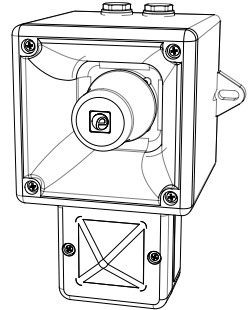


# INSTRUCTION & SERVICE MANUAL

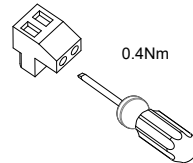
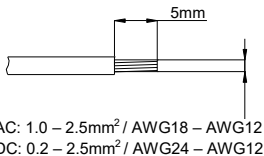
## AL105NX AlertAlight Combined Sounder Xenon Beacons

- -40°C to +66C (-40°F to 151°F)
- Type 4 / 4X / 3R / 13, IP66
- 1.8Kg (3.96lb)
- CE, AL105NXDC024 & AL105NXDC048 CPR compliant, All units UL Listed.



Unit Type Code	Nominal Voltage	Voltage Range	Nominal Sounder Current*	Nominal Beacon Current*	Nominal SPL	Max SPL	Average SPL
AL105NXDC012	12 V dc	11.5-14V dc	17mA	341mA	105.3dB(A) Tone 44 @ 1m	110.9dB(A) Tone 4 @ 1m	105.2dB(A) All tones @1m
AL105NXDC024	24V dc	20-28V dc	33.5mA	250mA			
AL105NXDC048	48V dc	42-52V dc	113mA	170mA			
AL105NXAC024	24V ac	24-28V ac 50/60Hz	42.5mA	300mA			
AL105NXAC048	48V ac	48V ac ± 10% 50/60Hz	42mA	250mA			
AL105NXAC115	115V ac	115V ac ± 10% 50/60Hz	25mA	70mA			
AL105NXAC230	230V ac	230V ac ± 10% 50/60Hz	17mA	35mA			

\*Nominal current at nominal voltage, Tone 12 / 1Hz Flash Pattern



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.

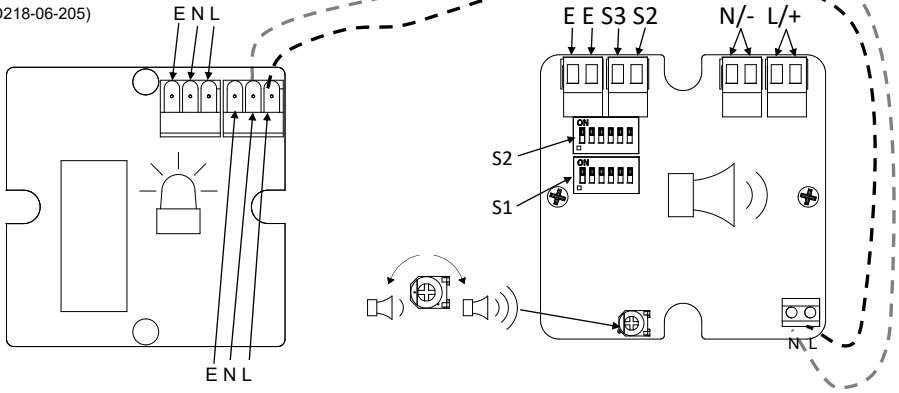
Atenção: Desconecte da fonte de alimentação antes da instalação ou serviço para evitar choque elétrico

