

# Y05/YL5 INSTALLATION INSTRUCTIONS

**General Description:** This application should be installed and used as recommended by the National Fire Protection Association standards and practices.

The Installer should be familiar with these requirements together with any local codes or special requirements of the local Fire Authority having jurisdiction.

The alarm sounders are intended for connection to the output alarm circuit of a UL listed fire alarm control panel only. All alarms are compatible with DC line status monitoring. The alarm sounders are suitable for outdoor use (-35°C to +66°C).

Installation procedures must confirm to appropriate agency requirements including but not limited to the following:-

NFPA72E, NEC ART.760 ET.AL., CAN/ULC-S524-M86, CEC PART 1 SEC 32

**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 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 dip switch SW1. A second sound is made available upon the application of a third wire connected to terminal TB1/3 as shown in Fig. 1 while still connected to terminal TB1/2. 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 (OPTIONAL- only fitted with orders).

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

## SOUND SELECTION TABLE

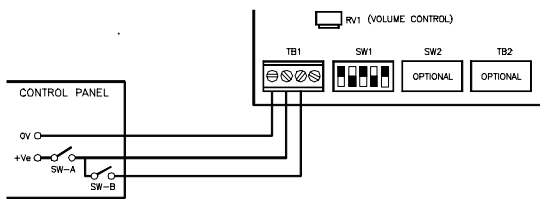
<i>First Stage Sound</i>	<i>frequency</i> <i>Hertz</i>	<i>rept.</i> <i>rate</i>	<i>Second</i> <i>Stage</i>	<i>switches</i> <i>1 2 3 4 5</i>	<i>Special Application</i>
1 Alternate two-tone	800-1000	0.5	3	1 1 1 1 1	Fire Alarms
2 Alternate two-tone	2500-3100	0.5	4	0 1 1 1 1	Security Alarms
3 Alternate fast 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	

switch settings: ON=1 and OFF=0

**MOUNTING:** The 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 8mm clearance on 153mm centres. The recommended length of fixing screws is 25mm. To maintain the integrity of the weather seal, the cable entry must be via a suitable sealed gland.

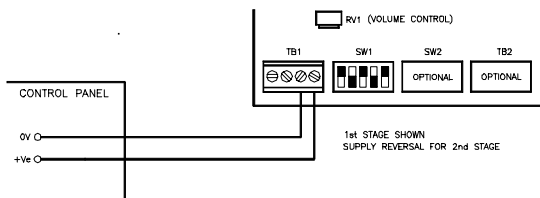
**D7426/1-UL**

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



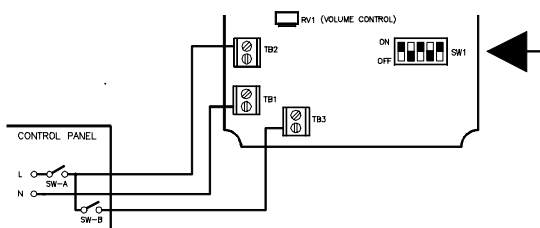
LINE INTEGRITY ON DC SYSTEMS  
 - FOR 3 WIRE 2 STAGE ALARM SYSTEM,  
 MONITOR VIA REVERSE POLARITY  
 - FOR 2 WIRE 2 STAGE ALARM SYSTEM,  
 MONITOR VIA THRESHOLD (APPLIED  
 VOLTAGE < 1V)

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



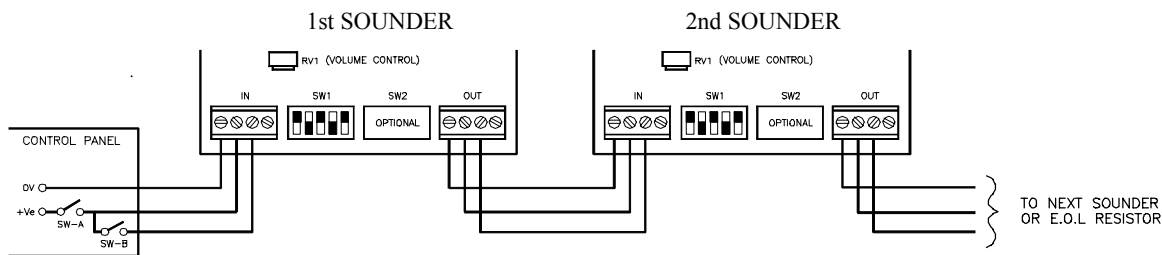
AN END-OF-LINE (E.O.L) RESISTOR IS  
 REQUIRED FOR LINE MONITORING AND  
 IT SHOULD BE A MINIMUM RESISTANCE  
 OF 3K3 OHMS AND 0.5WATTS, WIRE-  
 WOUND OR METAL FILM TYPE

FIGURE 3: AC INPUT

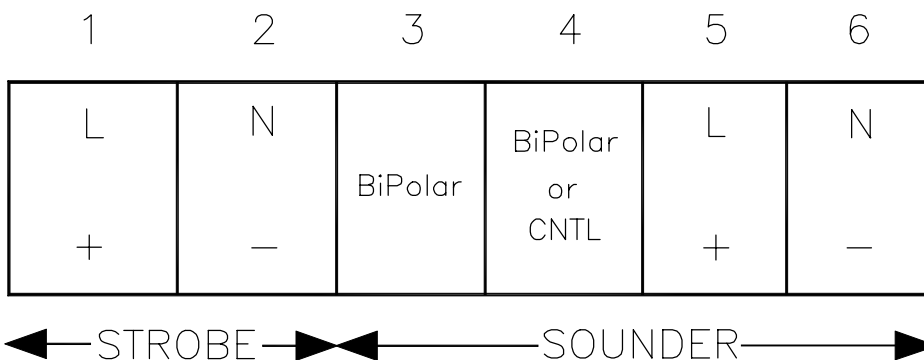


SOUND  
 SELECTION

FIGURE 4: SYSTEM CONNECTION



WIRING DETAILS FOR YL UNITS



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