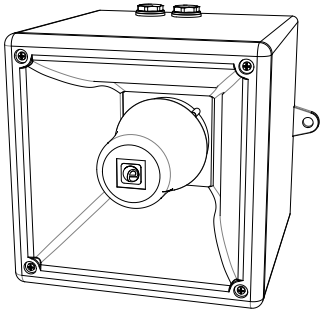
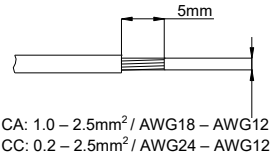
NOTICE D'INSTALLATION & D'UTILISATION
Sirène TONALARM® T121V2

- -40°C à +66°C (104°F à 151°F)
- Type 4 / 4X / 3R / 13, IP66
- 2.1Kg (4.62lb) (T121V2024)
- 2.7Kg (5.94lb) (T121V2230)
- CE, T121V2024 conformes CPR, Toutes les versions sont "UL Listed"

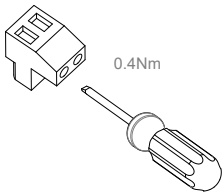


Référence	Tension Nominal	Tolérance (Tension)	Courant Nominal P1*	Courant Nominal P2*	Pression sonore nominale	Pression sonore max.	Pression sonore moyenne
T121V2024	12 Vcc	11.5-54Vcc	376mA	440mA	116.9dB(A) / 120.2dB(A) Son No. 44 @ 1m	120.7dB(A) / 123.4dB(A) Son No. 4 @ 1m	115.3dB(A) / 118.1dB(A) Tous les sons @ 1m
	24 Vcc		430mA	930mA			
	48 Vcc		223mA	453mA			
T121V2230	115 Vca	100-240Vca 50/60Hz	173mA	340mA			
	230 Vca		105mA	212mA			

*Courant nominal à la tension nominale



CA: 1.0 – 2.5mm^2 / AWG18 – AWG12
CC: 0.2 – 2.5mm^2 / AWG24 – AWG12

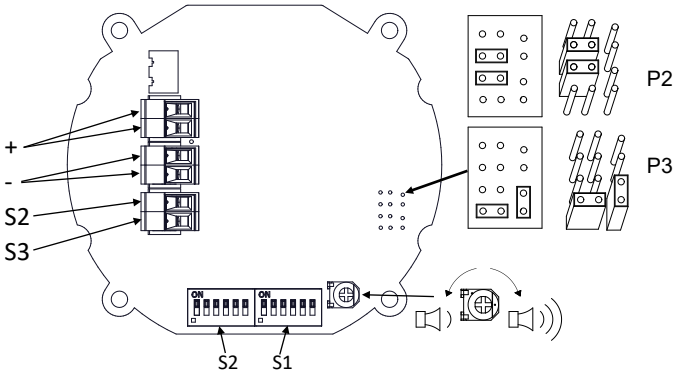


Attention: Installation must be carried out by an electrician in compliance with the latest codes and regulations.
Attention: L'installation doit être effectuée par un électricien conformément aux derniers codes et réglementations.
Achtung: Die Installation muss von einem Elektriker gemäß den neuesten 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 eletricista 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.

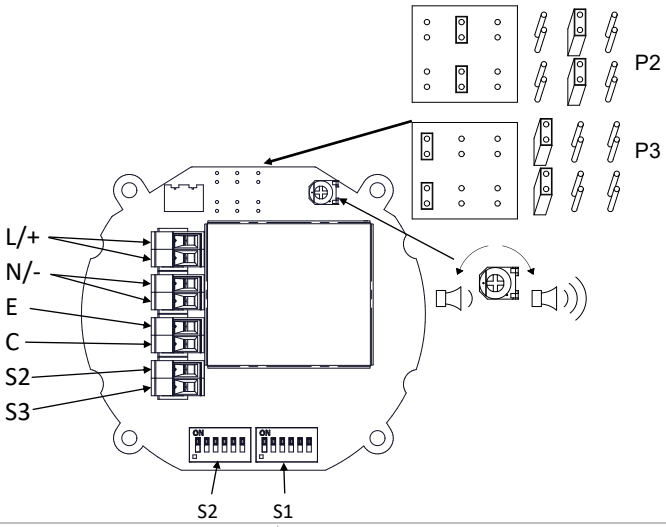
CC

Voir D221-06-002

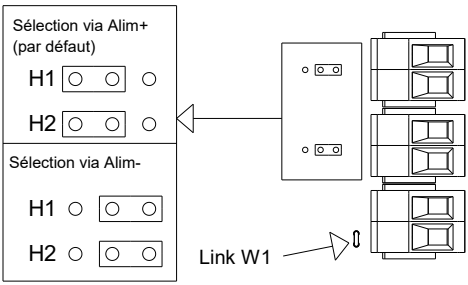


CA

Voir D221-06-006

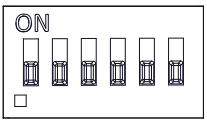


(CC Uniquement, see D221-06-002)

