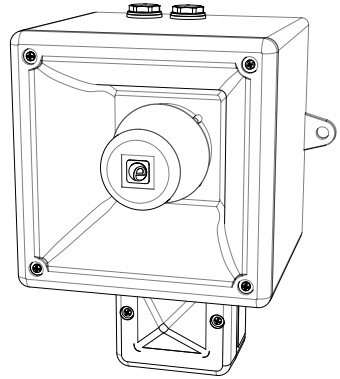


NOTICE D'INSTALLATION & D'UTILISATION

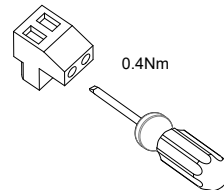
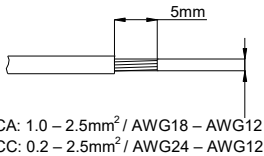
Combiné TONAFASH® Xénon TL112XV2

- -40°C à +66°C (104°F à 151°F)
- Type 4 / 4X / 3R / 13, IP66
- 2Kg (4.4lb)
- CE, TL112XV2024 & TL112XV2048 conformes CPR, Toutes les versions sont "UL Listed"



Référence	Tension Nominale	Tolérance (Tension)	Courant Nominal Feu*	Courant Nominal Sirène* P1 / P2	Pression sonore Nominale P1 / P2	Pression sonore max P1 / P2	Pression sonore Moyenne P1 / P2
TL112XV2012	12 Vcc	11.5-14Vcc	500mA	280mA / 376mA	113.7dB(A) / 116.6dB(A) Son No. 44 @ 1m	115dB(A) / 118.4dB(A) Son No. 4 @ 1m	110.8dB(A) / 114.8dB(A) Tous les sons @ 1m
TL112XV2024	24 Vcc	20-28 Vcc	250mA	225mA / 430mA			
TL112XV2048	48 Vcc	42-54 Vcc	170mA	122mA / 223mA			
TL112XV2115	115 Vca	103.5-126.5 Vca 50/60Hz	70mA	100mA / 173mA			
TL112XV2230	230 Vca	207-240 Vca 50/60Hz	35mA	65mA / 105mA			

*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.

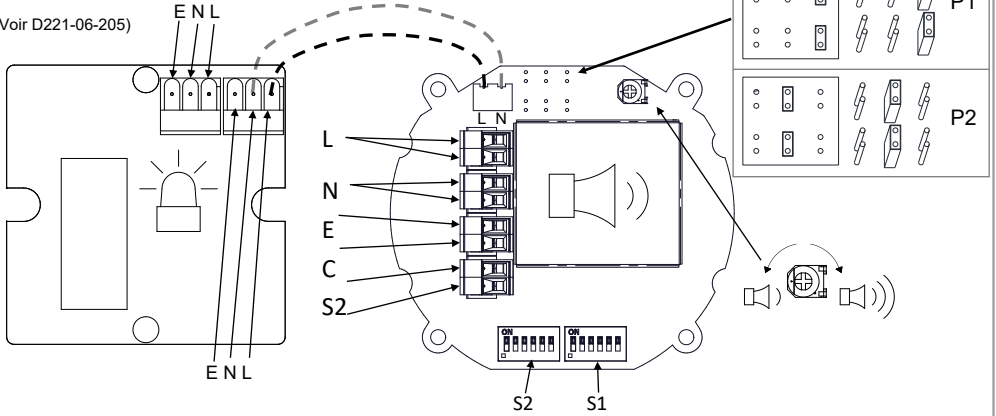
Atenção: Desconecte da fonte de alimentação antes da instalação ou serviço para evitar choque elétrico

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



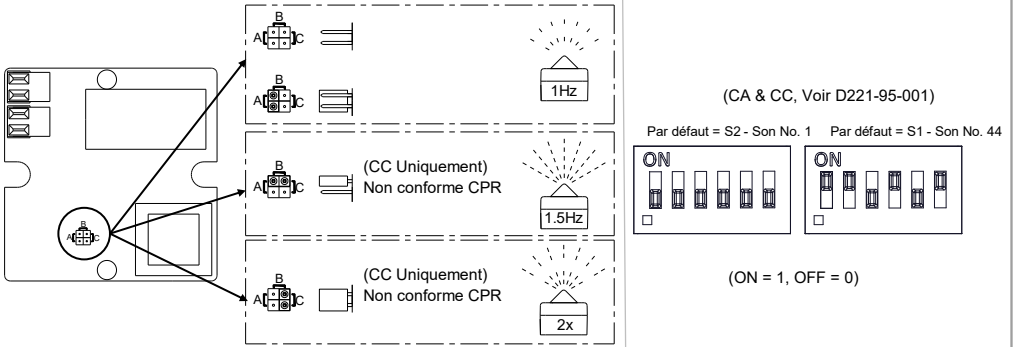
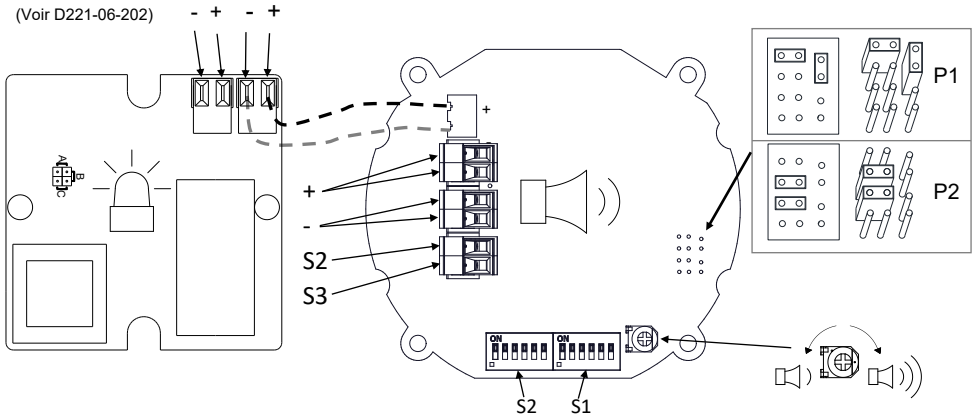
AC

