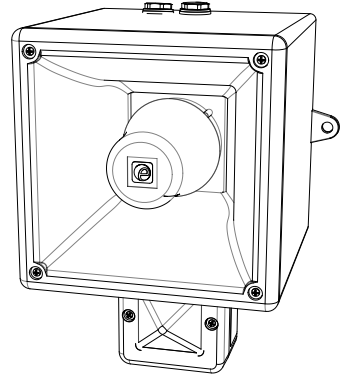


NOTICE D'INSTALLATION & D'UTILISATION

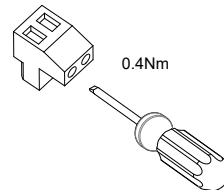
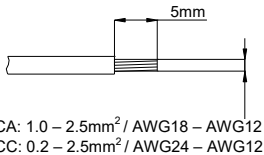
Combiné TONAFASH® Xénon TL121XV2

- -40°C à +66°C (104°F à 151°F)
- Type 4 / 4X / 3R / 13, IP66
- 2Kg (4.4lb)
- CE, TL121XV2024 & TL121XV2048 conformes CPR, Toutes les versions sont "UL Listed"



Référence	Tension Nominale	Tolérance (Tension)	Courant Nominal Feu*	Courant Nominal Sirène* P2 / P3	Pression sonore Nominale P2 / P3	Pression sonore max P2 / P3	Pression sonore Moyenne P2 / P3
TL121XV2012	12 Vcc	11.5-14Vcc	341mA	376mA / 440mA	116.9dB(A) / 120.2dB(A) @ 1m Son No. 44 @ 1m	120.7dB(A) / 123.4dB(A) @ 1m	115.3dB(A) / 118.1dB(A) @ 1m
TL121XV2024	24 Vcc	20-28 Vcc	250mA	430mA / 930mA			
TL121XV2048	48 Vcc	42-52 Vcc	170mA	223mA / 453mA			
TL121XV2115	115 Vca	103.5-126.5 Vca 50/60Hz	70mA	173mA / 340mA			
TL121XV2230	230 Vca	207-240 Vca 50/60Hz	35mA	105mA / 212mA			

*Courant nominal à la tension nominale



Attention: Installation must be carried out by an electrician in compliance with the latest codes and regulations.

Attention: L'installation doit être effectuée par un électricien conformément aux derniers codes et réglementations.

Achtung: Die Installation muss von einem Elektriker gemäß den neuesten Vorschriften und Bestimmungen durchgeführt werden.



Attenzione: L'installazione deve essere eseguita da un elettricista in conformità con i codici e le normative più recenti.

Atención: La instalación debe ser realizada por un electricista de acuerdo con los últimos códigos y regulaciones.

Atenção: A instalação deve ser realizada por um electricista de acordo com os códigos e regulamentos mais recentes.

ВНИМАНИЕ: установка должна выполняться электриком в соответствии с последними нормами и правилами.

Attention: Disconnect from power source before installation or service to prevent electric shock

Attention: Débranchez-le de la source d'alimentation avant l'installation ou l'entretien pour éviter tout choc électrique.



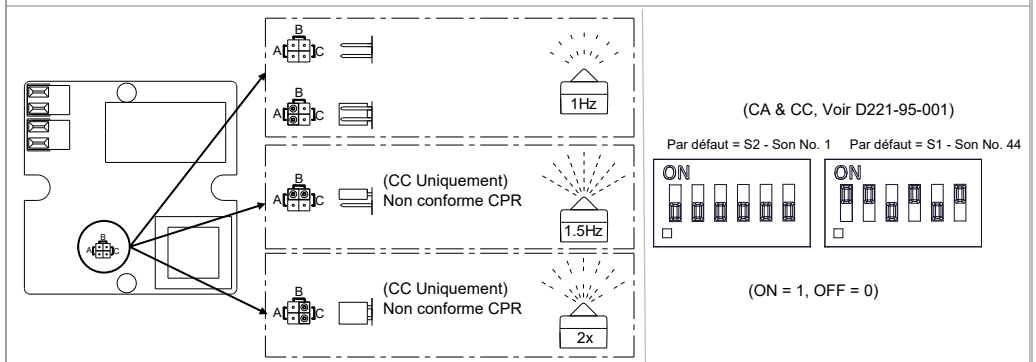
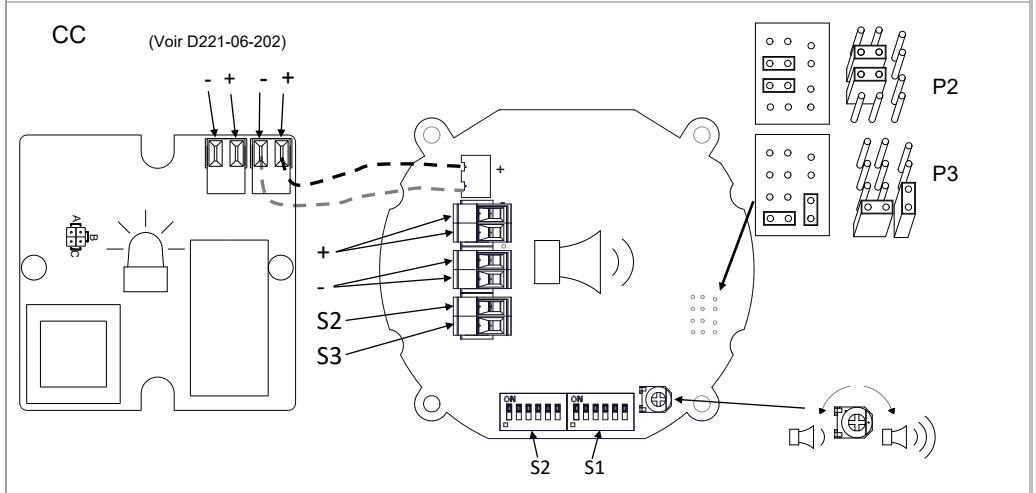
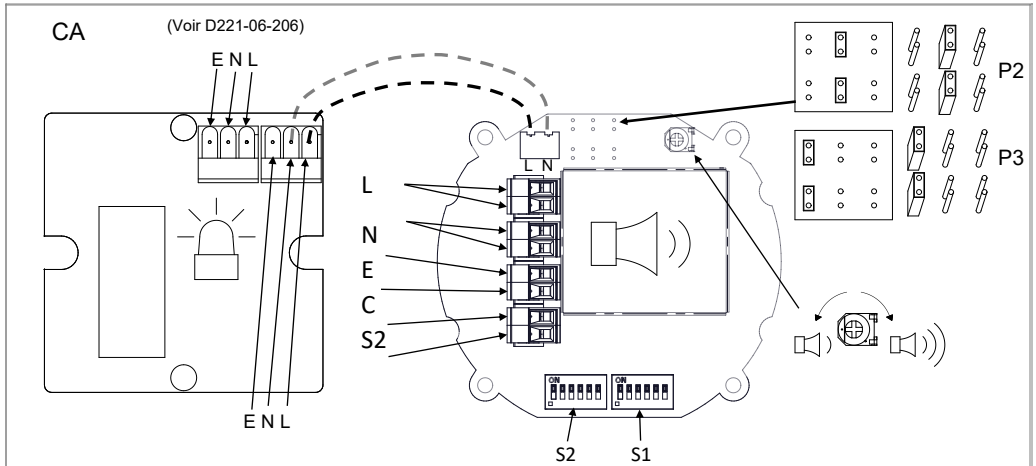
Achtung: Vor Installation oder Wartung von der Stromquelle trennen, um einen Stromschlag zu vermeiden.

Attenzione: scollegare dall'alimentazione prima dell'installazione o dell'assistenza per evitare scosse elettriche.

