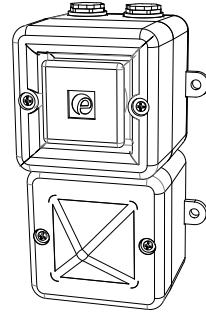


MANUALE DI ISTRUZIONI E ASSISTENZA

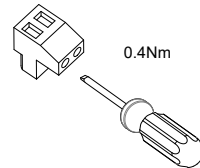
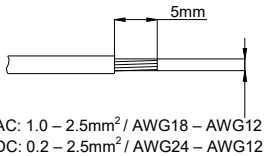
Segnalatore acustico allo xeno combinato con segnalatore luminoso AL100X

- Da -40°C to +66C (-40°F to 151°F)
- Tipo 3R / 13 (IP66, sottoposto a test indipendenti ai sensi della norma EN60529:1991)
- 0.46Kg (1.01lb)
- CE, AL100XDC024 conforme CPR, tutte le unità con omologazione UL



Codice tipo unità	Tensione nominale	Campo di tensione	Corrente nominale segnalatore acustico*	Corrente nominale segnalatore luminoso*	SPL nominale	SPL max	SPL medio
AL100XDC012	12 V c.c.	11.5-14V c.c.	17mA	500mA	101.6dB(A) Tono 44 a 1m	110dB(A) Tono 4 a 1m	102.3dB(A) tutti I toni a 1m
AL100XDC024	24V c.c.	20-28V c.c.	33.5mA	250mA			
AL100XDC048	48V c.c.	42-52V c.c.	113mA	170mA			
AL100XAC024	24V c.a.	24-28V c.a. 50/60Hz	42.5mA	300mA			
AL100XAC048	48V c.a.	48V c.a. ± 10% 50/60Hz	42.5mA	250mA			
AL100XAC115	115V c.a.	115V c.a. ± 10% 50/60Hz	25mA	70mA			
AL100XAC230	230V c.a.	230V c.a. ± 10% 50/60Hz	17mA	35mA			

*Corrente nominale alla tensione nominale, tono 12/schema lampeggiante 1 Hz



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.

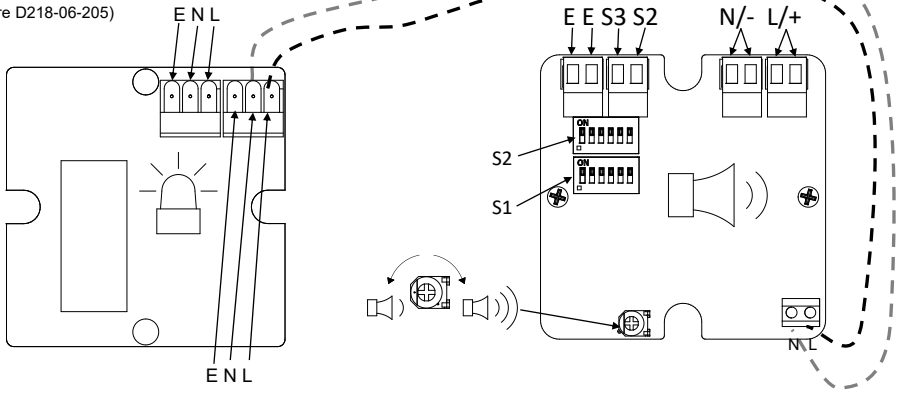
Atenção: Desconecte da fonte de alimentação antes da instalação ou serviço para evitar choque elétrico