(Voir D221-06-205)

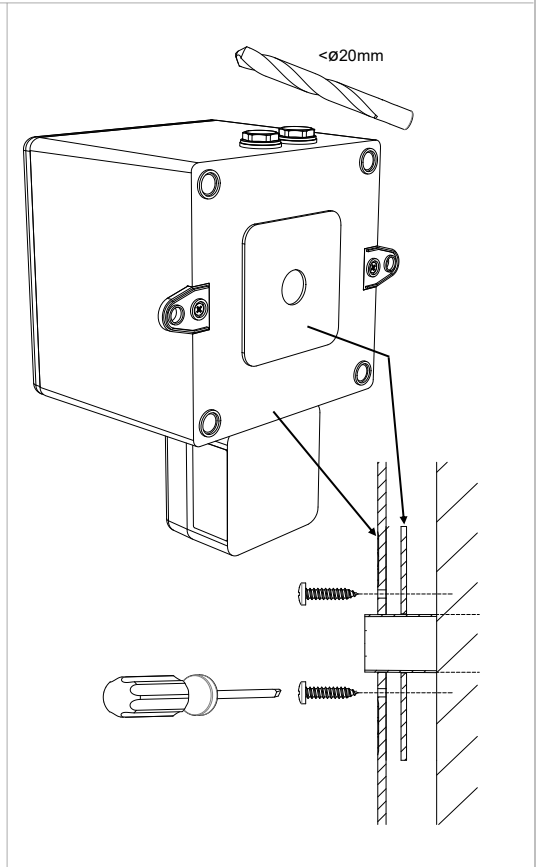
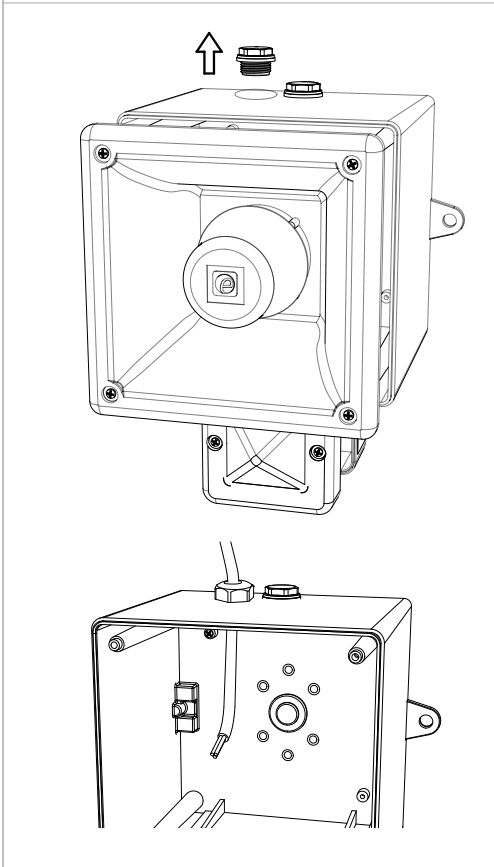
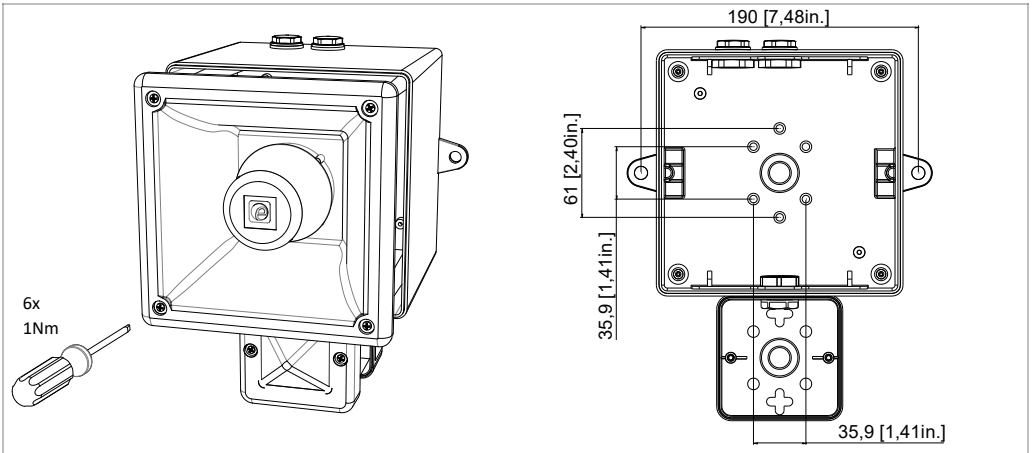


