

## AX05 / AXL05 Installation Instructions

**Installation:** The sounder or combined sounder strobe units can be affixed to most surfaces using screws through the external mounting lugs. A 20 mm gland entry is provided for the supply cable. The cable and gland must be fitted in accordance with the national and local regulations. It is not necessary to earth the sounder circuitry but earth tags should be used if earth continuity of conduit or cable sheathing needs to be maintained.

**Supply input:** Ensure that the supply is correct for the voltage rating of the sounder or combined sounder strobe being installed. Ensure that the supply is OFF before making any connection and wire only in accordance with the terminal label detail.

**Sound selection:** Ensure the supply is OFF before proceeding. All dc and ac units have selectable alarm sounds (see table below for details) and are selectable by means of the 5 way DIL switches SW1 for the first stage and SW2 for the second stage. For dc units the second sound is made available upon the application of a third wire connected to terminal TB 1/3 as shown in Fig. 1 while still connected to terminal TB 1/2. Alternatively first and second stage sound signals can be generated by supply reversal at terminals TB1/3 and TB1/4, see Fig. 2. For ac units the second stage is available upon the application of a third wire L to TB3, see Fig. 3.

**Warning: Loud alarm sound. Wear ear defenders when testing, installing and commissioning. High voltages are present within the beacon when operational.**

### Sound selection table

First and Second Sound	Frequency / Hz	Rept. rate	Switches 12345	Special Application
1 Alternate two-tone	800-1000	0,5	11111	Fire Alarms
2 Alternate two-tone	2500-3100	0,5	01111	Security Alarms
3 Alternate fast two-tone	800-1000	0,25	10111	Increased urgency
4 Alternate fast two-tone	2500-3100	0,25	00111	Security deterrent
5 Alternate two-tone	440-554	0,4/0,1	11011	AFNOR, France
6 Alternate two-tone	430-470	1,0	01011	
7 Alternate v. fast two-tone	800-1000	0,13	10011	
8 Alternate v. fast two-tone	2500-3200	0,07	00011	
9 Alternate two-tone	440-554	2,0	11101	Turn-out, Sweden
10 Continuous tone	700	-	01101	All-clear, Sweden
11 Continuous tone	1000	-	10101	
12 Continuous tone	1000	-	00101	
13 Continuous tone	2300	-	11001	
14 Continuous tone	440	-	01001	
15 Interrupted tone	1000	2,0	10001	
16 Interrupted tone	420	1,25	00001	AS2220, Australia
17 Interrupted tone	1000	0,5	11110	
18 Interrupted tone	2500	0,25	01110	
19 Interrupted tone	2500	0,5	10110	
20 Interrupted tone	700	6/12	00110	Pre-vital mess, Sweden
21 Interrupted tone	1000	1,0	11010	
22 Interrupted tone	700	4,0	01010	Air-raid, Sweden
23 Interrupted tone	700	0,25	10010	Local warning, Sweden
24 Interrupted tone	720	0,7/0,3	00010	Industrial alarm, Germany
25 Int. fast rising volume	1400	0,25	11100	
26 Fast siren	250-1200	0,085	01100	
27 Rising constant, fall	1000	10/40/10	10100	Industrial alarm, Germany
28 ISO 8201 Evacuation	800-1000	as std	00100	Int. evacuation alarm
29 Fast whoop	500-1000	0,15	11000	
30 Slow whoop	500-1200	4,5	01000	Evacuation, The Netherlands
31 Reverse sweep	1200-500	1	10000	Evacuation, Germany
32 Siren	500-1200	3,0	00000	

**Switch settings: ON=1 and OFF=0**

**The PFEER Sound Signals recommended by UKOOA are:**

<b>General Alarm</b>	<b>Sound Signal 15</b>	<b>Interrupted tone 1000Hz</b>
<b>PAPA</b>	<b>Sound Signal 31</b>	<b>Reverse Sweep 1200-500Hz</b>
<b>Toxic gas</b>	<b>Sound Signal 11</b>	<b>Continuous tone 1000Hz</b>

**Mounting:** The AX05 / AXL05 series alarm units are mounted to a wall or bulkhead of suitable material using the lugs projecting from the side of the case. The lugs are bored 8 mm clearance on 153 mm centres. The recommended length of fixing screws is 25 mm. To maintain the integrity of the weather seal, the cable entry must be via a suitable sealed gland.

