



V (MultiVoltage) INSTALLATION INSTRUCTIONS Y03, Y04/YL4, Y05/YL5, (24/48V)BT, 48VDC, 110VDC

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 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 units have selectable alarm sounds (see table below for details) and are selectable by means of a 5 way dip switch SW1. First and Second stage sound signals can be generated by supply reversal. Independent second stage sound is available by using SW2 (OPTIONAL- only fitted with orders).

WARNING - Loud alarm sound. Wear ear defenders when testing, installing and commissioning.

SOUND SELECTION TABLE

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

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switch settings: ON=1 and OFF=0

The PFEER sound signals recommended by UKOOA are:-

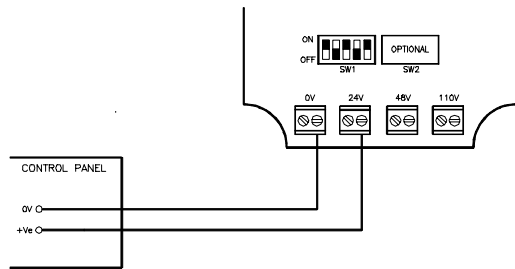
General Alarm Sound Signal 15 Interrupted tone 1000 Hz
PAPA Sound Signal 31 Reverse Sweep 1200-500 Hz
Toxic Gas Sound Signal 11 Continuous Tone 1000 Hz.

MOUNTING: The Y03 and Y05 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 6mm(Y03) or 8mm(Y05) clearance on 102mm(Y03) or 153mm(Y05) centres. The recommended length of fixing screws is 20mm(Y03) or 25mm(Y05). To maintain the integrity of the weather seal, the cable entry must be via a suitable sealed gland.

MOUNTING: The Y04/YL4 series alarm units are supplied separate from the back box. The back box should be mounted to a suitable surface or to a standard wiring box using any of the mounting holes. 20mm cable entries are provided on all sides and in the base. To maintain the integrity of the weather seal, the cable entry must be via a suitable sealed gland.

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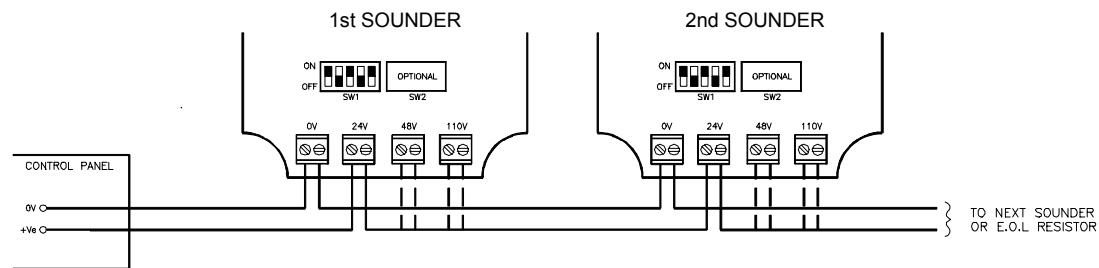
FIGURE 1: DC INPUT - 2nd STAGE BY SUPPLY REVERSAL



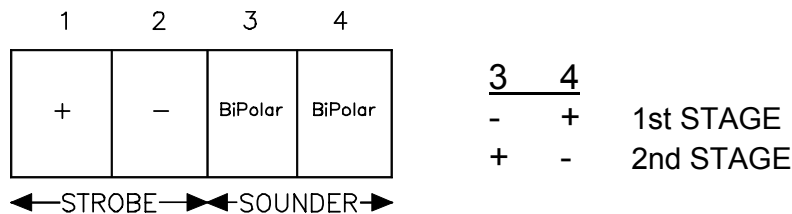
LINE INTEGRITY ON DC SYSTEMS
 - FOR 2 WIRE 2 STAGE ALARM SYSTEM,
 MONITOR VIA THRESHOLD (APPLIED
 VOLTAGE <1V)

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

FIGURE 2: SYSTEM CONNECTION



WIRING DETAILS FOR YL UNITS



CAUTION: HIGH VOLTAGES ARE PRESENT WITHIN THE BEACON WHEN OPERATIONAL

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