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(Voir D221-06-202)



NOTICE D'INSTALLATION & D'UTILISATION
 Combiné TONAFASH® Xénon TL112XV2



Construction Product Regulation

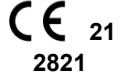
- AL112NXDC024 & AL112NXDC048 are compliant to EN54-3:2001+A1+A2 & EN54-23:2010
- VAD for use in fire detection and fire alarm systems installed in and around buildings
- Type 4 / 4X / 3R / 13, IP66, Independently tested to EN60529:1991, (IP33C Compliant to EN54-3)
- Type B Product, For Indoor & Outdoor 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: AL112NXDC024

Voltage Range: 20-28Vdc
 Nominal Voltage: 24Vdc
 Max Sounder Current: P1: 280mA @ 20Vdc; P2: 430mA @24Vdc
 Max Beacon Current: 271mA @ 20Vdc
 DP-2821-CPR-0110



S36282

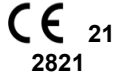


Order Code: AL112NXDC048

Voltage Range: 42-52Vdc
 Nominal Voltage: 48Vdc
 Max Sounder Current: P1: 280mA @42Vdc; P2: 430mA @42Vdc
 Max Beacon Current: 160mA @ 42Vdc
 DP-2821-CPR-0110



S36282



Approved Tones for EN54-3 Applications:

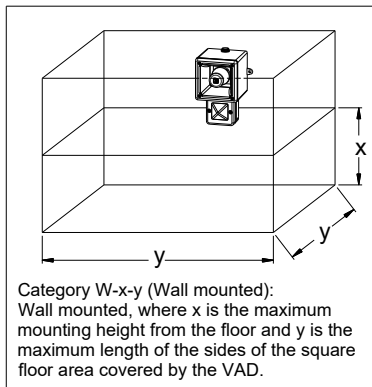
- (Alternating Tone) 800/1000Hz @ 2Hz Alternating Tone 44
- (Rising Tone) 500/1200Hz @ 0.26Hz (3.3s on, 0.5s off) Tone 8
- (Fainting Tone) 1200/500Hz @ 1Hz Tone 2
- (Continuous Tone) 800Hz Tone 21
- (Pulsed Tone) 660Hz (150mS on, 150mS off) Tone 31
- (Alternating Tone) 544Hz(100mS)/440Hz (400mS) Tone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

AL112NXDC024 / AL112NXDC048 (P2) @ 1m													
Horizontal Sound Output Max Voltage (54 Vdc) LAFmax,T dB(A)							Horizontal Sound Output Min Voltage (11.5 Vdc) LAFmax,T dB(A)						
Angle	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	
Vertical Sound Output Max Voltage (54 Vdc) LAFmax,T dB(A)							Vertical Sound Output Min Voltage (11.5 Vdc) LAFmax,T dB(A)						
Angle	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	
AL112NXDC024 (P1) @ 1m													
Horizontal Sound Output Max Voltage (54 Vdc) LAFmax,T dB(A)							Horizontal Sound Output Min Voltage (11.5 Vdc) LAFmax,T dB(A)						
Angle	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°	103.3	103.7	103.1	103.3	103.2	91.5	101	101.5	100.9	101	100.3	89.4	
45°	103.4	104.8	104.2	101.6	96.3	99.4	101.5	102.7	101.8	99.6	94.3	97.4	
75°	109.1	110.4	109.7	109.6	108.3	103.2	107.1	108.2	107.4	107.7	105.9	101.4	
105°	109.9	110.2	109.6	109.7	108.6	103	107.7	108.1	107.4	107.6	105.9	101.6	
135°	103.4	104.8	104	101.8	96.5	99.4	101.1	102.8	101.7	99.6	94.5	97.4	
165°	103.4	103.5	103	103.3	103	91.6	101	101.4	100.8	101.1	100.2	89.4	
Vertical Sound Output Max Voltage (54 Vdc) LAFmax,T dB(A)							Vertical Sound Output Min Voltage (11.5 Vdc) LAFmax,T dB(A)						
Angle	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°	104.1	104.1	103.2	104.1	102.3	92.3	101.8	101.8	100.8	101.8	100	90.4	
45°	103.4	106.4	105.2	101.9	96.3	100.2	101.3	104.3	103.1	99.7	94.1	98.2	
75°	109.8	110.1	109.8	110.4	108.3	103.2	107.7	107.8	107.7	108.4	106.2	101.4	
105°	109.1	109.9	109.5	110	108.3	102.9	106.9	107.7	107.1	107.6	105.7	101.3	
135°	101.1	106.4	104.7	101.8	96.6	101	100.6	104.1	102.3	99.6	94.5	99.1	
165°	103.6	103.1	102.8	103.6	102.8	91.8	101.2	100.9	100.7	101.4	99.8	89.8	

NOTICE D'INSTALLATION & D'UTILISATION

Combiné TONAFASH® Xénon TL112XV2

AL112NXDC024 & AL112NXDC048 LIGHT OUTPUT



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
AL112NXDC024	W-2.4-4.8	11W
	V=55.3m	
AL112NXDC048	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:

