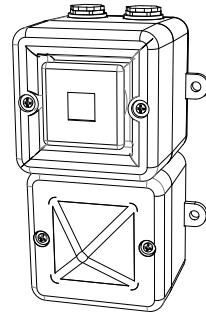


Installation/Anschluss
 Installation/Raccordement
 Installation/Connection

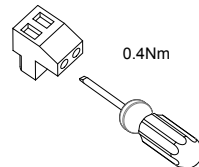
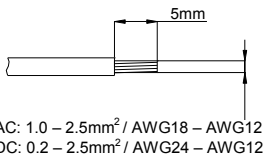
AL100

- -40°C to +66C (-40°F to 151°F)
- Type 3R / 13 (IP66, Independently tested to EN60529:1991)
- 0.46Kg (1.01lb)
- CE, AL100XDC024 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
AL100.012.2	12 V dc	11.5-14V dc	17mA	341mA	101.6dB(A) Tone 44 @ 1m	110dB(A) Tone 4 @ 1m	102.3dB(A) All tones @1m
AL100.024.2	24V dc	20-28V dc	33.5mA	250mA			
AL100.048.2	48V dc	42-52V dc	113mA	170mA			
AL100.024.7	24V ac	24-28V ac 50/60Hz	42.5mA	300mA			
AL100.048.7	48V ac	48V ac ± 10% 50/60Hz	42mA	250mA			
AL100.115.7	115V ac	115V ac ± 10% 50/60Hz	25mA	70mA			
AL100.230.7	230V ac	230V ac ± 10% 50/60Hz	17mA	35mA			

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



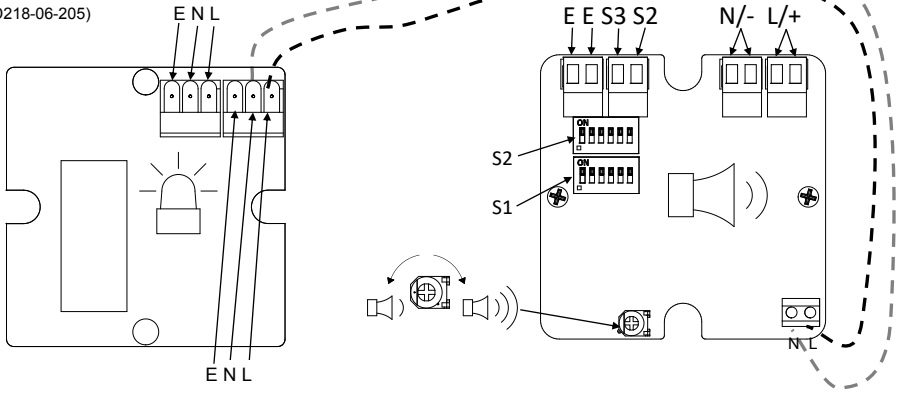
Attention: Installation must be carried out by an electrician in compliance with the latest codes and regulations.
 Attention: L'installation doit être effectuée par un électricien conformément aux derniers codes et réglementations.
 Achtung: Die Installation muss von einem Elektriker gemäß den neuesten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



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.

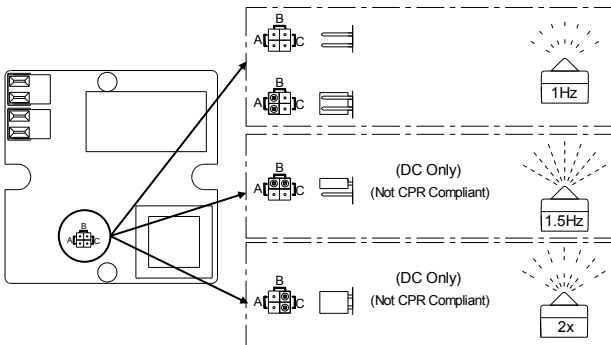
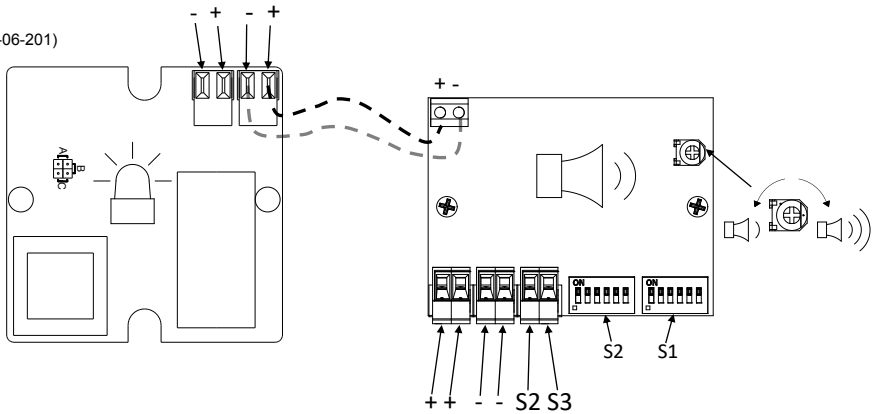
AC

