

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:

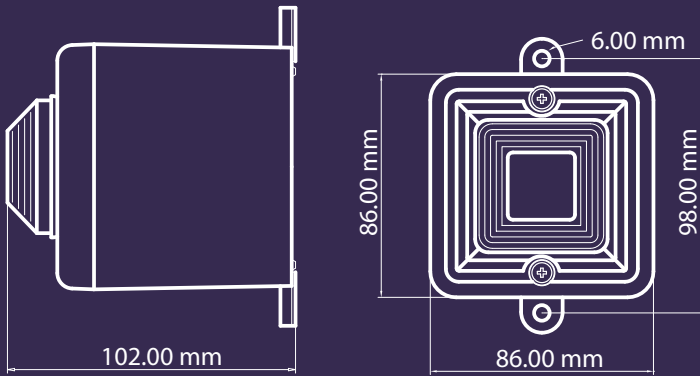
- VdS approved to EN54-3 (CPD 89/106/EEC).
- UKOOA/PFEER compliant alarm tones.
- GOST-R approved. Cert: POCC GB-JB05-B02228

Part codes:

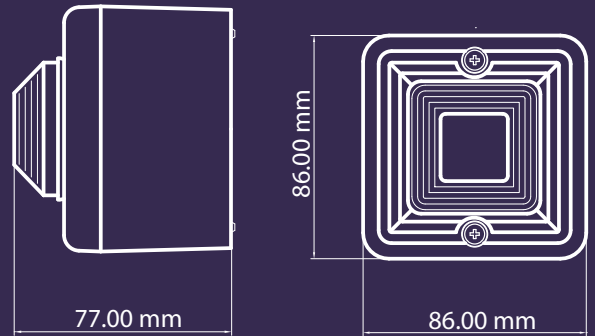
| Version: | Part code: |
|-----------------------|-------------------------|
| 12V dc | SON4LDC12[x]/[y] |
| 24V dc | SON4LDC24[x]/[y] |
| 48V dc | SON4LDC48[x]/[y] |
| 24V ac | SON4LAC24[x]/[y] |
| 115V ac | SON4LAC115[x]/[y] |
| 230V ac | SON4LAC230[x]/[y] |
| [x] = Housing colour: | G: Grey R: Red 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: | IP55 (IP56 with optional WR kit) |
| 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 ² 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 & 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.

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

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