AL112NXDC024: -40°C to +55°C / -40°F to +131°F

AL112NXAC230: -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 P1 / P2	Beacon	Sounder P1 / P2
AL112NXDC012	12V dc	11.5-14Vdc	500mA	280mA / 376mA	531mA	280mA / 430mA
AL112NXDC024	24V dc	20-28Vdc	250mA	225mA / 430mA	271mA	
AL112NXDC048	48V dc	42-54Vdc	170mA	122mA / 223mA	170mA	
AL112NXAC115	115 Vac	103.5-126.5 Vac 50/60Hz	70mA	100mA / 173mA	101mA	181mA / 383mA
AL112NXAC230	230 Vac	207-240 Vac 50/60Hz	35mA	65mA / 105mA	58mA	

*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

FIRE INSTRUCTION & SERVICE MANUAL

AL112NX Range AlertAlight Combined Sounder Xenon Beacons

UL464 / CAN/ULC-S525 & UL1638 / CAN/ULC-S526

Model: AL112NXDC



Attention: Installation must be carried out by an electrician in compliance with the National Electrical Code, NFPA 70, and the National Fire Alarm Signaling Code, NFPA 72 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, et le code national d'alarme incendie et de signalisation NFPA 72 ou CSA 22.1 Code canadien de l'électricité, première partie, norme de sécurité relative aux installations électriques, Section 32

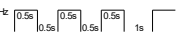


Attention: Disconnect from power source before installation or service to prevent electric shock / Débranchez-le de la source d'alimentation avant l'installation ou l'entretien pour éviter tout choc électrique.



Attention: Do not paint / Ne pas Peinturer

- -40°C to +66°C / -40°F to +151°F
- 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.
- AL112NXDC024 is approved for use as an Audible & Visual signal appliance for fire alarm use – Private Mode & Emergency Warning. (UL464 & CAN/ULC-S525 & UL1638 & CAN/ULC-S526).
- AL112NXDC024 produces a minimum sound pressure level of P1: US: 93.37dB(A); CA: 101.6dB(A) / P2: US: 94.64dB(A); CA: 103.9dB (A) at 10 feet, (figures @ worst case 11.5Vdc).
- AL112NXDC024 produces a minimum sound pressure level of P1: US: 95.6dB(A); CA: 104.3dB(A) / P2: US: 98.55dB(A); CA: 107.6dB(A) at 10 feet (@24Vdc)
- For Fire Alarm applications, the Sounder Volume must be at the highest setting, (see volume control section). For fire alarm use, Tone 12 as shown below must be selected:

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)
12	1000Hz(0.5s on, 0.5s off)x3 + 1s gap ISO 8201 Temporal Pattern	1000Hz 	1 1 0 1 0 0	1	8

- For private mode fire alarm and Emergency Warning use, the beacons must be set to the certified flash patterns of 1Hz.
- For light output ratings see below:

On-axis light output rating per UL1638 & Emergency Warning

Model	Lens Colour	UL1638 Intensity (cd) at 1Hz flash rate	Emergency Warning Intensity (cd) at 1Hz flash rate
AL112NXDC024	Clear	86.5	69.2
	Amber	38.12	30.5
	Blue	11.75	-
	Green	32.62	26.1
	Magenta	11.75	-
	Red	8.62	-
	Yellow	77.0	61.6

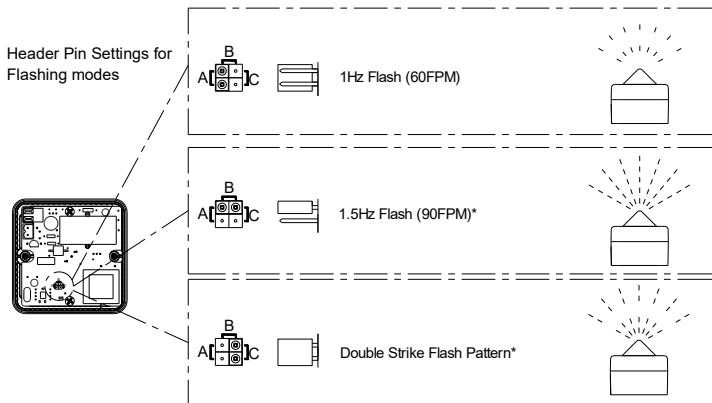
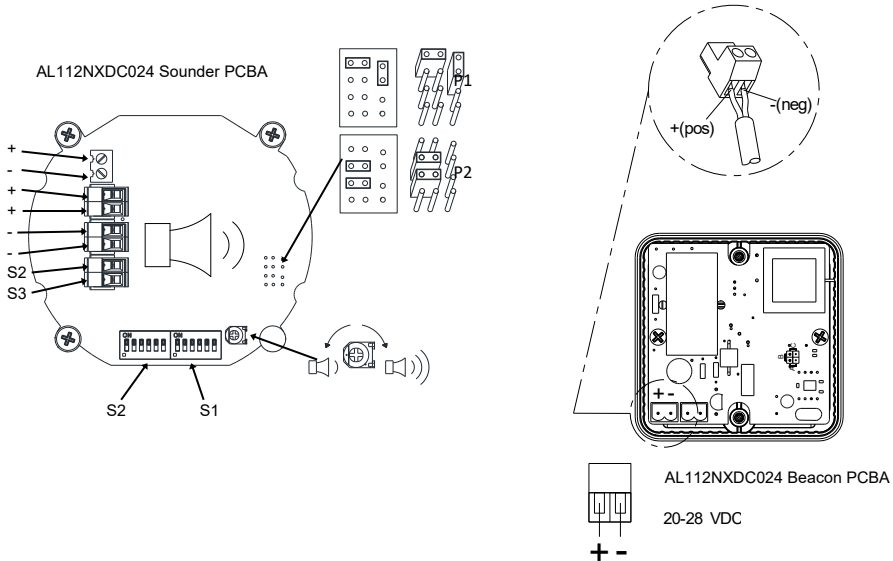
- Connection Terminals: Pluggable
AC: 1.0 - 2.5mm² / AWG18 - AWG12
DC: 0.2 - 2.5mm² / AWG24 - AWG12
- Terminal Tightening torque 0.4Nm
- To maintain Ingress Protection, cable entries must be fitted with suitably rated cable glands or stopping plugs
- Units can be located indoor or outdoor wet use, wall or ceiling mounted and there are no limitations on orientation
- Factory finishes are not intended to be modified