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



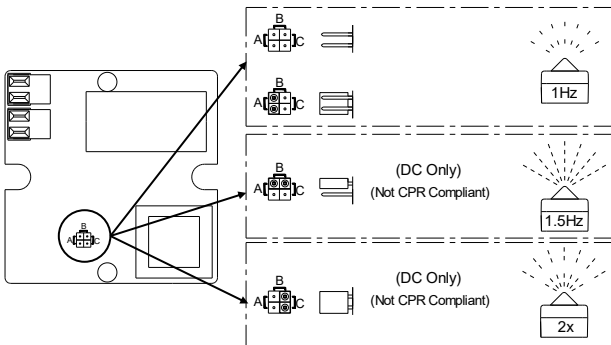
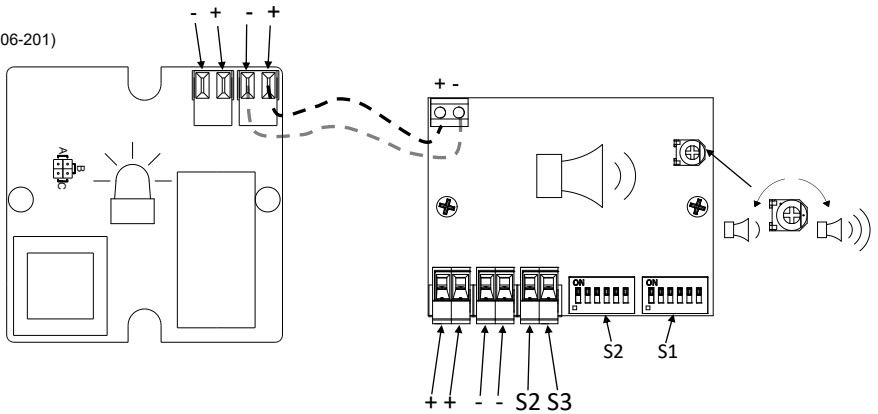
## AC

(See D218-06-205)



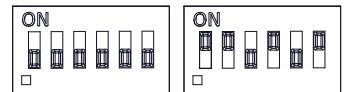
## DC

(See D218-06-201)



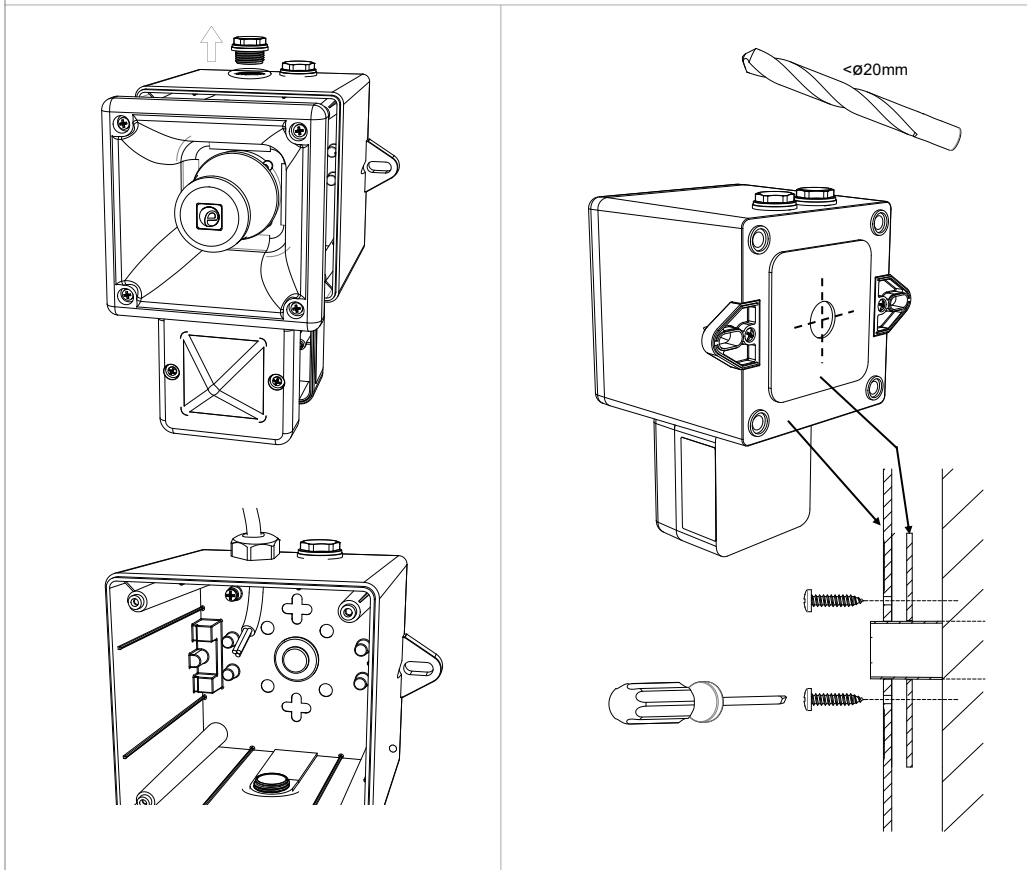
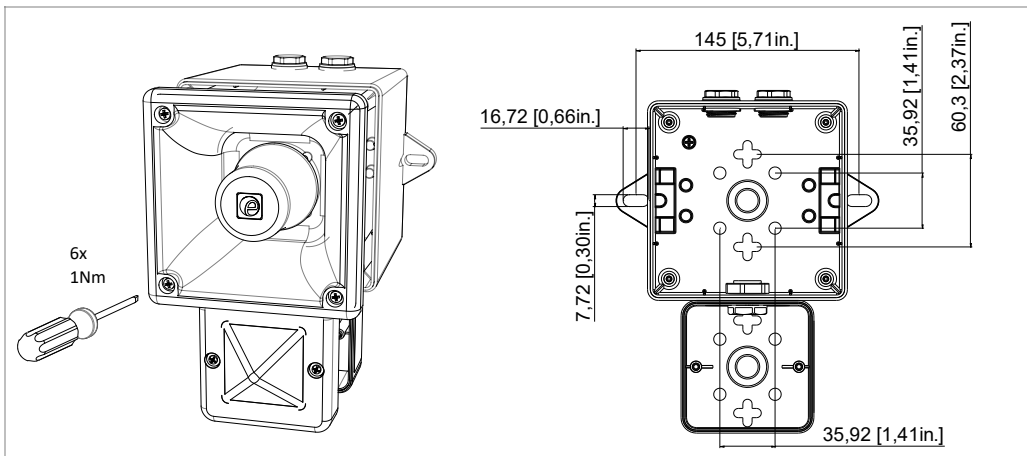
(AC & DC, See D221-95-001)

