

A112N Alarm Sounder

The A112N is a high output, 119dB(A) alarm sounder. High SPL in a robust fire retardant IP66 housing ensure the A112N is suitable for all general signalling applications including fire, security and process control.

COMSEC PROTECTION SYSTEMS LTD.
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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).
- Tropicalisation available on request.
- Available with custom tone configurations and frequencies.
- 'Programmable' version available:
 - 45 alarm tones
 - 4 remotely selectable stages
 - Any tone can be assigned to any stage
 - User configurable continuous frequency tone

Approvals:

- VdS approved to EN54-3 (CPD 89/106/EEC).
- UKOOA/PFEER compliant alarm tones.
- UL approved version available.
- GOST-R approved. Cert: POCC GB-JB05-B02228
- Marine Equipment Directive (MED)
Certificate: 19 702 - 11 HH

Part codes:

Version:	Part code:
24V dc	A112NDC24[x]
48V dc	A112NDC48[x]
110/230V dc	A112NDC110[x]
24V ac	A112NAC24[x]
115V ac	A112NAC115[x]
230V ac	A112NAC230[x]
[x] = Housing colour:	R: Red

Suffix part number with 'P' for programmable, 4 stage, 45 tone version.

Suffix part number with 'UL' for UL approved version.

[110/230V dc unit not available as UL approved]

Suffix part number with 'M' for MED approved version.

[24V dc unit only]



GOST-R



0786-CPD-20199



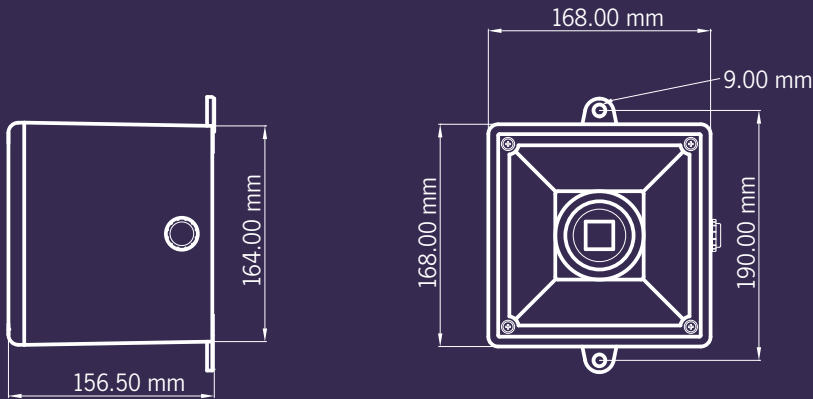
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AlertLight: AL112N

SpectrAlarm: AB112





Specification:

Maximum output:	119dB(A) @ 1 metre
Nominal output:	112dB(A) @ 1m +/- 3dB - Tone 2
No. of tones:	45 (UKOOA / PFEER compliant)
No. of stages:	3
Volume control:	Max. 112dB(A); Min. 100dB(A) - Tone 2
Effective range:	125m @ 1KHz
Voltages DC:	24V dc (10-30V dc); 48V dc (35-60V dc); 110V dc (90-250V dc) [24V dc units can use 24V ac for single stage apps.]
Voltages AC:	24V ac; 115V ac; 230V ac
Stage switching:	Negative or optional positive Reverse polarity stage switching on DC units.
Ingress protection:	IP66
Housing material:	High impact UL94 V0 & 5VA FR ABS
Colour:	Red (RAL3000)
Cable entries:	2 x M20 clearance gland entries in side & back
Terminals:	0.5 to 4.0mm ² cables.
Operating temperature:	-25 to +55°C
Storage temperature:	-40 to +70°C
Relative humidity:	90% at 20°C.
Weight :	DC: 1.80kg AC:2.10kg

Tone table:

Stage 1	Frequency Description	dB @ 1m	Stage 2	Stage 3
Tone 1	340 Hz Continuous	107dB(A) @ 1m	Tone 2	Tone 5
Tone 2	800/1000Hz @ 0.25 sec Alternating - BS5839 Alarm tone	112dB(A) @ 1m	Tone 17	Tone 5
Tone 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop - NEN 2575:2000	113dB(A) @ 1m	Tone 2	Tone 5
Tone 4	800/1000Hz @ 1Hz Sweeping	113dB(A) @ 1m	Tone 6	Tone 5
Tone 5	2400Hz Continuous	119dB(A) @ 1m	Tone 3	Tone 20
Tone 6	2400/2900Hz @ 7Hz Sweeping	116dB(A) @ 1m	Tone 7	Tone 5
Tone 7	2400/2900Hz @ 1Hz Sweeping	116dB(A) @ 1m	Tone 10	Tone 5
Tone 8	500/1200/500Hz @ 0.3Hz Sweeping	113dB(A) @ 1m	Tone 2	Tone 5
Tone 9	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	113dB(A) @ 1m	Tone 15	Tone 2
Tone 10	2400/2900Hz @ 2Hz Alternating	119dB(A) @ 1m	Tone 7	Tone 5
Tone 11	1000Hz @ 1Hz Intermittent	112dB(A) @ 1m	Tone 2	Tone 5
Tone 12	800/1000Hz @ 0.875Hz Alternating	112dB(A) @ 1m	Tone 4	Tone 5
Tone 13	2400Hz @ 1Hz Intermittent	119dB(A) @ 1m	Tone 15	Tone 5
Tone 14	800Hz 0.25sec on, 1 sec off Intermittent	113dB(A) @ 1m	Tone 4	Tone 5
Tone 15	800Hz Continuous	113dB(A) @ 1m	Tone 2	Tone 5
Tone 16	660Hz 150mS on, 150mS off Intermittent	109dB(A) @ 1m	Tone 18	Tone 5
Tone 17	544Hz (100mS)/440Hz (400mS) - AFNOR NF S 32-001	109dB(A) @ 1m	Tone 2	Tone 27
Tone 18	660Hz 1.8sec on, 1.8sec off Intermittent	109dB(A) @ 1m	Tone 2	Tone 5
Tone 19	1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s - AFNOR NFC48-265	114dB(A) @ 1m	Tone 2	Tone 5
Tone 20	660Hz Continuous	109dB(A) @ 1m	Tone 2	Tone 5
Tone 21	554Hz/440Hz @ 1Hz Alternating	109dB(A) @ 1m	Tone 2	Tone 5
Tone 22	544Hz @ 0.875 sec. Intermittent	109dB(A) @ 1m	Tone 2	Tone 5
Tone 23	800Hz @ 2Hz Intermittent	113dB(A) @ 1m	Tone 6	Tone 5
Tone 24	800/1000Hz @ 50Hz Sweeping	112dB(A) @ 1m	Tone 29	Tone 5
Tone 25	2400/2900Hz @ 50Hz Sweeping	116dB(A) @ 1m	Tone 29	Tone 5
Tone 26	Bell	108dB(A) @ 1m	Tone 2	Tone 15
Tone 27	554Hz Continuous	109dB(A) @ 1m	Tone 26	Tone 5
Tone 28	440Hz Continuous	106dB(A) @ 1m	Tone 2	Tone 5
Tone 29	800/1000Hz @ 7Hz Sweeping	112dB(A) @ 1m	Tone 7	Tone 5
Tone 30	300Hz Continuous	107dB(A) @ 1m	Tone 2	Tone 5
Tone 31	660/1200Hz @ 1Hz Sweeping	112dB(A) @ 1m	Tone 26	Tone 5
Tone 32	Two tone chime.	108dB(A) @ 1m	Tone 26	Tone 15
Tone 33	745Hz @ 1Hz Intermittent	109dB(A) @ 1m	Tone 2	Tone 5
Tone 34	1000 & 2000Hz @ 0.5 sec Alternating - Singapore	109dB(A) @ 1m	Tone 38	Tone 45
Tone 35	420Hz @ 0.625 sec Australian Alert - AS2220	114dB(A) @ 1m	Tone 36	Tone 5
Tone 36	500-1200Hz 3.75sec /0.25sec. Australian Evac. - AS2220	108dB(A) @ 1m	Tone 35	Tone 5
Tone 37	1000Hz Continuous - PFEER Toxic Gas	113dB(A) @ 1m	Tone 9	Tone 45
Tone 38	2000Hz Continuous	112dB(A) @ 1m	Tone 34	Tone 45
Tone 39	800Hz 0.25sec on, 1 sec off Intermittent	116dB(A) @ 1m	Tone 23	Tone 17
Tone 40	544Hz (100mS)/440Hz (400mS) - AFNOR NF S 32-001	113dB(A) @ 1m	Tone 31	Tone 27
Tone 41	Motor Siren - slow rise to 1200 Hz	112dB(A) @ 1m	Tone 2	Tone 5
Tone 42	Motor Siren - slow rise to 800 Hz	114dB(A) @ 1m	Tone 2	Tone 5
Tone 43	1200 Hz Continuous	113dB(A) @ 1m	Tone 2	Tone 5
Tone 44	Motor Siren - slow rise to 2400 Hz	118dB(A) @ 1m	Tone 2	Tone 5
Tone 45	1KHz 1s on, 1s off Intermittent - PFEER Gen. Alarm	112dB(A) @ 1m	Tone 38	Tone 34