Surge current ratings for use in fire alarm systems

Model	Nominal Voltage	Voltage Range	Flash Rate	Initial Peak (mA)		Initial RMS (mA)	
				Beacon	Sounder	Beacon	Sounder
AL112XDC024	24Vdc	20 to 28Vdc	1 Hz	271	P1: 1455mA / P2: 1164mA	250	P1: 140mA / P2: 286mA

AL112XDC024 Sounder Directional Characteristics for Canadian Fire CAN/ULC-S525 at 10 feet

Horizontal Axis				Vertical Axis			
Angle	OSPL	Angle	OSPL	Angle	OSPL	Angle	OSPL
Reference 90°	103.7 dB(A)	Reference 90°	103.7 dB(A)	Reference 90°	103.8 dB(A)	Reference 90°	103.7dB(A)
129°	-3 dB(A)	49°	-3 dB(A)	126°	-3 dB(A)	49°	-3 dB(A)
131°	-6 dB(A)	39°	-6 dB(A)	140°	-6 dB(A)	40°	-6 dB(A)
180°	92.6 dB(A)	0°	91.2 dB(A)	180°	92.5 dB(A)	0°	90.8 dB(A)



*Flash Modes not tested to UL1638 / CAN/ULC-S526

ISSUE	MOD No.	REASON - INITIAL - DATE
A		INTRODUCTION RSR - 25/08/2021
B		AMENDED TYPOS RSR - 07/07/2021

— — 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

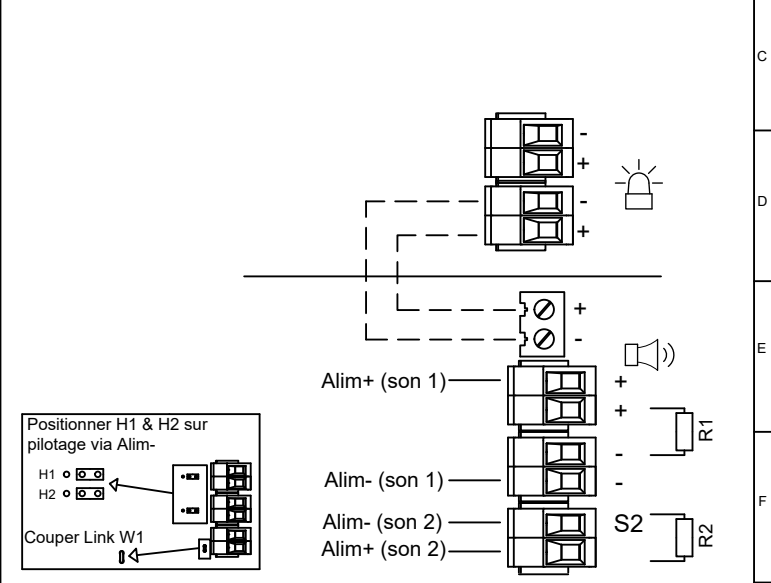
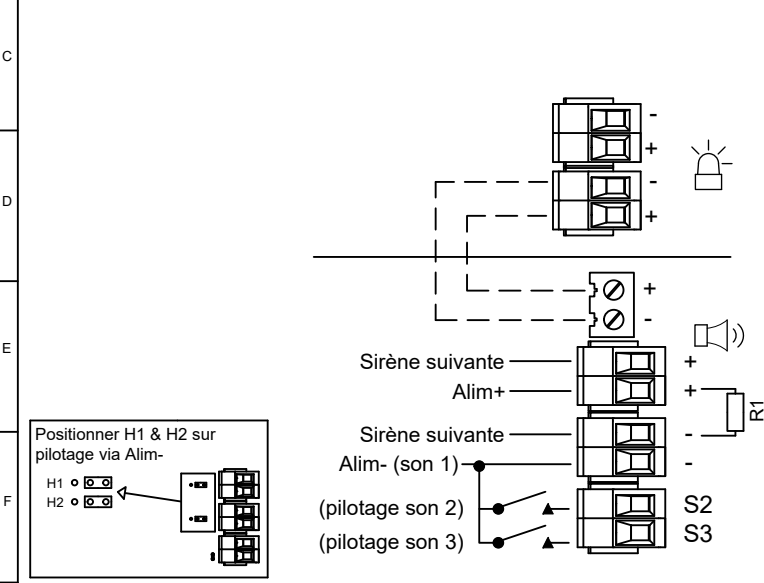
Activation simultanée de la sirène et du feu (par défaut)