Default = S2 - Tone 1    Default = S1 - Tone 44



(ON = 1, OFF = 0)

INSTRUCTION & SERVICE MANUAL  
AL105NX AlertAlight Combined Sounder Xenon Beacons



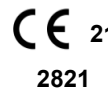
**Construction Product Regulation**

- AL105NXDC024 & AL105NXDC048 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
- Alarm devices – Sounder & Beacon
- Type 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 & EN54-23
- Cable Glands must be suitably sealed and meet minimum IP33 for EN54-3 applications
- Storage Temperature: -40°C to +70°C
- Maintenance – None
- Units can be mounted using 2-off  $\varnothing$ 7mm holes or through the back of the housing using the supplied gasket

Order Code: AL105NXDC024  
 Voltage Range: 20-28Vdc  
 Nominal Voltage: 24Vdc  
 Max Sounder Current: P1: 125mA @ 28Vdc  
 Max Beacon Current: 271mA @ 20Vdc  
 DP-2821-CPR-0109



Order Code: AL105NXDC048  
 Voltage Range: 42-52Vdc  
 Nominal Voltage: 48Vdc  
 Max Sounder Current: 125mA @ 52Vdc  
 Max Beacon Current: 160mA @ 42Vdc  
 DP-2821-CPR-0109



**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

**AL105NXDC024 / AL105NXDC048 @ 1m**

Angle	Horizontal Sound Output Max Voltage (60 Vdc) LAFmax,T dB(A)						Horizontal Sound Output Min Voltage (18 Vdc) LAFmax,T dB(A)					
	Tone 44	Tone 8	Tone 2	Tone 21	Tone 31	Tone 5	Tone 44	Tone 8	Tone 2	Tone 21	Tone 31	Tone 5
15°	93.9	94.6	93.7	94	91	91.8	90.8	91.2	90.5	90.9	88	89.1
45°	99.6	101.4	100.1	99.7	96.6	98.2	96.5	98.3	96.9	96.6	93.5	95.7
75°	102.5	103.9	103.5	102.6	102	100.6	100	101.1	100.6	100.1	98.7	98
105°	102.5	103.9	103.4	102.7	102	100.6	100	101.1	100.6	100.3	98.8	98.2
135°	99.5	101.4	100.1	99.7	96.4	98.1	96.4	98.2	96.9	96.6	93.5	95.5
165°	94.1	94.8	93.7	94.1	90.6	91.8	91.1	91.5	90.5	91.1	87.6	89.2