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



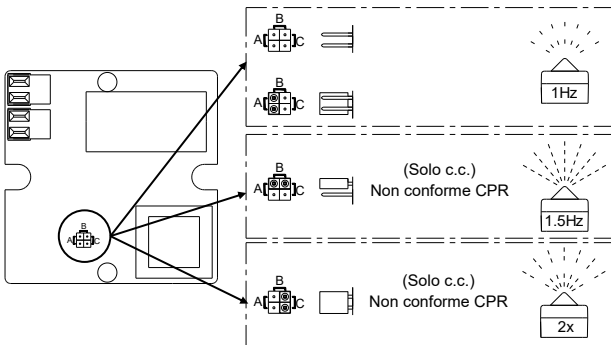
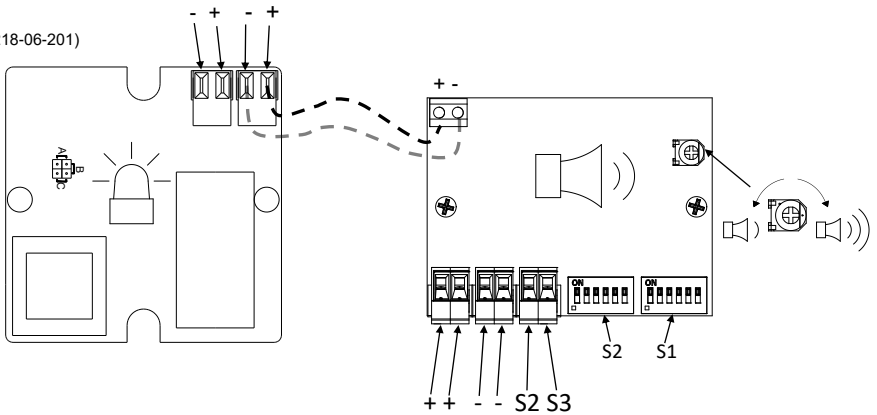
AC

(Vedere D218-06-205)



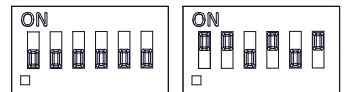
DC

(Vedere D218-06-201)

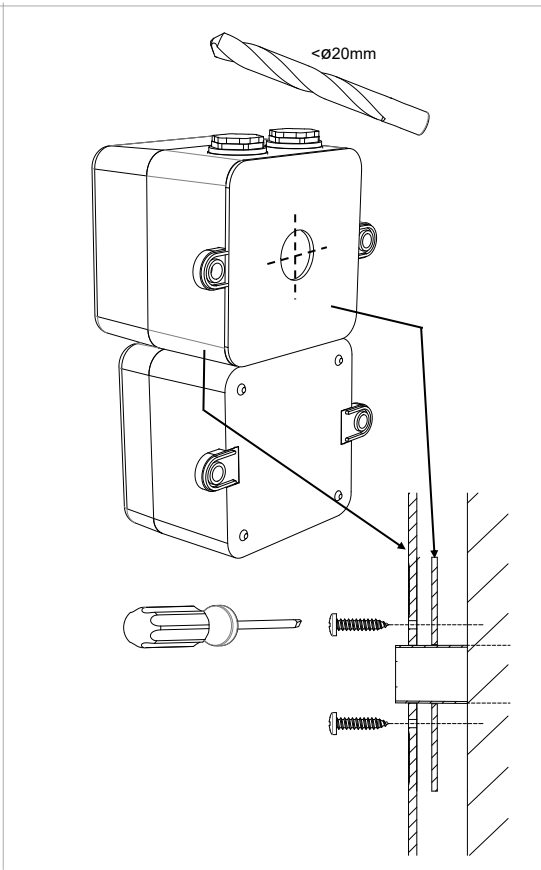
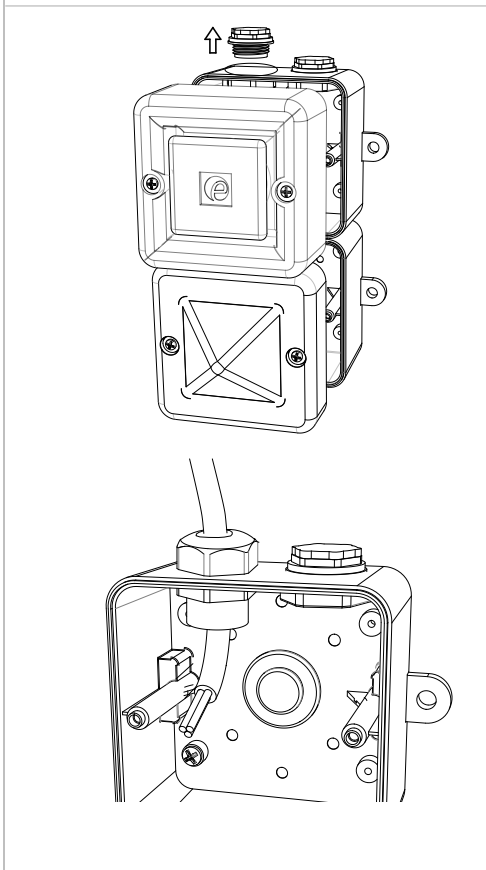
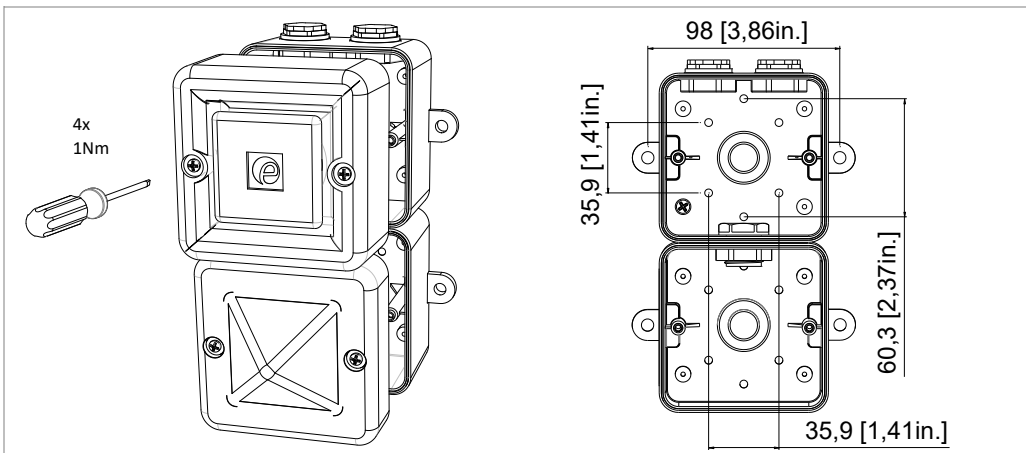