Figure 1: DC Input - second stage with third wire - Line integrity: monitor via reverse polarity

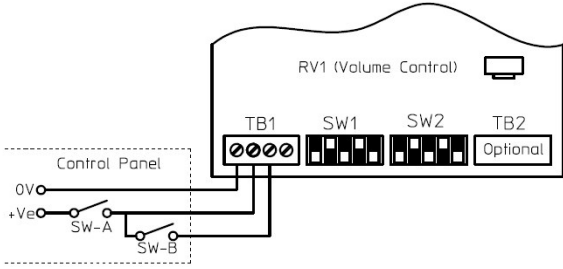
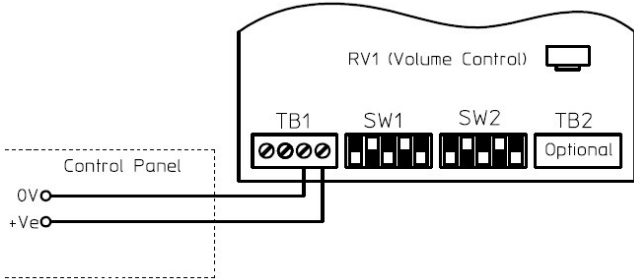
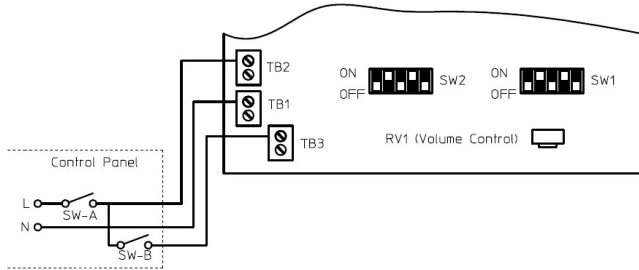


Figure 2: DC Input - second stage by supply reversal - Line integrity: monitor via threshold (applied voltage ≤ 1V)



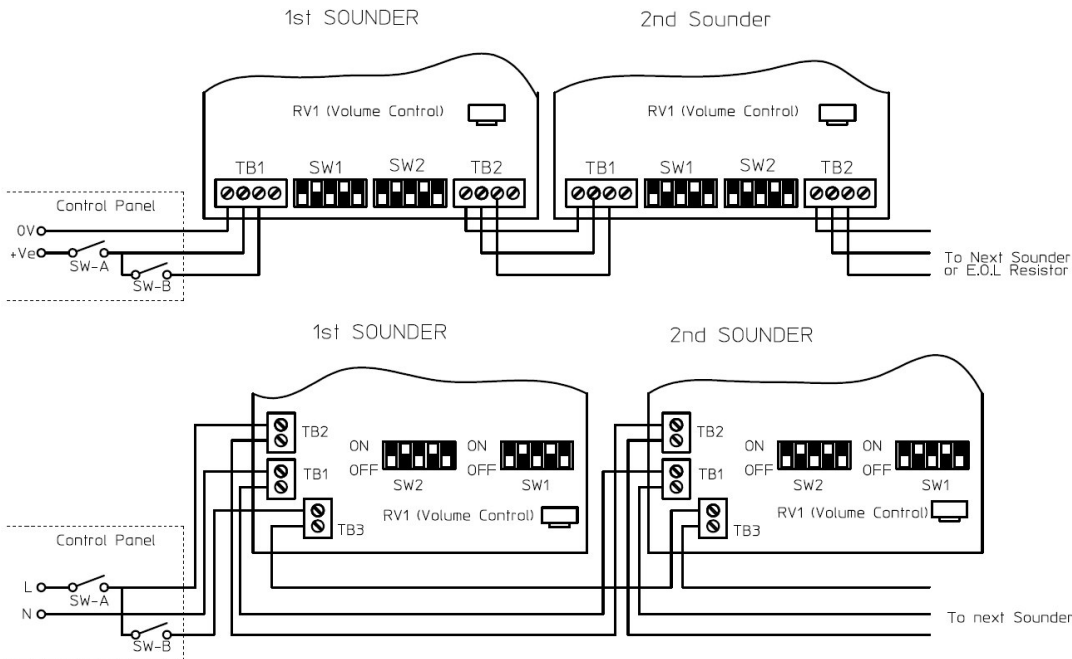
An end-of-line (E.O.L) resistor is required for line monitoring and it should be a minimum resistance of 3K3 ohms and 0,5 watts.

Figure 3: AC Input

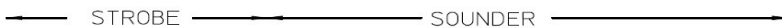
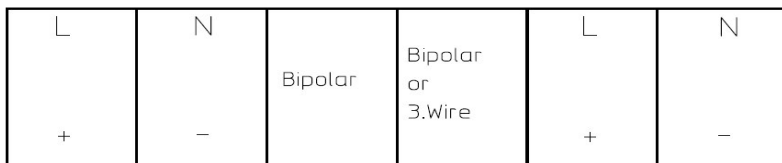


← SOUND SELECTION

Figure 4: System connection



Wiring details for XL unit



**WARNING: HIGH VOLTAGES ARE PRESENT WITHIN THE BEACON WHEN OPERATIONAL**