Angle	Vertical Sound Output Max Voltage (60 Vdc) LAFmax,T dB(A)						Vertical Sound Output Min Voltage (18 Vdc) LAFmax,T dB(A)					
	Tone 44	Tone 8	Tone 2	Tone 21	Tone 31	Tone 5	Tone 44	Tone 8	Tone 2	Tone 21	Tone 31	Tone 5
15°	93.8	94.7	93.5	94.3	90.2	91.8	90.7	91.5	90.2	91.2	87.3	89.2
45°	99.6	101.4	100.1	100	96.4	98.3	96.5	98.4	97	96.9	93.4	95.7
75°	103	104.2	103.7	103.2	101.5	100.6	99.8	101.1	100.5	100.1	98.5	98.1
105°	102.6	104.2	103.4	102.6	101.8	100.5	100	101	100.6	100	99	98
135°	99.5	101.4	100.1	99.8	96.4	98.3	96.3	98.2	97	96.6	93.5	95.7
165°	94.3	94.5	93.6	94.6	89.8	91.6	91.2	91.2	90.4	91.5	96.8	88.8

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)  
 A & B (All locations)
- Humidity: A (Bulkheads, Beams, Deck, Bridge)
- Vibration: A (All locations except Bridge & open deck)
- EMC: A, B & C, IP66 (Control rooms, accommodation, bridge, engine room, open deck masts, below floor plates in engine room)
- Enclosure: A, B & C, IP66 (Control rooms, accommodation, bridge, engine room, open deck masts, below floor plates in engine room)

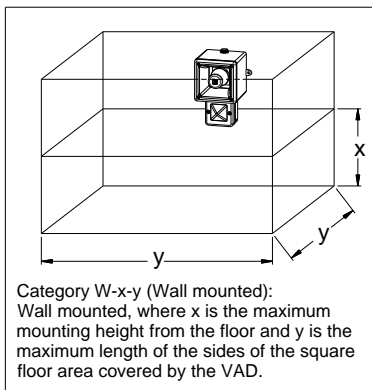
The units comply with Solas 74 Chapter II-2, Regulation 7 & Chapter X, Regulation 3 for installation on ships in the following locations:

- Temperature: D (Location -25° to +70°C)  
 A (General Applications)
- Vibration: A (General Applications)
- EMC: A (General Power Distribution Zone)
- Enclosure: IP66, Salt mist

# INSTRUCTION & SERVICE MANUAL

## AL105NX AlertAlight Combined Sounder Xenon Beacons

### AL105NXDC024 & AL105NXDC48 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
AL105NXDC024	W-2.4-4.8	11W
	V=55.3m	
AL105NXDC048	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 and Visual Appliance for use as General Signaling: UL464A & CSA C22.2 No 205-17
- Type 4 / 4X / 3R / 13, IP66 independently tested to EN60529:1991
- 40°C to +66°C / -40°C to +151°F  
General Signaling Canada:  
AL105NXDC: -40°C to +55°C / -40°F to +131°F  
AL105NXAC: -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 of the 4-off Ø7mm 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	Beacon	Sounder
AL105NXDC012	12V dc	11.5-14Vdc	341mA	17mA	531mA	125mA
AL105NXDC024	24V dc	20-28Vdc	250mA	33.5mA	271mA	
AL105NXDC048	48V dc	42-52Vdc	170mA	113mA	170mA	
AL105NXAC024	24V ac	24-28Vac 50/60Hz	300mA	42.5mA	426mA	42.5mA
AL105NXAC048	48V ac	42-54Vac 50/60Hz	250mA	42mA	360mA	
AL105NXAC115	115 Vac	103.5-126.5Vac 50/60Hz	70mA	25mA	101mA	
AL105NXAC230	230 Vac	207-253Vac 50/60Hz	35mA	17mA	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

