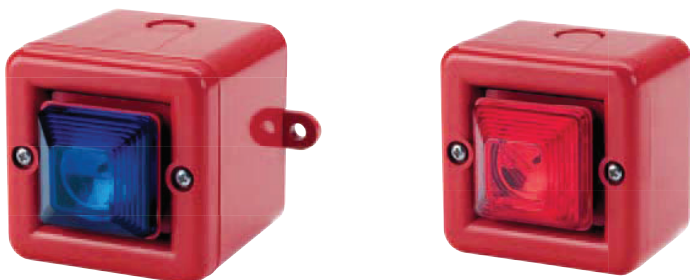


SON4



- Electronic sounder with xenon or LED beacon
- 10 tones (LED) or 32 tones (xenon), includes ISO tones to Australian Standards
- Automatic synchronization on multi-sounder systems**
- Volume control (3 volume levels on xenon version)
- Three stage alarm (reverse polarity stage switching on DC units)
- Available in red or white housing
- IP66



Order Code	Housing Colour	Voltage	Current
SON4 – with xenon beacon			
ESS0040R*X	Red	18-30VDC	80-110mA
ESS0040W*X	White		
ESS0042R*X	Red	115VAC ±10%	35mA
ESS0042W*X	White		
ESS0043R*X	Red	230VAC ±10%	20mA
ESS0043W*X	White		

*Specify colour A = Amber, B = Blue, G = Green, R = Red

SON4L – with H LED beacon			
ESS0045LR*	Red	24VDC ±25%	50mA
ESS0045LW*	White		
ESS0046LR*	Red	115VAC ±10%	25mA
ESS0046LW*	White		
ESS0048LR*	Red	230VAC ±10%	20mA
ESS0048LW*	White		

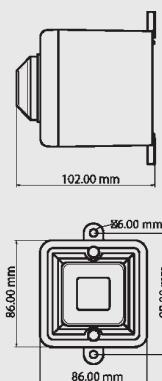
*Specify colour A = Amber, R = Red

**Synchronization requires sounders to be connected to the same power supply

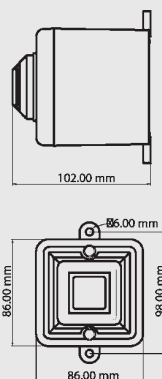
Specifications:

Sound output:	SON4L 100dB @ 1m SON4 104dB @ 1m
Sound frequency:	LED 10 tones see tone list on page 308 Xenon 32 tones see tone list on page 307
Light output:	LED 3cd(e) Xenon 11cd(e)
Flash rate:	LED 120fpm Xenon 60fpm
Protection:	IP66
Temp rating (°C):	-25 to +55
Cable entry:	4 x M20 knockouts
Rating:	Continuous
Construction:	Flame Retardant ABS
Weight:	0.30kg (DC), 0.40kg (AC)

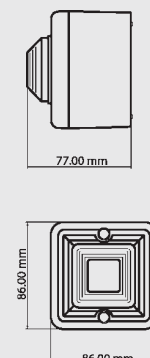
SON 4



SON 4B-4L AC



SON 4B-4L DC





SONF1 DC Tones (SONFL1)

Stage 1	Description	Sound Output db@1m	Stage 2
Tone 1	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop	99dB	Tone 8
Tone 2	Slow whoop 500/1200Hz at 0.3Hz with 0.5 second gap repeated	100dB	Tone 1
Tone 3	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P	99dB	Tone 8
Tone 4	AS2220: 420Hz repeating 0.625 sec on, 0.625 sec off.	97dB	Tone 9
Tone 5	Bell	95dB	Tone 1
Tone 6	800/1000Hz @ 7Hz Sweeping	99dB	Tone 8
Tone 7	AS1670: 500-1200Hz Sweeping 2 sec on 1 sec off	100dB	Tone10
Tone 8	1000Hz Continuous - PFEER Toxic Gas.	100dB	-
Tone 9	AS2220: 500-1200Hz Sweeping 3.75 sec on 0.25 sec off (15 cycles/min)	100dB	-
Tone 10	AS1670: 1500-500Hz 0.5 sec on 0.5 sec off x 3 with 1.5 sec gap	100dB	-

SONF1 AC Tones (SONFL1)