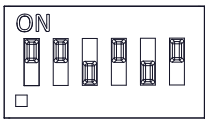


(CA & CC, Voir D221-95-001)

Par défaut = S2 - Son No. 1

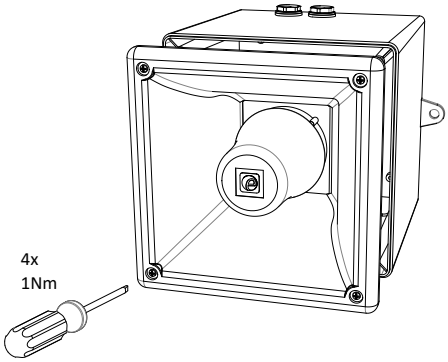


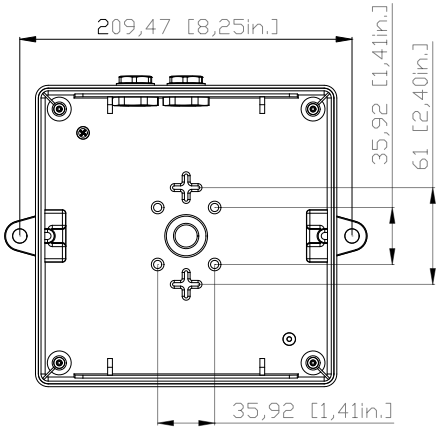
Par défaut = S1 - Son No. 44

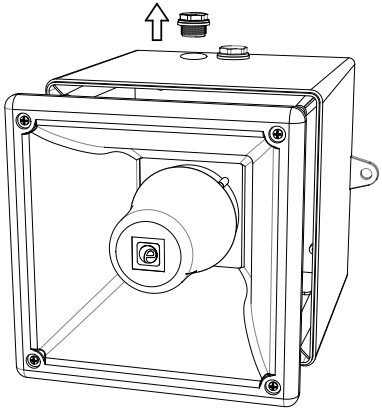


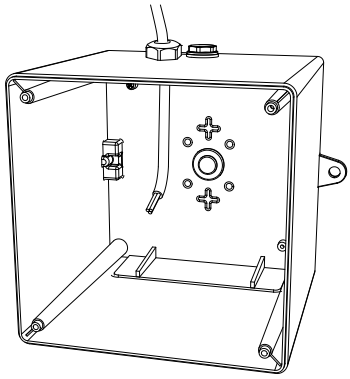
(ON = 1, OFF = 0)

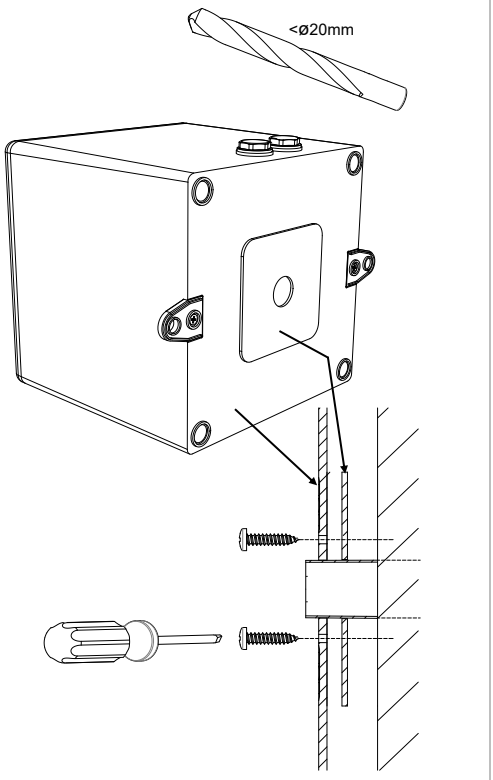
NOTICE D'INSTALLATION & D'UTILISATION
Sirène TONALARM® T121V2