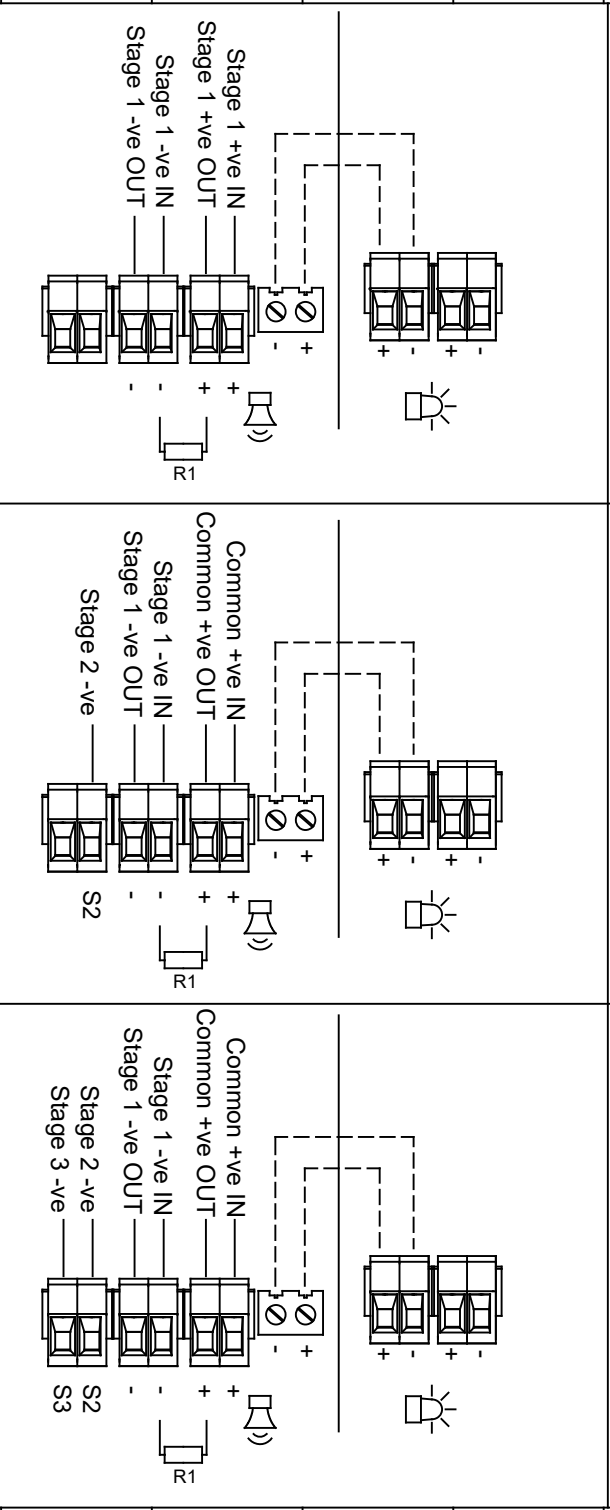
--- WIRING LINKING BEACON & SOUNDER  
 --- FACTORY FITTED

OPTIONAL LINE MONITORING RESISTOR. CUSTOMER SUPPLIED.  
 RECOMMENDED MINIMUM VALUES:  
 12V: 100 OHM OR 140 OHM, 0.5W MIN.  
 24V: MAX SYSTEM = 4700 OHM, 2W MIN OR 24K OHM, 0.5W MIN

Linked Sounder & Beacon Activation (Default)

Single Stage Configuration	Config.: 1a	Two Stage Configuration	Config.: 1b	Three/Four Stage Configuration	Config.: 1c
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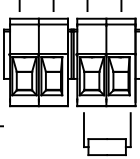
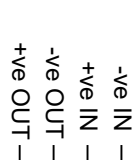
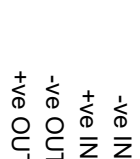



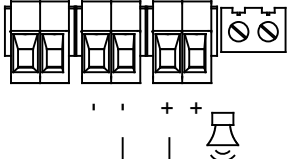
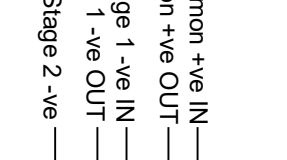
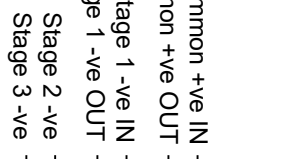