(c.a. e c.c., vedere D221-95-001)

Predefinito = S2 - tono 1 Predefinito = S1 - tono 44



(ON = 1, OFF = 0)



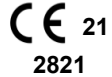
Regolamento sui prodotti da costruzione

- AL100XDC024 e AL100XDC048 sono conformi alle norme EN54-3:2001+A1+A2 e EN54-23:2010
- Dispositivo di allarme visivo per l'uso in impianti di rivelazione incendi e di allarme antincendio installati all'interno e attorno gli edifici
- Dispositivi di allarme – segnalatore acustico e luminoso
- Tipo 3R/13, IP66, sottoposto a test indipendenti ai sensi della norma EN60529:1991, (IP33C conforme a EN54-3)
- Prodotto di tipo B, per uso all'interno e all'esterno
- Osservare le precauzioni per la manipolazione dei dispositivi elettrostatici
- da -25 °C a +55 °C conforme alle norme EN54-3 e EN54-23
- I passacavi devono essere opportunamente sigillati e conformi al grado minimo IP33 per le applicazioni EN54-3
- Temperatura di conservazione: da -40 °C a +70 °C
- Manutenzione – nessuna
- Le unità possono essere installate utilizzando 2 dei 4 fori da ø 6 mm o attraverso il retro dell'alloggiamento mediante la guarnizione fornita

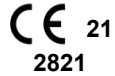
Toni approvati per applicazioni EN54-3:

- (Tono alternato) 800/1000 Hz a 2 Hz tono alternato 44
- (Tono crescente) 500/1200 Hz a 0,26 Hz (3,3 s acceso, 0,5 s spento) tono 8
- (Tono decrescente) 1200/500 Hz a 1 Hz tono 2
- (Tono continuo) 800 Hz tono 21
- (Tono pulsato) 660 Hz (150 ms acceso, 150 ms spento) tono 31

Altro codice: AL100XDC024
 Campo di tensione: 20 28 V c.c.
 Tensione nominale: 24 V c.c.
 Corrente max segnalatore acustico:
 P1: 125 mA a 28 V c.c.
 Corrente max segnalatore luminoso:
 271 mA a 20 V c.c.
 DP-2821-CPR-0109