Stage 1	Description	Sound Output db@1m	Stage 2
Tone 1	800/1000Hz @ 0.25 sec Alternating	99dB	-
Tone 2	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop	100dB	-
Tone 3	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	99dB	-
Tone 4	AS1670: 1500-500Hz 0.5 sec on 0.5 sec off x 3 with 1.5 sec gap	100dB	-
Tone 5	1000Hz Continuous - PFEER Toxic Gas	100dB	-
Tone 6	Bell	95dB	-
Tone 7	AS1670: 500-1200Hz Sweeping 2 sec on 1 sec off	100dB	-
Tone 8	2400/2900Hz @ 50Hz Sweeping	100dB	-
Tone 9	AS2220: 420Hz repeating 0.625 sec on, 0.625 sec off.	97dB	-
Tone 10	AS2220: 500-1200Hz Sweeping 3.75 sec on 0.25 sec off (15 cycles/min)	100dB	-

SON2 -SON4 xenon Tones

Stage 1	Description	Sound Output db@1m	Stage 2	Stage 3
Tone 1	340 Hz Continuous	93dB	Tone 2	Tone 5
Tone 2	800/1000Hz @ 0.25 sec Alternating	101dB	Tone 17	Tone 5
Tone 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop	101dB	Tone 2	Tone 5
Tone 4	800/1000Hz @ 1Hz Sweeping	101dB	Tone 6	Tone 5
Tone 5	2400Hz Continuous	103dB	Tone 3	Tone 26
Tone 6	2400/2900Hz @ 7Hz Sweeping	100dB	Tone 7	Tone 5
Tone 7	2400/2900Hz @ 1Hz Sweeping	101dB	Tone 10	Tone 5
Tone 8	500/1200/500Hz @ 0.3Hz Sweeping	100dB	Tone 2	Tone 5
Tone 9	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	101dB	Tone 15	Tone 2
Tone 10	2400/2900Hz @ 2Hz Alternating	104dB	Tone 7	Tone 5
Tone 11	1000Hz @ 1Hz Intermittent	101dB	Tone 2	Tone 5
Tone 12	800/1000Hz @ 0.875Hz Alternating	101dB	Tone 4	Tone 5
Tone 13	2400Hz @ 1Hz Intermittent	103dB	Tone 15	Tone 5
Tone 14	800Hz 0.25sec on, 1 sec off Intermittent	103dB	Tone 4	Tone 5
Tone 15	800Hz Continuous	103dB	Tone 2	Tone 5
Tone 16	AS2220: 420Hz repeating 0.625 sec on, 0.625 sec off.	91dB	Tone 18	Tone 5
Tone 17	544Hz (100mS)/440Hz (400mS) - NF S 32-001	100dB	Tone 2	Tone 27
Tone 18	AS2220: 500-1200Hz Sweeping 3.75 sec on 0.25 sec off (15 cycles/min)	100dB	Tone 16	Tone 5
Tone 19	1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s -NFC48-265	98dB	Tone 2	Tone 5
Tone 20	660Hz Continuous	96dB	Tone 2	Tone 5
Tone 21	554Hz/440Hz @ 1Hz Alternating	100dB	Tone 2	Tone 5
Tone 22	544Hz @ 0.875 sec. Intermittent	100dB	Tone 2	Tone 5
Tone 23	800Hz @ 2Hz Intermittent	97dB	Tone 6	Tone 5
Tone 24	800/1000Hz @ 50Hz Sweeping	101dB	Tone 29	Tone 5
Tone 25	2400/2900Hz @ 50Hz Sweeping	101dB	Tone 29	Tone 5
Tone 26	1000Hz @ 1Hz Intermittent	101dB	Tone 5	Tone 15
Tone 27	554Hz Continuous	101dB	Tone 26	Tone 5
Tone 28	440Hz Continuous	97dB	Tone 2	Tone 5
Tone 29	800/1000Hz @ 7Hz Sweeping	101dB	Tone 7	Tone 5
Tone 30	AS1670: 1500-500Hz 0.5 sec on 0.5 sec off x 3 with 1.5 sec gap	100dB	Tone 32	Tone 26
Tone 31	660/1200Hz @ 1Hz Sweeping	101dB	Tone 26	Tone 5
Tone 32	AS1670: 500-1200Hz Sweeping 2 sec on 1 sec off	100dB	Tone 30	Tone 26