Construction Product Regulation

- A121DC024 is compliant to EN54-3:2001+A1+A2
- Alarm devices – Sounder 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: A121DC024
Voltage Range: 16-54Vdc
Nominal Voltage: 24Vdc
Max Current: 930mA @ 24Vdc
DP-2821-CPR-0108

EU
S36282

CE 21
2821

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

A121DC024 (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

A121DC024 (P3) @ 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°	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
	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°	107.4	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
Sirène TONALARM® T121V2

- 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:
  A121DC024: -40°C to +55°C / -40°F to +131°F
  A121AC230: -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
- 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	P2 Nominal Operating Current*	P3 Nominal Operating Current*	P2 Max Operating RMS#	P3 Max Operating RMS#
A121DC024	12V dc	11.5 - 54V dc	376mA	440mA	430mA	930mA
	24V dc		430mA	930mA		
	48V dc		223mA	453mA		
A121AC230	115V ac	100- 240V ac 50/60Hz	173mA	340mA	181mA	383mA
	230V ac		105mA	212mA		

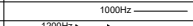
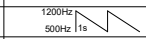
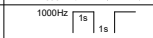
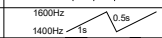
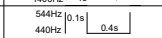
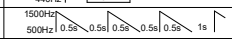
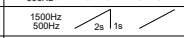
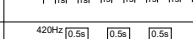
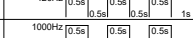
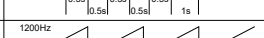
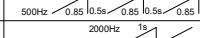
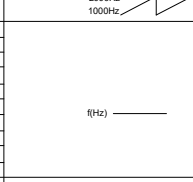
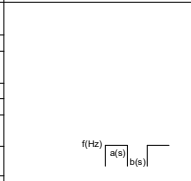
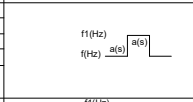
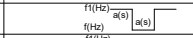
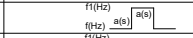
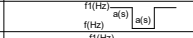
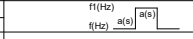
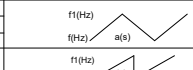
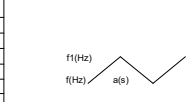
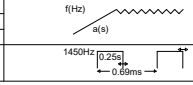
*Nominal Voltage, 1Hz Flash Pattern & Tone 12 #Worst-case input voltage and worst case flash pattern

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

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, 1soff) 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 0 1 0 1 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 0 1 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 1 0 1 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	
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

FIRE INSTRUCTION & SERVICE MANUAL
A121 Range AlertAlarm Sounder UL464 / CAN/ULC-S525
Model: A121DC

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.
- A121DC024 is approved for use as an audible signal appliance for fire alarm use – Public Mode (UL464 & CAN/ULC-S525) and produces a minimum sound pressure level of P2: US: 93.67dB(A); CA: 101.2dB(A) / P3: US: 94.33dB(A); CA: 102.4dB(A) at 10 feet, (figures @ worst case 11.5Vdc).
- The A121DC024 produces a minimum sound pressure level of P2: US: 97.59dB(A) ; CA: 105.4dB(A) / P3: US: 100.63dB(A); CA: 107.5dB(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		1 1 0 1 0 0	1	8

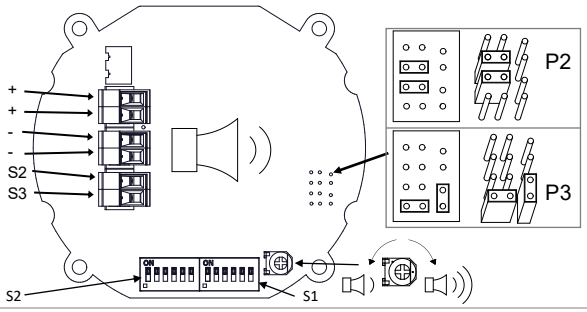
- Connection Terminals: Pluggable
  AC: 1.0 - 2.5mm² / AWG18 - AWG12
  DC: 0.2 - 2.5mm² / AWG24 - AWG12
- Terminal Tightening torque 0.4Nm
- To maintain Ingress Protection, cable entries must be fitted with suitably rated cable glands or stopping plugs
- Units can be located indoor or outdoor wet use, 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	Initial Peak	Initial RMS
A121DC024	24V dc	11.5 - 54V dc	P2: 1164mA / P3: 1829mA	P2: 286mA / P3: 554mA