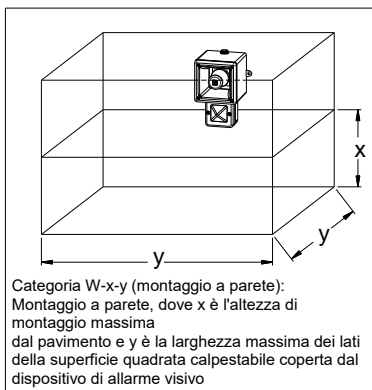


Altro codice: AL100XDC048
 Campo di tensione: 42-52 V c.c.
 Tensione nominale: 48 V c.c.
 Corrente max segnalatore acustico:
 125 mA a 52 V c.c.
 Corrente max segnalatore luminoso:
 160 mA a 42 V c.c.
 DP-2821-CPR-0109



AL100XDC024/AL100XDC048 a 1m

Angolo	Tensione max uscita sonora orizzontale (60 V c.c.) LAFmax,T dB(A)						Tensione min uscita sonora orizzontale (18 V c.c.) LAFmax,T dB(A)					
	Tono 44	Tono 8	Tono 2	Tono 21	Tono 31	Tono 5	Tono 44	Tono 8	Tono 2	Tono 21	Tono 31	Tono 5
15°	98	99.9	99	95.7	94.8	95.4	94.7	96.8	95.9	93	91.9	92.7
45°	97.8	100.1	99	97.6	94.7	96.6	95	97	96	94.8	92.1	94
75°	101.5	102.9	102.4	101.4	98.3	100.4	98.7	100.2	99.5	98.8	94.9	97.9
105°	101.4	102.8	102.5	101.4	98.1	100.4	98.6	100.2	99.5	98.8	94.9	97.9
135°	97.4	100	98.9	97.2	94.9	96.4	94.6	96.9	95.9	94.5	92.2	93.8
165°	97.5	99.6	98.9	95.8	94.7	95.4	94.3	96.4	95.8	93	91.8	92.8
Angolo	Tensione max uscita sonora verticale (60 V c.c.) LAFmax,T dB(A)						Tensione min uscita sonora verticale (18 V c.c.) LAFmax,T dB(A)					
	Tono 44	Tono 8	Tono 2	Tono 21	Tono 31	Tono 5	Tono 44	Tono 8	Tono 2	Tono 21	Tono 31	Tono 5
15°	96.3	99.8	99	95.5	94.1	95.3	93.1	96.7	96	92.8	91.2	92.6
45°	97.6	99.9	98.8	97.4	94.5	96.3	94.8	96.8	95.7	94.6	91.9	93.8
75°	101.3	103	102.5	101.4	98.1	100.5	98.5	100.1	99.5	98.7	95	97.8
105°	101.3	102.8	102.4	101.3	98.2	100.5	98.5	100.1	99.5	98.7	95	97.7
135°	97.4	99.9	98.8	97.6	94.5	96.3	94.6	96.8	95.8	94.8	91.9	93.7
165°	96.7	100	99	95.5	93.9	95.4	93.6	96.9	96	92.7	91.1	92.7

AL100XDC024 & AL100XDC48 EMISSIONE DI LUCE


Nota: le unità approvate dal CPR devono essere

Superficie calpestabile secondo EN54-23
(solo le unità nella tabella seguente sono
approvate VdS):

Unit	Category W	Power
AL100XDC024	W-2.4-4.8	11W
	V=55.3m	
AL100XDC048	W-2.5-5	14W
	V=62.5m	

Segnalatore luminoso approvato per applicazioni EN54-23:
Lenti trasparenti conformi a EN54-23

- Tutti i modelli sono approvati per l'uso come apparecchio con avviso acustico e visivo per l'uso come segnalazione generica: UL464A e CSA C22.2 n. 205-17
- Tipo 4/4X/3R/13, IP66 sottoposto a test indipendenti ai sensi della norma EN60529:1991
- da -40 °C a +66 °C
Segnalazione generica Canada:
AL100XDC: da -40 °C a +55 °C
AL100XAC: da -40 °C a +40 °C



