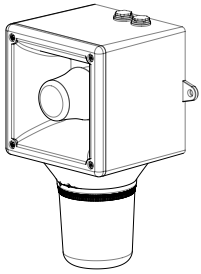
Installation/Anschluss
Installation/Raccordement
Installation/Connection

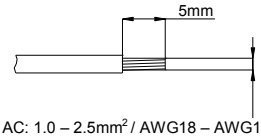
AB112L

- Sounder unit: Alarm horn sounder: 64 tones, 4 stages
- L.E.D Array Beacon
- 16 x High powered L.E.D's
- IP Rating: IP65
- 9 Selectable user modes
- 2 Stages on DC units only
- Temp: -40° to + 66°
- Unit weight: 2.1kg DC 2.4kg AC
- CE & UKCA
- 2-off M20 x 1.5 thread entries.

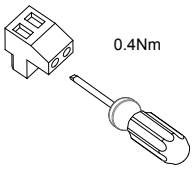


Unit Type Code	Nominal Voltage	Voltage Range	Nominal Current P1	Nominal Current P2	Nominal Beacon Current	Nominal SPL P1 / P2	Max SPL P1 / P2	Average SPL P1 / P2
AB112L.024.2	12VDC	10-50Vdc	280mA	376mA	250mA	113.7dB(A) / 116.6dB(A) Tone 44 @ 1m	115dB(A) / 118.4dB(A) Tone 4 @ 1m	110.8dB(A) / 114.8dB(A) All Tones @ 1m
AB112L.024.2	24VDC		225mA	430mA	250mA			
AB112L.024.2	48VDC		122mA	223mA	250mA			
AB112L.230.7	115VAC	90-253Vac 50/60Hz /120-253Vdc	100mA	173mA	90mA			
AB112L.230.7	230VAC		65mA	105mA	50mA			

Supply voltage variation of +/-10% outside the voltage range is permissible
Nominal current at nominal voltage

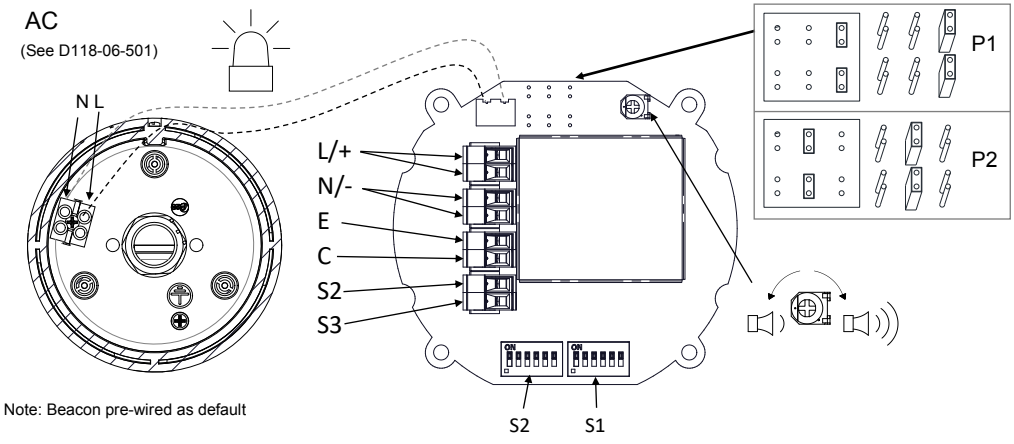


AC: 1.0 – 2.5mm^2 / AWG18 – AWG12
DC: 0.2 – 2.5mm^2 / AWG24 – AWG12

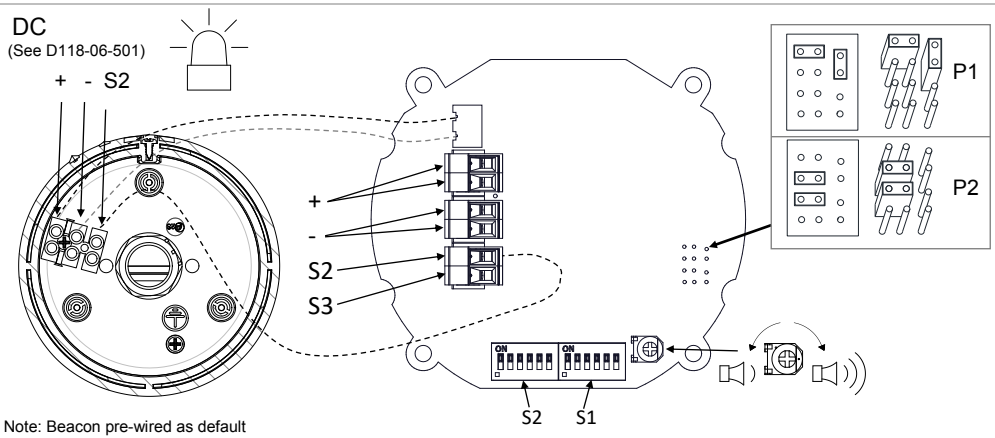


Attention: Installation must be carried out by an electrician in compliance with the latest codes and regulations.
Attention: L'installation doit être effectuée par un électricien conformément aux derniers codes et réglementations.
Achtung: Die Installation muss von einem Elektriker gemäß den neuesten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

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.