**Line Monitoring**  
 Stage 1: Apply Power to Stage 1 +ve & Stage 1 -ve  
 Common Negative  
 Stage 1: Apply Power to Stage 1 -ve & Common +ve  
 Stage 2: Apply Power to Stage 1 -ve, Stage 2 -ve & Common +ve  
 Common Negative  
 Stage 1: Apply Power to Stage 1 -ve & Common +ve  
 Stage 2: Apply Power 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



DRAWING TO BS8888:2000 GEOMETRIC TOLERANCES TO ISO1101:1983 UNLESS OTHERWISE SPECIFIED ANGULAR DIMENSIONAL TOLS	DRAWN	DATE	SURFACE FINISH	WEIGHT (KG)	THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER THEREIN IS UNMUTATED IN COMPLIANCE WITH THE EUROPEAN DIRECTIVE ON DATA PROTECTION AND SYSTEMS TO WHICH THE HOLDING COMPANY EXTENSIVELY MANUFACTURING OR TENDERING PURPOSES WITHOUT THEIR WRITTEN CONSENT. BIRCHWOOD ELECTRICAL LTD. ASPHER, LATEST DATE OF ISSUE SHOWN ABOVE	 EUROPEAN SAFETY SYSTEMS LTD MANWELL ROAD LONDON W10 7QH WWW.E2S.COM	ALL DIMENSIONS IN MM IF IN QUOTE ASK - DO NOT SCALE	 <b>A3</b>
	CHECKED	DATE	MATERIAL				TITLE: AL100X, AL105NX & DL105X DC COMBINED SOUNDER & XENON WIRING DIAGRAMS	
STANDARDS	APPROVED	DATE	ALTERNATIVE MATERIAL					
	R.N.POTTS	16/03/2021					1 OF 2	D218-06-201

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

Independent Sounder & Beacon Activation (Remove Link Wires)

<p><b>Single Stage Configuration</b></p> <p>Line Monitoring</p> <p>Stage 1: Apply Power to Stage 1 +ve &amp; Stage 1 -ve</p>	<p><b>Two Stage Configuration</b></p> <p>Common Positive</p> <p>Stage 1: Apply Power to Stage 1 -ve &amp; Common +ve</p> <p>Stage 2: Apply Power to Stage 1 -ve, Stage 2 -ve &amp; Common +ve</p>	<p><b>Three/Four Stage Configuration</b></p> <p>Common Positive</p> <p>Stage 1: Apply Power to Stage 1 -ve &amp; Common +ve</p> <p>Stage 2: Apply Power to Stage 1 -ve, Stage 2 -ve &amp; Common +ve</p> <p>Stage 3: Apply Power to Stage 1 -ve, Stage 3 -ve &amp; Common +ve</p> <p>Stage 4: Apply Power to Stage 1 -ve, Stage 2 -ve, Stage 3 -ve &amp; Common +ve</p>
<p>Config.: 5a</p>	<p>Config.: 5b</p>	<p>Config.: 5c</p>
<p>C</p> <p>-ve IN —</p> <p>+ve IN —</p> <p>-ve OUT —</p> <p>+ve OUT —</p> 	<p>C</p> <p>-ve IN —</p> <p>+ve IN —</p> <p>-ve OUT —</p> <p>+ve OUT —</p> 	<p>C</p> <p>-ve IN —</p> <p>+ve IN —</p> <p>-ve OUT —</p> <p>+ve OUT —</p> 
<p>D</p> 	<p>D</p> 	<p>D</p> 
<p>E</p> <p>Stage 1 +ve IN —</p> <p>Stage 1 +ve OUT —</p> <p>Stage 1 -ve IN —</p> <p>Stage 1 -ve OUT —</p> 	<p>E</p> <p>Common +ve IN —</p> <p>Common +ve OUT —</p> <p>Stage 1 -ve IN —</p> <p>Stage 1 -ve OUT —</p> <p>Stage 2 -ve —</p> 	<p>E</p> <p>Common +ve IN —</p> <p>Common +ve OUT —</p> <p>Stage 1 -ve IN —</p> <p>Stage 1 -ve OUT —</p> <p>Stage 2 -ve —</p> <p>Stage 3 -ve —</p> 
<p>F</p> 	<p>F</p> 	<p>F</p> 