- Per eseguire la manutenzione della protezione degli ingressi, gli ingressi dei cavi devono essere dotati di passacavi o tappi di arresto opportunamente tarati.
- Montaggio - Le unità possono essere installate utilizzando 2 dei 4 fori da \varnothing 6 mm nelle alette di montaggio o attraverso il retro dell'alloggiamento mediante la guarnizione fornita.
- Monitoraggio dispositivi di fine linea (solo c.c.): è possibile installare dispositivi di fine linea tra i terminali +ve e -ve della scheda PCBA. Per evitare cortocircuiti, controllare che le gambe dei dispositivi siano conformi alla gamma dimensionale dei cavi indicata per i terminali di connessione e che siano installate correttamente. Consultare le specifiche del pannello di controllo compatibile per informazioni sui valori e sui valori nominali dei dispositivi di fine linea

Modello	Tensione nominale	Campo di tensione	Corrente nominale operativa*		RMS max operativo*	
			Segnalatore luminoso	Segnalatore acustico	Segnalatore luminoso	Segnalatore acustico
AL100XDC012	12 V c.c.	11,5-14 V c.c.	500 mA	17 mA	531 mA	
AL100XDC024	24 V c.c.	20 28 V c.c.	250 mA	33,5 mA	271 mA	125 mA
AL100XDC048	48 V c.c.	42-54 V c.c.	170 mA	113 mA	170 mA	
AL100XAC024	24 V c.a.	24-28 V c.a. 50/60 Hz	300 mA	42,5 mA	426 mA	
AL100XAC048	48 V c.a.	42-54 V c.a. 50/60 Hz	250 mA	42 mA	360 mA	42,5 mA
AL100XAC115	115 V c.a.	103,5- 126.5 V c.a. 50/60 Hz	70 mA	25 mA	101 mA	
AL100XAC230	230 V c.a.	207-253 V c.a. 50/60 Hz	35 mA	17 mA	58 mA	

*Tensione nominale, schema lampeggiante a 1 Hz e tono 12; #caso peggiore di tensione di ingresso e caso peggiore di schema lampeggiante



Attenzione: l'installazione deve essere eseguita da un elettricista in conformità al codice elettrico nazionale statunitense, NFPA 70 o CSA 22.1 codice elettrico canadese, parte I, standard di sicurezza per impianti elettrici, sezione 32 / 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

FIRE INSTRUCTION & SERVICE MANUAL

AL100X Range Alert/Aight Combined Sounder Xenon Beacons

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

Model: AL100XDC



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 ø6mm holes in the mounting lugs or through the back of the housing using the supplied gasket seal.
- AL100XDC024 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).
- AL100XDC024 produces a minimum sound pressure level of US: 79.55dB(A); CA: 85.2dB(A) at 10 feet (figures @ worst case 10Vdc).
- AL100XDC024 produces a minimum sound pressure level of US: 88.52dB(A); CA: 93.7dB(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

- 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
AL100XDC024	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

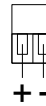
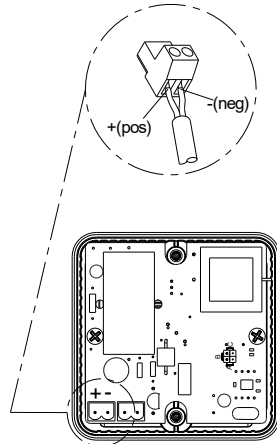
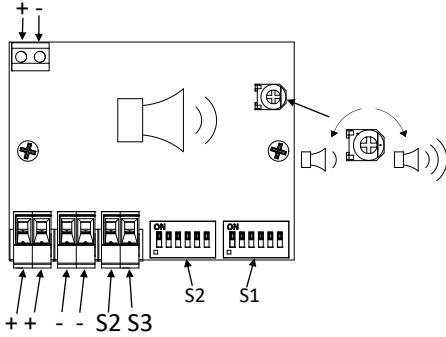
Surge current ratings for use in fire alarm systems

Model	Nominal Voltage	Voltage Range	Flash Rate	Initial Peak (mA)		Initial RMS (mA)	
				Beacon	Sounder	Beacon	Sounder
AL100XDC024	24Vdc	20 to 28Vdc	1Hz	271	298	250	56.4

