

# Technical manual, Connection & installation **SOUND05**

## SUMARY

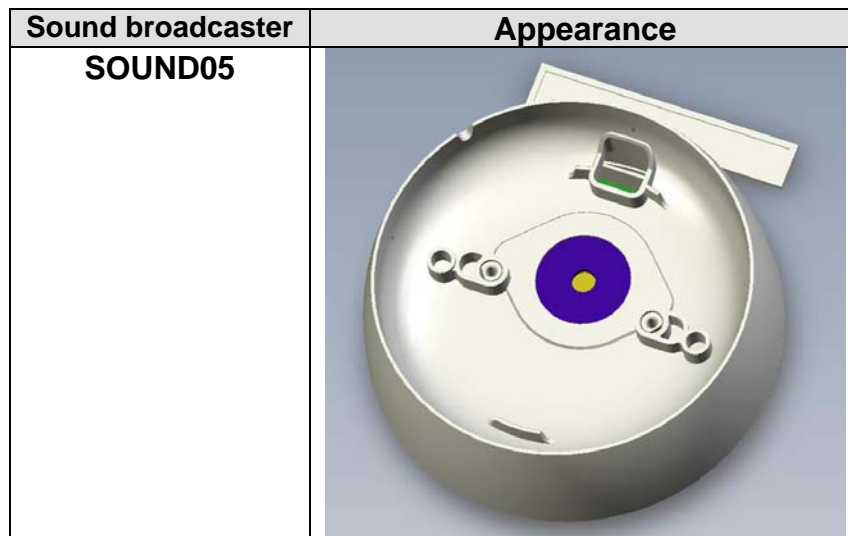
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## A. LIST OF PLANS

NUMBER	INDEX	MOD	DESIGNATION
FA627R	A		SOUND05 connection diagram

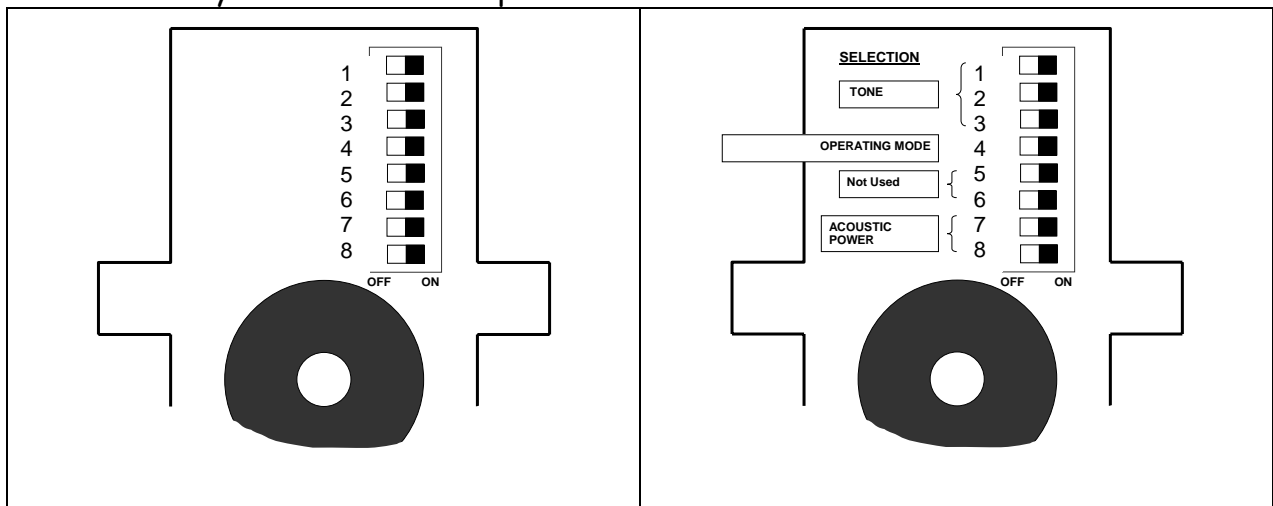
## B. GENERALITIES.

### B.1. GENERAL FEATURES



### B.2. SOUNDER BASE CONFIGURATION

Configuration made by the switches on the electronic board; accessible only with the device open..



### B.3. OPERATING MODE SELECTION

SOUND05 base sounder has 2 operating modes:

SWITCH N°4	OPERATING MODE
ON	Evacuation line mode: triggered by 24V line
OFF	Accessory: triggered by the detector.