(See D218-06-205)



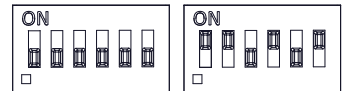
DC

(See D218-06-201)



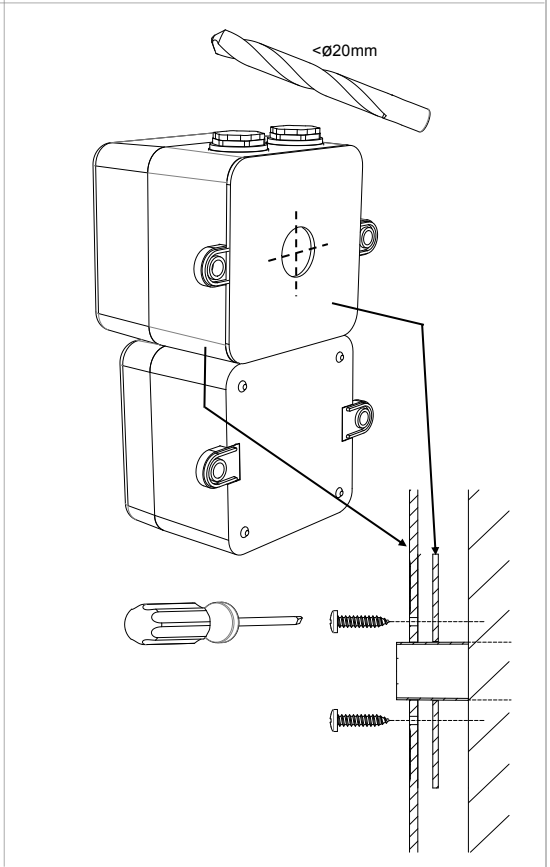
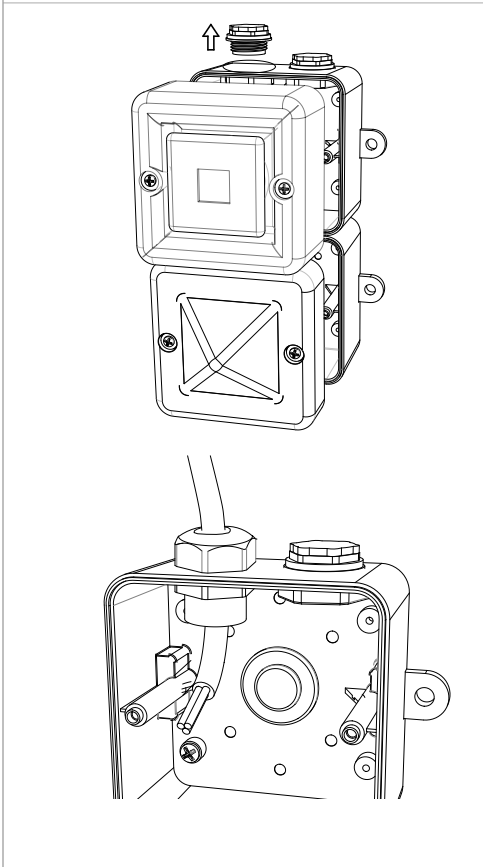
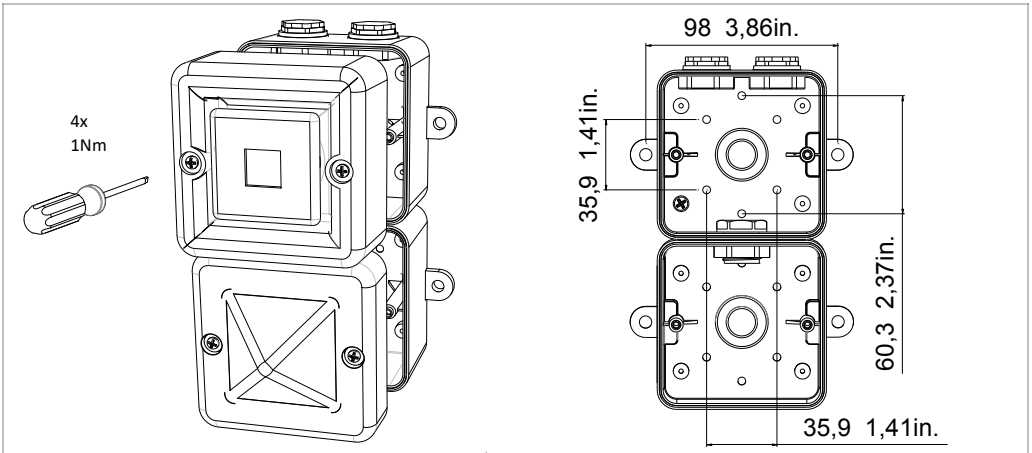
(AC & DC, See D221-95-001)