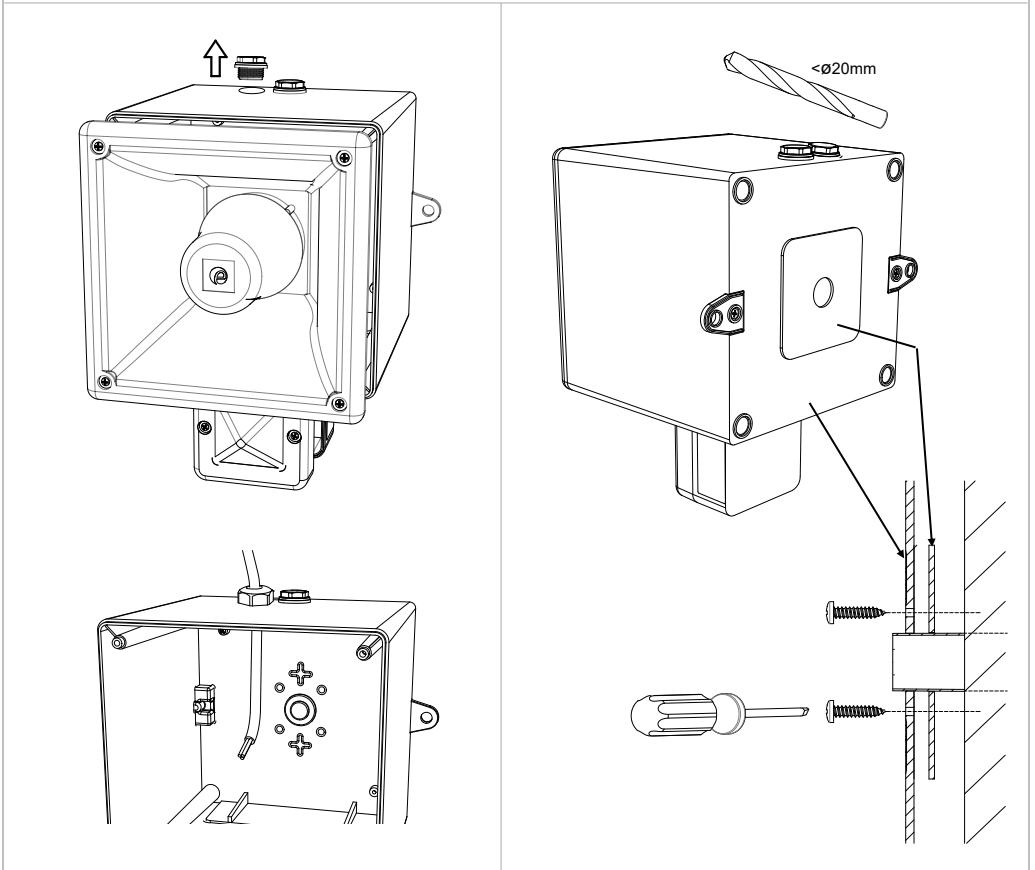
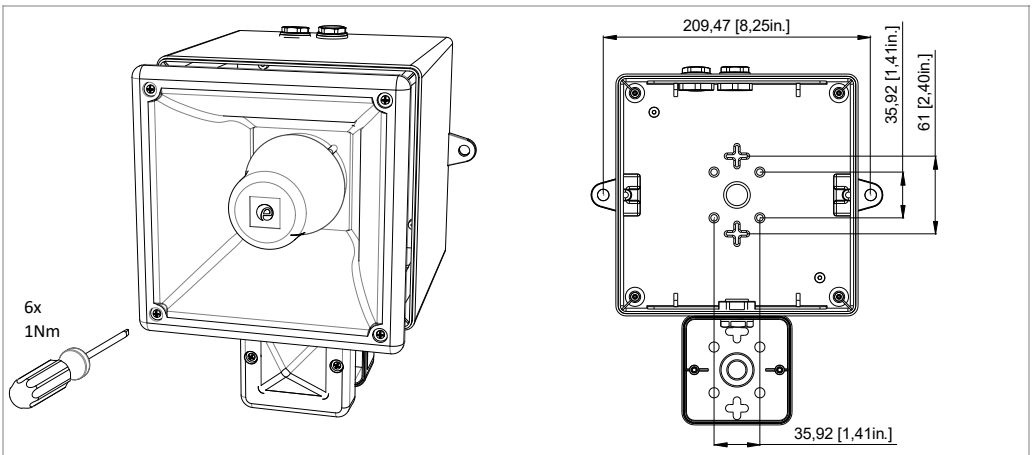
Atención: desconéctelo de la fuente de alimentación antes de la instalación o el servicio para evitar descargas eléctricas.

Atenção: Desconecte da fonte de alimentação antes da instalação ou serviço para evitar choque elétrico

ВНИМАНИЕ: отключите от источника питания перед установкой или обслуживанием, чтобы предотвратить поражение электрическим током.



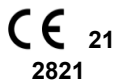
NOTICE D'INSTALLATION & D'UTILISATION
Combiné TONAFASH® Xénon TL121XV2



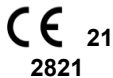
Construction Product Regulation

- AL121XDC024 & AL121XDC048 are compliant to EN54-3:2001+A1+A2 & EN54-23:2010
- VAD for use in fire detection and fire alarm systems installed in and around buildings
- Type 4 / 4X / 3R / 13, IP66, Independently tested to EN60529:1991, (IP33C Compliant to EN54-3)
- Type B Product, For Indoor & Outdoor use
- Observe Precautions for handling electrostatic devices
- -25°C to +55°C compliant to EN54-3
- Cable Glands must be suitably sealed and meet minimum IP33 for EN54-3 applications
- Storage Temperature: -40°C to +70°C
- Maintenance – None
- Mounting - Units can be mounted using the 2-off ø9mm holes in the mounting lugs or through the back of the housing using the supplied gasket seal.

Order Code: AL121XDC024
 Voltage Range: 20-28Vdc
 Nominal Voltage: 24Vdc
 Max Sounder Current: P2: 430mA
 Max Beacon Current: 271mA @ 20Vdc
 DP-2821-CPR-0110



Order Code: AL121XDC048
 Voltage Range: 42-52Vdc
 Nominal Voltage: 48Vdc
 Max Sounder Current: P2: 430mA
 Max Beacon Current: 160mA @ 42Vdc
 DP-2821-CPR-0110



Approved Tones for EN54-3 Applications:

- (Alternating Tone) 800/1000Hz @ 2Hz Alternating Tone 44
- (Rising Tone) 500/1200Hz @ 0.26Hz (3.3s on, 0.5s off) Tone 8
- (Fainting Tone) 1200/500Hz @ 1Hz Tone 2
- (Continuous Tone) 800Hz Tone 21
- (Pulsed Tone) 660Hz (150mS on, 150mS off) Tone 31
- (Alternating Tone) 544Hz(100mS)/440Hz (400mS) Tone 5

AL121XDC024 / AL121XDC048 (P2) @ 1m

Angle	Horizontal Sound Output Max Voltage (54 Vdc) LAFmax,T dB(A)							Horizontal Sound Output Min Voltage (11.5 Vdc) LAFmax,T dB(A)						
	Tone 44	Tone 8	Tone 2	Tone 21	Tone 31	Tone 5	Tone 44	Tone 8	Tone 2	Tone 21	Tone 31	Tone 5		
15°	106.1	105.8	105.1	105.4	105.2	93.9	101.2	101.6	101.1	101	101.2	91		
45°	105.2	107.2	106.3	104.1	98.7	101.6	101.3	102.9	102.1	100.2	94.7	99		
75°	112.1	112.6	111.9	111.7	110.1	104.8	108.1	108.5	107.7	108.1	106.5	103		
105°	111.9	112.5	111.7	111.7	110.2	104.8	107.9	108.4	107.6	108.1	106.4	103		
135°	104.8	107.4	106.4	103.8	99.2	101.6	101.1	103.2	102.1	99.8	95.5	99		
165°	105.2	105.8	105.2	105.3	105.1	93.8	100.8	101.5	100.8	100.9	102	90.8		

Angle	Vertical Sound Output Max Voltage (54 Vdc) LAFmax,T dB(A)							Vertical Sound Output Min Voltage (11.5 Vdc) LAFmax,T dB(A)						
	Tone 44	Tone 8	Tone 2	Tone 21	Tone 31	Tone 5	Tone 44	Tone 8	Tone 2	Tone 21	Tone 31	Tone 5		
15°	107.2	107.1	105.9	107.4	105.5	95.5	103.1	102.8	101.5	103.1	101.5	91.8		
45°	106	109.3	107.9	104.6	100.5	103.7	102.2	105.4	103.8	100.4	96.6	99.9		
75°	113.2	113.3	112.9	113	110.8	106.1	109.2	109.3	108.7	109.1	107.1	103		
105°	112.9	113.1	112.7	112.8	111.4	106.1	109	108.9	108.5	108.9	107.7	103.1		
135°	105.5	109.3	107.7	104.7	100.3	104.3	101.4	105.3	103.5	100.7	96.5	100.7		
165°	107	106.5	105.9	106.4	105.3	95	102.6	102.1	101.5	102.2	101.1	91.2		

AL121XDC024 (P3) @ 1m

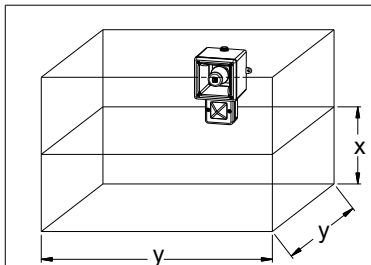
Angle	Horizontal Sound Output Max Voltage (54 Vdc) LAFmax,T dB(A)							Horizontal Sound Output Min Voltage (11.5 Vdc) LAFmax,T dB(A)						
	Tone 44	Tone 8	Tone 2	Tone 21	Tone 31	Tone 5	Tone 44	Tone 8	Tone 2	Tone 21	Tone 31	Tone 5		
15°	107.5	108.4	107.1	106.8	106.5	105.1	104.2	105.3	104.6	103.5	104.7	102.6		
45°	112.8	114.8	113.7	111.9	102.5	104.5	109.7	111.2	110.7	108.9	100.4	101.7		
75°	115.2	116.7	115.4	115.5	112.5	113	112.2	113.2	112.7	112.5	110.1	110.3		
105°	115.6	116.5	115.7	116	113.7	113	112.6	113.4	113.1	112.9	111.1	110.1		
135°	112.8	114.7	113.7	111.7	102.3	104.6	109.7	111.2	110.7	108.9	100.1	101.7		
165°	107.5	108.4	106.9	107	106.5	104.9	104.3	104.9	104.2	103.5	104.5	102.3		

Angle	Vertical Sound Output Max Voltage (54 Vdc) LAFmax,T dB(A)							Vertical Sound Output Min Voltage (11.5 Vdc) LAFmax,T dB(A)						
	Tone 44	Tone 8	Tone 2	Tone 21	Tone 31	Tone 5	Tone 44	Tone 8	Tone 2	Tone 21	Tone 31	Tone 5		
15°	107.4	108.2	107.3	105.9	106.3	105.3	104.2	105.3	104.7	103.3	104.6	102.7		
45°	112.7	114.7	113.5	111.8	102.4	104.6	109.8	111.2	110.8	109	100.3	101.7		
75°	115.3	116.4	115.6	115.4	113.3	112.5	112.4	112.8	112.8	112.5	110.7	110.1		
105°	115.3	116.4	115.6	115.6	113.5	113	112.3	112.9	113	112.7	111	110		
135°	112.6	114.7	113.5	112.3	102.5	104.8	109.7	111.3	110.9	109.2	100.3	101.9		
165°	107.6	108.1	106.9	105.8	106.3	104.9	104.4	105.1	104.4	103.3	104.4	102.3		

NOTICE D'INSTALLATION & D'UTILISATION

Combiné TONAFASH® Xénon TL121XV2

AL121XDC024 & AL121XDC048 LIGHT OUTPUT



Category W-x-y (Wall mounted):
Wall mounted, where x is the maximum mounting height from the floor and y is the maximum length of the sides of the square floor area covered by the VAD.