**Evacuation mode line:** Use of the device powered and activated by an external dedicated 24V line only in evacuation case.

**Mode accessory :** Use of the device powered by the detection line and activated by an external command. It works as a remote sounder indicator and is triggered by the output of the detector.

### B.4. ACOUSTIC POWER SELECTION.

The acoustic power can be configured from the switches n°7 and n°8:

SWITCH CONFIGURATION		ACOUSTIC POWER
N° 7	N° 8	
OFF	OFF	LOW
OFF	ON	MEDIUM
ON	ON	HIGH

### B.5. TONE SELECTION

Table for the six different tones

TONES		DESCRIPTION	SWITCH CONFIGURATION		
N°	Name		N° 1	N° 2	N° 3
1	Alternating tones 800/970Hz at 2Hz	BS5839 Part1 1988	OFF	OFF	OFF
2	Sweeping 800/970Hz at 7Hz	Fast sweep (LF) BS5839 Part1 1988	ON	OFF	OFF
3	Sweep 1200-500Hz at 1Hz	Din tone (*BMA/STE)	OFF	ON	OFF
4	Continuous à 970Hz	BS5839 Part1 1988	ON	ON	OFF
5	Intermittent 660Hz 6,5s ON /13s OFF	Swedish Alarm Tone	OFF	OFF	ON
6	Continuous at 4KHz	Pour AGS_LCD	ON	OFF	ON

## C. TECHNICAL CHARACTERISTICS.

### C.1. ELECTRICAL CHARACTERISTICS.

Characteristic	SOUND05
Supply voltage	<ul style="list-style-type: none"> <li>• Extreme : 16 Vdc to 28 Vdc</li> <li>• Nominal : 24 Vdc</li> </ul>
Standby consumption	<ul style="list-style-type: none"> <li>• &lt; 150µA under 24 Vdc</li> </ul>
Operating consumption	<ul style="list-style-type: none"> <li>• 4 mA under 24 Vdc for a power at least equal to 70 dB(a)</li> </ul> See details on the table below:

### C.2. ACOUSTIC CHARACTERISTICS.

TONES			ACOUSTIC POWER			
N°	NAME	CHARACTERISTICS	LOW	MEDIUM	HIGH	
1	Alternating tones 800/970Hz at 2Hz	Mean consumption (mA)	16 Vdc	1.70	NC	4.00
			24 Vdc	2.50	4.70	5.80
			28 Vdc	2.90	NC	6.40
		Acoustic power (dB(a)) (NOTE 1)	Min.	73.50	77.10	80.80
Max.	79.50		88.00	91.70		
2	Sweeping 800/970Hz at 7Hz	Mean consumption (mA)	16 Vdc	1.70	NC	4.50
			24 Vdc	2.50	4.92	6.30
			28 Vdc	2.90	NC	7.20
		Acoustic power (dB(a)) (NOTE 1)	Min.	70.2	76.50	82.70
Max.	79.7		88.00	95.70		
3	Sweep 1200-500Hz at 1Hz	Mean consumption (mA)	16 Vdc	1.70	NC	4.80
			24 Vdc	2.40	5.10	7.30
			28 Vdc	2.80	NC	8.60
		Acoustic power (dB(a)) (NOTE 1)	Min.	67.10	75.00	83.00
Max.	78.80		87.00	96.00		
4	Continuous à 970Hz	Mean consumption (mA)	16 Vdc	1.40	NC	2.30
			24 Vdc	2.00	2.90	3.30
			28 Vdc	2.30	NC	3.70
		Acoustic power (dB(a)) (NOTE 1)	Min.	64.00	69.00	73.80
Max.	78.40		85.00	92.20		
5	Intermittent 660Hz 6,5s ON /13s OFF	Mean consumption (mA)	16 Vdc	1.50	NC	4.50
			24 Vdc	2.20	4.40	6.80
			28 Vdc	2.50	NC	7.90
		Acoustic power (dB(a)) (NOTE 1)	Min.	65.60	70.00	81.40
Max.	79.10		83.00	95.80		
6	Continuous at 4KHz	Mean consumption (mA)	16 Vdc	3.90	NC	5.20
			24 Vdc	5.90	4.40	7.90
			28 Vdc	6.90	NC	9.30
		Acoustic power (dB(a)) (NOTE 1)	Min.	78.80	79.00	80.40
Max.	93.00		95.00	98.00		

**NOTE 1:** Acoustic power is measured for all angles (from 15° to 165° on horizontal and vertical axis)

\* Forbidden combination for this type of device.