A121DC024 Sounder Directional Characteristics for Canadian Fire CAN/ULC-S525 at 10 feet

Horizontal Axis				Vertical Axis			
Angle	OSPL	Angle	OSPL	Angle	OSPL	Angle	OSPL
Ref. 90°	107.8 dB(A)	Ref. 90°	107.8 dB(A)	Ref. 90°	107.6 dB(A)	Ref. 90°	107.6 dB(A)
143°	-3 dB(A)	35°	-3 dB(A)	144.5°	-3 dB(A)	36.5°	-3 dB(A)
152°	-6 dB(A)	25°	-6 dB(A)	151°	-6 dB(A)	27°	-6 dB(A)
180°	97.8 dB(A)	0°	95.8 dB(A)	180°	96.8 dB(A)	0°	95.9 dB(A)

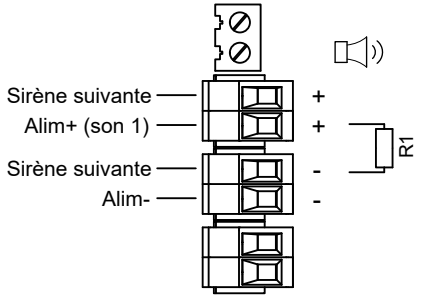


ISSUE	MOD No.	REASON - INITIAL - DATE
A		INTRODUCTION RSR - 25/06/2021

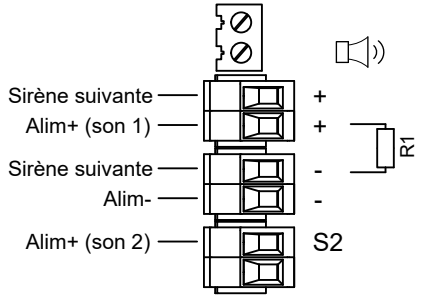
OPTION: RÉSISTANCE POUR LA SURVEILLANCE DE LIGNE :
NON FOURNIE, VALEURS MINIMALES RECOMMANDÉES:
14V MAX = 120Ω MIN, 2W MIN OU 1KΩ MIN, 0.5W MIN
28V MAX = 470Ω MIN, 2W MIN OU 2.4KΩ MIN, 0.5W MIN

R1

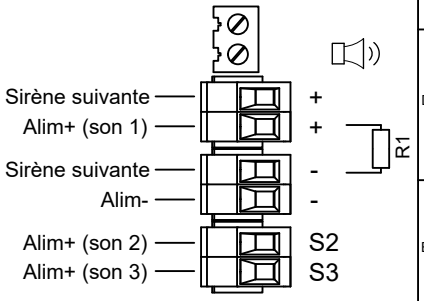
Configuration pour 1 son	Config.: 1a
Surveillance de ligne Pilotage via Alim+ (par défaut)	
Son 1 : alimenter Alim+ et Alim- (son1)	



Configuration pour 2 sons	Config.: 1b
Alim- commune Pilotage via Alim+ (par défaut)	
Son 1 : alimenter Alim+ (son 1) et Alim- Son 2 : alimenter Alim+ (son 2) et Alim-	



Configuration pour 3 et 4 sons	Config.: 1c
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

STANDARDS
ALERTALARM RANGE

DRAWN	R.S.RAIT	25/06/2021
CHECKED	B.ISARD	25/06/2021
APPROVED	R.N.POTTS	25/06/2021

SURFACE FINISH | WEIGHT (Kg)
MATERIAL
ALTERNATIVE MATERIAL

e2S warning signals
EUROPEAN SAFETY SYSTEMS LTD
IMPRESS HOUSE
MANSELL ROAD
ACTON
LONDON W3 7QH
WWW.E2S.COM

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

A3

TITLE A112N & A121 DC SOUNDER
WIRING DIAGRAMS

SCALE	SHEET	DRAWING NUMBER
NTS	1 OF 3	D221-06-002

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

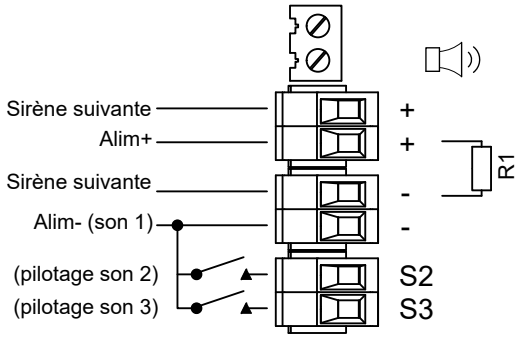
OPTION: RÉSISTANCE POUR LA SURVEILLANCE DE LIGNE :
NON FOURNIE, VALEURS MINIMALES RECOMMANDÉES:
14V MAX = 120Ω MIN, 2W MIN OU 1KΩ MIN, 0.5W MIN
28V MAX = 470Ω MIN, 2W MIN OU 2.4KΩ MIN, 0.5W MIN