Note: CPR approved units must be positioned sounder on top, beacon below.

Coverage Area According to EN54-23
(Only units in the following table are VdS Approved)

Unit	Category W	Power
AL121XDC024	W-2.4-4.8	11W
	V=55.3m	
AL121XDC048	W-2.5-5	14W
	V=62.5m	

Approved Beacon for EN54-23 Applications:
Clear lenses are compliant with EN54-23



- All models are approved for use as Audible Signal Appliance for use as General Signaling: UL464A & CSA C22.2 No 205-17
- Type 4 / 4X / 3R / 13, IP66

- 40°C to +66°C / -40°C to +151°F

General Signaling Canada:

AL121XDC024: -40°C to +55°C / -40°F to +131°F

AL121XAC230: -40°C to +40°C / -40°F to +104°F

- To maintain Ingress Protection, cable entries must be fitted with suitably rated cable glands or stopping plugs
- Mounting - Units can be mounted using 2-off ø9mm holes in the mounting lugs or through the back of the housing using the supplied gasket.
- EOL Monitoring (DC Only): End of Line Devices may be fitted between the +ve & -ve terminals of the PCBA. Please ensure that the device legs meet the wire size range stated for the connection terminals and are fitted correctly in order to avoid a short. Refer to the compatible control panel specification for EOL device values and ratings.

Model	Nominal Voltage	Voltage Range	Nominal Operating Current*		Max Operating RMS [#]	
			Beacon	Sounder P2 / P3	Beacon	Sounder P2 / P3
AL121XDC012	12V dc	11.5-14Vdc	341mA	376mA / 440mA	531mA	430mA / 930mA
AL121XDC024	24V dc	20-28Vdc	250mA	430mA / 930mA	271mA	
AL121XDC048	48V dc	42-52Vdc	170mA	223mA / 453mA	170mA	
AL112XAC115	115 Vac	103.5-126.5 Vac 50/60Hz	70mA	173mA / 340mA	58mA	181mA / 383mA
AL121XAC230	230 Vac	207-240 Vac 50/60Hz	35mA	105mA / 212mA		

*Nominal Voltage, 1Hz Flash Pattern & Tone 12 [#]Worst-case input voltage and worst case flash pattern



Attention: Installation must be carried out by an electrician in compliance with the National Electrical Code, NFPA 70 or CSA 22.1 Canadian Electrical Code, Part I, Safety Standard for Electrical Installations, Section 32. / L'installation doit exclusivement être réalisée par du personnel qualifié, conformément au code national d'électricité américain, NFPA 70 ou CSA 22.1 Code canadien de l'électricité, première partie, norme de sécurité relative aux installations électriques, Section 32

The units have been tested and approved to DNVGL-CG-0339 & EN54-3:2014 incl. A1:2019 for the installation on ships in the following locations:

Temperature: A, B, C & D (Machinery spaces, control rooms, accommodation, bridge, inside cubicles, desks, etc..., pump rooms, holds, rooms with no heating, Open deck, masts)

Humidity: A & B (All locations)

Vibration: A (Bulkheads, Beams, Deck, Bridge)

EMC: A & B (All locations Including Bridge & open deck)

Enclosure: A, B & C (Control rooms, accommodation, bridge, engine room, open deck masts, below floor plates in engine room)

The units comply with Solas 74 Chapter II-2, Regulation 7 & Chapter X, Regulation 3 for installation on ships in the following locations:

Temperature: D (Location -25° to +70°C)

Vibration: A (General Applications)

EMC: B (Bridge & Open Deck Zone)

Enclosure: IP56, Salt mist

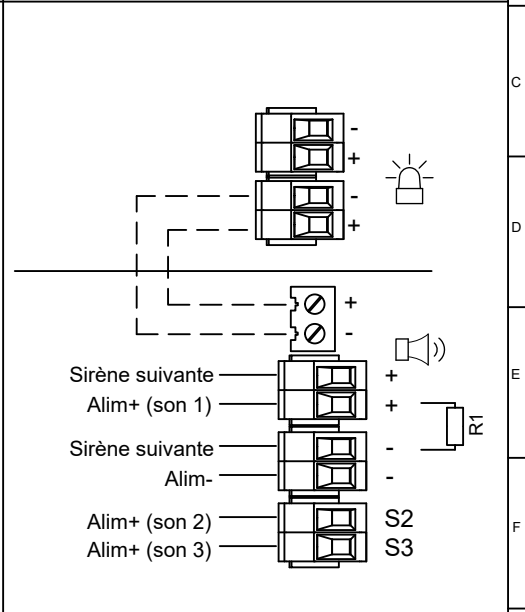
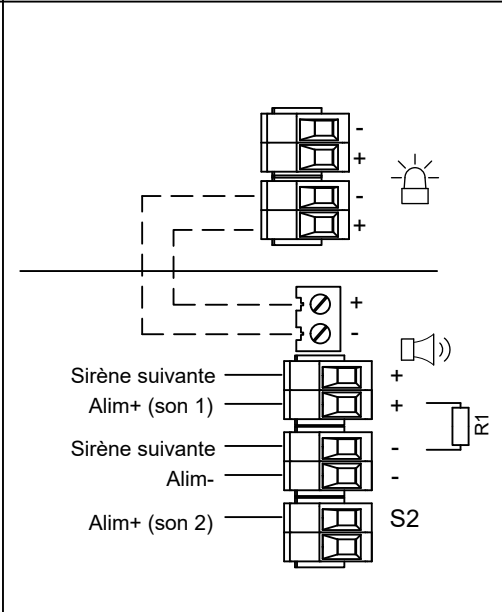
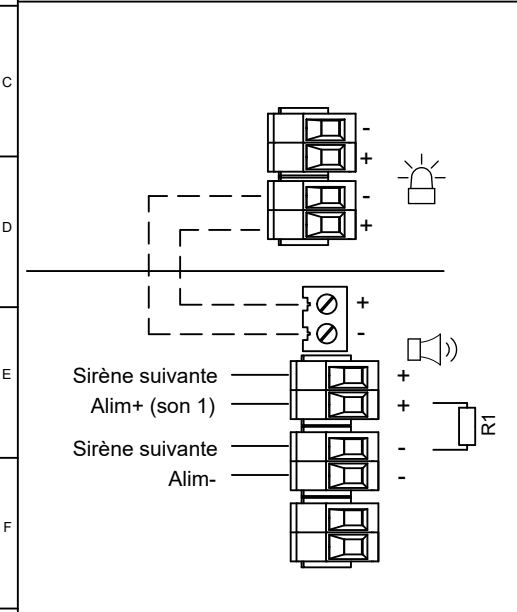
ISSUE	MOD No.	REASON - INITIAL - DATE
A		INTRODUCTION RSR - 25/06/2021

— — CÂBLAGE ENTRE LE FEU & LA SIRÈNE
FAIT EN USINE

OPTION: RÉSISTANCE POUR LA SURVEILLANCE DE LIGNE :
NON FOURNIE. VALEURS MINIMALES RECOMMANDÉES:
14V MAX = 120Ω MIN, 2W MIN OU 1KΩ MIN, 0,5W MIN
28V MAX = 470Ω MIN, 2W MIN OU 2,4KΩ MIN, 0,5W MIN

Activation simultanée de la sirène et du feu (par défaut)

Configuration pour 1 son	Config.: 1a	Configuration pour 2 sons	Config.: 1b	Configuration pour 3 et 4 sons	Config.: 1c
Surveillance de ligne Pilotage via Alim+ (par défaut)		Alim- commune Pilotage via Alim+ (par défaut)		Alim- commune Pilotage via Alim+ (par défaut)	
Son 1 : alimenter Alim+ et Alim- (son 1)		Son 1 : alimenter Alim+ (son 1) et Alim- Son 2 : alimenter Alim+ (son 2) et Alim-		Son 1 : alimenter Alim+ (son 1) et Alim- Son 2 : alimenter Alim+ (son 2) et Alim- Son 3 : alimenter Alim+ (son 3) et Alim- Son 4 : alimenter Alim+ (son 2), Alim+ (son 3) et Alim-	



DRAWING TO BS8888:2000 GEOMETRIC TOLERANCES TO ISO1101:1983 LINEAR DIMENSIONAL TOLS ANGULAR DIMENSIONAL TOLS	DRAWN	DATE
	R.S.RAIT	25/06/2021
	CHECKED	DATE
STANDARDS ALERTALARM RANGE	B.ISARD	25/06/2021
	APPROVED	DATE
	R.N.POTTS	25/06/2021

SURFACE FINISH	WEIGHT (Kg)
MATERIAL	
ALTERNATIVE MATERIAL	

THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE
MATTER THEREIN IS COMMUNICATED IN CONFIDENCE AND
IS THE COPYRIGHT PROPERTY OF EUROPEAN SAFETY
SYSTEMS LTD. NEITHER THE WHOLE OR ANY EXTRACT MAY
BE DISCLOSED, LOANED, COPIED OR USED FOR
MANUFACTURING OR TENDERING PURPOSES WITHOUT THEIR
WRITTEN CONSENT.

