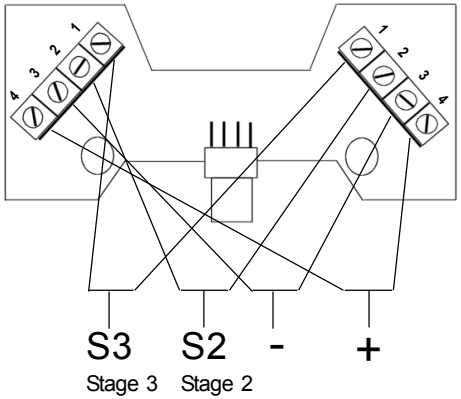
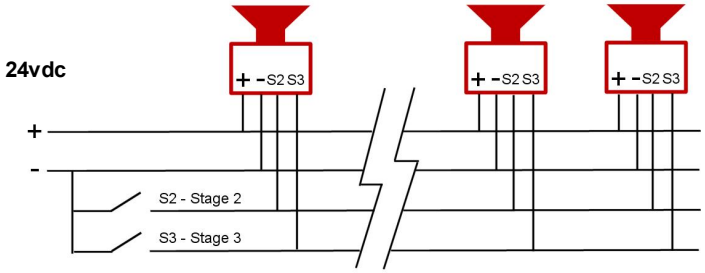
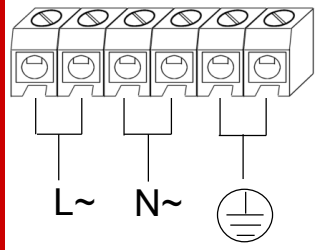
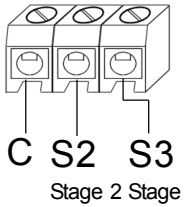
INSTALLATION INSTRUCTIONS

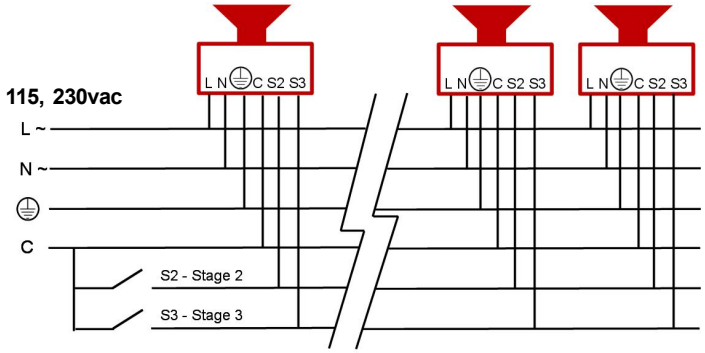
SON4 - 32 Tone Sounder & Xenon Beacon 'Sonora'











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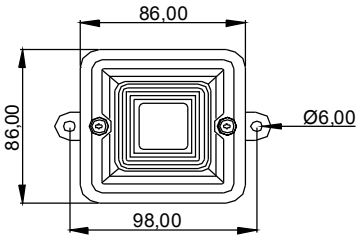
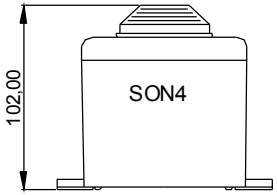




Voltage :	24vdc	24vac 50/60Hz	115vac 50/60Hz	230vac 50/60Hz
Voltage range :	+/-25%	+/-25%	+/-10%	+/-10%
Current mA :	100mA*	40-90mA	35mA	20mA

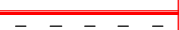
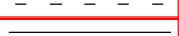
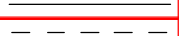
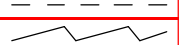
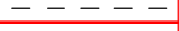
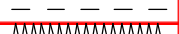
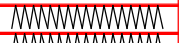
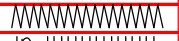
* Current at nominal voltage on Tone 2.

SON4 24vdc unit is CPD Compliant. EN54-3 Type B IP55. Beacon is not compliant.

Stage1 tone	Frequency Description
Tone 2	800/1000Hz @ 0.25 sec Alternating
Tone 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop
Tone 9	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.
Tone 15	800Hz Continuous
Tone 16	660Hz 150ms ON 150ms OFF
Tone 17	544Hz (100mS)/440Hz (400mS) - NF S 32-001

The tones listed have been tested to EN54-3 and are compliant with the Construction Product Directive 89/106/EEC.