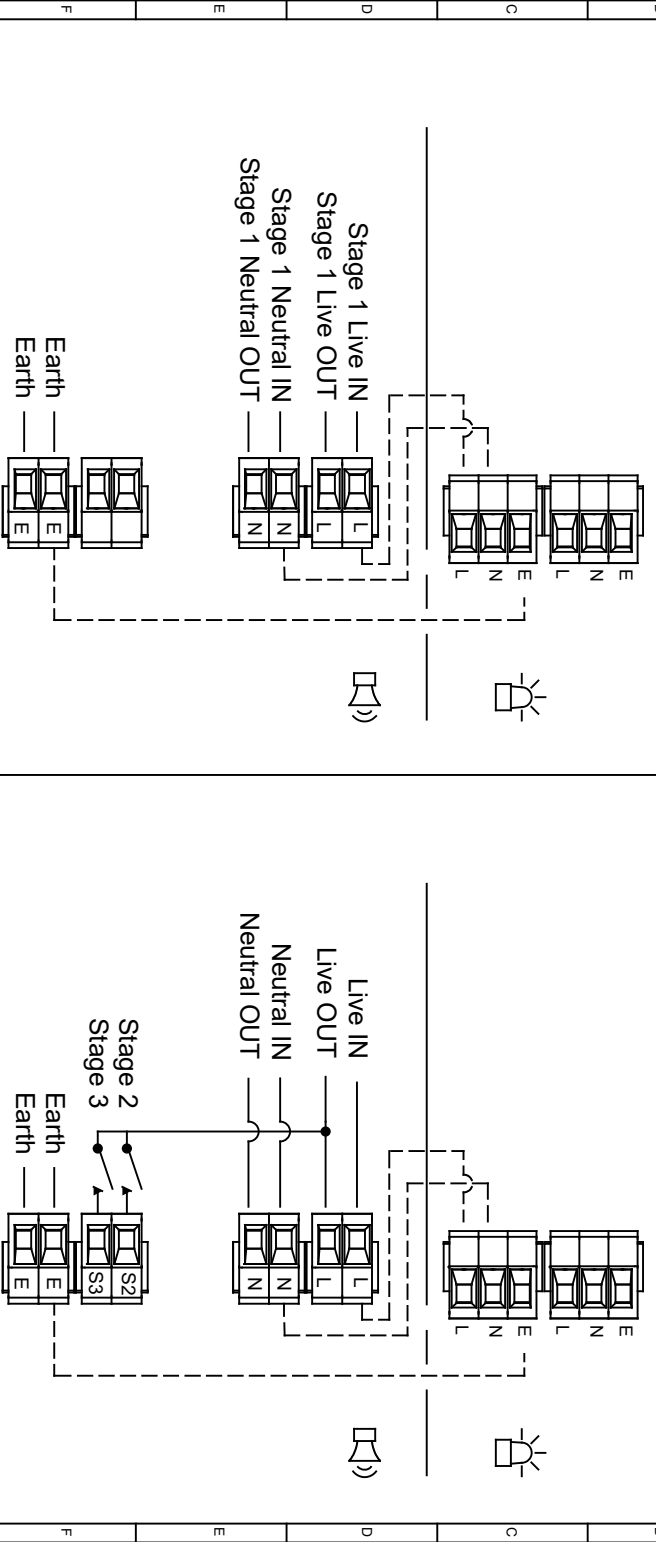
<p>DRAWING TO BE REFINISHED TO ENHANCE TO ISO 10111:1983 GEOMETRIC TOLERANCES TO ISO 1101:1983 AND SURFACE FINISHES TO ISO 1101:1983</p>	<p>DRAWN R. S. RAIT</p> <p>CHECKED B. ISARD</p> <p>APPROVED R. N. POTTS</p>	<p>DATE 16/03/2021</p> <p>DATE 16/03/2021</p> <p>DATE 16/03/2021</p>	<p>SURFACE FINISH</p> <p>WEIGHT (KG)</p>	<p>THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER THEREIN IS THE SOLE PROPERTY OF EUROPEAN SAFETY SYSTEMS LTD. NO PARTS OF THIS DRAWING OR ANY INFORMATION OR DESCRIPTIVE MATTER HEREIN IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN CONSENT OF EUROPEAN SAFETY SYSTEMS LTD.</p> <p>REPRODUCTION OF THIS DRAWING WITHOUT THE WRITTEN CONSENT OF EUROPEAN SAFETY SYSTEMS LTD. IS PROHIBITED.</p> <p>DATE OF ISSUE SHOWN ABOVE</p>	<p>ALL DIMENSIONS IN MM IF IN QUOTE ASK DO NOT SCALE</p> <p>TITLE AL100X AL105NX &amp; DL105X DC COMBINED SOUNDER &amp; XENON WIRING DIAGRAMS</p> <p>SCALE NTS</p> <p>SHEET 2 OF 2</p> <p>DRAWING NUMBER D218-06-201</p>
<p>STANDARDS</p> <p>ALERT/ARM RANGE</p>	<p>DATE 16/03/2021</p>	<p>MATERIAL</p>	<p>ALTERNATIVE MATERIAL</p>	<p>EUROPEAN SAFETY SYSTEMS LTD MANCHESTER ROAD LONDON W10 7QH WWW.ES.SYS.COM</p>	<p>A3</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 BS 6888:2000 GEOMETRIC TOLERANCES TO ISO 1101:1983 ANGULAR DIMENSIONAL TOLS		DRAWN R. S. PAIT		DATE 16/03/2021	SURFACE FINISH		WEIGHT (KG)	THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER THEREIN IS UNMUTATED INCORPORATING SYSTEMS TO WHICH THE WHOLE OR ANY PART MAY MANUFACTURING OR TENDERING PURPOSES WITHOUT THEIR WRITTEN CONSENT. BIRDAIR SYSTEMS LTD AS PER LATEST DATE OF ISSUE SHOWN ABOVE		 EUROPEAN SAFETY SYSTEMS LTD MANSELL ROAD LONDON W3 7QH WWW.E2S.COM		ALL DIMENSIONS IN MM IF IN QUOTE 'RSK' DO NOT SCALE		 <b>A3</b>	
STANDARDS ALERT/ALARM RANGE		CHECKED B. ISARD	DATE 16/03/2021	MATERIAL		ALTERNATIVE MATERIAL		©		TITLE: AL100X, AL105XK & DL105X COMBINED SOUNDER & XENON WIRING DIAGRAMS		SCALE NTS	SHEET 1 OF 2	DRAWING NUMBER D218-06-205	