© EUROPEAN SAFETY SYSTEMS LTD.
AS PER LATEST DATE OF ISSUE SHOWN ABOVE

e2s
warning signals

EUROPEAN SAFETY SYSTEMS LTD
IMPRESS HOUSE
MANSELL ROAD
LONDON W3 7QH
WWW.E2S.COM

ALL DIMENSIONS IN MM IF IN DOUBT, ASK - DO NOT SCALE			A3
TITLE AL112NX & AL121X DC COMBINED SOUNDER & XENON WIRING DIAGRAMS			
SCALE	SHEET	DRAWING NUMBER	
NTS	1 OF 6	D221-06-202	

ISSUE	MOD No.	REASON - INITIAL - DATE
A		INTRODUCTION RSR - 25/06/2021

— — CÂBLAGE ENTRE LE FEU & LA SIRÈNE
FAIT EN USINE

OPTION: RÉSISTANCE POUR LA SURVEILLANCE DE LIGNE :
NON FOURNIE. VALEURS MINIMALES RECOMMANDÉES:
14V MAX = 120Ω MIN, 2W MIN OU 1KΩ MIN, 0.5W MIN
28V MAX = 470Ω MIN, 2W MIN OU 2.4KΩ MIN, 0.5W MIN

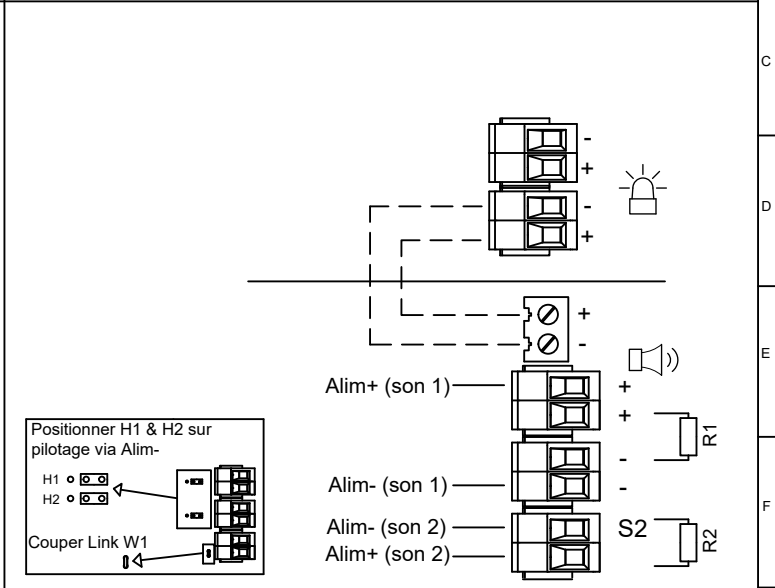
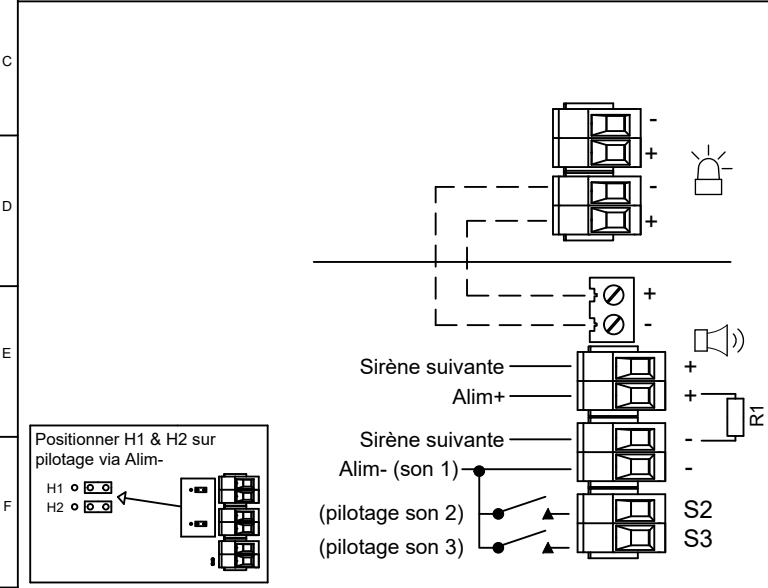
CONTACTS POUR LA SÉLECTION
DES SONS NON INCLUS

Activation simultanée de la sirène et du feu (par défaut)

3 et 4 sons. Activation sans tension des sons 2, 3 et 4. Alim+ commune Positionner H1 & H2 sur pilotage via Alim- (voir ci-dessous)	Config.: 2	Configuration pour 2 sons Alimentation indépendante des sons Surveillance de ligne par inversion de polarité Positionner H1 & H2 sur pilotage via Alim- (voir ci-dessous)	Config.: 3
---	------------	--	------------

Son 1 : alimenter Alim+ et Alim- (son1)
Son 2 : alimenter Alim+ et Alim- (son1) et connecter S2 à Alim- (son 1)
Son 3 : alimenter Alim+ et Alim- (son1) et connecter S3 à Alim- (son 1)
Son 4 : alimenter Alim+ et Alim- (son1) et connecter S2 et S3 à Alim- (son 1)

Son 1 : alimenter Alim+ (son1) et Alim- (son 1)
Son 2 : alimenter Alim+ (son1) et Alim- (son 1) et connecter Alim- (son 2) à Alim- (son 1)



DRAWING TO BS8888:2000 GEOMETRIC TOLERANCES TO ISO1101:1983 LINEAR DIMENSIONAL TOLS ANGULAR DIMENSIONAL TOLS	DRAWN	DATE	SURFACE FINISH	WEIGHT (Kg)	THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER THEREIN IS COMMUNICATED IN CONFIDENCE AND IS THE COPYRIGHT PROPERTY OF EUROPEAN SAFETY SYSTEMS LTD. NEITHER THE WHOLE OR ANY EXTRACT MAY BE DISCLOSED, LOANED, COPIED OR USED FOR MANUFACTURING OR TENDERING PURPOSES WITHOUT THEIR WRITTEN CONSENT. EUROPEAN SAFETY SYSTEMS LTD. AS PER LATEST DATE OF ISSUE SHOWN ABOVE.	EUROPEAN SAFETY SYSTEMS LTD IMPRESS HOUSE MANSELL ROAD LONDON W3 7QH WWW.E2S.COM	ALL DIMENSIONS IN MM IF IN DOUBT, ASK - DO NOT SCALE	A3
	CHECKED	DATE					MATERIAL	
	STANDARDS	B.ISARD	25/06/2021	ALTERNATIVE MATERIAL			SCALE	
ALERTALARM RANGE	APPROVED	DATE			NTS	2 of 6	D221-06-202	
	R.N.POTTS	25/06/2021						

ISSUE	MOD No.	REASON - INITIAL - DATE
A		INTRODUCTION RSR - 25/06/2021

— — CÂBLAGE ENTRE LE FEU & LA SIRÈNE
FAIT EN USINE

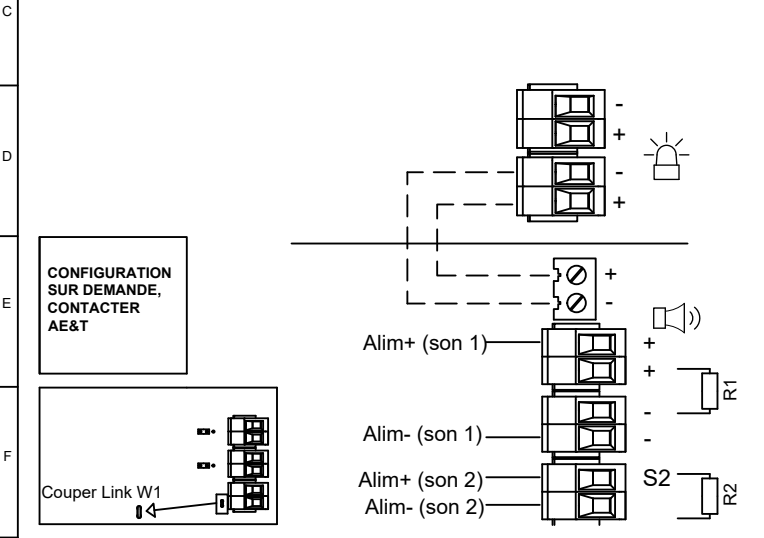
OPTION: RÉSISTANCE POUR LA SURVEILLANCE DE LIGNE :
NON FOURNIE. VALEURS MINIMALES RECOMMANDÉES:
14V MAX = 120Ω MIN, 2W MIN OU 1KΩ MIN, 0.5W MIN
28V MAX = 470Ω MIN, 2W MIN OU 2.4KΩ MIN, 0.5W MIN

