

Protocol bit use

Output Bit Settings			Sounder action
2	1	0	
0	0	0	Sounder off
0	0	1	Alarm slow whoop
0	1	0	Alert continuous
0	1	1	Alarm slow whoop
NB Output bit 2 is not used			

Input bits 2, 1, 0 confirm the receipt of the corresponding output bits

Troubleshooting

Before investigating individual units for faults, it is important to check the system wiring is fault free. Earth faults on data loops may cause communication errors. If an XP95 test set is used to test the sounder operation may be intermittent. To avoid this, operate the sounder and exit the single address test.

Fault Finding

Problem	Possible Cause
No response or missing	Incorrect address setting Incorrect loop wiring Too many sounders between isolators
Sounder fails to operate	Control panel has incorrect cause and effect programming



Slow Whoop Intelligent Base Sounder for use with isolating bases Installation Guide

General

This guide describes the installation of the following sounders

Part number	Comments
45681-268	Slow whoop base sounder for use with isolating base

The sounders may be connected only to control panels which use either the XP95 or the Discovery protocol.

Note: The Intelligent Base Sounder is Type A, ie, it is not suitable for outdoor use. The Slow Whoop Intelligent Base Sounder complies with the requirements of EN54-3 : 2001 but the tone is as specified by Dutch Standard NEN2575.

Mounting Instructions

The Base Sounder may be secured to a conduit box or surface mounted (providing there is access through the surface for cabling). Set the address and select the desired output before securing the XP95 isolating base to the sounder.

Wiring details

Note: The sounder is polarity sensitive (supply reversal protected) and will not function if wired incorrectly.

Connect the loop cables to the isolating base terminal block, observing polarity. Connect the red and black wires from the sounder to the XP95 base L1 and L2 terminals, not the base terminal block. Note that the red and black wire connections are the reverse of those to other bases (Fig 1). The wiring terminals accept solid or stranded cables up to 2.5mm².

Technical data

Operating voltage 17—28V DC

Sounder output switch selectable 84±3 or 91±3dB(A)

SPL polar plot data is available in document M04-003, available on request.

Current consumption at 24V DC

quiescent	300µA
switch-on surge	1.2mA for 1 sec
sounder operated at 84dB(A)	3.5mA
sounder operated at 91dB(A)	8.25mA
IP rating	21C

The maximum number of Intelligent Base Sounders permitted between standard XP95 isolators (part no. 55000-720) or isolating bases (part no. 45681-321/284) is 20, depending on the loop loading. *Apollo's Loop Calculator is a program available as a free download from www.apollo-fire.co.uk and can be used to check the loading of any proposed loop design.*

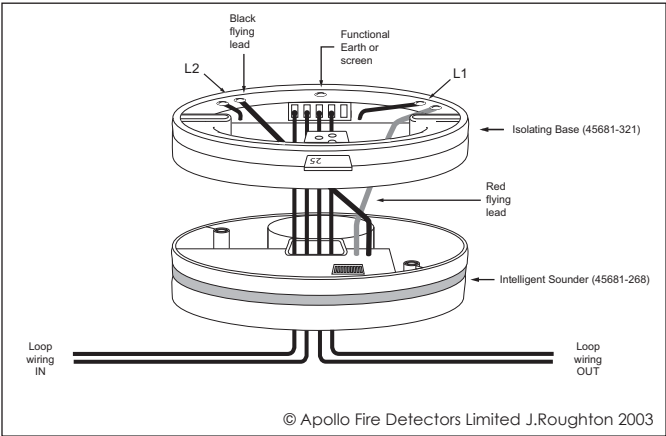


Fig 1 Connection diagram

Address and Sound Output Setting

The address of the base sounder is set using seven segments of the eight-segment DIL switch (Fig 2). Segments 1-7 of the switch are set to "1" or "0" (ON), using a small screwdriver or similar tool. A complete list of address settings is shown below.

The eighth segment selects the sound output level, 84dB or 91dB (ON).

DIL switch setting	DIL switch setting	DIL switch setting	DIL switch setting	DIL switch setting
addr 1234567	addr 1234567	addr 1234567	addr 1234567	addr 1234567
1 1000000	11 1101000	21 1010100	31 1111100	41 1001010
2 0100000	12 0011000	22 0110100	32 0000010	42 0101010
3 1100000	13 1011000	23 1110100	33 1000010	43 1101010
4 0010000	14 0111000	24 0001100	34 0100010	44 0011010
5 1010000	15 1111000	25 1001100	35 1100010	45 1011010
6 0110000	16 0000100	26 0101100	36 0010010	46 0111010
7 1110000	17 1000100	27 1101100	37 1010010	47 1111010
8 0001000	18 0100100	28 0011100	38 0110010	48 0000110
9 1001000	19 1100100	29 1011100	39 1110010	49 1000110
10 0101000	20 0010100	30 0111100	40 0001010	50 0100110
51 1100110	61 1011110	71 1110001	81 1000101	91 1101101
52 0010110	62 0111110	72 0001001	82 0100101	92 0011101
53 1010110	63 1111110	73 1001001	83 1100101	93 1011101
54 0110110	64 0000001	74 0101001	84 0010101	94 0111101
55 1110110	65 1000001	75 1101001	85 1010101	95 1111101
56 0001110	66 0100001	76 0011001	86 0110101	96 0000011
57 1001110	67 1100001	77 1011001	87 1110101	97 1000011
58 0101110	68 0010001	78 0111001	88 0001101	98 0100011
59 1101110	69 1010001	79 1111001	89 1001101	99 1100011
60 0011110	70 0110001	80 0000101	90 0101101	100 0010011
101 1010011	106 0101011	111 1111011	116 0010111	121 1001111
102 0110011	107 1101011	112 0000111	117 1010111	122 0101111
103 1110011	108 0011011	113 1000111	118 0110111	123 1101111
104 0001011	109 1011011	114 0100111	119 1110111	124 0011111
105 1001011	110 0111011	115 1100111	120 0001111	125 1011111
				126 0111111

Example of address and output setting

Address shown is 78 with a sound output of 84dB selected.

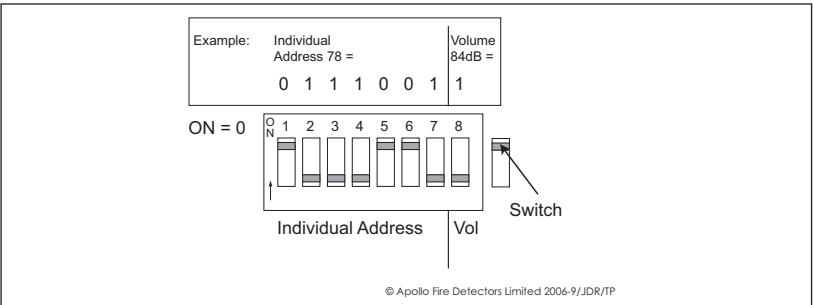


Fig 2