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

Alarm sounder:

Version:	Voltage range:	Current mA:
24V dc	10-30V dc	200mA*
48V dc	35-60V dc	120mA*
110/230V dc	90-250V dc	60mA
24V ac	50/60Hz +/-10%	500mA
115V ac	50/60Hz +/-10%	100mA
230V ac	50/60Hz +/-10%	60mA

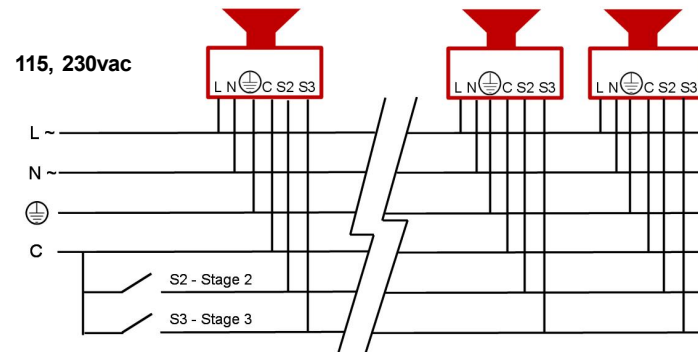
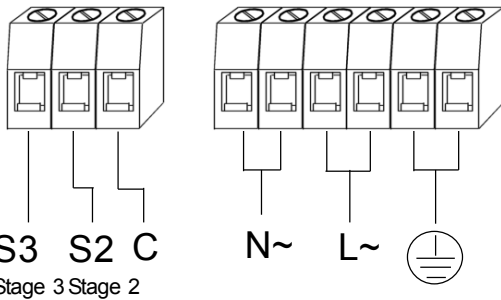
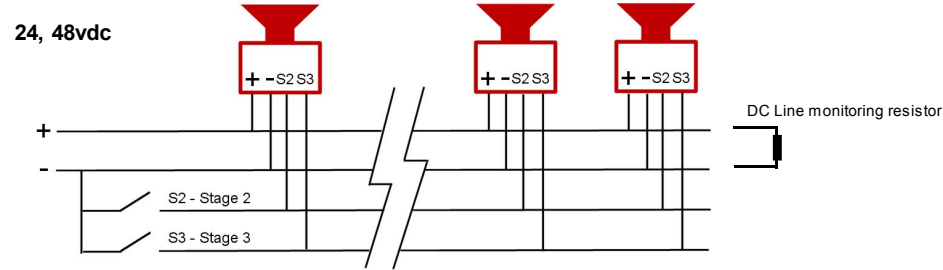
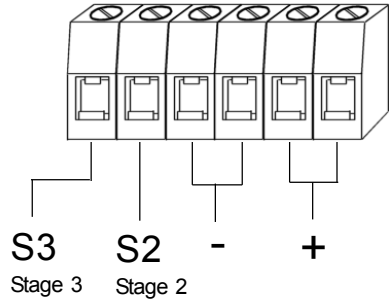
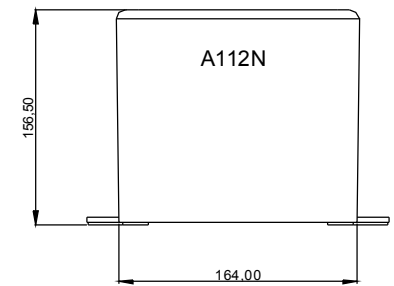
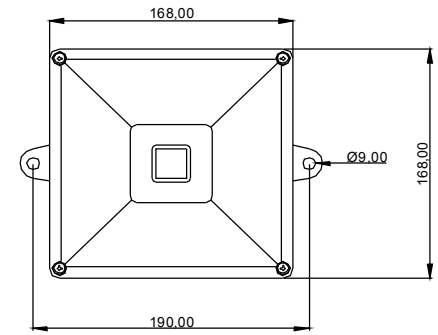
* current at nominal voltage on Tone 2