SON4L LED Tones

Stage 1	Description	Sound Output db@1m	Stage 2	Stage 3
Tone 1	800/1000Hz @ 0.25 sec Alternating	99dB	Tone 8	Tone 5
Tone 2	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop	100dB	Tone 1	Tone 8
Tone 3	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	99dB	Tone 1	Tone 8
Tone 4	AS1670: 1500-500Hz 0.5 sec on 0.5 sec off x 3 with 1.5 sec gap	100dB	Tone 7	Tone 2
Tone 5	1000Hz Continuous - PFEER Toxic Gas	100dB	Tone 1	Tone 6
Tone 6	Bell	95dB	Tone 1	Tone 8
Tone 7	AS1670: 500-1200Hz Sweeping 2 sec on 1 sec off	100dB	Tone 4	Tone 1
Tone 8	2400/2900Hz @ 50Hz Sweeping	100dB	Tone 5	Tone 1
Tone 9	AS2220: 420Hz repeating 0.625 sec on, 0.625 sec off.	97dB	Tone 10	Tone 5
Tone 10	AS2220: 500-1200Hz Sweeping 3.75 sec on 0.25 sec off (15 cycles/min)	100dB	Tone 6	Tone 5

A100-A105N Tones

Tone 1	340 Hz Continuous	93/102dB	Tone 2	Tone 5
Tone 2	800/1000Hz @ 0.25 sec Alternating	101/106dB	Tone 17	Tone 5
Tone 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop	101/106B	Tone 2	Tone 5
Tone 4	800/1000Hz @ 1Hz Sweeping	101/106dB	Tone 6	Tone 5
Tone 5	2400Hz Continuous	103/112dB	Tone 3	Tone 20
Tone 6	2400/2900Hz @ 7Hz Sweeping	100/108dB	Tone 7	Tone 5
Tone 7	2400/2900Hz @ 1Hz Sweeping	101/108dB	Tone 10	Tone 5
Tone 8	500/1200/500Hz @ 0.3Hz Sweeping	100/106dB	Tone 2	Tone 5
Tone 9	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	101/106dB	Tone 15	Tone 2
Tone 10	2400/2900Hz @ 2Hz Alternating	104/110dB	Tone 7	Tone 5
Tone 11	1000Hz @ 1Hz Intermittent	101/106dB	Tone 2	Tone 5
Tone 12	800/1000Hz @ 0.875Hz Alternating	101/106dB	Tone 4	Tone 5
Tone 13	2400Hz @ 1Hz Intermittent	103/112dB	Tone 15	Tone 5
Tone 14	800Hz 0.25sec on, 1 sec off Intermittent	103/108dB	Tone 4	Tone 5
Tone 15	800Hz Continuous	103/108dB	Tone 2	Tone 5
Tone 16	AS2220: 420Hz repeating 0.625 sec on, 0.625 sec off.	91/103dB	Tone 18	Tone 5
Tone 17	544Hz (100mS)/440Hz (400mS) - NF S 32-001	100/104dB	Tone 2	Tone 27
Tone 18	AS2220: 500-1200Hz Sweeping 3.75 sec on 0.25 sec off (15 cycles/min)	100/106dB	Tone 16	Tone 5
Tone 19	1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s -NFC48-265	98/106dB	Tone 2	Tone 5
Tone 20	660Hz Continuous	96/104dB	Tone 2	Tone 5
Tone 21	554Hz/440Hz @ 1Hz Alternating	100/104dB	Tone 2	Tone 5
Tone 22	544Hz @ 0.875 sec. Intermittent	100/104dB	Tone 2	Tone 5
Tone 23	800Hz @ 2Hz Intermittent	97/108dB	Tone 6	Tone 5
Tone 24	800/1000Hz @ 50Hz Sweeping	101/108dB	Tone 29	Tone 5
Tone 25	2400/2900Hz @ 50Hz Sweeping	101/108dB	Tone 29	Tone 5
Tone 26	1000Hz @ 1Hz Intermittent	101/106dB	Tone 5	Tone 15
Tone 27	554Hz Continuous	101/104dB	Tone 11	Tone 5
Tone 28	440Hz Continuous	97/103dB	Tone 2	Tone 5
Tone 29	800/1000Hz @ 7Hz Sweeping	101/105dB	Tone 7	Tone 5
Tone 30	AS1670: 1500-500Hz 0.5 sec on 0.5 sec off x 3 with 1.5 sec gap	100/106dB	Tone 32	Tone 26
Tone 31	660/1200Hz @ 1Hz Sweeping	101/105dB	Tone 26	Tone 5
Tone 32	AS1670: 500-1200Hz Sweeping 2 sec on 1 sec off	100/105dB	Tone 30	Tone 15



