

# SON4 Alarm Sounder & Xenon Beacon

The SON4 is a compact, high output, 104dB(A) alarm sounder with integral Xenon strobe beacon. The robust fire retardant housing ensures the SON4 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 or internal BESA compatible fixing positions.
- Duplicate cable terminations (in & out for daisy-chain installations).
- Wire to base installation
- Tropicalisation available on request.
- Available with custom tone configurations and frequencies.

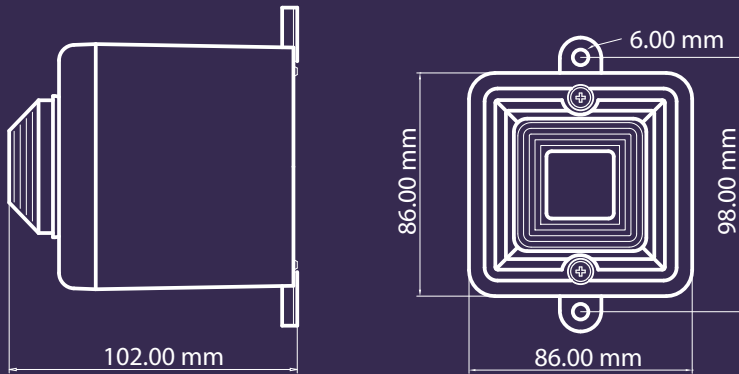
## Approvals:

- 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:
24V dc	SON4DC24[x]/[y]
24V ac	SON4AC24[x]/[y]
115V ac	SON4AC115[x]/[y]
230V ac	SON4AC230[x]/[y]
[x] = Housing colour:	G: Grey R: Red W: White
[y] = Lens colour:	A: Amber, B: Blue. G: Green, R: Red, Y: Yellow





### Specification:

#### Sounder:

Maximum output:	104dB(A) @ 1 metre
Nominal output:	100dB(A) @ 1m +/- 3dB - Tone 2
No. of tones:	32 (UK00A / PFEER compliant)
No. of stages:	3
Volume control:	3 levels via on board switch
Effective range:	32m @ 1KHz
Stage switching:	Reverse polarity stage switching on DC units.

#### Beacon:

Energy:	0.5 Joules
Flash rate:	1 Hz (60fpm)
Peak Candela:	5,038 cd
Effective Intensity cd:	11 cd*
Lens colours:	Amber, Blue & Red

#### General:

Voltages DC:	24V dc (18-30V dc)
Reverse polarity diode protection on DC units.	
Voltages AC:	24V ac; 115V ac; 230V ac
Ingress protection:	IP55
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

### Alarm sander & Xenon beacon:

#### Version:

Version:	Voltage range:	Current mA:
24V dc	18-30V dc	80-110mA
24V ac	50/60Hz +/-10%	90-135mA
115V ac	50/60Hz +/-10%	35mA
230V ac	50/60Hz +/-10%	20mA

#### Tone table:

Stage 1	Frequency Description	dB @ 1m	Stage 2	Stage 3
Tone 1	340 Hz Continuous	93dB(A) @ 1m	Tone 2	Tone 5
Tone 2	800/1000Hz @ 0.25 sec Alternating - BS5839 Alarm tone	101dB(A) @ 1m	Tone 17	Tone 5
Tone 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop - NEN 2575:2000	101dB(A) @ 1m	Tone 2	Tone 5
Tone 4	800/1000Hz @ 1Hz Sweeping	101dB(A) @ 1m	Tone 6	Tone 5
Tone 5	2400Hz Continuous	103dB(A) @ 1m	Tone 3	Tone 26
Tone 6	2400/2900Hz @ 7Hz Sweeping	100dB(A) @ 1m	Tone 7	Tone 5
Tone 7	2400/2900Hz @ 1Hz Sweeping	101dB(A) @ 1m	Tone 10	Tone 5
Tone 8	500/1200/500Hz @ 0.3Hz Sweeping	100dB(A) @ 1m	Tone 2	Tone 5
Tone 9	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	101dB(A) @ 1m	Tone 15	Tone 2
Tone 10	2400/2900Hz @ 2Hz Alternating	104dB(A) @ 1m	Tone 7	Tone 5
Tone 11	1000Hz @ 1Hz Intermittent	101dB(A) @ 1m	Tone 2	Tone 5
Tone 12	800/1000Hz @ 0.875Hz Alternating	101dB(A) @ 1m	Tone 4	Tone 5
Tone 13	2400Hz @ 1Hz Intermittent	103dB(A) @ 1m	Tone 15	Tone 5
Tone 14	800Hz 0.25sec on, 1 sec off Intermittent	103dB(A) @ 1m	Tone 4	Tone 5
Tone 15	800Hz Continuous	103dB(A) @ 1m	Tone 2	Tone 5
Tone 16	660Hz 150mS on, 150mS off Intermittent	96dB(A) @ 1m	Tone 18	Tone 5
Tone 17	544Hz (100mS)/440Hz (400mS) - AFNOR NF S 32-001	100dB(A) @ 1m	Tone 2	Tone 27
Tone 18	660Hz 1.8sec on, 1.8sec off Intermittent	96dB(A) @ 1m	Tone 2	Tone 5
Tone 19	1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s - AFNOR NFC48-265	98dB(A) @ 1m	Tone 2	Tone 5
Tone 20	660Hz Continuous	96dB(A) @ 1m	Tone 2	Tone 5
Tone 21	554Hz/440Hz @ 1Hz Alternating	100dB(A) @ 1m	Tone 2	Tone 5
Tone 22	544Hz @ 0.875 sec. Intermittent	100dB(A) @ 1m	Tone 2	Tone 5
Tone 23	800Hz @ 2Hz Intermittent	97dB(A) @ 1m	Tone 6	Tone 5
Tone 24	800/1000Hz @ 50Hz Sweeping	101dB(A) @ 1m	Tone 29	Tone 5
Tone 25	2400/2900Hz @ 50Hz Sweeping	101dB(A) @ 1m	Tone 29	Tone 5
Tone 26	Bell	97dB(A) @ 1m	Tone 2	Tone 15
Tone 27	554Hz Continuous	100dB(A) @ 1m	Tone 26	Tone 5
Tone 28	440Hz Continuous	97dB(A) @ 1m	Tone 2	Tone 5
Tone 29	800/1000Hz @ 7Hz Sweeping	101dB(A) @ 1m	Tone 7	Tone 5
Tone 30	420Hz @ 0.625 sec Australian Alert	91dB(A) @ 1m	Tone 32	Tone 26
Tone 31	660/1200Hz @ 1Hz Sweeping	101dB(A) @ 1m	Tone 26	Tone 5
Tone 32	500-1200Hz 3.75sec /0.25sec. Australian Evac.	100dB(A) @ 1m	Tone 30	Tone 26

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

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

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