

# SON4L Alarm Sounder & L.E.D. Beacon

The SON4L is a compact, high output, 100dB(A) alarm sounder with integral L.E.D. array beacon. The robust fire retardant housing ensures the SON4L is suitable for all general signalling applications including fire, security and process control.

## Features:

- Automatic synchronisation on multi-sounder system.
- Continuously rated.
- Stainless steel fixings.
- Unit can be mounted using external lugs (on AC versions) or internal BESA compatible fixing positions.
- Duplicate cable terminations (in & out for daisy-chain installations).
- Tropicalisation available on request.
- Available with custom tone configurations and frequencies.

## Approvals:

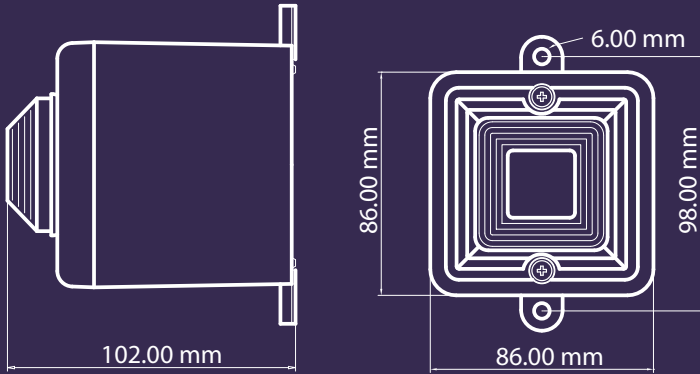
- VdS approved to EN54-3 (CPD 89/106/EEC).
- UKOOA/PFEER compliant alarm tones.
- GOST-R approved. Cert: POCC GB-JB05-B02228

## Part codes:

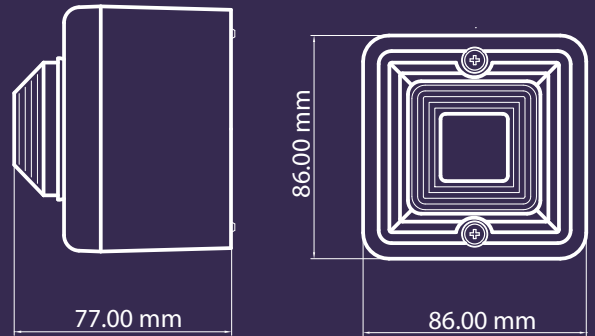
Version:	Part code:
12V dc	SON4LDC12[x]/[y]
24V dc	SON4LDC24[x]/[y]
48V dc	SON4LDC48[x]/[y]
24V ac	SON4LAC24[x]/[y]
115V ac	SON4LAC115[x]/[y]
230V ac	SON4LAC230[x]/[y]
[x] = Housing colour:	G: Grey R: Red W: White
[y] = Lens colour:	A: Amber, R: Red



AC Version



DC Version



**Specification:**

**Sounder:**

Maximum output:	100dB(A) @ 1 metre
Nominal output:	99dB(A) @ 1m +/- 3dB - Tone 1
No. of tones:	10 (UKOOA / PFEER compliant)
No. of stages:	3
Volume control:	On board potentiometer
Effective range:	30m @ 1KHz
Stage switching:	Negative

**Beacon:**

Light source:	5 x high intensity L.E.D. array
Flash rate:	2 Hz
Peak Candela:	23.56 cd
Effective Intensity cd:	3 cd*
Lens / L.E.D. colours:	Amber & Red

**General:**

Voltages DC:	12V dc; 24V dc; 48V dc Reverse polarity diode protection on DC units.
Voltages AC:	24V ac; 115V ac; 230V ac
Ingress protection:	IP66
Housing material:	High impact UL94 V0 & 5VA FR ABS
Colour:	Red (RAL3000), grey (RAL7038) & white.
Lens material:	PC
Cable entries:	4 x M20 clearance gland knockouts in side & back
Terminals:	0.5 to 1.5mm <sup>2</sup> cables.
Operating temperature:	-25 to +55°C
Storage temperature:	-40 to +70°C
Relative humidity:	90% at 20°C.
Weight :	DC: 0.30kg AC:0.40kg

\*SPL data +/-3dB(A). Measured at optimum voltage.

\*Candela measurements representative of performance with amber lens at optimum voltage.

**Alarm sander & L.E.D. beacon:**

Version:	Voltage range:	Current mA:
12V dc	+/-25%	50mA
24V dc	+/-25%	50mA
48V dc	+/-25%	40mA
24V ac	50/60Hz +/-10%	60mA
115V ac	50/60Hz +/-10%	25mA
230V ac	50/60Hz +/-10%	20mA

**Tone table:**

Stage 1	Frequency Description	dB @ 1m	Stage 2	Stage 3
Tone 1	800/1000Hz @ 0.25 sec Alternating - BS5839 Alarm tone	99dB(A) @ 1m	Tone 8	Tone 5
Tone 2	500/1200Hz @ 0.3Hz 0.5 sec. Slow Whoop - NEN 2575:2000	100dB(A) @ 1m	Tone 1	Tone 8
Tone 3	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	99dB(A) @ 1m	Tone 1	Tone 8
Tone 4	544Hz (100mS)/440Hz (400mS) - AFNOR NF S 32-001	97dB(A) @ 1m	554Hz	Tone 2
Tone 5	1000Hz Continuous - PFEER toxic gas	100dB(A) @ 1m	Tone 1	Tone 6
Tone 6	Bell	95dB(A) @ 1m	Tone 1	Tone 8
Tone 7	800/1000Hz @ 7Hz Sweeping	99dB(A) @ 1m	Tone 5	Tone 1
Tone 8	2400/2900Hz @ 50Hz Sweeping	100dB(A) @ 1m	Tone 5	Tone 1
Tone 9	420Hz @ 0.625 sec Australian Alert	97dB(A) @ 1m	Tone10	Tone 5
Tone 10	500-1200Hz 3.75sec /0.25sec. Australian Evac.	100dB(A) @ 1m	Tone 6	Tone 5

Country specific or custom tone configurations and alarm frequencies are available upon request.