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



(ON = 1, OFF = 0)

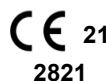
INSTRUCTION & SERVICE MANUAL
AL100



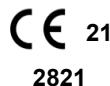
Construction Product Regulation

AL100.024.2 & AL100.048.2 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 the 2 of the 4-off ø6mm holes or through the back of the housing using the supplied gasket

Order Code: AL100.024.2
 Voltage Range: 20-28Vdc
 Nominal Voltage: 24Vdc
 Max Sounder Current: P1: 125mA @ 28Vdc
 Max Beacon Current: 271mA @ 20Vdc
 DP-2821-CPR-0109



Order Code: AL100.048.2
 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
- (Alternating Tone) 544Hz(100mS)/440Hz (400mS) Tone 5

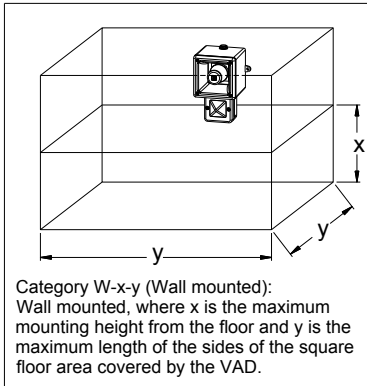
AL100.024.2 / AL100.048.2 @ 1m

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°	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
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°	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

INSTRUCTION & SERVICE MANUAL

AL100

AL100.024.2 & AL100.048.2 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
AL100.024.2	W-2.4-4.8	11W
	V=55.3m	
AL100.048.2	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:

AL100.xxx.2 DC: -40°C to +55°C / -40°F to +131°F
AL100.xxx.7 AC: -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 Ø6mm 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
AL100.012.2	12V dc	11.5-14Vdc	341mA	17mA	531mA	125mA
AL100.024.2	24V dc	20-28Vdc	250mA	33.5mA	271mA	
AL100.048.2	48V dc	42-52Vdc	170mA	113mA	170mA	
AL100.024.7	24V ac	24-28Vac 50/60Hz	300mA	42.5mA	426mA	42.5mA
AL100.048.7	48V ac	42-54Vac 50/60Hz	250mA	42mA	360mA	
AL100.115.7	115 Vac	103.5-126.5Vac 50/60Hz	70mA	25mA	101mA	
AL100.230.7	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

1	2	3	4	5	6	7	8	9	10
							ISSUE	MOD NO	REASON - INITIAL - DATE
							A		INTRODUCTION RSK - 11/09/2021
							A		

--- WIRING LINKING BEACON & SOUNDER
FACTORY FITTED



OPTIONAL LINE MONITORING RESISTOR - CUSTOMER SUPPLIED.
RECOMMENDED MINIMUM VALUES: 100 OHM OR 1/2W MIN. 0.5W MIN.
250V MAX SYSTEM = 4700 MIN. 20W MIN OR 24KOHM 0.5W MIN

Linked Sounder & Beacon Activation (Default)

<p>Single Stage Configuration Line Monitoring Stage 1: Apply Power to Stage 1 +ve & Stage 1 -ve</p>	<p>Two Stage Configuration 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</p>	<p>Three/Four Stage Configuration 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</p>
<p>Config.: 1a</p>	<p>Config.: 1b</p>	<p>Config.: 1c</p>