C.3. MECHANICAL CHARACTERISTICS.

Characteristic	Value
Weight with base (g)	300
Size in (Øx h)	122 x 46
IP	IP 21C
Material	ABS
Colour	White

C.4. CLIMATIC CHARACTERISTICS.

Characteristics	SOUND05
Working temperature	From -30°C to +70°C
Working admissible humidity	≤ 93%HR
Storage temperature	From +10°C to +50°C
Storage admissible humidity	≤ 85%HR

## D. SOUNDER BASE INSTALLATION

### D.1. FIXATION

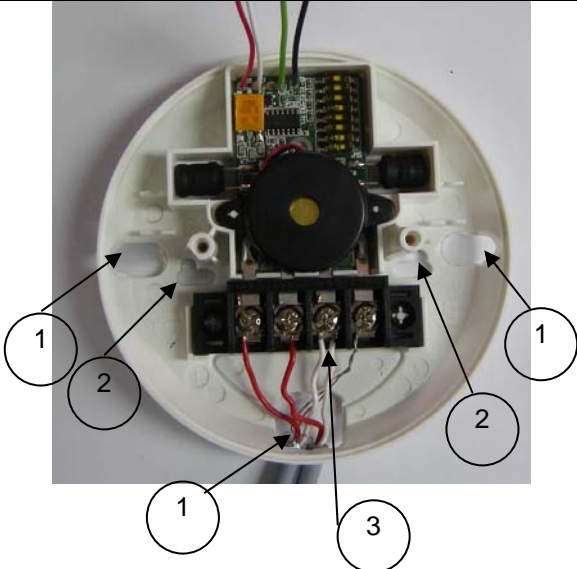

The sounder base is mounted on the surface of the roof, on a embedded plastic base or on a industrial box by two screws  $\varnothing 4$ .

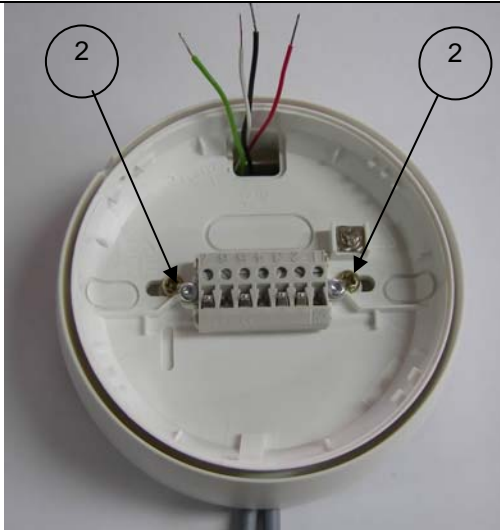
It must be installed on a rigid surface, flat and smooth and by leaving around it, if possible, an area free from any material ( $1m^2$  approximately)

### D.2. CONNECTION

The cable normally used should be of at least  $1,5mm^2$  without screen.

Follow the following steps for installation and connection:

	<p><b>Step 1 :</b></p> <ul style="list-style-type: none"> <li>• Break the 3 inputs made for the insertion of detection cables (1).</li> <li>• Attach the base on the floor through the 2 holes (2).</li> <li>• Cable the lines according to the connection diagram at the end of this document (3).</li> <li>• Configure the DIP_SWITCH with 8 switches according to B.</li> </ul>
<p><b>Step 2 :</b></p> <ul style="list-style-type: none"> <li>• Run the 4 cables through the hole of the intermediary base (1)</li> <li>• Install the intermediary base on the connector's base of the sounder. You can use the buzzer as a reference point for installation.</li> </ul>	



**Step 3 :**

- Put the S05 base on the SOUND05 base
- Attach both together with the 2 screws provided (2).

