Technical Data

Operating voltage Sounder output 17-28V DC

High tone setting volume (Complies to EN54:3)

nominally 75dB(A) to 91dB(A)

(Complies to EN54:3)

Low tone setting volume*` nomin

nominally 55dB(A) to 75dB(A)

Sound pressure level information published in document PP2203 and isolator operation information published in document PP2090, both available on request.

Current consumption at 24V DC	Sounder Beacon Bases	Sounder Bases	Beacon Bases	
quiescent	<300µA	200µA	<300µA	
switch-on surge	1.2mA for 1 sec	1.2mA for 1 sec	1.2mA for 1 sec	
sounder/beacon operating	8mA	5mA	3.1mA	

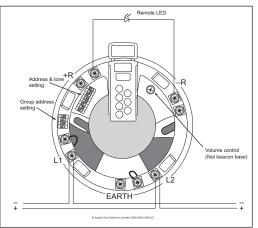
^{*}Low tone setting does not comply to EN54-3 and should not be used for fire alarm applications

Commissioning

It is important that the base variants be fully tested after installation. An XP95 Test Set, part no 55000-870, may be used to carry out functional testing of individual units. The test set can also perform data integrity tests of an entire system.

Fault Finding

Problem No response or missing	Possible Cause Incorrect address setting Incorrect loop wiring (polarity reversed) Too many bases between isolators
Analogue value 1 Analogue value 2 Analogue value 3 Analogue value 4 Failure to operate	Sounder failed (if sounder base product) Beacon failed (if beacon base product) Sounder and beacon failed (if sounder beacon base product) Incorrect group address or address setting Control panel has incorrect cause and effect programming Incorrect group address setting



Address & tone setting

Group address setting

Fostion of Bolstor LED

Address & tone setting

Fostion of Bolstor LED

Address & tone setting

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Fig. 2 Sounder Beacon Base wiring

Fig. 3 Sounder Beacon Base with isolator wiring

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Loop-powered Sounder Beacon Base Installation Guide

General

This guide describes the installation of the following base variants

Part number	Product Description
45681-331	Loop-powered Sounder Beacon Base
45681-330	Loop-powered Sounder Beacon Base with isolator
45681-332	Sounder Beacon Base Slow whoop version to Dutch Standard NEN2575 with Isolator
45681-333	Loop-powered Beacon Base with isolator
45681-335	Loop-powered Beacon Base
45681-292	White Cap only (Lockable)
45681-293	Red Cap only (Lockable)

Connect the devices only to control panels using either the XP95 or the Discovery protocol.

The Loop-powered Sounder Beacon Base combines a sounder with a beacon and a detector base in one unit. The beacon is activated whenever the sounder is active and cannot be controlled separately.

All loop-powered base variants with short circuit isolator have a yellow LED which illuminates through the moulding if a short circuit is detected on the loop wiring (see Fig 3).

Note: All loop-powered base variants are not suitable for outdoor use.

Mounting Instructions

All base variants may be secured to a UK standard conduit box or surface mounted (providing there is access through the surface for cabling). If a detector is fitted, lock it if required by screwing in the grub screw in the detector with a 1.5mm hex driver (part no 29600-095).

Wiring Details

Note: These products are polarity sensitive (supply reversal protected) and will not function if wired incorrectly.

All loop-powered base variants without isolator

Connect the positive and negative loop cables to the L2 and L1 terminals respectively, observing polarity. The wiring terminals accept solid or stranded cables up to 2.5mm². Functional earth or screen cables may be terminated to the EARTH connection.

All loop-powered base variants with isolator

Terminate all loop cables in the two way terminal blocks. Connect the incoming loop cables to L1 IN (–) and L2 (+) and the outgoing cables to L1 OUT (–) and L2 (+). Functional earth or screen may be connected to the EARTH connection. The isolator LED can be seen through the moulding as shown in Fig 3.

DO NOT CONNECT LOOP CABLES TO THE OUTER TERMINALS OF ISOLATED MODELS.

When using as a stand-alone unit, a cap is available (red cap part no 45681-293) or white cap part no 45681-292) and is secured with a 1.5mm, AF hexagon socket head screw. A hexagonal driver (part no 29600-095) is available from Apollo.

Address Setting

The address of the loop-powered base variants are set using seven segments of the eight-segment DIL switch. The eighth segment is used to adjust the volume output. Segments 1-7 of the switch are set to "0" (ON) or "1", using a small screwdriver or similar tool. A complete list of address settings is shown below. If a detector is to be fitted, set the address as described on page 3.

addr	DIL switch setting 1234567	addr	DIL switc setting 1234567	eh addr	DIL swite setting 1234567	ch addr	DIL switc setting 1234567	h addr	DIL switch setting 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

Group Address Setting

In group mode the loop-powered base variants responds to an additional address referred to as the group address, which is used to activate groups of base variants, Integrated Base Sounders and/or 100dB sounders simultaneously. Individual units continue to respond to their own addresses and report their status in the normal way. A group address is set on a four-segment DIL switch which is factory set to 0000. A group address may be any spare address within-and only within-the range 112 to 126 inclusive. The required aroup address is set in accordance with the following table. For an illustrated example, please see Fig 1.

DIL switch setting			DIL swi setting		DIL switch setting		
addr	1234	addr	1234	addr	1234		
112	1111	117	0101	122	1010		
113	0111	118	1001	123	0010		
114	1011	119	0001	124	1100		
115	0011	120	1110	125	0100		
116	1101	121	0110	126	1000		

Note: group mode is disabled if the group address DIL switch is set to 0000, irrespective of the protocol message.

The base variants are tested via the control panel. Ouput bit 0 is set to 1 on two polling cycles to switch the sounder on which should be tested for at least 5 seconds.

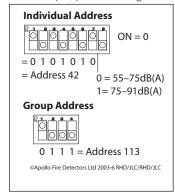


Fig. 1 Address example

XPERT Card Addressing

Select the desired address and remove the pips indicated in black. Remove pips with a small screwdriver.