<p>DRAWING TO BE RELEASED TO ENRANCER'S TO ISO 10171:1983 GEOMETRIC TOLERANCES TO ISO 1101:1983 DIMENSIONS TO BS 3 ANGULAR DIMENSIONAL TOLS</p>	<p>DRAWN R.S. RAIT DATE 16/03/2021</p>	<p>SURFACE FINISH MATERIAL</p>	<p>WEIGHT (kg)</p>	<p>ALL DIMENSIONS IN MM IF IN QUOTE ASK - DO NOT SCALE</p>
<p>STANDARDS ALERTALARM RANGE</p>	<p>CHECKED B.ISARD DATE 16/03/2021</p>	<p>APPROVED R.N.POTTS DATE 16/03/2021</p>	<p>ALTERNATIVE MATERIAL</p>	<p>TITLE AL100X AL105 & DL105 DC COMBINED SOUNDER & XENON WIRING DIAGRAMS SCALE SHEET 1 OF 2 DRAWING NUMBER D218-06-201</p>
<p>THIS DRAWING AND ANY INFORMATION OR DESCRIPTION MATTER THEREIN IS UNMUTATED IN COMPLIANCE WITH THE PROVISIONS OF THE DEFENCE ACT 1989 AND SYSTEMS TO WHICH THE PROVISIONS OF THE ACT MAY APPLY. THE DRAWING IS THE PROPERTY OF DEFENCE AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF THE MODIFIED DATE OF ISSUE SHOWN ABOVE</p>				

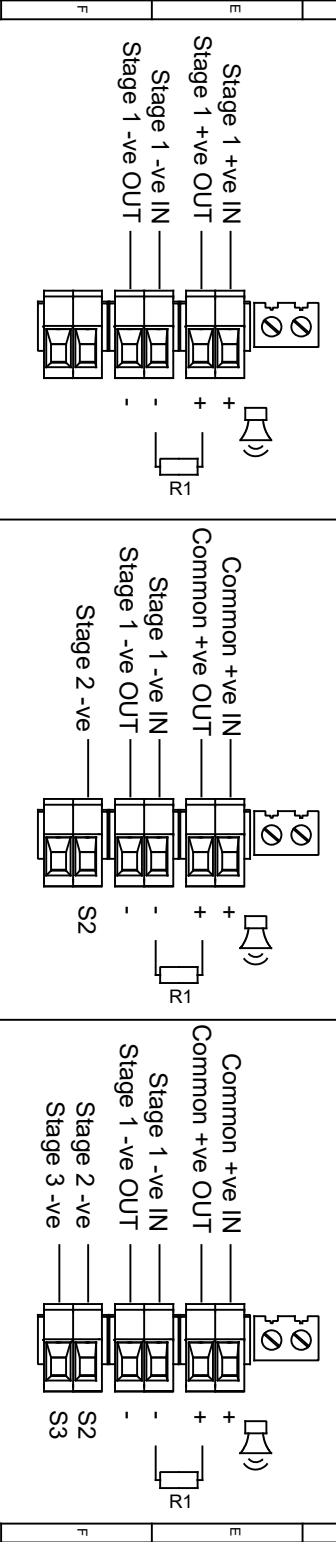
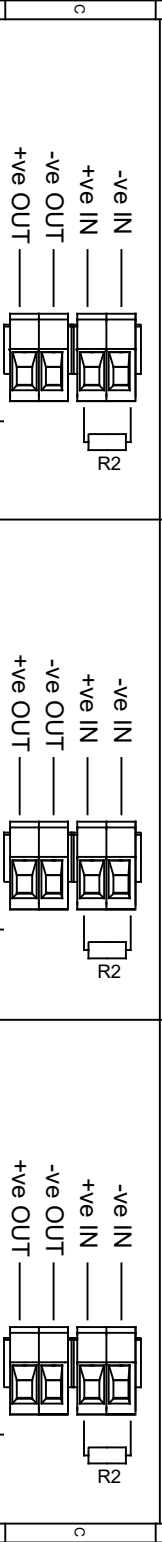
A

OPTIONAL LINE MONITORING RESISTOR, CUSTOMER SUPPLIER,
 RECOMMENDED MINIMUM VALUES: 10K OHM, 0.5W MAX
 25V MAX SYSTEM = 470Ω MIN, 2W MIN OR 2.4KΩ MIN, 0.5W MIN

