

## SOUNDERS &amp; BEACONS (VADS)

## Open-Area Alarm Devices



## Product Overview

Product	Sounder - Red - Apollo, Slow-whoop and DIN tones
Part No.	55000-001
Product	Sounder - White - Apollo, whoop and DIN tones
Part No.	55000-002
Product	Sounder Visual indicator - Red - Apollo, Slow-whoop and DIN tones and Apollo flash
Part No.	55000-005
Product	Sounder Visual indicator - White - Apollo, Slow-whoop and DIN tones and Apollo flash
Part No.	55000-006
Product	Visual indicator - Red - Apollo flash
Part No.	55000-009
Product	Visual indicator - White - Apollo flash
Part No.	55000-010
Digital Communication	XP95, Discovery and CoreProtocol® compatible

## Compliance\*



## Notes:\*

55000-001 - All Approvals, 55000-002 - CPR, LPCB, VNIPO and CCMG only, 55000-005 - CPR, LPCB, VNIPO and CCMG only, 55000-006 - CPR, LPCB and VNIPO only, 55000-009 - VNIPO, Kazaksthan and CCMG only, 55000-010 - VNIPO only

## Technical Data

All data is supplied subject to change without notice. Specifications are typical at 24V, 25°C and 50% RH unless otherwise stated.

Supply voltage	17-28 V dc polarity sensitive
Maximum Loop Current Consumption at 24V dc	
Quiescent	333 $\mu$ A
Switch-on surge	1.2 mA for <1 second
Operated sounder	5 mA
Operated sounder Visual indicator	8 mA
Operated Visual indicator	3.1 mA
Sound output - maximum	100 dB (A)
Operating temperature	-10°C to +55°C
Humidity (no condensation)	0-95% RH
Designed to IP Rating	IP65
Standards and approvals	CPR, LPCB, VdS, VNIPO, CNBOP, CCMG, Kazaksthan
Dimensions	104 mm diameter x 97.5 mm height
Weight	Sounder 225 g Sounder Visual indicator 260 g Visual indicator 205 g
Materials	Body - red polycarbonate. Diffuser - translucent polycarbonate

## Notes:

- All dB (A) figures are to within  $\pm 3$  dB (A).
- For sound pressure levels measured to EN54-3 see document PP2203 and for isolator operation information see document PP2090, both available from [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk)

## Product Information



## CAUTION: Product Use

Visual Indicators have not been approved as a Visual Alarm Device and the visual element alone may not be suitable for use as a fire warning device.

The Open-Area Alarm Devices are loop-powered, wall mounted devices designed for use in open areas and can be connected to any XP95, Discovery or CoreProtocol system.

The range includes sounders, Visual indicators and Sounder Visual indicators all designed to fit a common mounting base.

- Three tones on standard devices; Apollo, Slow-whoop and DIN all of which comply with EN 54-3
- Two volume settings 92 dB (A) and 100 dB (A)
- Synchronisation of tones and flashes
- Individual and group addressing
- EN54 versions available with built-in isolator
- Wire-to base for simple interchange of devices
- Device locking facility

## Features

A nominal sound output of 100 dB (A) is achieved at a current consumption of 5 mA in the case of the sounder and 8 mA for the sounder Visual indicator. Many control panels will be able to drive up to 20 sounders and up to 15 sounder Visual indicators per loop on average. However, the maximum number of devices that may be connected to a particular loop should be determined by a loop loading calculation using the Apollo Loop Calculator, which is available as a free download from [www.apollo-fire.co.uk/loop\\_calc](http://www.apollo-fire.co.uk/loop_calc).

Since the Open-Area Alarm Devices are intended for use in open areas it is possible for more than one device to be audible at any given point in a building. For this reason the operation of all may be synchronised by the control panel.

The devices can be assigned either group or individual group addresses so that the functional options of the sounder are identical with those of the Sounder Control Unit, Part No. 55000-182.

### Electrical operation

The Open-Area Alarm Devices are powered directly from the loop and need no external power supply. They operate at 17 V - 28 V dc and are polarity sensitive.

### Tone frequency and volume control

The Open-Area Alarm Devices have three selectable tones and flashes, either Apollo, Slow-whoop or DIN.

The volume control can be used to adjust the sound from 100 dB (A) to 92 dB (A) if required.

The Apollo tone version produces a pulsed alert tone of 984 Hz, one second off and one second on, and a continuous evacuation tone of 644 Hz for 0.5 seconds followed by 984 Hz for 0.5 seconds.

### Synchronisation

The sounder also offers synchronisation of continuous and pulsed tones. This ensures the integrity of alert-signals - tones from different sounders do not merge into one signal that could be mistaken for an 'evacuate' tone.

## Addressing

The Open-Area Alarm Devices respond to their own individual addresses set with a DIL switch.

They can also respond to a 'Group Address' which enables multiple sounders to be controlled simultaneously. A group address may be any spare address between 112 and 126 and is selected by means of a four segment DIL switch. A device under group address control must have an individual address between one and 111 otherwise a fault value of four is transmitted. Devices not using the group address facility may be addressed at any address (1 - 126).

### Protocol compatibility

The features of the Open-Area Alarm Devices are available only when the sounder is connected to a control panel with the appropriate software.

### EMC Directive 2014/30/EU

The Open Area Alarm Devices comply with the essential requirements of the EMC Directive 2014/30/EU, provided that they are used as described in this datasheet.

A copy of the Declaration of Conformity is available from the Apollo website: [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk)

Conformity of the Open Area Alarm Devices with the EMC Directive, does not confer compliance with the directive on any apparatus or systems connected to them.

### Construction Products Regulation 305/2011/EU

The Open Area Alarm Devices comply with the essential requirements of the Construction Products Regulation 305/2011/EU.

A copy of the Declaration of Performance is available from the Apollo website: [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk).

Tone Selection					
DIL switch setting		Tone	Output Bit 1 Set to logic 1	Output Bit 0 Set to logic 1	Output Bit 0 and 1 Set to logic 1
5	6				
0	0	Apollo Standard	Apollo alert and visual indicator	Apollo evacuate and visual indicator	Apollo evacuate and visual indicator
1	0	Slow-Whoop	Constant tone and visual indicator	Dutch NEN2575 and visual indicator	Dutch NEN2575 and visual indicator
0	1	DIN Tone	Constant tone and visual indicator	German DIN33404 and visual indicator	German DIN33404 and visual indicator
1	1	Apollo Standard	Apollo alert and visual indicator	Apollo evacuate and visual indicator	Apollo evacuate and visual indicator

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