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



A112N

AL112N



Voltage :	24vdc	48vdc	110vdc	115vac	230vac	24vac
				50/60Hz	50/60Hz	50/60Hz
Voltage range :	10-30vdc	35-60vdc	90-130vdc	+/- 10%	+/- 10%	+/- 10%
Current mA :	200mA	120mA	60mA	100mA	60mA	500mA



- Volum Control
- Réglage du volume
- Steuerung der Lautstärke
- Controllo volume
- Controllo do Volume
- Control Volumen
- Volumen kontrol
- Volumeregeling
- Volum kontroll
- Volum kontroll



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

A112N 24vdc(18-30vdc) & 48vdc (35-60vdc) units are CPD Compliant.

EN54-3 Type B IP55

Stage1 **Frequency**
tone **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 D4773

Stage 1	Frequency Description	dB @ 1m	Switch					Stage 2 (S2)	Stage 3 (S3)	
			1	2	3	4	5			6
Tone 1	340 Hz Continuous	107dB(A) @ 1m							Tone 2	Tone 5
Tone 2	800/1000Hz @ 0.25 sec Alternating	112dB(A) @ 1m							Tone 17	Tone 5
Tone 3	500/1200Hz @ 0.3Hz 0.5 sec Slow Whoop	113dB(A) @ 1m							Tone 2	Tone 5
Tone 4	800/1000Hz @ 1Hz Sweeping	113dB(A) @ 1m							Tone 6	Tone 5
Tone 5	2400Hz Continuous	119dB(A) @ 1m							Tone 3	Tone 20
Tone 6	2400/2900Hz @ 7Hz Sweeping	116dB(A) @ 1m							Tone 7	Tone 5
Tone 7	2400/2900Hz @ 1Hz Sweeping	116dB(A) @ 1m							Tone 10	Tone 5
Tone 8	500/1200/500Hz @ 0.3Hz Sweeping	113dB(A) @ 1m							Tone 2	Tone 5
Tone 9	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.	113dB(A) @ 1m							Tone 15	Tone 2
Tone 10	2400/2900Hz @ 2Hz Alternating	119dB(A) @ 1m							Tone 7	Tone 5
Tone 11	1000Hz @ 1Hz Intermittent	112dB(A) @ 1m							Tone 2	Tone 5
Tone 12	800/1000Hz @ 0.875Hz Alternating	112dB(A) @ 1m							Tone 4	Tone 5
Tone 13	2400Hz @ 1Hz Intermittent	119dB(A) @ 1m							Tone 15	Tone 5
Tone 14	800Hz 0.25sec on, 1 sec off Intermittent	113dB(A) @ 1m							Tone 4	Tone 5
Tone 15	800Hz Continuous	113dB(A) @ 1m							Tone 2	Tone 5
Tone 16	660Hz 150mS on, 150mS off Intermittent	109dB(A) @ 1m							Tone 18	Tone 5
Tone 17	544Hz (100mS)/440Hz (400mS) - NF S 32-001	109dB(A) @ 1m							Tone 2	Tone 27
Tone 18	660Hz 1.8sec on, 1.8sec off Intermittent	109dB(A) @ 1m							Tone 2	Tone 5
Tone 19	1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s -NFC48-265	114dB(A) @ 1m							Tone 2	Tone 5
Tone 20	660Hz Continuous	109dB(A) @ 1m							Tone 2	Tone 5
Tone 21	554Hz/440Hz @ 1Hz Alternating	109dB(A) @ 1m							Tone 2	Tone 5
Tone 22	544Hz @ 0.875 sec. Intermittent	109dB(A) @ 1m							Tone 2	Tone 5
Tone 23	800Hz @ 2Hz Intermittent	113dB(A) @ 1m							Tone 6	Tone 5
Tone 24	800/1000Hz @ 50Hz Sweeping	112dB(A) @ 1m							Tone 29	Tone 5
Tone 25	2400/2900Hz @ 50Hz Sweeping	116dB(A) @ 1m							Tone 29	Tone 5
Tone 26	Bell	108dB(A) @ 1m							Tone 2	Tone 15
Tone 27	554Hz Continuous	109dB(A) @ 1m							Tone 26	Tone 5
Tone 28	440Hz Continuous	106dB(A) @ 1m							Tone 2	Tone 5
Tone 29	800/1000Hz @ 7Hz Sweeping	112dB(A) @ 1m							Tone 7	Tone 5
Tone 30	300Hz Continuous	107dB(A) @ 1m							Tone 2	Tone 5
Tone 31	660/1200Hz @ 1Hz Sweeping	112dB(A) @ 1m							Tone 26	Tone 5
Tone 32	Two tone chime.	108dB(A) @ 1m							Tone 26	Tone 15
Tone 33	745Hz @ 1Hz Intermittent	109dB(A) @ 1m							Tone 2	Tone 5
Tone 34	1000 & 2000Hz @ 0.5 sec Alternating - Singapore	114dB(A) @ 1m							Tone 38	Tone 45
Tone 35	420Hz @ 0.625 sec Australian Alert	108dB(A) @ 1m							Tone 36	Tone 5
Tone 36	500-1200Hz 3.75sec /0.25sec. Australian Evac.	113dB(A) @ 1m							Tone 35	Tone 5
Tone 37	1000Hz Continuous - PFEER Toxic Gas	112dB(A) @ 1m							Tone 9	Tone 45
Tone 38	2000Hz Continuous	116dB(A) @ 1m							Tone 34	Tone 45
Tone 39	800Hz 0.25sec on, 1 sec off Intermittent	113dB(A) @ 1m							Tone 23	Tone 17
Tone 40	544Hz (100mS)/440Hz (400mS) - NF S 32-001	112dB(A) @ 1m							Tone 31	Tone 27
Tone 41	Motor Siren - slow rise to 1200 Hz	113dB(A) @ 1m							Tone 2	Tone 5
Tone 42	Motor Siren - slow rise to 800 Hz	114dB(A) @ 1m							Tone 2	Tone 5
Tone 43	1200 Hz Continuous	113dB(A) @ 1m							Tone 2	Tone 5
Tone 44	Motor Siren - slow rise to 2400 Hz	118dB(A) @ 1m							Tone 2	Tone 5
Tone 45	1KHz 1s on, 1s off Intermittent - PFEER Gen. Alarm	112dB(A) @ 1m							Tone 38	Tone 34