ISSUE MOD NO REASON INITIAL DATE
 A INTRODUCTION
 RSK - 11/09/2021

Independent Sounder & Beacon Activation (Remove Link Wires)

Single Stage Configuration	Two Stage Configuration	Three/Four Stage Configuration
Line Monitoring	Common Positive	Common Positive
Stage 1: Apply Power to Stage 1 +ve & Stage 1 -ve	Stage 1: Apply Power to Stage 1 -ve & Common +ve Stage 2: Apply Power to Stage 1 -ve, Stage 2 -ve & Common +ve	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>DRAWING TO BE RELEASED TO ISO 10111:1983 GEOMETRIC TOLERANCES TO ISO 1101:1983 ANGLE DIMENSIONAL TOLS</p>	<p>DRAWN R.S. RAIT 16/03/2021</p>	<p>DATE 16/03/2021</p>	<p>SURFACE FINISH WEIGHT (KG)</p>	<p>THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER THEREIN IS UNCLASSIFIED IN COMPLIANCE WITH THE NATIONAL SECURITY INFORMATION DECLASSIFICATION SYSTEMS (NSD) UNDER THE HOLDING OF AN EXTRA MANUFACTURING OR TENDERING PURPOSES WITHOUT THEIR WRITTEN CONSENT. BIRCHFIELD SYSTEMS LTD AS PER LATEST DATE OF ISSUE SHOWN ABOVE</p>	<p>ALL DIMENSIONS IN MM IF IN QUOTE ASK DO NOT SCALE</p>	<p>A3</p>
<p>STANDARDS ALERT/LARM RANGE</p>	<p>CHECKED B.ISARD 16/03/2021</p>	<p>DATE 16/03/2021</p>	<p>MATERIAL</p>	<p>ALTERNATIVE MATERIAL</p>	<p>TITLE AL100X AL105 & DL105 DC COMBINED SOUNDER & XENON WIRING DIAGRAMS</p>	<p>A3</p>
<p>APPROVED R.N.POTTS</p>	<p>DATE 16/03/2021</p>	<p>DATE 16/03/2021</p>	<p>SCALE 2 OF 2</p>	<p>SHEET DRAWING NUMBER D218-06-201</p>	<p>SCALE 2 OF 2</p>	<p>D218-06-201</p>

ISSUE	MOD No	REASON	INITIAL	DATE
A		INTRODUCTION	RSK	16/04/2021



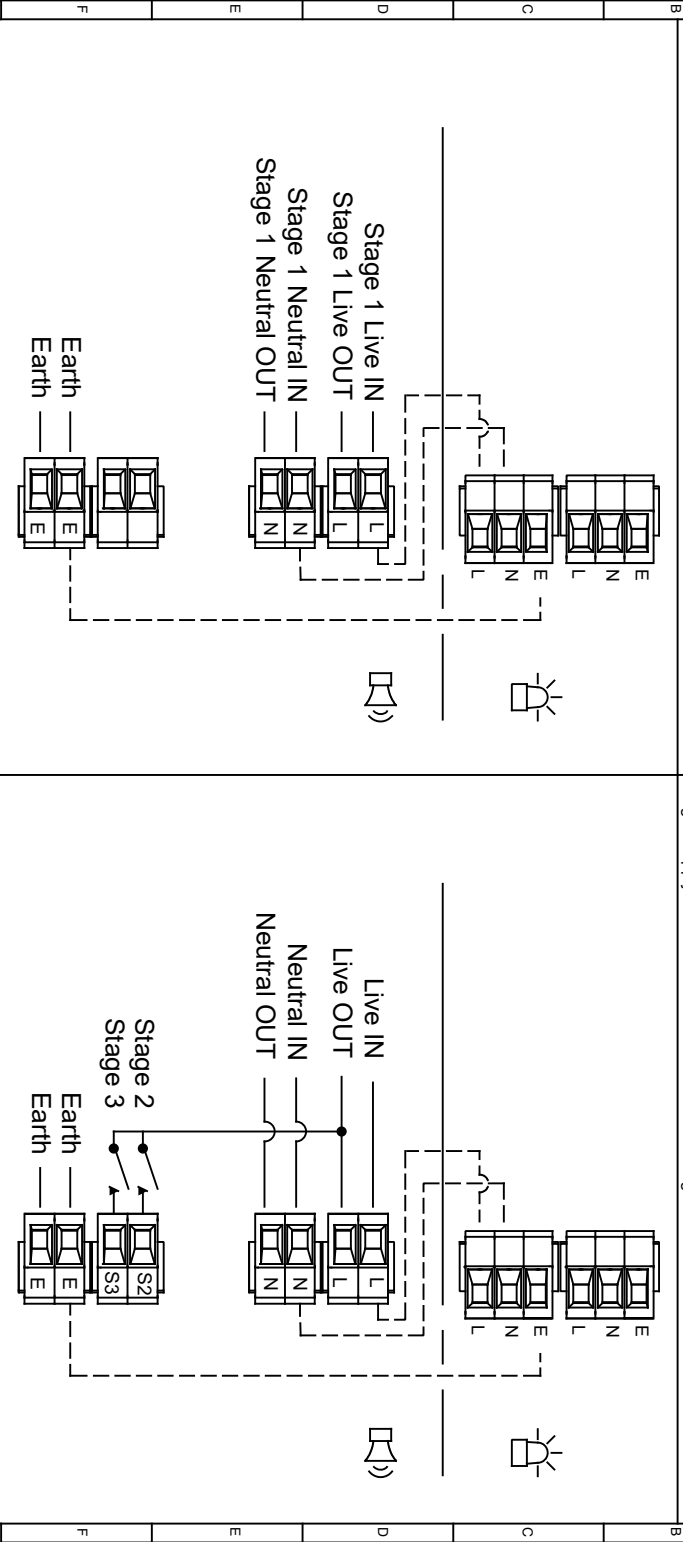
Linked Sounder & Beacon Activation (Default)

