6000/SSR/VAD Addressable Wall Mounted Sounder VAD

- **LED Technology for Long Service Life**

- **Quick and Simple to Install**

- **FAST™ Addressing**

- **Loop Powered and Integral Short Circuit Isolator**

- **High Output Electronic Sounder**

- **2.4 metres (m) Mounting Height**

- **Adjustable 7m to 5m or 3m Room Coverage Volume**

- **Approved to EN54 Part 3, 17 & 23**

EN54-23

The Protec 6000/SSR/VAD is a loop driven, addressable high intensity Visual Alarm Device (VAD) with up to 7m x 7m room coverage and a high output electronic sounder with up to 100dB(A) at 1m. Combining the two functions in one compact high efficiency design improves the aesthetic appearance and simplifies the installation of the device.

By utilising the Protec Algo-Tec™ 6000 protocol, the 6000/SSR/VAD offers best in class performance in terms of flexibility, power consumption, sound output and visual indication.

The device is categorised for installation at a height of up to 2.4m and coverage of 7m x 7m adjustable down to 5m or 3m for smaller room coverage. Similarly the tone and volume options are also selectable by the control panel.

The product has a unique lens that distributes the light in a cuboid shape to achieve the required illumination of 0.4lux over the entire area in accordance with EN54 Part 23.

The design is based on LED technology for long life, reliability and low power consumption.

The 6000/SSR/VAD has a Type B (IP33C) + IP65 rating making the product suitable for mounting internally or externally.

Compliant with DDA legislation, this high intensity VAD warns those with hearing impairments or in noisy environments.
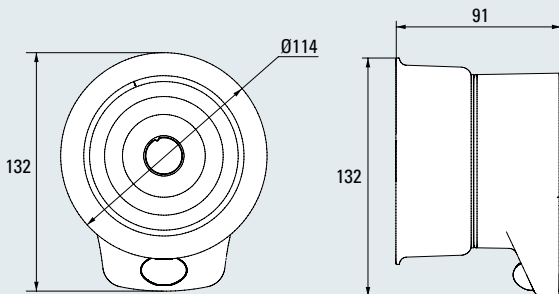
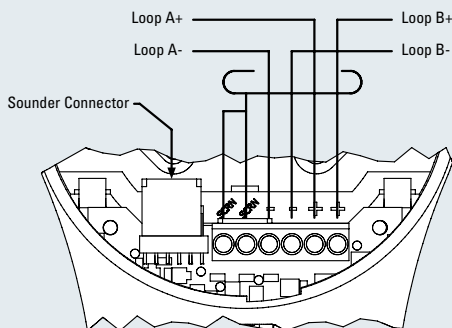**Order Codes**
6000/SSR/VAD
6000/SSW/VAD

Technical Specification

CE

Independently tested
Intertek

15LHK0960-01

Dimensions (mm)

Ø114

132

91

132

Wiring Diagram

Loop A+   Loop B+
Loop A-   Loop B-

Sounder Connector

Technical Specification

Environment	-10 to 50ºC, 95% R.H (non condensation or icing)
Ingress Protection	Type B (IP33C) + IP65
Weight	315g
Loop Powered	Yes
Voltage	18 - 28V
Loop Standby Load	0.7mA
Peak Loop Alarm Load	24mA
Mounting Height (x)	2.4 metres
Coverage(y)	7m adjustable to 5m or 3m
Coverage Volume Code	W-2.4-7 (117.6m³)
Flash Rate	0.5Hz white flash
Mounting	Wall
Isolator	Yes
Relevant Standard	EN54 Part 3, 17 & 23

Design Guidance

Protec VAD's have been approved to BS EN 54-23 and use the rating codes below:

W-x-y (eg W-2.4-7)
Where:
W is wall mounted
x is the maximum height (M)
y is the horizontal distance of the square voume covered (Length x Width) (M)

BS EN 54-23 approved VAD's are approved as wall mounted and must provide a minimum illumination level of 0.4 lux for the stated volume.

Table A: Direct Viewing
Coverage volumes for various ambient light levels (lux)

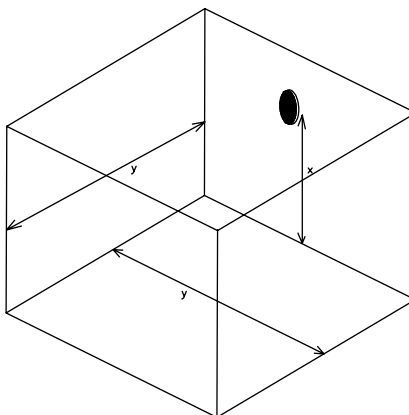| BS EN54-23 Rating	W-2.4-7
Mounting Position	Wall
Less than 100 lux	36.4m x 36.4m
100 - 200 lux	30.8m x 30.8m
200 - 300 lux	22.4m x 22.4m
300 - 400 lux	16.1m x 16.1m
400 - 500 lux	12.6m x 12.6m
500 - 600 lux	9.1m x 9.1m
600 - 700 lux	7m x 7m
700 - 800 lux	4.9m x 4.9m

Table B: Indirect Viewing
Coverage volumes for various ambient light levels (lux)

BS EN54-23 Rating	W-2.4-7
Mounting Position	Wall
Less than 100 lux	12.6m x 12.6m
100 - 200 lux	11.9m x 11.9m
200 - 300 lux	9.8m x 9.8m
300 - 400 lux	8.4m x 8.4m
400 - 500 lux	7m x 7m
500 - 600 lux	6.3m x 6.3m
600 - 700 lux	*
700 - 800 lux	*

Coverage volumes height, diameter length and width dimensions are in metres.
* Where ambient light levels may, at any time, exceed 600 lux, direct viewing is preferred (CoP 001 clause 4.6.9.4)

Tone Options
Warble Tone: 990Hz(250ms), 665Hz(250ms)
Continuous Tone: 990Hz
Pulse Tone: 990Hz(500ms), Silence(500ms)

Tone Volume Options
The tone and volume are selectable at the control panel (measured at one metre):
High: 100dB(A), Mid: 95dB(A), Low: 75dB(A)

y   x   y