

## VECTOR SOUNDER (NZS4512)

A conventional audible warning device

### Description

The VECTOR sounder is housed in a white ABS casing and outputs New Zealand standard NZS4512 tones of 91dB @ 1 metre.

In a two (2) wire configuration, the installer may select by way of a link continuous;

1. ALERT tones or
2. EVACUATION tones or
3. automatic timed changeover ( either 60 or 90 seconds ) from ALERT to EVACUATION tones.

The three (3) wire configuration offers the installer control to activate either ALERT or EVACUATION tones from a Fire Alarm Control Panel or similar control system.



**Vector sounder with optional lid shown**

### Features

- NZS4512 – tone only
- Low current consumption
- Volume control adjustment
- Built-in synchronising circuitry with sounders on the same circuit
- Can be installed as a sounder base for Apollo detectors or a surface mount sounder when used in conjunction with the optional lid
- Low profile
- Available as standard with an XP95 universal base fitted (complete with opto - interface board) so the sounder can be controlled via the remote LED output of the XP95 detector



**Sounder with Lid removed**

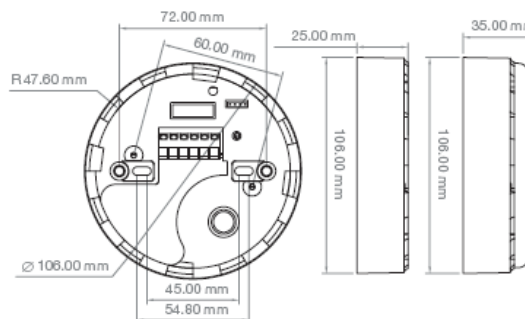
### Technical

**2 Wire** - In a two (2) wire configuration a switched -ve 24VDC will activate the sounder. The type of tone the VECTOR delivers is dependant on where the switch wire is terminated. If the installer cables for the ALERT tone to be sounded the on-board link can be set so there will be an automatic changeover to EVACUATION after the time out.

The changeover time out can be either 60 seconds or 90 seconds, depending on the link option selected as clearly marked on the sounder.

**3 Wire** - In a three (3) wire configuration, the output tone is dependant on which switch wire is active at the time. The switch wire of the EVACUATION tone overrides the ALERT.

The output volume can be adjusted to suit the environment. If adjusted care should be taken not to reduce the volume level below that required by any standards that may apply to that environment and / or consideration should be given to any variation of day / night background noise that may apply.



**Sounder Dimensions**

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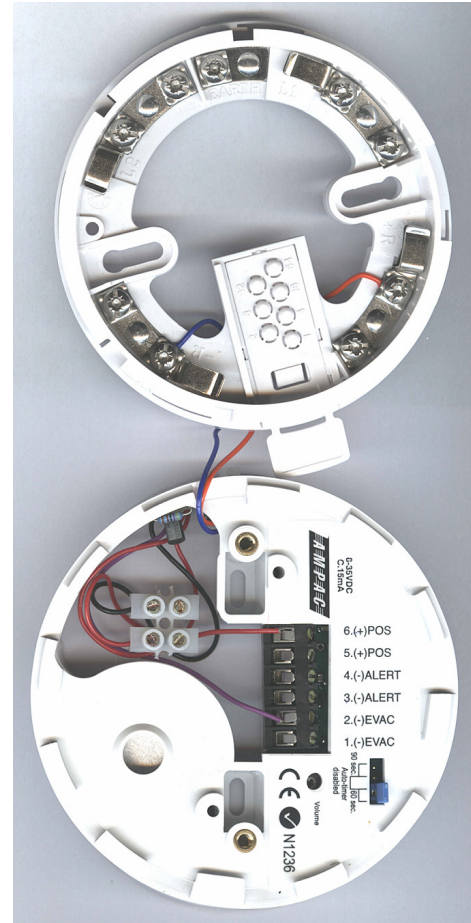
PDS205-0011

### Specification

<b>Operating voltage</b>	8 to 35 VDC
<b>Supply current Evac</b>	15mA @ 24VDC
<b>Supply current Alert</b>	8 mA @ 24VDC
<b>Tone output</b>	NZS4512 – tone only
<b>Max. Output level Evac</b>	90 dBA @ 1 metre with detector
	93 dBA @ 1 metre with lid
<b>Volume control</b>	-30dBA (ie 91/94 – 30dBA)
<b>IP rating</b>	IP42
<b>Temperature range</b>	-20 to + 70°C
<b>Construction</b>	ABS
<b>Dimension (mm)</b>	106Ø x 35h (Sounder & lid only)

### Order Code

205-0011	Vector Sounder White
205-0017	Vector Sounder Lid only
205-0060	Vector Sounder complete with XP95 Universal Base



**Sounder and XP95 Base Configuration**

**VECTOR SOUNDER**  
205-0011 (WHITE)

<p><b>AUTOMATIC ALERT TO EVAC CHANGEOVER 2 WIRE SYSTEM</b></p> <p>Connect the +VE to term 5 or 6 alert to Evac connect -VE to term 3 or 4 Changeover times are selected by using the pin-header as illustrated</p> <p>Evac Only -VE to term 1 or 2</p>	<p><b>PANEL CONTROLLED ALERT TO EVAC CHANGEOVER 3 WIRE SYSTEM</b></p> <p>Connect the +VE to term 5 or 6 Alert connect -VE to term 3 or 4 Evac connect -VE to term 1 or 2</p> <p><b>NOTE:</b> Set pin-header to Auto-Timer Disabled</p>
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Supply Voltage: 8-35VDC

Supply Current 15mA (Evac) 8mA (Alert)

Sound Output: 90dB @ 1m (Evac) 27.6v  
86dB @ 1m (Alert) 27.6v

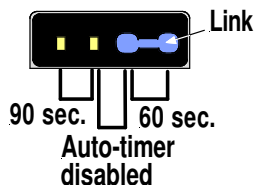
Factory timer setting = 60sec

Rating: IP42

N1236

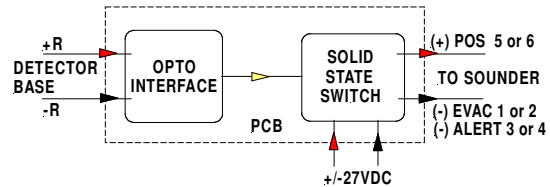
Conforms to NZS4512

### Installation Instructions



### Automatic Timer Settings

- When used in the above configuration the sounder is;
- by default a two (2) wire setup
  - normally externally powered ( Note the 2 way terminal block in the above diagram (red +VE and black -VE)
  - activated by way of setting the remote LED (REM LED) for the detector in *ConfigManager* to yes (Y)



**Block Diagram of the Opto Interface & Switching PCB**