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 ENRAGED TO ISO 10111:1983 GEOMETRIC TOLERANCES TO ISO 1101:1983 ANGULAR DIMENSIONAL TOLS	DRAWN	DATE	SURFACE FINISH	WEIGHT (KG)	THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER THEREIN IS UNMUTATED INCORPORATING THE SYSTEMS AND METHODS OF THE WHOLE OR ANY PART THEREOF MANUFACTURING OR TENDERING PURPOSES WITHOUT THEIR WRITTEN CONSENT. BIRCHWOOD ELECTRICAL LTD. AS PER LATEST DATE OF ISSUE SHOWN ABOVE	ALL DIMENSIONS IN MM IF IN QUOTE 'RSK' DON'T SCALE	 	A3
	R.S. RAIT	16/03/2021						
STANDARDS	CHECKED	DATE	MATERIAL		TITLE: AL100X, AL105 & DL105 COMBINED SOUNDER & XENON WIRING DIAGRAMS	SCALE	SHEET	DRAWING NUMBER
ALERT/ALARM RANGE	B.S. ISARD	16/03/2021	ALTERNATIVE MATERIAL					
	APPROVED	DATE						
	R.N. POTTS	16/03/2021						

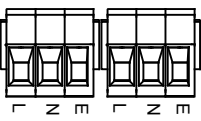
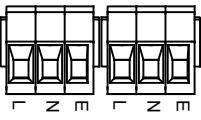
SWITCHES FOR STAGE OPERATION
CUSTOMER SUPPLIED

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



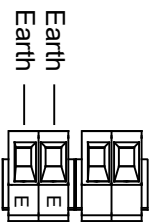
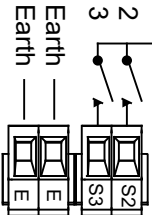
Stage 1 Neutral IN
Stage 1 Neutral OUT



Neutral IN
Neutral OUT



Stage 2
Stage 3



DRAWING TO BE ISSUED IN ACCORDANCE WITH THE ENGINTEERING STANDARDS TO ISO 10111:1983 AND USCAR 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		

THIS DRAWING AND ANY INFORMATION OR DESCRIPTION MATTER THEREIN IS THE SOLE PROPERTY OF KENON SYSTEMS LTD. WHETHER THE WHOLE OR ANY PART THEREOF IS REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN CONSENT OF KENON SYSTEMS LTD. AS PER LATEST DATE OF ISSUE SHOWN ABOVE

ALL DIMENSIONS IN MM IF IN QUOTE 'ASK' - DO NOT SCALE		A3
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STANDARDS TITLE
ALERT/LARM RANGE AL 100X AL 105 & DL 105 COMBINED

SCALE SHEET
NTS 2 OF 2

DRAWING NUMBER
D218-06-205

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		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 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	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