CONTACTS POUR LA SÉLECTION
DES SONS NON INCLUS

Activation simultanée de la sirène et du feu (par défaut)

Configuration pour 2 sons Config.: 4

Surveillance de ligne (utiliser des relais / modules adaptés)
Alimentation indépendante des sons
Ne pas utiliser pour la surveillance par inversion de polarité
Son 1 : alimenter Alim+ (son 1) et Alim- (son 1)
Son 2 : alimenter Alim+ (son 2) et Alim- (son 2)



DRAWING TO BS8888:2000 GEOMETRIC TOLERANCES TO ISO1101:1983 LINEAR DIMENSIONAL TOLS ANGULAR DIMENSIONAL TOLS	DRAWN	R.S.RAIT	DATE	25/06/2021
	CHECKED	B.ISARD	DATE	25/06/2021
	APPROVED	R.N.POTTS	DATE	25/06/2021

SURFACE FINISH	WEIGHT (Kg)
MATERIAL	
ALTERNATIVE MATERIAL	

THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER THEREIN IS COMMUNICATED IN CONFIDENCE AND IS THE COPYRIGHT PROPERTY OF EUROPEAN SAFETY SYSTEMS LTD. NEITHER THE WHOLE OR ANY EXTRACT MAY BE DISCLOSED, LOANED, COPIED OR USED FOR MANUFACTURING OR TENDERING PURPOSES WITHOUT THEIR WRITTEN CONSENT.

© EUROPEAN SAFETY SYSTEMS LTD.
AS PER LATEST DATE OF ISSUE SHOWN ABOVE

e2s warning signals

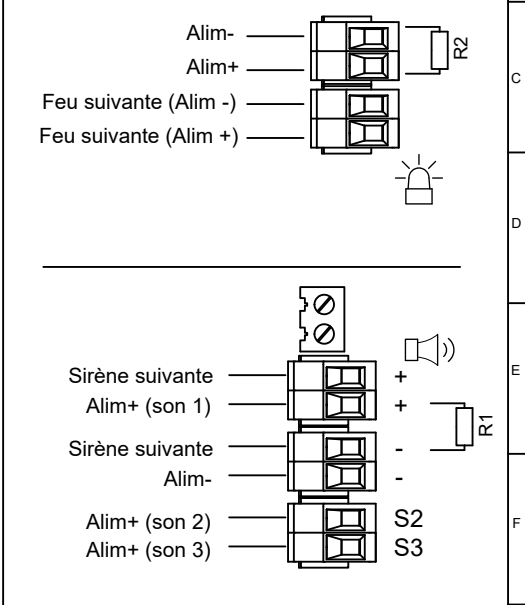
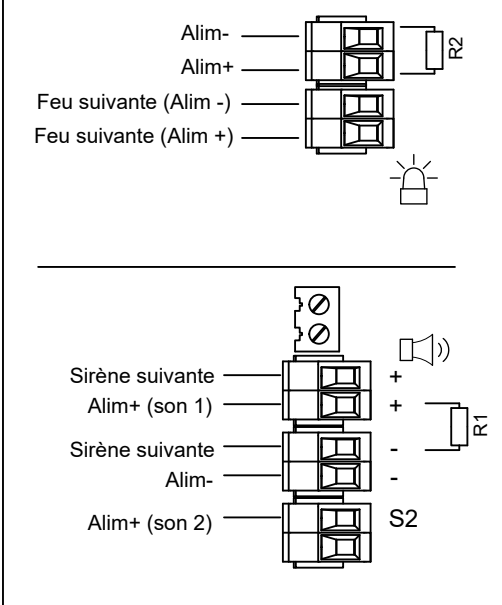
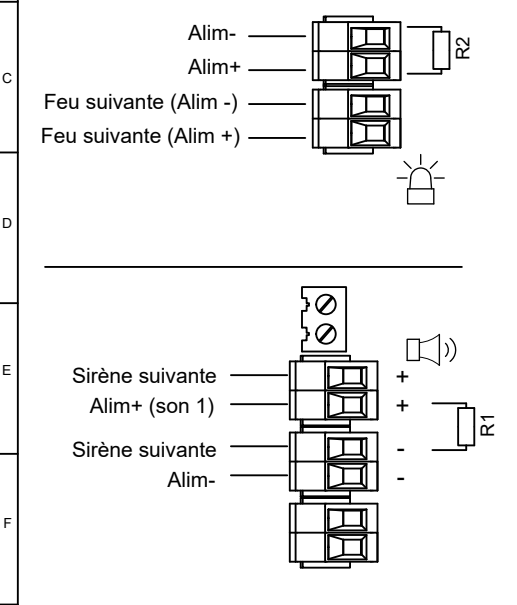
EUROPEAN SAFETY SYSTEMS LTD
IMPRESS HOUSE
MANSELL ROAD
FELTON
LONDON W13 7QH
WWW.E2S.COM

ALL DIMENSIONS IN MM IF IN DOUBT, ASK - DO NOT SCALE			A3
TITLE AL112NX & AL121X DC COMBINED SOUNDER & XENON WIRING DIAGRAMS			
SCALE	SHEET	DRAWING NUMBER	
NTS	3 of 6	D221-06-202	



OPTION: RÉSISTANCE POUR LA SURVEILLANCE DE LIGNE :
 NON FOURNIE. VALEURS MINIMALES RECOMMANDÉES:
 14V MAX = 120Ω MIN, 2W MIN OU 1KΩ MIN, 0.5W MIN
 28V MAX = 470Ω MIN, 2W MIN OU 2.4KΩ MIN, 0.5W MIN

Activation indépendante de la sirène et du feu (retirer le câblage entre le feu et la sirène)

Configuration pour 1 son	Config.: 5a	Configuration pour 2 sons	Config.: 5b	Configuration pour 3 et 4 sons	Config.: 5c
Surveillance de ligne Pilotage via Alim+ (par défaut)		Alim- commune Pilotage via Alim+ (par défaut)		Alim- commune Pilotage via Alim+ (par défaut)	
Son 1 : alimenter Alim+ (son 1) et Alim-		Son 1 : alimenter Alim+ (son 1) et Alim- Son 2 : alimenter Alim+ (son 2) et Alim-		Son 1 : alimenter Alim+ (son 1) et Alim- Son 2 : alimenter Alim+ (son 2) et Alim- Son 3 : alimenter Alim+ (son 3) et Alim- Son 4 : alimenter Alim+ (son 2), Alim+ (son 3) et Alim-	



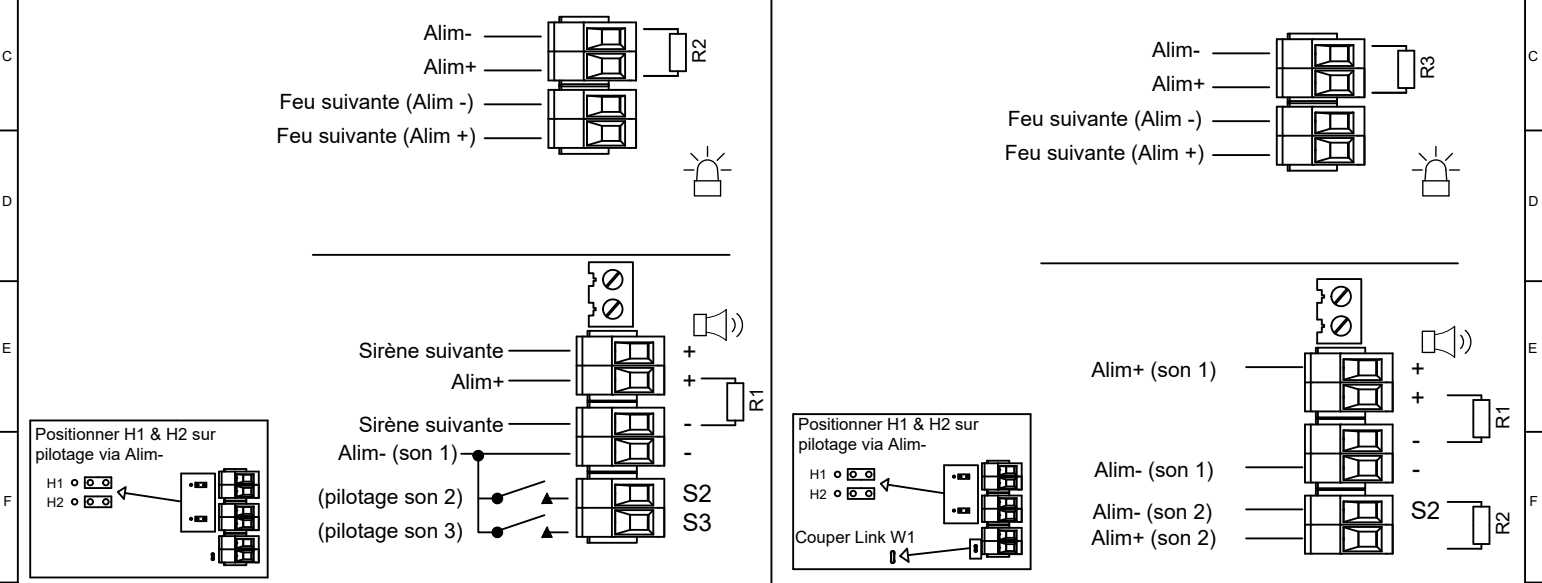
DRAWING TO BS8888:2000 GEOMETRIC TOLERANCES TO ISO1101:1983 LINEAR DIMENSIONAL TOLS ANGULAR DIMENSIONAL TOLS	DRAWN	DATE	SURFACE FINISH	WEIGHT (Kg)	THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER THEREIN IS COMMUNICATED IN CONFIDENCE AND IS THE COPYRIGHT PROPERTY OF EUROPEAN SAFETY SYSTEMS LTD. NEITHER THE WHOLE OR ANY EXTRACT MAY BE DISCLOSED, LOANED, COPIED OR USED FOR MANUFACTURING OR TENDERING PURPOSES WITHOUT THEIR WRITTEN CONSENT.	 <small>warning signals</small> EUROPEAN SAFETY SYSTEMS LTD IMPRESS HOUSE MANSELL ROAD FULFORD LONDON W13 7QH WWW.E2S.COM				
	CHECKED	DATE	MATERIAL				 EUROPEAN SAFETY SYSTEMS LTD. AS PER LATEST DATE OF ISSUE SHOWN ABOVE	ALL DIMENSIONS IN MM IF IN DOUBT, ASK - DO NOT SCALE		
	STANDARDS	DATE						ALTERNATIVE MATERIAL		TITLE AL112NX & AL121X DC COMBINED SOUNDER & XENON WIRING DIAGRAMS
ALERTALARM RANGE	APPROVED	DATE	SCALE			SHEET				DRAWING NUMBER
	R.S.RAIT	25/06/2021					NTS	4 OF 6	D221-06-202	
	B.ISARD	25/06/2021								
	R.N.POTTS	25/06/2021								