AL100XDC024 Sounder Directional Characteristics for Canadian Fire CAN/ULC-S525 at 10 feet

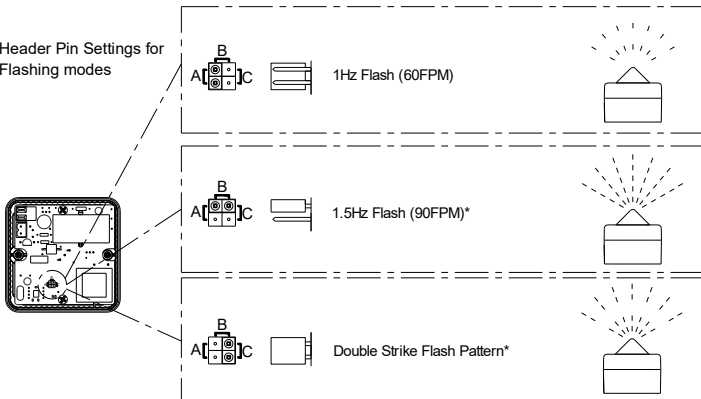
Horizontal Axis				Vertical Axis			
Angle	OSPL	Angle	OSPL	Angle	OSPL	Angle	OSPL
Ref. 90°	92.6 dB(A)	Ref. 90°	92.6 dB(A)	Ref. 90°	93 dB(A)	Ref. 90°	93 dB(A)
149°	-3 dB(A)	32°	-3 dB(A)	148°	-3 dB(A)	33°	-3 dB(A)
153°	-6 dB(A)	28°	-6 dB(A)	151.5°	-6 dB(A)	29°	-6 dB(A)
180°	87.2 dB(A)	0°	87 dB(A)	180°	87.2 dB(A)	0°	86.4 dB(A)

AL100XDC024 Sounder PCBA



AL100XDC024 Beacon PCBA
20-28 VDC

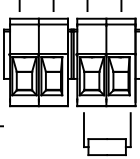
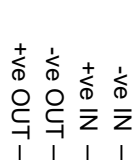
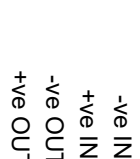



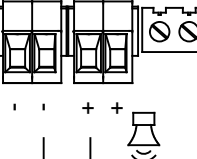
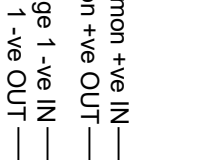
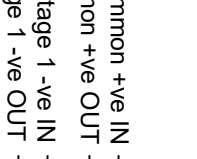



Header Pin Settings for Flashing modes



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

OPTIONAL LINE MONITORING RESISTOR, CUSTOMER SUPPLIER, RECOMMENDED MINIMUM VALUES: OR 10Ω IN, 0.5W IN, 28V MAX SYSTEM = 470Ω MIN, 2W MIN OR 2.4KΩ MIN, 0.5W IN

Independent Sounder & Beacon Activation (Remove Link Wires)

<p>Single Stage Configuration Line Monitoring</p>	<p>Two Stage Configuration Common Positive</p>	<p>Three/Four Stage Configuration Common Positive</p>
<p>Stage 1: Apply Power to Stage 1 +ve & Stage 1 -ve</p>	<p>Stage 1: Apply Power to Stage 1 -ve & Common +ve Stage 2: Apply Power to Stage 1 -ve, Stage 2 -ve & Common +ve</p>	<p>Stage 1: Apply Power to Stage 1 -ve & Common +ve Stage 2: Apply Power to Stage 1 -ve, Stage 2 -ve & Common +ve Stage 3: Apply Power to Stage 1 -ve, Stage 3 -ve & Common +ve Stage 4: Apply Power to Stage 1 -ve, Stage 2 -ve, Stage 3 -ve & Common +ve</p>
<p>C</p> <p>-ve IN — +ve IN — -ve OUT — +ve OUT —</p> 	<p>-ve IN — +ve IN — -ve OUT — +ve OUT —</p> 	<p>-ve IN — +ve IN — -ve OUT — +ve OUT —</p> 
<p>D</p> 		
<p>E</p> <p>Stage 1 +ve IN — Stage 1 +ve OUT — Stage 1 -ve IN — Stage 1 -ve OUT —</p> 	<p>Common +ve IN — Common +ve OUT — Stage 1 -ve IN — Stage 1 -ve OUT — Stage 2 -ve —</p> 	<p>Common +ve IN — Common +ve OUT — Stage 1 -ve IN — Stage 1 -ve OUT — Stage 2 -ve — Stage 3 -ve —</p> 
<p>F</p> 		

