

## Technical Data

Operating voltage	17—28V DC		
Sounder output			
High tone setting volume (Complies to EN54:3)	nominally 75dB(A) to 91dB(A)		
Low tone setting volume*	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	Possible Cause
No response or missing	Incorrect address setting Incorrect loop wiring (polarity reversed) Too many bases between isolators
Analogue value 1	Sounder failed (if sounder base product)
Analogue value 2	Beacon failed (if beacon base product)
Analogue value 3	Sounder and beacon failed (if sounder beacon base product)
Analogue value 4	Incorrect group address or address setting
Failure to operate	Control panel has incorrect cause and effect programming Incorrect group address setting

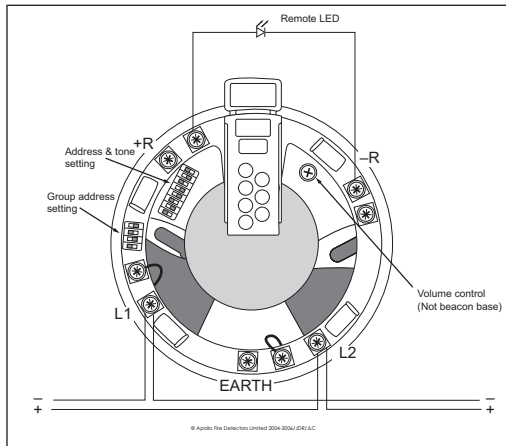


Fig. 2 Sounder Beacon Base wiring

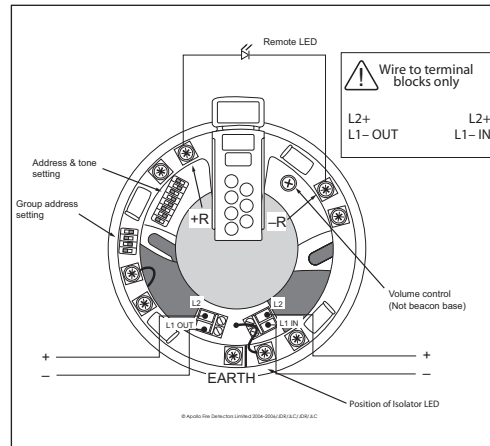


Fig. 3 Sounder Beacon Base with isolator wiring



# 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 2.5mm<sup>2</sup>. 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.