1	2	3	4	5	6	7	8	9	10
<div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 5px;">  <p>OPTION: RÉSISTANCE POUR LA SURVEILLANCE DE LIGNE : NON FOURNIE. VALEURS MINIMALES RECOMMANDÉES: 14V MAX = 120Ω MIN, 2W MIN OU 1KΩ MIN, 0.5W MIN 28V MAX = 470Ω MIN, 2W MIN OU 2.4KΩ MIN, 0.5W MIN</p> </div> <div style="border: 1px solid black; padding: 5px;">  <p>CONTACTS POUR LA SÉLECTION DES SONS NON INCLUS</p> </div> </div>							ISSUE A	MOD No.	REASON - INITIAL - DATE INTRODUCTION RSR - 25/06/2021

Activation indépendante de la sirène et du feu (retirer le câblage entre le feu et la sirène)

3 et 4 sons. Activation sans tension des sons 2, 3 et 4. Alim+ commune Positionner H1 & H2 sur pilotage via Alim- (voir ci-dessous)	Config.: 6	Configuration pour 2 sons Alimentation indépendante des sons Surveillance de ligne par inversion de polarité Positionner H1 & H2 sur pilotage via Alim- (voir ci-dessous)	Config.: 7
---	------------	--	------------

Son 1 : alimenter Alim+ et Alim- (son1) Son 2 : alimenter Alim+ et Alim- (son1) et connecter S2 à Alim- (son 1) Son 3 : alimenter Alim+ et Alim- (son1) et connecter S3 à Alim- (son 1) Son 4 : alimenter Alim+ et Alim- (son1) et connecter S2 et S3 à Alim- (son 1)	Son 1 : alimenter Alim+ (son1) et Alim- (son 1) Son 2 : alimenter Alim+ (son1) et Alim- (son 1) et connecter Alim- (son 2) à Alim- (son 1)
--	---



G	DRAWING TO BS8888:2000 GEOMETRIC TOLERANCES TO ISO1101:1983 LINEAR DIMENSIONAL TOLS ANGULAR DIMENSIONAL TOLS	DRAWN R.S.RAIT	DATE 25/06/2021	SURFACE FINISH	WEIGHT (Kg)	THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER THEREIN IS COMMUNICATED IN CONFIDENCE AND IS THE COPYRIGHT PROPERTY OF EUROPEAN SAFETY SYSTEMS LTD. NEITHER THE WHOLE OR ANY EXTRACT MAY BE DISCLOSED, LOANED, COPIED OR USED FOR MANUFACTURING OR TENDERING PURPOSES WITHOUT THEIR WRITTEN CONSENT. EUROPEAN SAFETY SYSTEMS LTD. AS PER LATEST DATE OF ISSUE SHOWN ABOVE	 warning signals EUROPEAN SAFETY SYSTEMS LTD IMPRESS HOUSE MANSELL ROAD LONDON W3 7QH WWW.E2S.COM	ALL DIMENSIONS IN MM IF IN DOUBT, ASK - DO NOT SCALE		A3	
	STANDARDS ALERTALARM RANGE	CHECKED B.ISARD	DATE 25/06/2021	MATERIAL	ALTERNATIVE MATERIAL			TITLE AL112NX & AL121X DC COMBINED SOUNDER & XENON WIRING DIAGRAMS	SCALE NTS	SHEET 5 OF 6	DRAWING NUMBER D221-06-202
		APPROVED R.N.POTTS	DATE 25/06/2021								

1	2	3	4	5	6	7	8	9	10
							ISSUE A	MOD No.	REASON - INITIAL - DATE INTRODUCTION RSR - 25/06/2021

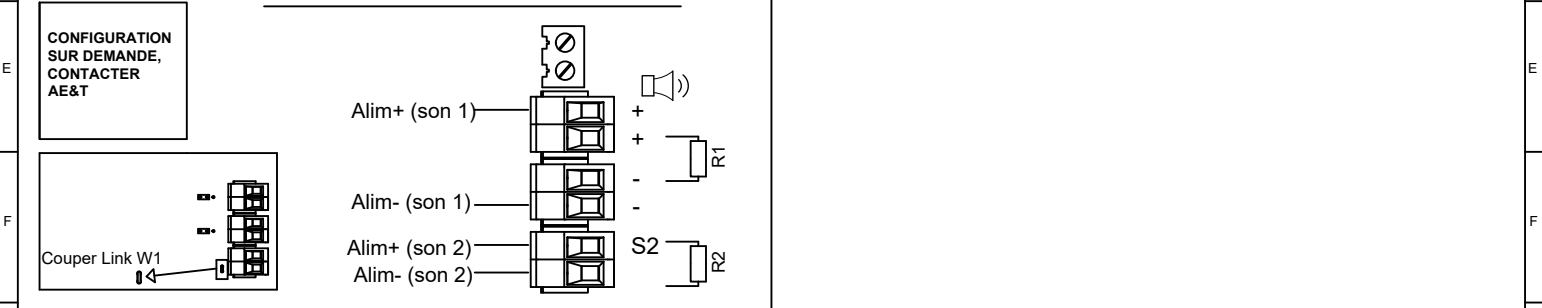
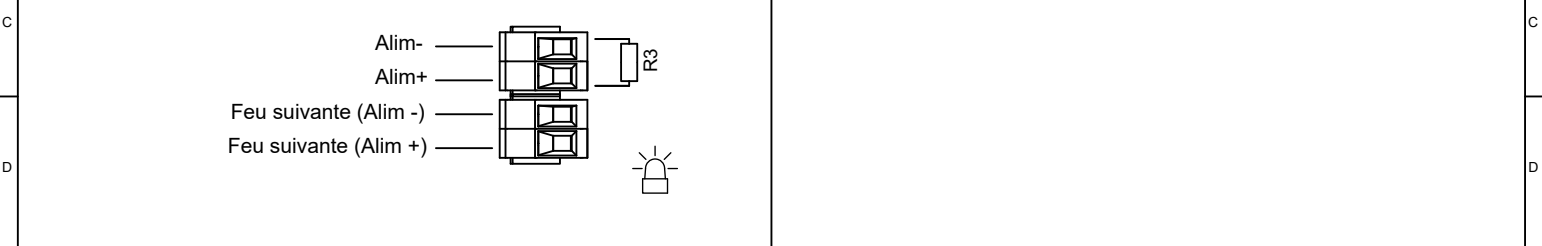
OPTION: RÉSISTANCE POUR LA SURVEILLANCE DE LIGNE :
NON FOURNIE. VALEURS MINIMALES RECOMMANDÉES:
14V MAX = 120Ω MIN, 2W MIN OU 1KΩ MIN, 0.5W MIN
28V MAX = 470Ω MIN, 2W MIN OU 2.4KΩ MIN, 0.5W MIN

CONTACTS POUR LA SÉLECTION
DES SONS NON INCLUS

Activation indépendante de la sirène et du feu (retirer le câblage entre le feu et la sirène)

Configuration pour 2 sons Config.: 8
Surveillance de ligne (utiliser des relais / modules adaptés)
Alimentation indépendante des sons
Ne pas utiliser pour la surveillance par inversion de polarité

Son 1 : alimenter Alim+ (son 1) et Alim- (son 1)
Son 2 : alimenter Alim+ (son 2) et Alim- (son 2)