EN54-3 test data : document D0665

Stage 1	Frequency Description.	A100 dB@ 1m		Switch 1 2 3 4 5 6	Stage 2 (S2)	Stage 3 (S3)
Tone 1	340 Hz Continuous	93dB(A) @1m			Tone 2	Tone 5
Tone 2	800/1000Hz @ 0.25 sec Alternating	101dB(A) @1m		■	Tone 17	Tone 5
Tone 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop	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 20
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) - 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 -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	300Hz Continuous	91dB(A) @1m		■ ■ ■	Tone 2	Tone 5
Tone 31	660/1200Hz @ 1Hz Sweeping	101dB(A) @1m		■ ■ ■ ■	Tone 26	Tone 5
Tone 32	Two tone chime.	100dB(A) @1m		■ ■ ■ ■	Tone 26	Tone 15

NOTE: Please check factory settings and ensure the correct alarm tone is selected for your country or application.

Pas op: bij ingebruikstelling dient u zich ervan te overtuigen dat de unit op de juiste toon is ingesteld.

Tone Selection / switch setting.

- Switch settings are shown in the tone table. Black squares are the switch levers in the ON position.
- Les réglages des commutateurs sont indiqués sur le tableau de tonalités. Les carrés noirs représentent les leviers des commutateurs en position MARCHE (ON).
- Die Schaltereinstellungen sind in der Tabelle der Töne angegeben. Die schwarzen Quadrate kennzeichnen die Ein-Positionen der Schalter.
- Le impostazioni degli interruttori sono mostrate nella tabella dei segnali acustici. I riquadri neri indicano le leve degli interruttori nella posizione ON.
- Los ajustes de interruptor se muestran en la tabla de tonos. Los cuadros negros representan las palancas de los interruptores en la posición ON.
- Os ajustes dos interruptores estão indicados na tabela de sons. Os quadrados pretos indicam que as alavancas dos interruptores estão na posição LIGADA.
- Kontaktindstillingerne fremgår af toneskemaet. Et sort felt betyder, at kontakten er aktiv ("ON").
- De schakelinstellingen staan vermeld in de toontabel. Zwarte vierkanten zijn de schakelaars in de stand AAN.
- Bryterinnstillinger er beskrevet i tonetabellen. De svarte firkantene indikerer bryterposisjonene i PÅ-posisjon.
- Brytarinställningarna visas i signaltabellen. De svarta fyrkanterna är brytarna i ON-läge.

ISN0101-B

- Reverse polarity switching - On DC versions the second stage alarm tone can be selected by reversing the polarity of the supply voltage if switch 6 is in the ON position and link L1 is made
- Commutation de polarité inversée. - Dans le cas des appareils c.c., il est possible de sélectionner la tonalité d'alarme de deuxième étage en inversant la tension d'alimentation si la paire de broches L1 de la carte de circuits imprimés est reliée par un cavalier.
- Schalten durch Polaritätsumkehrung - Bei Gleichspannungsausführungen kann der Alarmton der zweiten Stufe durch Umpolung der Versorgungsspannung gewählt werden, wenn das Stiftpaar L1 auf der Leiterplatte verbunden ist.
- Commutazione polarità inversa: sulle unità in CC, il segnale acustico di allarme di secondo livello può essere selezionato invertendo la tensione di alimentazione se il connettore con piedini L1 del circuito è collegato.
- Conmutación de polaridad inversa: en unidades de CC el tono de alarma de la segunda fase puede seleccionarse invirtiendo la tensión de alimentación si el par de pines L1 de la PCB está conectado.
- Comutação de polaridade inversa. - Nas unidades de cc, é possível seleccionar o som de alarme da segunda fase invertendo a tensão de alimentação se o suporte de pinos L1 no circuito impresso estiver ligado.
- Invertering af polaritet. - På jævnstrømsenheder kan alarmtonen for anden fase vælges, ved at man vender spændingen, hvis L1 på printkortet er aktiveret.
- Omgekeerde polariteitsschakeling – op DC-apparaten kan de tweede fase alarmtoon geselecteerd worden door de toevoerspanning om te keren wanneer de twee PCB-pennen L1 op de PCB doorverbonden zijn.
- Reversert polaritet.. På DC utgaver velges andre trinns alarmtone ved å snu tilførselsspenningen hvis hovedpinne L1 på kretskortet er linket.
- Polaritetsändring. – På DC-enheter kan en andrastegssignal väljas genom att vända riktning på strömmen om stiftsockeln L1 på kretskortet är överbyglad.

