Y08/YL8 INSTALLATION INSTRUCTIONS

Installation: The sounder can be affixed to most surfaces using screws through the external mounting lugs or by drilling internal fixing holes. A 20mm 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 and 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 a 5 way dil switch SW1. A second sound is made available upon the application of a third wire connected to terminal TB3 as shown in Fig. 1 while still connected to terminal TB2. Alternatively 1st and 2nd stage sound signals can be generated by supply reversal (FOR DC UNITS ONLY) see Fig. 2. Independent second stage sound is available by using SW2.

WARNING - Very loud alarm sound, 120dB(A) output. Wear ear defenders when testing, installing and commissioning.

SOUND SELECTION TABLE

First and Second Sound	*frequency Hertz*	*rept. rate*	*switches 1 2 3 4 5*	*Special Application*
1 Alternate two-tone	800-1000	0.5	1 1 1 1 1	Fire Alarms
2 Alternate two-tone	2500-3100	0.5	0 1 1 1 1	Security Alarms
3 Alternate fast two-tone	800-1000	0.25	1 0 1 1 1	Increased urgency
4 Alternate fast two-tone	2500-3100	0.25	0 0 1 1 1	Security deterrent
5 Alternate two-tone	440-554	0.4/0.1	1 1 0 1 1	AFNOR, France
6 Alternate two-tone	430-470	1.0	0 1 0 1 1	
7 Alternate v.fast two-tone	800-1000	0.13	1 0 0 1 1	
8 Alternate v.fast two-tone	2500-3200	0.07	0 0 0 1 1	
9 Alternate two-tone	440-554	2.0	1 1 1 0 1	Turn-out, Sweden
10 Continuous note	700	-	0 1 1 0 1	All-clear, Sweden
11 Continuous note	1000	-	1 0 1 0 1	
12 Continuous note	1000	-	0 0 1 0 1	
13 Continuous note	2300	-	1 1 0 0 1	
14 Continuous note	440	-	0 1 0 0 1	
15 Interrupted tone	1000	2.0	1 0 0 0 1	
16 Interrupted tone	420	1.25	0 0 0 0 1	AS2220, Australia
17 Interrupted tone	1000	0.5	1 1 1 1 0	
18 Interrupted tone	2500	0.25	0 1 1 1 0	
19 Interrupted tone	2500	0.5	1 0 1 1 0	
20 Interrupted tone	700	6/12	0 0 1 1 0	Pre-vital mess, Sweden
21 Interrupted tone	1000	1.0	1 1 0 1 0	
22 Interrupted tone	700	4.0	0 1 0 1 0	Air-raid, Sweden
23 Interrupted tone	700	0.25	1 0 0 1 0	Local warning, Sweden
24 Interrupted tone	720	0.7/0.3	0 0 0 1 0	Industrial alarm, Germany
25 Int,fast,rising volume	1400	0.25	1 1 1 0 0	
26 Fast siren	250-1200	0.085	0 1 1 0 0	
27 Rising constant, fall	1000	10/40/10	1 0 1 0 0	Industrial alarm, Germany
28 ISO 8201 Evacuation	800-1000	as std	0 0 1 0 0	Int'l evacuation alarm
29 Fast whoop	500-1000	0.15	1 1 0 0 0	
30 Slow whoop	500-1200	4.5	0 1 0 0 0	Evacuation, The Netherlands
31 Reverse sweep	1200-500	1	1 0 0 0 0	Evacuation, Germany
32 Siren	500-1200	3.0	0 0 0 0 0	

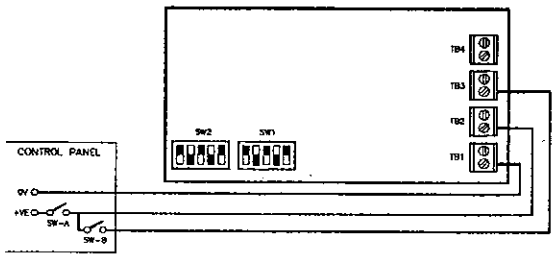
switch settings: ON=1 and OFF=0

The PFEER sound signals recommended by UKOOA are:-

General Alarm	**Sound Signal 15**	**Interrupted tone 1000 Hz**
PAPA	**Sound Signal 31**	**Reverse Sweep 1200-500 Hz**
Toxic Gas	**Sound Signal 11**	**Continuous Tone 1000 Hz.**