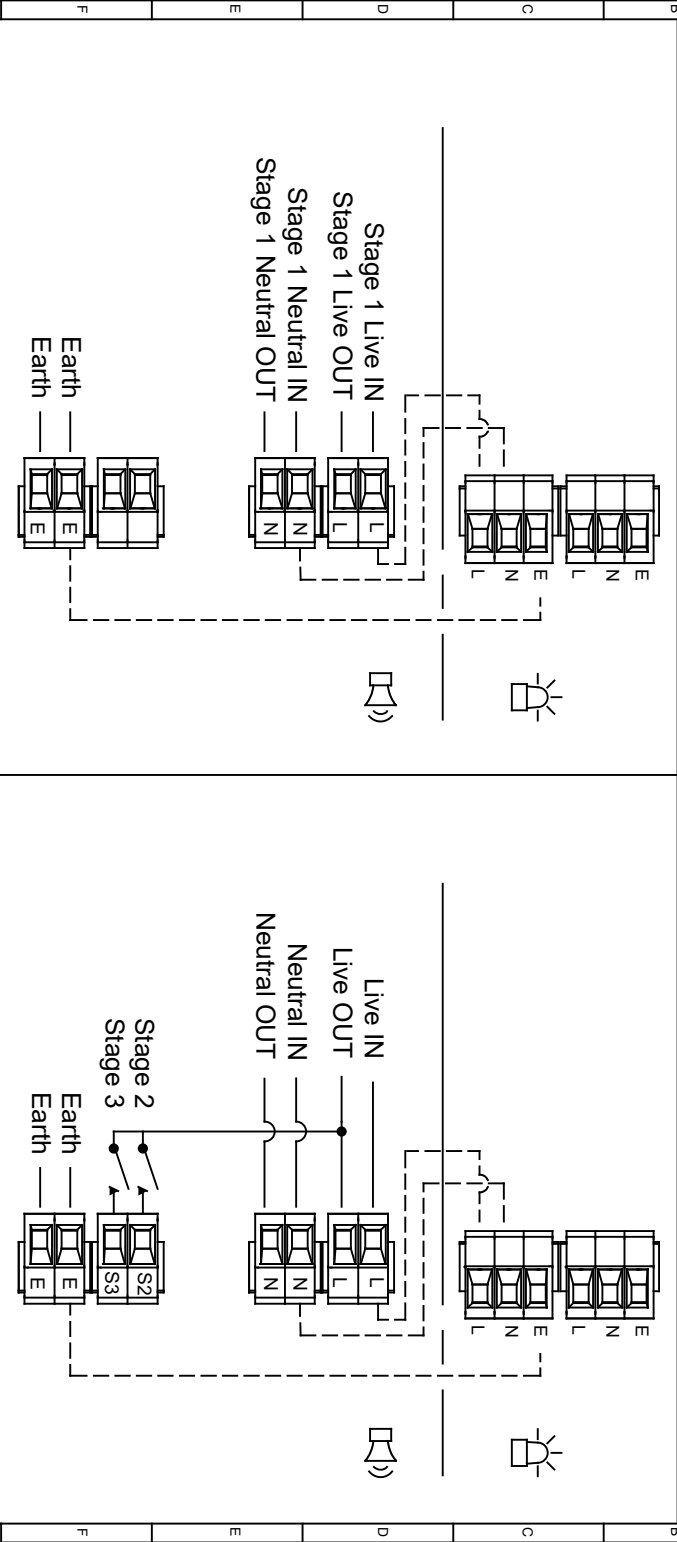
<p>DRAWING TO BE ENHANCED TO ISO 10111:1983 GEOMETRIC TOLERANCES TO ISO 1101:1984 ANGULAR DIMENSIONAL TOLS</p>	<p>DRAWN R.S. RAIT</p>	<p>DATE 16/03/2021</p>	<p>SURFACE FINISH</p>	<p>WEIGHT (KG)</p>	<p>ALL DIMENSIONS IN MM IF IN QUOTE ASK - DO NOT SCALE</p>
<p>STANDARDS ALERT/ARM RANGE</p>	<p>CHECKED B.ISARD</p>	<p>DATE 16/03/2021</p>	<p>MATERIAL</p>	<p>APPROVED R.N.POTTS</p>	<p>DATE 16/03/2021</p>
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<p>©</p>		<p>2S wiring systems</p>		<p>SCALE NTS</p> <p>SHEET 2 OF 2</p> <p>DRAWING NUMBER D218-06-201</p>	