**Step 4:**

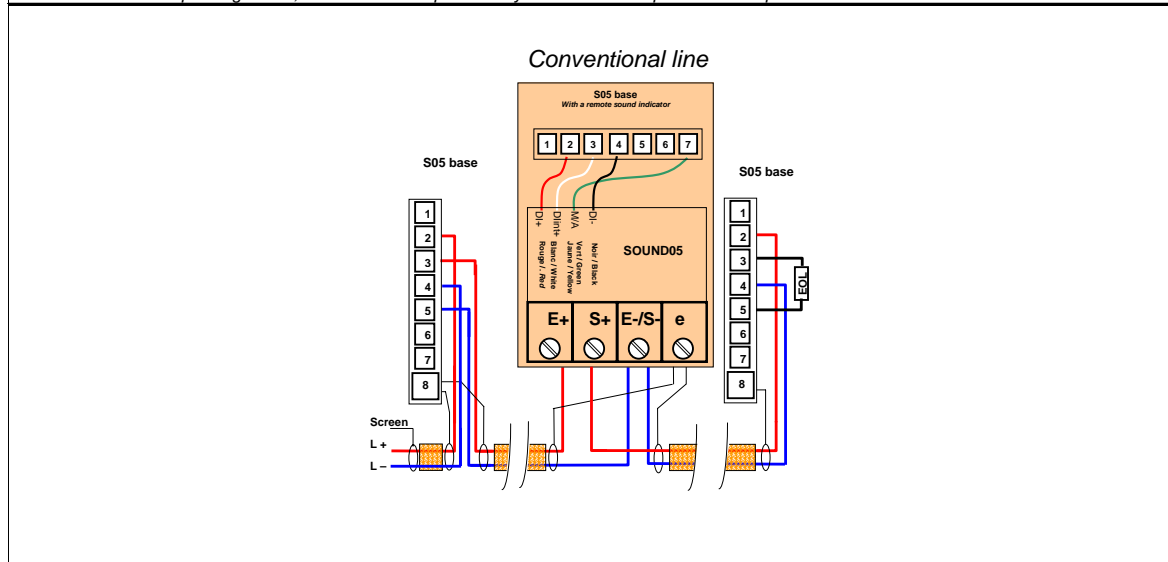
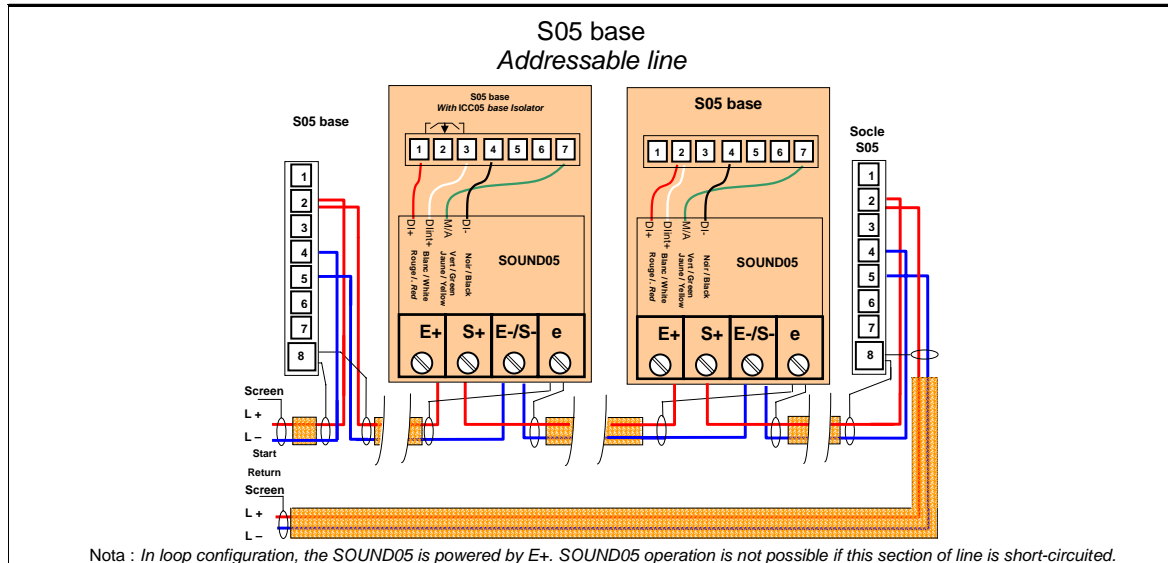
- Cable the S05 base according to the diagram shown at the end of the document.



**Step 5:**

- Put a detector on the S05 base.
- Connection is over !!

## E. CONNECTING DIAGRAM FOR THE SOUND05



A	31/05/07	first distribution	LM
Ind	Date	Désignation	Par/By
Révisé par : <b>Loïc MERLET</b> Review by		Approuvé par : <b>Jérôme CHESNEAU</b> Approved by	Echelle : - Scale
			Tolerance :
			Date : <b>31/05/2007</b>
<b>CONNECTING PLAN FOR SOUND05</b>			Ensemble : <i>Unity 05 range</i>
			N° de plan : <b>FA627R</b> Drawing N°

*This plan is our property, it can not be reproduced or transmitted without our permission.*