DC Line monitoring

- Remove link L1 for line monitoring (DC).
- Couper L1 en cas de contrôle des lignes d'alimentation (c.c.).
- L1 zur Überwachung der Spannungsversorgungsleitungen (Gleichspannung) durchtrennen.
- Interrompere L1 in caso di monitoraggio delle linee dell'alimentatore (CC).
- Corte L1 si está monitorizando las líneas de alimentación eléctrica (CC).
- No caso de monitorização das linhas da alimentação eléctrica (cc), corte L1 .
- Afbryd L1, hvis strømforsyningslinjerne overvåges (jævnstrøm).
- Onderbreek L1 wanneer de voedingslijnen (DC) gecontroleerd worden.
- Ta ut L1 dersom strømlinjene overvåkes (DC).
- Bryt L1 vid kontroll av strömkablarna (DC).

>100dB(A)@1m.
104dB(A) Max.

ATTENTION

- **Disconnect from power source to prevent electrical shock before installing and servicing**
- **Couper l'alimentation pour empêcher tout choc électrique avant d'effectuer des travaux d'installation et d'entretien.**
- **Vor der Installation und Wartung von der Spannungsquelle abnehmen, um elektrische Schläge zu vermeiden.**
- **Prima dell'installazione e della manutenzione spegnere l'alimentazione elettrica per evitare scosse elettriche.**
- **Desconecte la alimentación para evitar descargas eléctricas antes de la instalación y mantenimiento**
- **Antes de instalar ou de fazer a manutenção desligue sempre da alimentação eléctrica para evitar choques eléctricos.**
- **Strømmen skal afbrydes ved installering og eftersyn for at undgå elektrisk stød.**
- **Los koppelen van de elektrische voeding om elektrische schok vóór installatie en onderhoud te voorkomen.**
- **Før montering eller vedlikehold, må spenningen koples fra for å unngå strømstøt.**
- **Bryt strömmen innan installation och underhåll för att förhindra elektriska stötar stötar.**

Stage 1	Frequency Description.	Switch 1 2 3 4 5 6	Stage 2 (S2)	Stage 3 (S3)
Tone 1	340 Hz Continuous	■	Tone 2	Tone 5
Tone 2	800/1000Hz @ 0.25 sec Alternating	■ ■	Tone 17	Tone 5
Tone 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop	■	Tone 2	Tone 5
Tone 4	800/1000Hz @ 1Hz Sweeping	■ ■	Tone 6	Tone 5
Tone 5	2400Hz Continuous	■	Tone 3	Tone 26
Tone 6	2400/2900Hz @ 7Hz Sweeping	■ ■	Tone 7	Tone 5
Tone 7	2400/2900Hz @ 1Hz Sweeping	■ ■	Tone 10	Tone 5
Tone 8	500/1200/500Hz @ 0.3Hz Sweeping	■ ■ ■	Tone 2	Tone 5
Tone 9	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	■	Tone 15	Tone 2
Tone 10	2400/2900Hz @ 2Hz Alternating	■ ■	Tone 7	Tone 5
Tone 11	1000Hz @ 1Hz Intermittent	■ ■	Tone 2	Tone 5
Tone 12	800/1000Hz @ 0.875Hz Alternating	■ ■ ■	Tone 4	Tone 5
Tone 13	2400Hz @ 1Hz Intermittent	■ ■	Tone 15	Tone 5
Tone 14	800Hz 0.25sec on, 1 sec off Intermittent	■ ■ ■	Tone 4	Tone 5
Tone 15	800Hz Continuous	■ ■ ■	Tone 2	Tone 5
Tone 16	660Hz 150mS on, 150mS off Intermittent	■ ■ ■ ■	Tone 18	Tone 5
Tone 17	544Hz (100mS)/440Hz (400mS) - NF S 32-001	■	Tone 2	Tone 27
Tone 18	660Hz 1.8sec on, 1.8sec off Intermittent	■ ■	Tone 2	Tone 5
Tone 19	1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s -NFC48-265	■ ■	Tone 2	Tone 5
Tone 20	660Hz Continuous	■ ■ ■	Tone 2	Tone 5
Tone 21	554Hz/440Hz @ 1Hz Alternating	■ ■	Tone 2	Tone 5
Tone 22	544Hz @ 0.875 sec. Intermittent	■ ■ ■	Tone 2	Tone 5
Tone 23	800Hz @ 2Hz Intermittent	■ ■ ■	Tone 6	Tone 5
Tone 24	800/1000Hz @ 50Hz Sweeping	■ ■ ■	Tone 29	Tone 5
Tone 25	2400/2900Hz @ 50Hz Sweeping	■ ■	Tone 29	Tone 5
Tone 26	Bell	■ ■	Tone 2	Tone 15
Tone 27	554Hz Continuous	■ ■ ■	Tone 26	Tone 5
Tone 28	440Hz Continuous	■ ■ ■	Tone 2	Tone 5
Tone 29	800/1000Hz @ 7Hz Sweeping	■ ■ ■	Tone 7	Tone 5
Tone 30	420Hz @ 0.625 sec Australian Alert	■ ■ ■ ■	Tone 32	Tone 26
Tone 31	660/1200Hz @ 1Hz Sweeping	■ ■ ■ ■	Tone 26	Tone 5
Tone 32	500-1200Hz 3.75sec /0.25sec. Australian Evac.	■ ■ ■ ■ ■	Tone 30	Tone 26

