

# 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 suitability for all general signalling applications including fire, security and process control.

The SON4 features 32 alarm tone frequencies and a total of 3 remotely selectable alarm stages/channels. The wire to base termination simplifies installation and provides duplicated terminals. CPR compliant to EN54-3 and VdS approved.

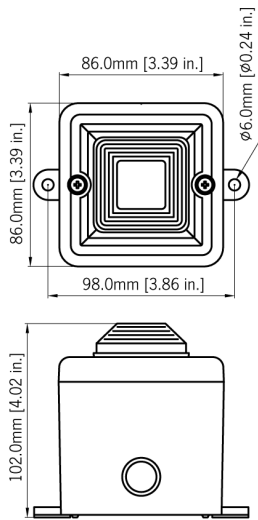
## Features

- 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: EN54-3 (CPD 89/106/EEC).
- GOST-R approved. Cert: POCC GB-JB05-H00144.





## Specification

### Sounder:

Maximum output: 104dB(A) @ 1 metre [95dB(A) @ 10ft/3m]

Nominal output: 100dB(A) @ 1m +/- 3dB - Tone 2 [91dB(A) @ 10ft/3m]

No. of tones: 32 (UK00A / PFEER compliant)

No. of stages: 3

Volume control: 3 levels via on board switch

Effective range: 32m/105ft @ 1KHz

Stage switching: Reverse polarity stage switching on DC units.

### Beacon:

Energy: 0.5 Joules

Flash rate: 1 Hz (60fpm)

Peak Candela: 50,000 cd - calculated from energy (J)

Effective Intensity cd: 25 cd - calculated from energy (J)

Peak Candela: 5,038 cd\* - measured ref. to I.E.S.

Effective Intensity cd: 11 cd\* - measured ref. to I.E.S.

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: 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 temp: -25 to +55°C [-13° to +131°F]

Storage temp: -40 to +70°C [-40° to +158°F]

Relative humidity: 90% at 20°C [68°F]

Weight: DC: 0.30kg/0.66lbs AC:0.40kg/0.88lbs

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

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

## 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] = Enclosure colour: G: Grey (RAL7038)  
R: Red (RAL3000)  
W: White

[y] = Lens colour: A: Amber  
B: Blue  
R: Red

## Alarm Sounder

Version: Voltage: Current:

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

| <b>S 1</b> | <b>Description</b>                              | <b>S 2</b> | <b>S 3</b> |
|------------|---|------------|------------|
| T 1        | 340 Hz Continuous                               | T 2        | T 5        |
| T 2        | 800/1000Hz @ 0.25 sec Alternating               | T 17       | T 5        |
| T 3        | 500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop           | T 2        | T 5        |
| T 4        | 800/1000Hz @ 1Hz Sweeping                       | T 6        | T 5        |
| T 5        | 2400Hz Continuous                               | T 3        | T 26       |
| T 6        | 2400/2900Hz @ 7Hz Sweeping                      | T 7        | T 5        |
| T 7        | 2400/2900Hz @ 1Hz Sweeping                      | T 10       | T 5        |
| T 8        | 500/1200/500Hz @ 0.3Hz Sweeping                 | T 2        | T 5        |
| T 9        | 1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.         | T 15       | T 2        |
| T 10       | 2400/2900Hz @ 2Hz Alternating                   | T 7        | T 5        |
| T 11       | 1000Hz @ 1Hz Intermittent                       | T 2        | T 5        |
| T 12       | 800/1000Hz @ 0.875Hz Alternating                | T 4        | T 5        |
| T 13       | 2400Hz @ 1Hz Intermittent                       | T 15       | T 5        |
| T 14       | 800Hz 0.25sec on, 1 sec off Intermittent        | T 4        | T 5        |
| T 15       | 800Hz Continuous                                | T 2        | T 5        |
| T 16       | 660Hz 150mS on, 150mS off Intermittent          | T 18       | T 5        |
| T 17       | 544Hz (100mS)/440Hz (400mS) - NF S 32-001       | T 2        | T 27       |
| T 18       | 660Hz 1.8sec on, 1.8sec off Intermittent        | T 2        | T 5        |
| T 19       | 1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s -NFC48-265 | T 2        | T 5        |
| T 20       | 660Hz Continuous                                | T 2        | T 5        |
| T 21       | 554Hz/440Hz @ 1Hz Alternating                   | T 2        | T 5        |
| T 22       | 544Hz @ 0.875 sec. Intermittent                 | T 2        | T 5        |
| T 23       | 800Hz @ 2Hz Intermittent                        | T 6        | T 5        |
| T 24       | 800/1000Hz @ 50Hz Sweeping                      | T 29       | T 5        |
| T 25       | 2400/2900Hz @ 50Hz Sweeping                     | T 29       | T 5        |
| T 26       | Bell  | T 2        | T 15       |
| T 27       | 554Hz Continuous                                | T 26       | T 5        |
| T 28       | 440Hz Continuous                                | T 2        | T 5        |
| T 29       | 800/1000Hz @ 7Hz Sweeping                       | T 7        | T 5        |
| T 30       | 420Hz @ 0.625 sec Australian Alert              | T 32       | T 26       |
| T 31       | 660/1200Hz @ 1Hz Sweeping                       | T 26       | T 5        |
| T 32       | 500-1200Hz 3.75sec /0.25sec. Australian Evac.   | T 30       | T 26       |