



XP95 Sounder VAD Base DIN with Isolator Installation Guide

Protocol bit use:

Output Bit	Function group mode	Input Bit	Function
2	1 = off 0 = on	2	group mode confirmed 1 = group 0 = individual
1	Alert tone 1 = on 0 = off	1	alert tone confirmed 1 = on 0 = off
0	Evacuation tone 1 = on 0 = off	0	Evacuation tone confirmed 1 = on 0 = off

Fault Finding

Problem	Possible Cause
No response or missing	Incorrect address settings Incorrect loop wiring (polarity reversed)
Analogue Value 1	Sounder test failed
Analogue Value 2	VAD failed
Analogue Value 3	Sounder and VAD failed
Analogue Value 4	Incorrect group address or address setting
Product fails to operate	Control panel has incorrect cause and effecting programming Incorrect group address settings

Tone Table

Part Number	Primary Tone		Secondary Tone	
45681-707	DIN Tone (sweep)*	1200Hz - 500Hz for 1s	Continuous*	850Hz

For further technical information please refer to PP2478

Technical Data

Operating voltage	Sounder output	17—28V DC
High tone setting volume		nominally 65 to 85dB(A) (Complies with EN54-3)
Low tone setting volume*		nominally 50 to 65dB(A)
Sound pressure level information published in document PP2203 and isolator operation information published in document PP2090, both available on request		

Current consumption at 25V dc	
quiescent	
switch-on-surge	350µA
sounder VAD operating	1.2mA for 1 sec
VAD frequency	14mA
IP rating	0.5Hz

*Low tone swtting does not comply to EN54-3 and should not be used for fire alarm applications.

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General

This guide describes the installation of the following sounder

Part Number	Product Description	Category
45681-707	XP95 Sounder VAD Base (White) DIN with Isolator	O
45681-292	White Cap only	n/a
45681-293	Red Cap only	n/a

Connect the products only to control panels using the XP95 protocol.

The XP95 Sounder VAD Base combines a sounder with a visual alarm and a detector base in one unit. The VAD is activated whenever the sounder is active and cannot be controlled separately. The XP95 Sounder VAD Base with short circuit isolator has a yellow LED which illuminates through the moulding if a short circuit is detected on the loop wiring (see Fig 2).
 Note: The XP95 Sounder VAD Base is not suitable for outdoor use.

Mounting Instructions

The sounders may be secured to a UK or European 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 on the head with a 1.5mm hex driver (part no 29600-095)

The XP95 Sounder VAD Bases are ceiling mounted devices. For coverage volume information please refer to PP2478.

Wiring Details

Note: This product is polarity sensitive (supply reversal protected) and will not function if wired incorrectly.
 Connect the positive XP95 loop cables to the L2 terminals, the negative loop in to L1 IN and negative loop out to L1 OUT. (See Fig. 2) Functional earth or screen cables may be terminated to the EARTH connection. When using the sounder 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. The isolator LED can be seen through the moulding as shown in Fig 2.

Address Setting

The address of the sounder is 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.

Coverage Diagram

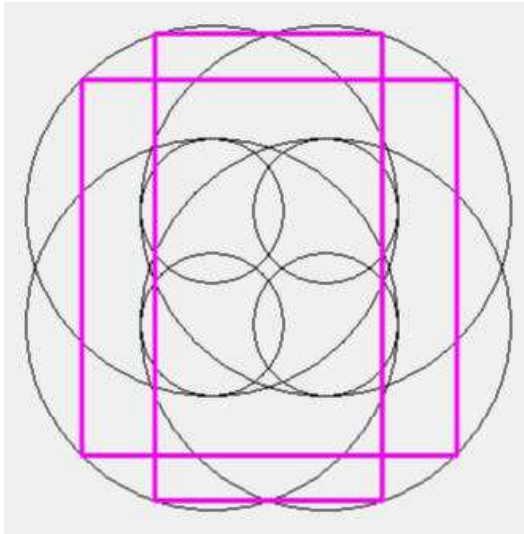


Fig 2. Example of coverage pattern

The sides of the included rectangular coverage range from 3.06m X 6.28m to 5.06m X 5.06m

Coverage radius of a single VAD = 2.50m

Centre dark spot radius of a single VAD = 0.97m

Depth of section from the ceiling = 2.40m

Centre to centre spacing of VADs = 1.53m

For alternative mounting heights, please contact Apollo Fire Detectors Limited