Linked Sounder & Beacon Activation (Default)

Single Stage Configuration Config.: 1a1 Three/Four Stage Configuration Config.: 1b

Stage 1: Apply Power to Stage 1 Live & Stage 1 Neutral Stage 1: Apply Power to Live & Neutral
Stage 2: Apply Power to Live & Neutral & connect Stage 2 to Live
Stage 3: Apply Power to Live & Neutral & connect Stage 3 to Live



DRAWING TO BE ENHANCED TO ISO 10111:1983 GEOMETRIC TOLERANCES TO ISO 1101:1983 ANGULAR DIMENSIONAL TOLS		DRAWN R. S. RAIT		DATE 16/03/2021	SURFACE FINISH		WEIGHT (KG)
STANDARDS ALERT/ALARM RANGE		CHECKED B. ISARD	DATE 16/03/2021	MATERIAL			
		APPROVED R. N. POTTS	DATE 16/03/2021	ALTERNATIVE MATERIAL			
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<p>European Safety Systems Ltd MANSELL ROAD LONDON W10 7QH WWW.E2S.COM</p>		<p>ALL DIMENSIONS IN MM IF IN QUOTE 'RSK' DO NOT SCALE</p>		<p>TITLE AL100X, AL105XK & DL105X COMBINED SOUNDER & XENON WIRING DIAGRAMS</p>		<p>A3</p>	
SCALE NTS		SHEET 1 OF 2		DRAWING NUMBER D218-06-205			

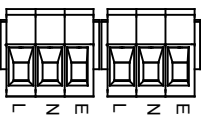
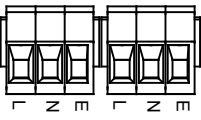
SWITCHES FOR STAGE OPERATION
CUSTOMER SUPPLIED

Independent Sounder & Beacon Activation (Remove Link Wires)

Single Stage Configuration Config.: 2a Config.: 2b

Stage 1: Apply Power to Stage 1 Live & Stage 1 Neutral Stage 1: Apply Power to Live & Neutral

Stage 2: Apply Power to Live & Neutral
Stage 3: Apply Power to Live & Neutral & connect Stage 3 to Live



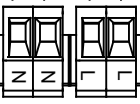
Stage 1 Live IN
Stage 1 Live OUT



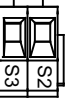
Stage 1 Neutral IN
Stage 1 Neutral OUT



Live IN
Live OUT
Neutral IN
Neutral OUT



Stage 2
Stage 3



Earth
Earth



Earth
Earth



DRAWING TO BS 6888:2000
GEOMETRIC TOLERANCES TO ISO 1101:1983
ANGULAR DIMENSIONAL TOLS

DRAWN	DATE	SURFACE FINISH	WEIGHT (KG)
R.S. RAIT	16/03/2021		

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ALL DIMENSIONS IN MM IF IN QUOTE 'ASK' DO NOT SCALE	A3
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STANDARDS APPROVED DATE ALTERNATIVE MATERIAL

ALERT/ALARM RANGE	B.ISARD	16/03/2021	
	R.N.POTTS	16/03/2021	

TITLE AL 100X, AL 105XK & DL 105X COMBINED SOUNDER & XENON WIRING DIAGRAMS	SHEET 2 OF 2	DRAWING NUMBER D218-06-205
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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 0 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