G	DRAWING TO BS8888:2000 GEOMETRIC TOLERANCES TO ISO1101:1983 LINEAR DIMENSIONAL TOLS ANGULAR DIMENSIONAL TOLS	DRAWN R.S.RAIT	DATE 25/06/2021	SURFACE FINISH	WEIGHT (Kg)	THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER THEREIN IS COMMUNICATED IN CONFIDENCE AND IS THE COPYRIGHT PROPERTY OF EUROPEAN SAFETY SYSTEMS LTD. NEITHER THE WHOLE OR ANY EXTRACT MAY BE DISCLOSED, LOANED, COPIED OR USED FOR MANUFACTURING OR TENDERING PURPOSES WITHOUT THEIR WRITTEN CONSENT. © EUROPEAN SAFETY SYSTEMS LTD. AS PER LATEST DATE OF ISSUE SHOWN ABOVE	 EUROPEAN SAFETY SYSTEMS LTD IMPRESS HOUSE MANSELL ROAD FULFORD LONDON W3 7QH WWW.E2S.COM	ALL DIMENSIONS IN MM IF IN DOUBT, ASK - DO NOT SCALE		A3	
	STANDARDS ALERTALARM RANGE	CHECKED B.ISARD	DATE 25/06/2021	MATERIAL	ALTERNATIVE MATERIAL			TITLE AL112NX & AL121X DC COMBINED SOUNDER & XENON WIRING DIAGRAMS	SCALE NTS	SHEET 6 of 6	DRAWING NUMBER D221-06-202
		APPROVED R.N.POTTS	DATE 25/06/2021								

ISSUE	MOD No	REASON - INITIAL - DATE
A		INTRODUCTION RSR - 25/06/2021

— — CÂBLAGE ENTRE LE FEU & LA SIRÈNE
FAIT EN USINE

CONTACTS POUR LA SÉLECTION
DES SONS NON INCLUS

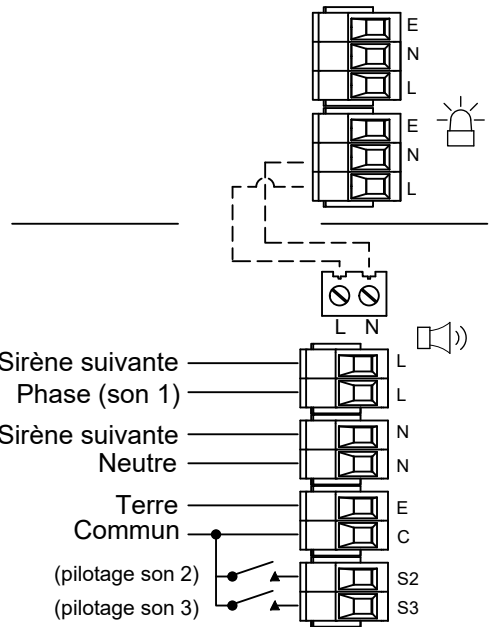
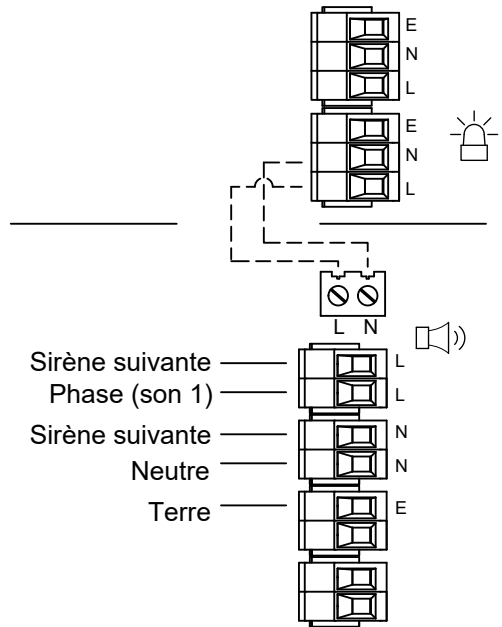
Activation simultanée de la sirène et du feu (par défaut)

Configuration pour 1 son
Son 1 : alimenter Phase (son 1) et Neutre

Config.: 1a Configuration pour 2 et 3 sons
Config.: 1b

Son 1 : alimenter Phase (son 1) et Neutre

Son 1 : alimenter Phase (son 1) et Neutre
Son 2 : alimenter Phase (son 1) et Neutre et connecter Commun à S2
Son 3 : alimenter Phase (son 1) et Neutre et connecter Commun à S3



DRAWING TO BS8888:2000 GEOMETRIC TOLERANCES TO ISO1101:1983 LINEAR DIMENSIONAL TOLS ANGULAR DIMENSIONAL TOLS	DRAWN	DATE	SURFACE FINISH	WEIGHT (Kg)
	R.S.RAIT	25/06/2021		
	CHECKED	DATE	MATERIAL	
	B.ISARD	25/06/2021	ALTERNATIVE MATERIAL	
STANDARDS ALERTALARM RANGE	APPROVED	DATE	© EUROPEAN SAFETY SYSTEMS LTD. AS PER LATEST DATE OF ISSUE SHOWN ABOVE	
	R.N.POTTS	25/06/2021		


THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER THEREIN IS COMMUNICATED IN CONFIDENCE AND IS THE COPYRIGHT PROPERTY OF EUROPEAN SAFETY SYSTEMS LTD. NEITHER THE WHOLE OR ANY EXTRACT MAY BE DISCLOSED, LOANED, COPIED OR USED FOR MANUFACTURING OR TENDERING PURPOSES WITHOUT THEIR WRITTEN CONSENT.	© EUROPEAN SAFETY SYSTEMS LTD. AS PER LATEST DATE OF ISSUE SHOWN ABOVE

ALL DIMENSIONS IN MM IF IN DOUBT, ASK - DO NOT SCALE		A3
SCALE	SHEET	DRAWING NUMBER
NTS	1 OF 2	D221-06-206

EUROPEAN SAFETY SYSTEMS LTD IMPRESS HOUSE MANSELL ROAD LONDON W3 7QH WWW.E2S.COM

ISSUE	MOD No	REASON - INITIAL - DATE
A		INTRODUCTION RSR - 25/06/2021

CONTACTS POUR LA SÉLECTION
DES SONS NON INCLUS



Activation indépendante de la sirène et du feu (retirer le câblage entre le feu et la sirène)

Configuration pour 1 son Config.: 1a

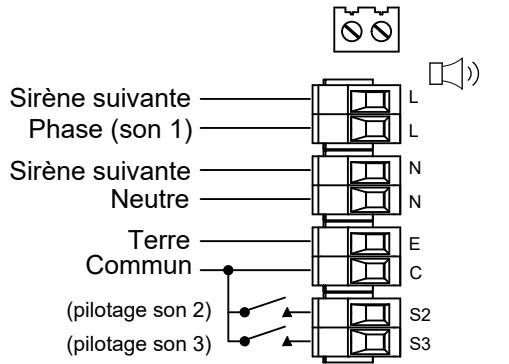
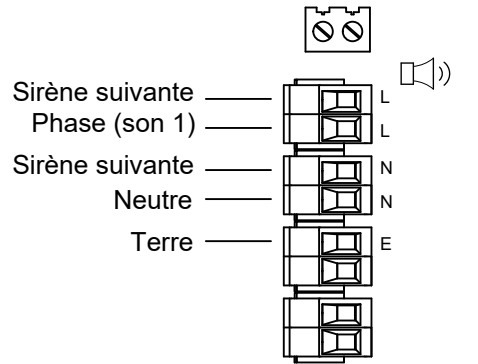
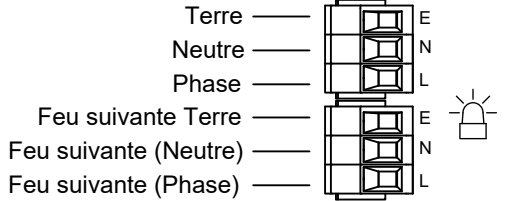
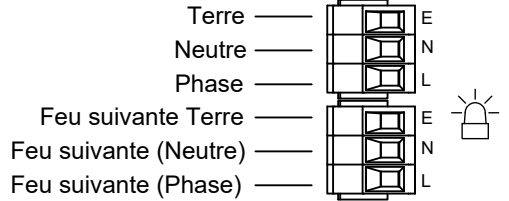
Son 1 : alimenter Phase (son 1) et Neutre

Configuration pour 2 et 3 sons Config.: 1b

Son 1 : alimenter Phase (son 1) et Neutre

Son 2 : alimenter Phase (son 1) et Neutre et connecter Commun à S2

Son 3 : alimenter Phase (son 1) et Neutre et connecter Commun à S3



DRAWING TO BS8888:2000 GEOMETRIC TOLERANCES TO ISO1101:1983 LINEAR DIMENSIONAL TOLS ANGULAR DIMENSIONAL TOLS	DRAWN	R.S.RAIT	DATE	25/06/2021
	CHECKED	B.ISARD	DATE	25/06/2021
	APPROVED	R.N.POTTS	DATE	25/06/2021
	STANDARDS ALERTALARM RANGE			

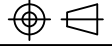
SURFACE FINISH	WEIGHT (Kg)
MATERIAL	
ALTERNATIVE MATERIAL	

THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER THEREIN IS COMMUNICATED IN CONFIDENCE AND IS THE COPYRIGHT PROPERTY OF EUROPEAN SAFETY SYSTEMS LTD. NEITHER THE WHOLE OR ANY EXTRACT MAY BE DISCLOSED, LOANED, COPIED OR USED FOR MANUFACTURING OR TENDERING PURPOSES WITHOUT THEIR WRITTEN CONSENT.