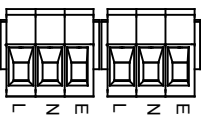
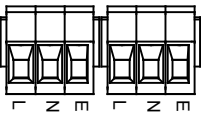
SWITCHES FOR STAGE OPERATION  
CUSTOMER SUPPLIED

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

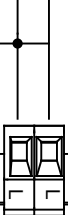
Stage 2: Apply Power to Live & Neutral  
Stage 3: Apply Power to Live & Neutral & connect Stage 3 to Live



Stage 1 Live IN  
Stage 1 Live OUT



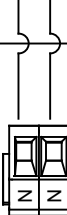
Live IN  
Live OUT



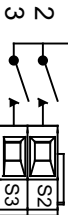
Stage 1 Neutral IN  
Stage 1 Neutral OUT



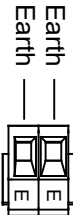
Neutral IN  
Neutral OUT



Stage 2  
Stage 3



Earth  
Earth



DRAWING TO BS8886:2000  
GEOMETRIC TOLERANCES TO ISO1101:1983  
ANGULAR DIMENSIONAL TOLS

DRAWN	DATE	SURFACE FINISH	WEIGHT (KG)
R.S. RAIT	16/03/2021		
CHECKED	DATE	MATERIAL	
B.ISARD	16/03/2021		
APPROVED	DATE	ALTERNATIVE MATERIAL	
R.N.POTTS	16/03/2021		

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WRITTEN CONSENT.



ALL DIMENSIONS IN MM IF IN QUOTE, ASK DON'T SCALE	A3
TITLE AL 100X, AL 105XK & DL 105X COMBINED SOUNDER & XENON WIRING DIAGRAMS	
SCALE SHEET NTS 2 OF 2	DRAWING NUMBER D218-06-205

STANDARDS	ALERT/ALARM RANGE
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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 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

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