schematic Diagram & Wiring Connections





## 2.6 XPA products and Spare parts

Product	Product Code
<b>Sounder Beacon Red + Base Wireless XPA-CB-14003-APO</b>	FFS0672 6009

Interface: FFS06726036

Survival kit: FFS06726037

Product	Product Code
<b>Interface Module 15 device</b>	FFS0672 6001
<b>Interface Module 31 device</b>	FFS0672 6023
<b>I/O unit single input/output</b>	FFS0672 6024
<b>I/O unit dual input/output</b>	FFS0672 6025
<b>Optical Detector with Base</b>	FFS0672 6002
<b>A1R Heat Detector with Base</b>	FFS0672 6004
<b>CS Heat Detector with Base</b>	FFS0672 6005
<b>Sounder with Base, red</b>	FFS0672 6007
<b>Manual Call Point</b>	FFS0672 6006
<b>Survey Tool</b>	FFS0672 6012

Product	Product Code
<b>Mounting Base</b>	FFS0672 6013
<b>Optical Detector Head</b>	FFS0672 6014
<b>A1R Heat Detector Head</b>	FFS0672 6016
<b>CS Heat Detector Head</b>	FFS0672 6017
<b>Red XPert Card</b>	FFS0672 6018
<b>White XPert Card</b>	FFS0672 6022
<b>Sounder Base, red</b>	FFS0672 6019
<b>Sounder, red</b>	FFS0672 6020
<b>Sounder Beacon, red</b>	FFS0672 6021
<b>Vertically mounted aerial</b>	FFS0672 6025
<b>Directional yagi aerial</b>	FFS0672 6027