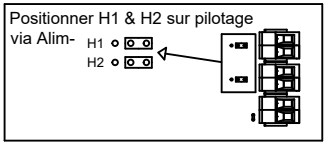
R1

3 et 4 sons. Activation sans tension des sons 2, 3 et 4. — Config.: 2

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)

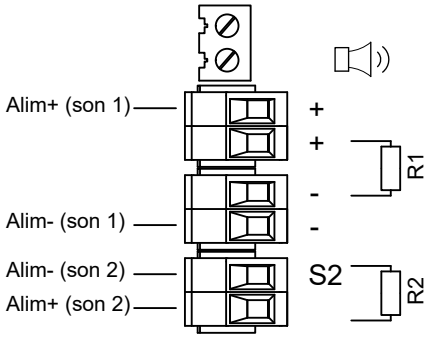


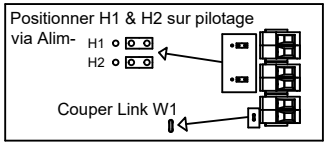


Configuration pour 2 sons — Config.: 3

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

STANDARDS
ALERTALARM RANGE

DRAWN	R.S.RAIT	25/06/2021
CHECKED	B.ISARD	25/06/2021
APPROVED	R.N.POTTS	25/06/2021

SURFACE FINISH | WEIGHT (Kg)
MATERIAL
ALTERNATIVE MATERIAL

e2S warning signals
EUROPEAN SAFETY SYSTEMS LTD
IMPRESS HOUSE
MANSELL ROAD
ACTON
LONDON W3 7QH
WWW.E2S.COM

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

A3

TITLE A112N & A121 DC SOUNDER WIRING DIAGRAMS

SCALE	SHEET	DRAWING NUMBER
NTS	2 OF 3	D221-06-002

ISSUE	MOD No.	REASON - INITIAL - DATE
A		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

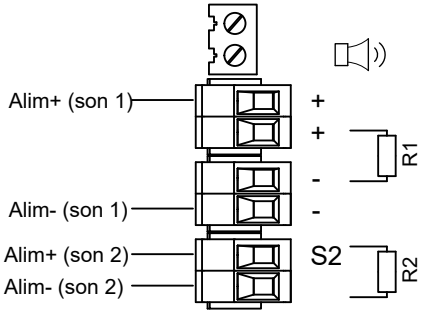
R1

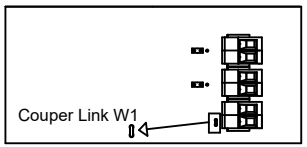
CONTACTS POUR LA SÉLECTION DES SONS NON INCLUS

Configuration pour 2 sons — Config.: 4

Surveillance de ligne (utiliser des relais / modules adaptés)
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)



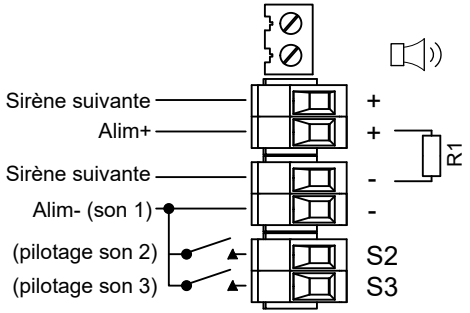


CONFIGURATION SUR DEMANDE, CONTACTER AE&T

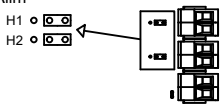
Configuration pour activation sans tension de 2/3 sons — Config.: 5

Positionner H1 & H2 sur pilotage via Alim- (voir ci-dessous)

Alimenter Alim+ et Alim-
Son 1 : connecter Alim- à S2
Son 2 : connecter Alim- à S3
Son 3 : connecter Alim- à S2 et S3