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 MARCHÉ (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.
- Bryterinstillingerne er beskrevet i tonetabellen. De svarte firkantene indikerer bryterposisjonene i PÅ- posisjon.
- Brytarinställningarna visas i signaltabellen. De svarta fyrkanterna är brytarna i ON-läge.
- Reverse polarity switching - On DC versions the second stage alarm tone can be selected by reversing the polarity of the supply voltage if wire link LK3 is present.
- 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 LK3 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 LK3 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 LK3 del circuito è collegato.
- Commutación 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 LK3 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 LK3 no circuito impresso estiver ligado.
- Invertering af polaritet. - På jævnstrømsenheder kan alarmtonen for anden fase vælges, ved at man vender spændingen, hvis LK3 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 LK3 op de PCB doorverbonden zijn.
- Reversert polaritet. På DC utgaver velges andre trinnns alarmtone ved å snu tilførselsspenningen hvis hovedpinne LK3 på kretskortet er linket.
- Polaritetsändring. - På DC-enheter kan en andraste gsignal väljas genom att vända riktning på strömmen om stiftsockeln LK3 på kretskortet är överbyglad.



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 elétrica para evitar choques elétricos.
- Strømmen skal afbrydes ved installering og eftersyn for at undgå elektrisk stød.
- Los koppel van de elektrische voeding om elektrische schok vóór installatie en onderhoud te voorkomen.
- Før monterig eller vedlikehold, må spenningen koples fra for å unngå strømstøt.
- Bryt strömmen innan installation och underhåll för att förhindra elektriska stötar stötar.

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.

>105dB(A)@1m.
 112dB(A) Max.



ISN4701-B