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)

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)

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)

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	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	

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AS PER LATEST DATE OF ISSUE SHOWN ABOVE

E2S
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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	2 of 6	D221-06-202	

1 2 3 4 5 6 7 8 9 10

ISSUE	MOD No.	REASON - INITIAL - DATE
A		INTRODUCTION RSR - 25/08/2021
B		AMENDED TYPOS RSR - 07/07/2021

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

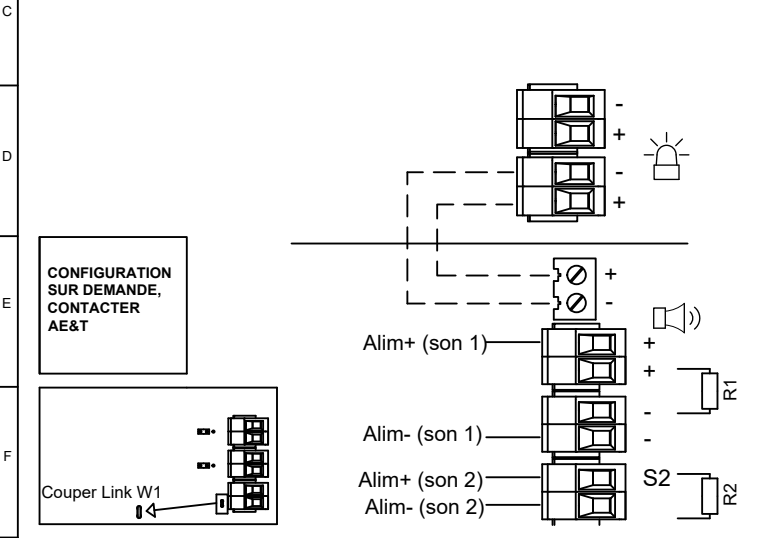
OPTION: RÉSISTANCE POUR LA SURVEILLANCE DE LIGNE :
NON FOURNIE. VALEURS MINIMALES RECOMMANDÉES:
14V MAX = 120Ω MIN, 2W MIN OU 1KΩ MIN, 0.5W MIN
28V MAX = 470Ω MIN, 2W MIN OU 2.4KΩ MIN, 0.5W MIN

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	

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AS PER LATEST DATE OF ISSUE SHOWN ABOVE

e2s warning signals

EUROPEAN SAFETY SYSTEMS LTD
IMPRESS HOUSE
MANSELL ROAD
FELTON
LONDON W3 7QH
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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:
 RZ 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

ISSUE	MOD No.	REASON - INITIAL - DATE
A		INTRODUCTION RSR - 25/06/2021
B		AMENDED TYPOS RSR - 07/07/2021

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

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

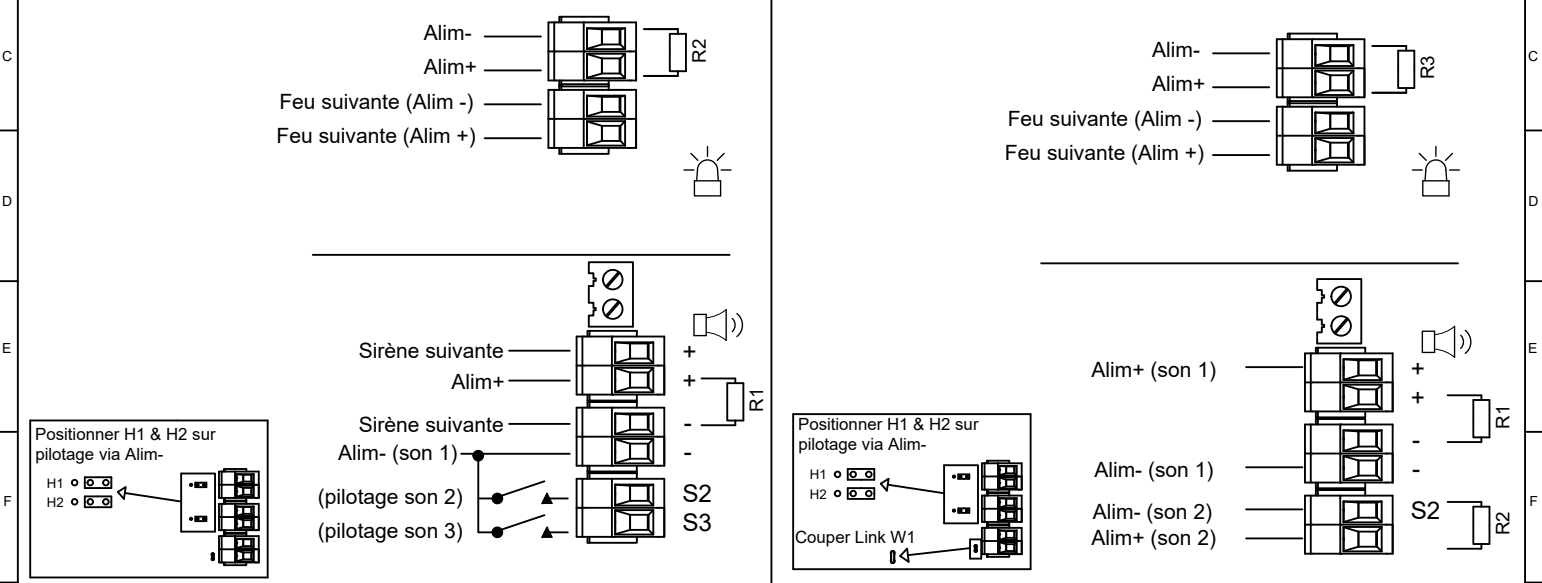
DRAWING TO BS8888:2000 GEOMETRIC TOLERANCES TO ISO1101:1983 LINEAR DIMENSIONAL TOLS ANGULAR DIMENSIONAL TOLS	DRAWN	DATE	SURFACE FINISH	WEIGHT (Kg)	THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER THEREIN IS COMMUNICATED IN CONFIDENCE AND IS THE COPYRIGHT PROPERTY OF EUROPEAN SAFETY SYSTEMS LTD. NEITHER THE WHOLE OR ANY EXTRACT MAY BE DISCLOSED, LOANED, COPIED OR USED FOR MANUFACTURING OR TENDERING PURPOSES WITHOUT THEIR WRITTEN CONSENT.	 EUROPEAN SAFETY SYSTEMS LTD IMPRESS HOUSE MANSELL ROAD FULFORD LONDON W13 7QH WWW.E2S.COM	 A3	
	CHECKED	DATE						MATERIAL
	STANDARDS	B.ISARD	25/06/2021	ALTERNATIVE MATERIAL				ALL DIMENSIONS IN MM IF IN DOUBT, ASK - DO NOT SCALE
ALERTALARM RANGE	APPROVED	DATE			EUROPEAN SAFETY SYSTEMS LTD. AS PER LATEST DATE OF ISSUE SHOWN ABOVE	SCALE NTS	SHEET 4 OF 6	DRAWING NUMBER D221-06-202
	R.S.RAIT	25/06/2021						
	R.N.POTTS	25/06/2021						


