

P80AVB & P81AVB Addressable Sounder VAD Bases



Sounders are considered as the most important of all the alarm devices. It is a mandatory requirement that sounders are used as an integral part of the fire detection and alarm system.

VADs are used to supplement sounders, providing an effective means of alerting and evacuating occupants of the building, as part of its fire safety strategy.

The P80AVB and P81AVB are addressable sounder bases with a Visual Alarm Device (VAD) specifically for use with the ZETTLER addressable detectors. The bases are available as fire alarm sounders with Visual Alarm Device in two power outputs, standard and high. The high power option provides more coverage for the VAD compared to standard. Each has an address so they can be monitored and controlled from the fire alarm control panel, which is independent of the detector fitted to the base. The power and communications for the sounder, VAD and detector are provided by the two-wire digital loop. This helps to reduce installation costs as no additional wiring is required.

EN54-23 now provides clarity by standardizing requirements, test methods and performance criteria of Visual Alarm Devices (VADs) and ensures all device parameters are measured in a uniform manner throughout Europe.

Main Requirements from EN54-23 are:

- The coverage volume (i.e. volume within which required illumination is achieved) must be stated on the product or supporting documentation.
- The VAD should meet the requirement for coverage volume of at least one of the following categories: W (Wall), C (Ceiling), O (Open Class).
- Required illumination of 0.4 lux on a surface perpendicular to the direction of the light emitted from the VAD.
- Rate of flash should be stated between 0.5Hz & 2Hz.
- The devices must be classified as Type A, indoor and Type B, outdoor.

Features

- A compact and discrete solution
- VAD approved to EN54-23 with two ranges, standard power and high power available
- High power option provides a larger VAD coverage volume compared to standard
- Reflective Sound Monitoring (RSM)
- Reflective Light Monitoring (RLM)
- Automatic self-test
- Shorter light pulse for faster response
- Optimise the system design for lowest power requirements and lowest cost installation
- Triple light source
- One point of installation for detector, sounder and visual indicator with no additional wiring
- Independent addressable control of the sounder and beacon
- Built-in line isolator
- Select the tone, volume and flash rate using panel configuration software
- 15 selectable tones. Allows users to select the tone with which they are most familiar.
- Realistic conventional bell tone
- 2 selectable volumes
- 2 selectable flash rates
- Different tones can be used for fire alarm and class change
- VADs and sounders are synchronised over the entire loop
- A locking pin supplied with the base which prevents the unauthorized removal of the detector
- Provides an EN54-23 approved upgrade path

Order Codes

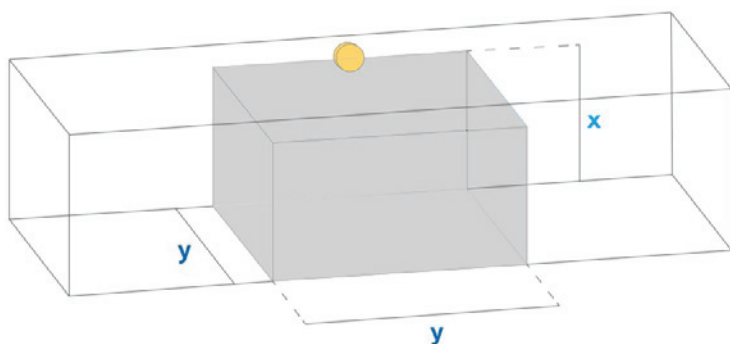
- 576.080.006 P80AVB Addressable Base Sounder VAD Standard Power
- 576.080.014 P81AVB Addressable Base Sounder VAD High Power
- 557.080.001 B-CAP Blanking Cap For Sounder / VID / VAD Bases White
- 557.080.002 A-CON Conduit Adaptor For Sounder / VID / VAD Bases White

Technical Information

	P80AVB	P81AVB
Coverage Volume Code:	C-3-8	C-3-15
Devices per Loop:	Up to 86 (*)	Up to 54 (*)
Flash Rate:	0.5 / 1Hz	0.5 / 1Hz
Dimensions (Diameter x H):	135x45mm	135x45mm
Sound Output @ 1m:	Up to 90dBA	Up to 90dBA
Body Colour:	Clear	Clear
Flash Colour:	White	White
IP Code:	IP21C	IP21C
Approvals:	EN54-3, 23, 17	EN54-3, 23, 17

(*) Full intensity VAD with sounder at high volume, 1 A loop.
 Loop quantities are for guidance only and should be verified with the loop calculator.

Wall Category



Coverage volume code:

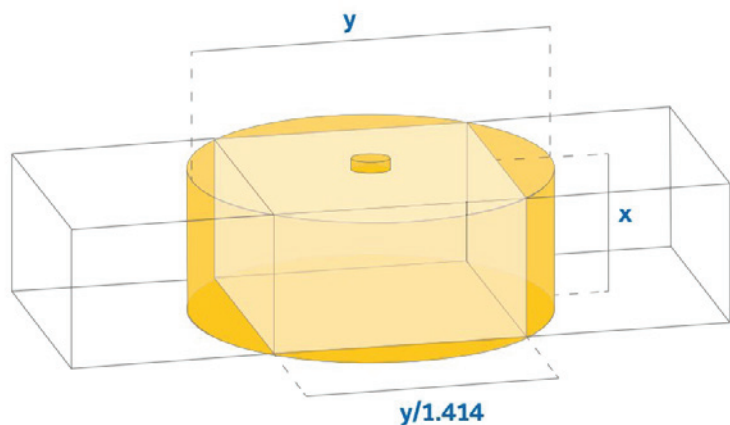
W – (x) - (y)

W = wall mounted

x = maximum mounting height

y = length and width in metres of the cubic volume covered (to a minimum level of 0.4 lux) when the device is mounted to the wall at a height of x

Ceiling Category



Coverage volume code:

C – (x) - (y)

C = wall mounted

x = maximum mounting height

y = diameter in metres of the cylindrical volume covered (to a minimum level of 0.4 lux) when the device is mounted to the ceiling at a height of x

Open Class Category

The coverage volume and its shape are specified by the manufacturer and include mounting position and orientation alongside any restriction on the mounting height.