- •Tone Selection
- •Sélection de la tonalité
- •Tonwahl
- •Selezione tono
- •Seleção de tons
- •Selección Tono
- •Valg af tone
- •Toonselectie
- •Velge tone
- •Tonval

- Switch 6 is not used; Switch 8 'ON' = Intermediate volume; Switch 7 'ON' = Max.volume; Switch 7 & 8 'OFF' = Standard volume.
- Le commutateur 6 n'est pas utilisé ; Commutateur 8 « MARCHE » (ON) = Volume intermédiaire ; Commutateur 9 « MARCHE » (ON) = Volume max. ; Commutateurs 7 et 8 « ARRET » (OFF) = Volume standard.
- Schalter 6 wird nicht verwendet; Schalter 8 „Ein" = mittlere Lautstärke; Schalter 7 „Ein" = max. Lautstärke; Schalter 7 und 8 „Aus" = Standard-Lautstärke
- Interruttore 6 non viene utilizzato; Interruttore 8 'ON' = Volume intermedio; Interruttore 7 'ON' = Volume massimo; Interruttori 7 e 8 'OFF' = Volume standard.
- El interruptor 6 no se utiliza; Interruptor 8 'ON' = volumen intermedio; Interruptor 7 'ON' = máximo volumen; Interruptor 7 y 8 'OFF' = volumen estándar.
- Interruptor 6 não é utilizado; Interruptor 8 'LIGADO' = volume intermédio; Interruptor 7 'LIGADO' = volume máximo; Interruptor 7 e 8 'DESLIGADOS' = volume padrão.
- Kontakt 6 bruges ikke. Kontakt 8 aktiveret ("ON") = mellemvolumen. Kontakt 7 aktiveret ("ON") = højeste volumen. Kontakt 7 og 8 deaktiveret ("OFF") = standardvolumen.
- Schakelaar 6 wordt niet gebruikt; schakelaar 8 'ON' = tussenvolume; Schakelaar 7 'ON' = max.volume; Schakelaar 7 & 8 'OFF' = standaardvolume.
- Bryter 6 er ikke i bruk. Bryter 8 PÅ ('ON') = mellomhøy lydstyrke. Bryter 7 PÅ ('ON') = Maks. lydstyrke.; Bryter 7 & 8 AV ('OFF') = Standard lydstyrke.
- Brytare 6 används ej; Brytare 8 'ON' = Mellanvolym; Brytare 7 'ON' = Max.volym; Brytare 7 & 8 'OFF' = Standardvolym.

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Tone Selection / switch setting.

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- Brytarinställningarna visas i signaltabellen. De svarta fyrkanterna är brytarna i ON-läge.

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>100dB(A)@1m.

ATTENTION

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