Positionner H1 & H2 sur pilotage via Alim-



CONFIGURATION SUR DEMANDE, CONTACTER AE&T

DRAWING TO BS8888:2000
GEOMETRIC TOLERANCES TO ISO1101:1983
LINEAR DIMENSIONAL TOLS
ANGULAR DIMENSIONAL TOLS

STANDARDS
ALERTALARM RANGE

DRAWN	R.S.RAIT	25/06/2021
CHECKED	B.ISARD	25/06/2021
APPROVED	R.N.POTTS	25/06/2021

SURFACE FINISH | WEIGHT (Kg)
MATERIAL
ALTERNATIVE MATERIAL

e2S warning signals
EUROPEAN SAFETY SYSTEMS LTD
IMPRESS HOUSE
MANSELL ROAD
ACTON
LONDON W3 7QH
WWW.E2S.COM

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

A3

TITLE A112N & A121 DC SOUNDER WIRING DIAGRAMS

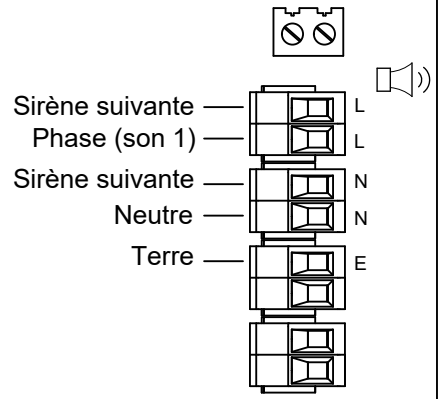
SCALE	SHEET	DRAWING NUMBER
NTS	3 OF 3	D221-06-002

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

CONTACTS POUR LA SÉLECTION DES SONS NON INCLUS

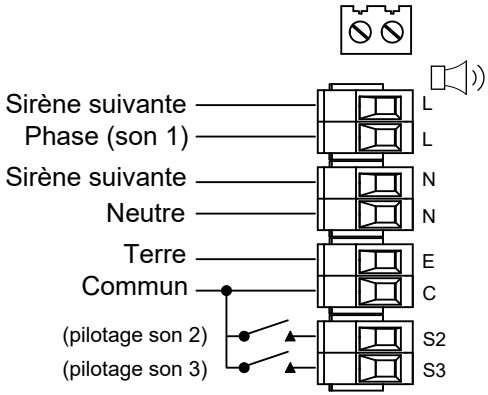
Configuration pour 1 son — Config.: 1a

Son 1 : alimenter Phase (son 1) et Neutre



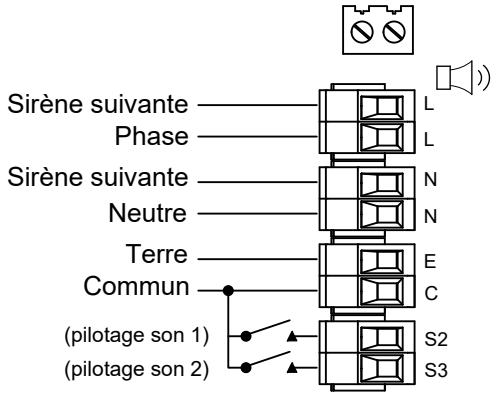
Configuration pour 3 et 4 sons — Config.: 1b

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
Son 4 : alimenter Phase (son 1) et Neutre
et connecter Commun à S2 et S3



Configuration pour sélection de 2 sons sans tension. — Config.: 2

Alimenter Phase et Neutre
Son 1 : connecter Commun à S2
Son 2 : connecter Commun à S3
Son 3 : connecter Commun à S2 et S3



CONFIGURATION SUR DEMANDE, CONTACTER AE&T

DRAWING TO BS8888:2000
GEOMETRIC TOLERANCES TO ISO1101:1983
LINEAR DIMENSIONAL TOLS
ANGULAR DIMENSIONAL TOLS

STANDARDS
ALERTALARM RANGE

DRAWN	R.S.RAIT	25/06/2021
CHECKED	B.ISARD	25/06/2021
APPROVED	R.N.POTTS	25/06/2021

SURFACE FINISH | WEIGHT (Kg)
MATERIAL
ALTERNATIVE MATERIAL

e2S warning signals
EUROPEAN SAFETY SYSTEMS LTD
IMPRESS HOUSE
MANSELL ROAD
ACTON
LONDON W3 7QH
WWW.E2S.COM

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

A3

TITLE A112N & A121 AC
WIRING DIAGRAMS

SCALE	SHEET	DRAWING NUMBER
NTS	1 OF 1	D221-06-006

Page left Intentionally blank