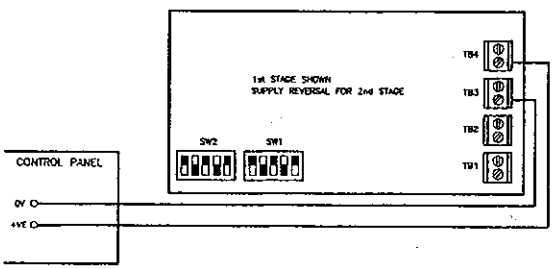
MOUNTING: The Y08 series alarm units are mounted to a wall or bulkhead of suitable material using the lugs projecting fromthe side of the case. The lugs are bored 8mm clearance on 250mm centres. The recommended length of fixing screws is 30mm. To maintain the integrity of the weather seal, the cable entry must be via a suitable sealed gland.

FIGURE 1: DC INPUT - 2nd STAGE WITH THIRD WIRE



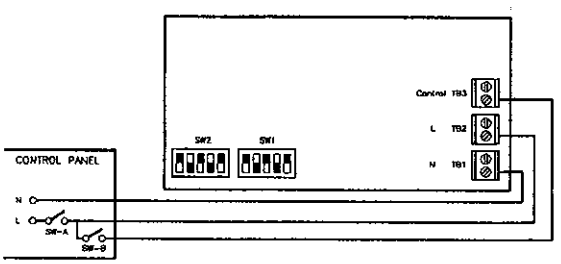
LINE INTEGRITY ON DC SYSTEMS
- FOR 3 WIRE 2 STAGE ALARM SYSTEM, MONITOR VIA REVERSE POLARITY
- FOR 2 WIRE 2 STAGE ALARM SYSTEM, MONITOR VIA THRESHOLD (APPLIED VOLTAGE<1V)

FIGURE 2: DC INPUT - 2nd STAGE BY SUPPLY REVERSAL



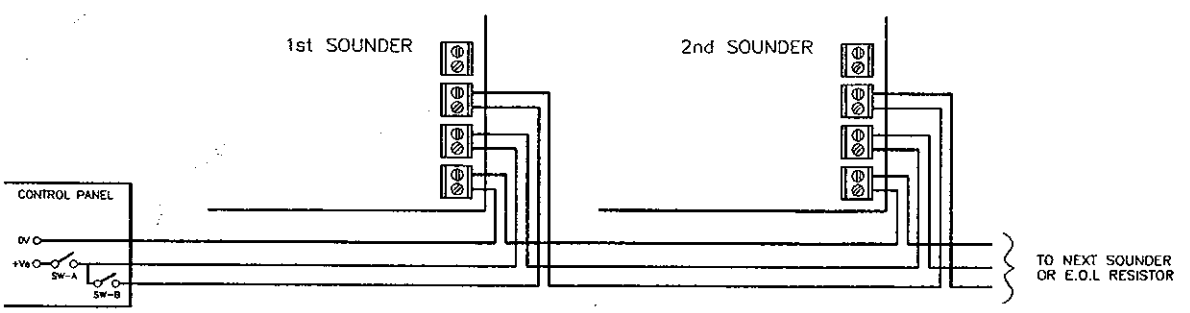
AN END-OF-LINE (E.O.L) RESISTOR IS REQUIRED FOR LINE MONITORING AND IT SHOULD BE A MINIMUM RESISTANCE OF 3K3 OHMS AND 0.5WATTS, WIRE-WOUND OR METAL FILM TYPE

FIGURE 3: AC INPUT



NOTE: CONTROL WIRE IS NEEDED FOR 2nd STAGE ALARM

FIGURE 4: SYSTEM CONNECTION - DC



WIRING DETAILS FOR YL UNITS