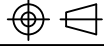
1	2	3	4	5	6	7	8	9	10							
<div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 5px;">  <p>OPTION: RÉSISTANCE POUR LA SURVEILLANCE DE LIGNE : NON FOURNIE. VALEURS MINIMALES RECOMMANDÉES: 14V MAX = 120Ω MIN, 2W MIN OU 1KΩ MIN, 0.5W MIN 28V MAX = 470Ω 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>							<table border="1"> <tr> <th>ISSUE</th> <th>MOD No.</th> <th>REASON - INITIAL - DATE</th> </tr> <tr> <td>A</td> <td></td> <td>INTRODUCTION RSR - 25/08/2021</td> </tr> <tr> <td>B</td> <td></td> <td>AMENDED TYPOS RSR - 07/07/2021</td> </tr> </table>	ISSUE	MOD No.	REASON - INITIAL - DATE	A		INTRODUCTION RSR - 25/08/2021	B		AMENDED TYPOS RSR - 07/07/2021
ISSUE	MOD No.	REASON - INITIAL - DATE														
A		INTRODUCTION RSR - 25/08/2021														
B		AMENDED TYPOS RSR - 07/07/2021														

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

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)			
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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 WRITER CONSENT.  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	TITLE AL112NX & AL121X DC COMBINED SOUNDER & XENON WIRING DIAGRAMS			
		APPROVED R.N.POTTS	DATE 25/06/2021	ALTERNATIVE MATERIAL	SCALE NTS			

1	2	3	4	5	6	7	8	9	10	
							ISSUE	MOD No.	REASON - INITIAL - DATE	
							A		INTRODUCTION RSR - 25/08/2021	
							B		AMENDED TYPOS RSR - 07/07/2021	

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

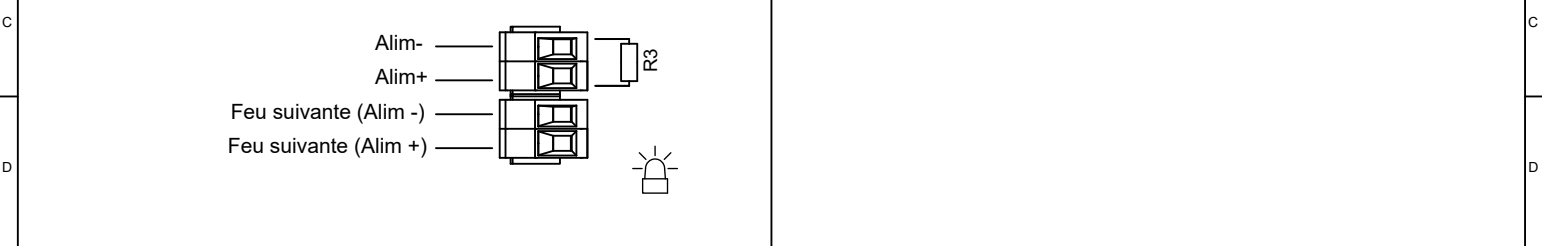
CONTACTS POUR LA SÉLECTION
DES SONS NON INCLUS

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

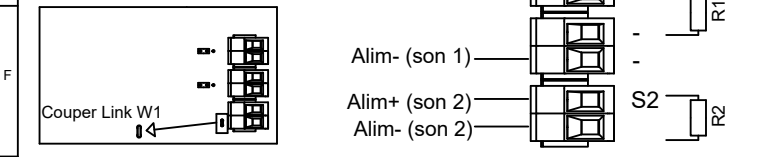
Configuration pour 2 sons Config.: 8

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)