A112N -A121- A131-A141-A105NAX -A121AX-MA112 -MA121- MCA112-05 Tones

Stage 1	Description	Sound Output db@1m	Stage 2	Stage 3
Tone 1	340 Hz Continuous	107/113dB	Tone 2	Tone 5
Tone 2	800/1000Hz @ 0.25 sec Alternating	112/121dB	Tone 17	Tone 5
Tone 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop	113/121dB	Tone 2	Tone 5
Tone 4	800/1000Hz @ 1Hz Sweeping	113/121dB	Tone 6	Tone 5
Tone 5	2400Hz Continuous	119/125dB	Tone 3	Tone 20
Tone 6	2400/2900Hz @ 7Hz Sweeping	116/123dB	Tone 7	Tone 5
Tone 7	2400/2900Hz @ 1Hz Sweeping	116/125dB	Tone 10	Tone 5
Tone 8	500/1200/500Hz @ 0.3Hz Sweeping	113/121dB	Tone 2	Tone 5
Tone 9	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	113/121dB	Tone 15	Tone 2
Tone 10	2400/2900Hz @ 2Hz Alternating	119/126dB	Tone 7	Tone 5
Tone 11	1000Hz @ 1Hz Intermittent	112/121dB	Tone 2	Tone 5
Tone 12	800/1000Hz @ 0.875Hz Alternating	112/121dB	Tone 4	Tone 5
Tone 13	2400Hz @ 1Hz Intermittent	119/125dB	Tone 15	Tone 5
Tone 14	800Hz 0.25sec on, 1 sec off Intermittent	113/120dB	Tone 4	Tone 5
Tone 15	800Hz Continuous	113/120dB	Tone 2	Tone 5
Tone 16	AS1670: 500-1200Hz Sweeping 2 sec on 1 sec off	113/121dB	Tone 18	Tone 5
Tone 17	544Hz (100mS)/440Hz (400mS) - NF S 32-001	109/118dB	Tone 2	Tone 27
Tone 18	AS1670: 1500-500Hz 0.5 sec on 0.5 sec off x 3 with 1.5 sec gap	113/121dB	Tone 16	Tone 5
Tone 19	1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s -NFC48-265	114/126dB	Tone 2	Tone 5
Tone 20	660Hz Continuous	109/118dB	Tone 2	Tone 5
Tone 21	554Hz/440Hz @ 1Hz Alternating	109/118dB	Tone 2	Tone 5
Tone 22	544Hz @ 0.875 sec. Intermittent	109/118dB	Tone 2	Tone 5
Tone 23	800Hz @ 2Hz Intermittent	113/120dB	Tone 6	Tone 5
Tone 24	800/1000Hz @ 50Hz Sweeping	112/120dB	Tone 29	Tone 5
Tone 25	2400/2900Hz @ 50Hz Sweeping	116/124dB	Tone 29	Tone 5
Tone 26	Bell	108/118dB	Tone 2	Tone 15
Tone 27	554Hz Continuous	109/117dB	Tone 26	Tone 5
Tone 28	440Hz Continuous	106/117dB	Tone 2	Tone 5
Tone 29	800/1000Hz @ 7Hz Sweeping	112/121dB	Tone 7	Tone 5
Tone 30	300Hz Continuous	107/114dB	Tone 2	Tone 5
Tone 31	660/1200Hz @ 1Hz Sweeping	112/121dB	Tone 26	Tone 5
Tone 32	Two tone chime.	108/118dB	Tone 26	Tone 15
Tone 33	745Hz @ 1Hz Intermittent	109/116dB	Tone 2	Tone 5
Tone 34	1000 & 2000Hz @ 0.5 sec Alternating - Singapore	109/121dB	Tone 38	Tone 45
Tone 35	AS2220: 420Hz @ 0.625 sec Australian Alert	106/117dB	Tone 36	Tone 5
Tone 36	AS2220: 500-1200Hz 3.75sec /0.25sec. Australian Evac.	113/121dB	Tone 35	Tone 5
Tone 37	1000Hz Continuous - PFEER Toxic Gas	113/121dB	Tone 9	Tone 45
Tone 38	2000Hz Continuous	112/120dB	Tone 34	Tone 45
Tone 39	800Hz 0.25sec on, 1 sec off Intermittent	116/120dB	Tone 23	Tone 17
Tone 40	544Hz (100mS)/440Hz (400mS) - NF S 32-001	113/121dB	Tone 31	Tone 27
Tone 41	Motor Siren - slow rise to 1200 Hz	112/122dB	Tone 2	Tone 5
Tone 42	Motor Siren - slow rise to 800 Hz	114/121dB	Tone 2	Tone 5
Tone 43	1200 Hz Continuous	113/122dB	Tone 2	Tone 5
Tone 44	Motor Siren - slow rise to 2400 Hz	118/124dB	Tone 2	Tone 5
Tone 45	1KHz 1s on, 1s off Intermittent - PFEER Gen. Alarm	112/121dB	Tone 38	Tone 34