EUROPEAN SAFETY SYSTEMS LTD.
AS PER LATEST DATE OF ISSUE SHOWN ABOVE



EUROPEAN SAFETY SYSTEMS LTD
IMPRESS HOUSE
MANSELL ROAD
LONDON W3 7QH
WWW.E2S.COM

ALL DIMENSIONS IN MM IF IN DOUBT, ASK - DO NOT SCALE			A3
TITLE AL112NX & AL121X COMBINED SOUNDER & XENON WIRING DIAGRAMS			
SCALE	SHEET	DRAWING NUMBER	
NTS	2 OF 2	D221-06-206	

Stage 1 Set DIP SW 1 Tone No.	Tone Description	Tone Visual	Stage 1 & 2 DIP SW 1/2 Settings 1 2 3 4 5 6	Stage 3 Set DIP SW 1 (S3)	Stage 4 Set DIP SW 1 (S2 + S3)
1	1000Hz PFEER Toxic Gas		0 0 0 0 0 0	2	44
2	1200/500Hz @ 1Hz DIN /PFEER P.T.A.P.		1 0 0 0 0 0	3	44
3	1000Hz @ 0.5Hz(1s on, 1s off) PFEER Gen. Alarm		0 1 0 0 0 0	2	44
4	1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s NF C 48-265		1 1 0 0 0 0	24	1
5	544Hz(100mS)/440Hz (400mS) NF S 32-001		0 0 1 0 0 0	19	1
6	1500/500Hz - (0.5s on, 0.5s off) x3 + 1s gap AS4428		1 0 1 0 0 0	44	1
7	500-1500Hz Sweeping 2 sec on 1 sec off AS4428		0 1 1 0 0 0	44	1
8	500/1200Hz @ 0.26Hz (3.3son, 0.5s off) Netherlands - NEN 2575		1 1 1 0 0 0	24	35
9	1000Hz (1s on, 1s off)x7 + (7s on, 1s off) IMO Code 1a		0 0 0 1 0 0	34	1
10	1000Hz (1s on, 1s off)x7 + (7s on, 1s off) IMO Code 1a		1 0 0 1 0 0	34	1
11	420Hz(0.5s on, 0.5s off)x3 + 1s gap ISO 8201 Temporal Pattern		0 1 0 1 0 0	1	8
12	1000Hz(0.5s on, 0.5s off)x3 + 1s gap ISO 8201 Temporal Pattern		1 1 0 1 0 0	1	8
13	422/775Hz - (0.85 on, 0.5 off) x3 + 1s gap NFPA - Temporal Coded		0 0 1 1 0 0	1	8
14	1000/2000Hz @ 1Hz Singapore		1 0 1 1 0 0	3	35
15	300Hz Continuous (f=300)		0 1 1 1 0 0	24	1
16	440Hz Continuous (f=440)		1 1 1 1 0 0	24	1
17	470Hz Continuous (f=470)		0 0 0 0 1 0	24	8
18	500Hz Continuous IMO code 2 (Low) (f=500)		1 0 0 0 1 0	24	8
19	554Hz Continuous (f=554)		0 1 0 0 1 0	24	8
20	660Hz Continuous (f=660)		1 1 0 0 1 0	24	35
21	800Hz IMO code 2 (High) (f=800)		0 1 0 1 0 0	24	35
22	1200Hz Continuous (f=1200)		1 0 1 0 1 0	24	35
23	2000Hz Continuous (f=2000)		0 1 1 0 1 0	3	35
24	2400Hz Continuous (f=2400)		1 1 1 0 1 0	20	35
25	440Hz @0.83Hz (50 cycles/minute) Intermittent (f=440, a=0.6, b=0.6)		0 0 0 1 1 0	44	8
26	470Hz @0.9Hz - 1.1s Intermittent (f=470, a=0.55, b=0.55)		1 0 0 1 1 0	44	8
27	470Hz @5Hz - (5 cycles/second) Intermittent (f=470, a=0.1, b=0.1)		0 1 0 1 1 0	44	8
28	544Hz @ 1.14Hz - 0.875s Intermittent (f=470, a=0.43, b=0.44)		1 1 0 1 1 0	24	8
29	655Hz @ 0.875Hz Intermittent (f=655, a=0.57, b=0.57)		0 0 1 1 1 0	24	8
30	660Hz @0.28Hz - 1.8sec on, 1.8sec off Intermittent (f=660, a=1.8, b=1.8)		1 0 1 1 1 0	24	8
31	660Hz @3.34Hz - 150mS on, 150mS off Intermittent (f=660, a=0.15, b=0.15)		0 1 1 1 1 0	24	8
32	745Hz @ 1Hz Intermittent (f=745, a=0.5, b=0.5)		1 1 1 1 1 0	24	8
33	800Hz - 0.25sec on, 1 sec off Intermittent (f=800, a=0.25, b=1)		0 0 0 0 0 1	24	8
34	800Hz @ 2Hz IMO code 3.a (High) Intermittent (f=800, a=0.25, b=0.25)		1 0 0 0 0 1	24	19
35	1000Hz @ 1Hz Intermittent (f=1000, a=0.5, b=0.5)		0 1 0 0 0 1	24	19
36	2400Hz @ 1Hz Intermittent (f=2400, a=0.5, b=0.5)		1 1 0 0 0 1	24	19
37	2900Hz @ 5Hz Intermittent (f=2900, a=0.1, b=0.1)		0 0 1 0 0 1	24	19
38	363/518Hz @ 1Hz Alternating (f=363, f1=518, a=0.1)		1 0 1 0 0 1	8	19
39	450/500Hz @ 2Hz Alternating (f=450, f1=500, a=0.25)		0 1 1 0 0 1	8	19
40	554/440Hz @ 1Hz Alternating (f=440, f1=554, a=0.5)		1 1 1 0 0 1	24	19
41	554/440Hz @ 0.625Hz Alternating (f=440, f1=554, a=0.8)		0 0 0 1 0 1	8	19
42	561/760Hz @0.83Hz (50 cycles/minute) Alternating (f=561, f1=760, a=0.6)		1 0 0 1 0 1	8	19
43	780/600Hz @ 0.96Hz Alternating (f=600, f1=780, a=0.52)		0 1 0 1 0 1	8	19
44	800/1000Hz @ 2Hz Alternating (f=800, f1=1000, a=0.25)		1 1 0 1 0 1	24	19
45	970/800Hz @ 2Hz Alternating (f=800, f1=970, a=0.25)		0 0 1 1 0 1	8	19
46	800/1000Hz @ 0.875Hz Alternating (f=800, f1=1000, a=0.57)		1 0 1 1 0 1	24	19
47	2400/2900Hz @ 2Hz Alternating (f=2400, f1=2900, a=0.25)		0 1 1 1 0 1	24	19
48	500/1200Hz @ 0.3Hz Sweeping (f=500, f1=1200, a=3.34)		1 1 1 1 0 1	24	12
49	560/1055Hz @ 0.18Hz Sweeping (f=560, f1=1055, a=5.47)		0 0 0 0 1 1	24	12
50	560/1055Hz @ 3.3Hz Sweeping (f=560, f1=1055, a=0.3)		1 0 0 0 1 1	24	12
51	600/1250Hz @ 0.125Hz Sweeping (f=600, f1=1250, a=8)		0 1 0 0 1 1	24	12
52	660/1200Hz @ 1Hz Sweeping (f=660, f1=1200, a=1)		1 1 0 0 1 1	24	12
53	800/1000Hz @ 1Hz Sweeping (f=800, f1=1000, a=1)		0 1 0 0 1 1	24	12
54	800/1000Hz @ 7Hz Sweeping (f=800, f1=1000, a=0.14)		1 0 1 0 1 1	24	12
55	800/1000Hz @ 50Hz Sweeping (f=800, f1=1000, a=0.02)		0 1 0 1 0 1	24	12
56	2400/2900Hz @ 7Hz Sweeping (f=2400, f1=2900, a=0.14)		1 1 1 0 1 1	24	12
57	2400/2900Hz @ 1Hz Sweeping (f=2400, f1=2900, a=1)		0 0 0 1 1 1	24	12
58	2400/2900Hz @ 50Hz Sweeping (f=2400, f1=2900, a=0.02)		1 0 0 1 1 1	24	12
59	2500/3000Hz @ 2Hz Sweeping (f=2500, f1=3000, a=0.5)		0 1 0 1 1 1	24	12
60	2500/3000Hz @ 7.7Hz Sweeping (f=2500, f1=3000, a=0.13)		1 1 0 1 1 1	24	12
61	800Hz Motor Siren (f=800, a=1.6)		0 0 1 1 1 1	24	12
62	1200Hz Motor Siren (f=1200, a=2)		1 0 1 1 1 1	24	12
63	2400Hz Motor Siren (f=2400, a=1.7)		0 1 1 1 1 1	24	12
64	Simulated Bell		1 1 1 1 1 1	21	12

Page left Intentionally blank

Page left Intentionally blank