**CONFIGURATION
SUR DEMANDE,
CONTACTER
AE&T**



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. 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	TITLE AL112NX & AL121X DC COMBINED SOUNDER & XENON WIRING DIAGRAMS							
		APPROVED R.N.POTTS	DATE 25/06/2021	ALTERNATIVE MATERIAL	SCALE NTS			SHEET 6 of 6	DRAWING NUMBER D221-06-202			

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

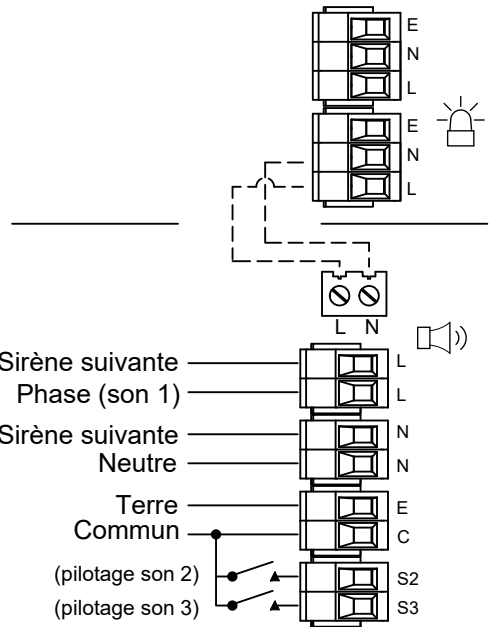
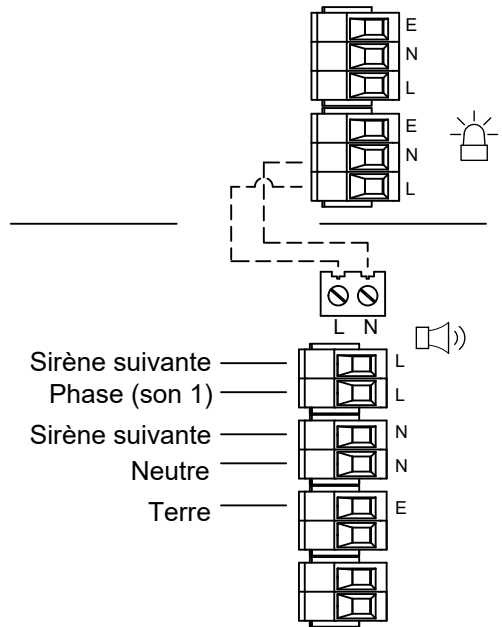
Activation simultanée de la sirène et du feu (par défaut)

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		

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ALL DIMENSIONS IN MM IF IN DOUBT, ASK - DO NOT SCALE	

TITLE AL112NX & AL121X COMBINED SOUNDER & XENON WIRING DIAGRAMS		A3
SCALE	SHEET	
NTS	1 OF 2	D221-06-206

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

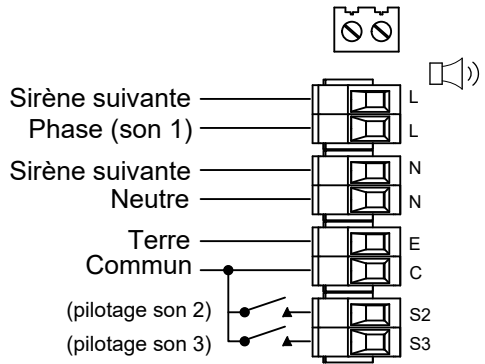
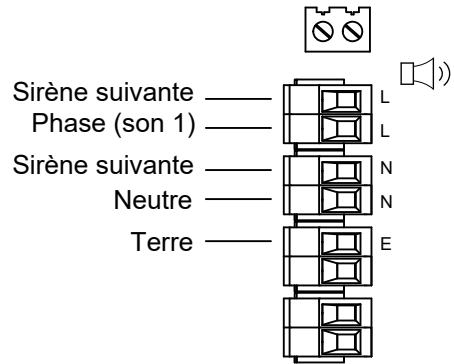
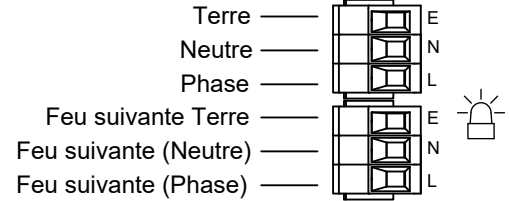
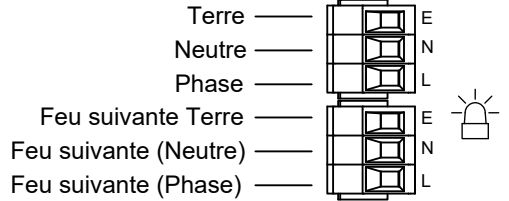
CONTACTS POUR LA SÉLECTION
DES SONS NON INCLUS



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

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

Config.: 1a Configuration pour 2 et 3 sons
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		
STANDARDS ALERTALARM RANGE	APPROVED	DATE	ALTERNATIVE MATERIAL	
	R.N.POTTS	25/06/2021		

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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