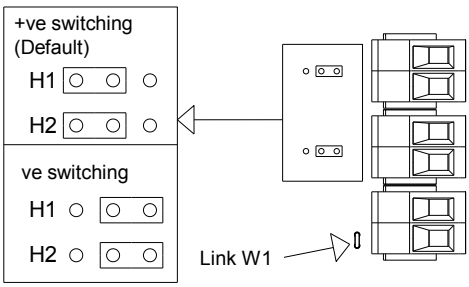


Note: Beacon pre-wired as default



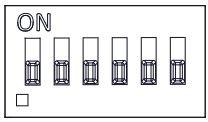
Note: Beacon pre-wired as default

(DC Only, see D118-06-501)

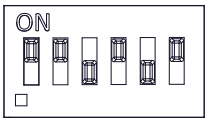


(AC & DC, See D221-95-001)

Default = S2 - Tone 1



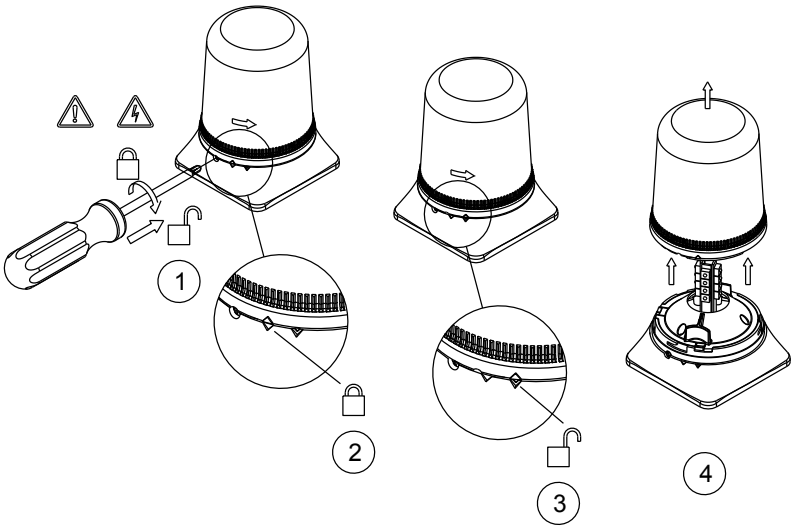
Default = S1 - Tone 44



(ON = 1, OFF = 0)

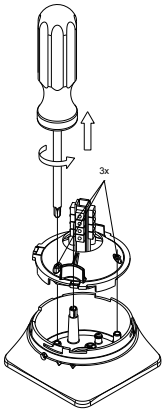
The Beacon lens cover is field replaceable.

To change the lens cover, rotate 1-off M4 pozi head screw clockwise, remove the existing lens by rotat ing the lens to align with the unlock markings as shown below. Replace the lens cover and rotate to the locked marking position. Rotate the 1-off M4 pozi head fastener anti-clcokwise to secure the lens.



Attention: Lens on unit will be hot allow to cool prior to removal.

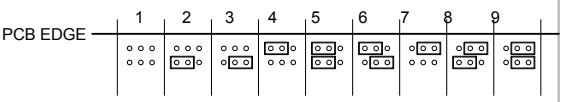
To access the beacon mode settings, remove the beacon lens following the steps above then remove the 3-off pozi head screws. Reinstall the beacon in the same orientation.



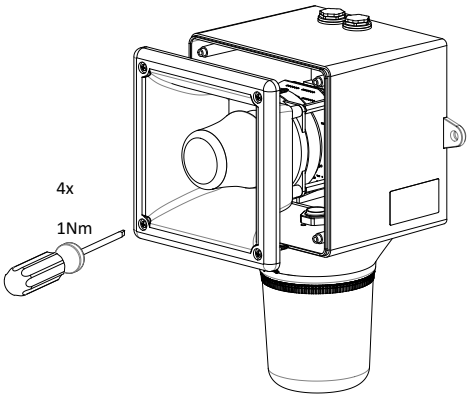
AB112L

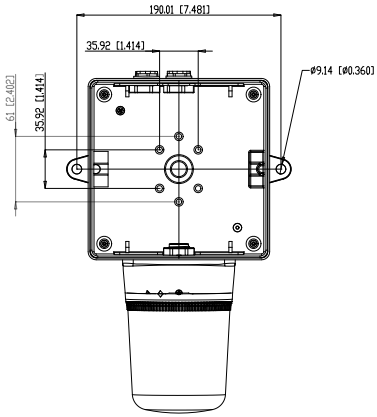
L.E.D Array Option Setting Table

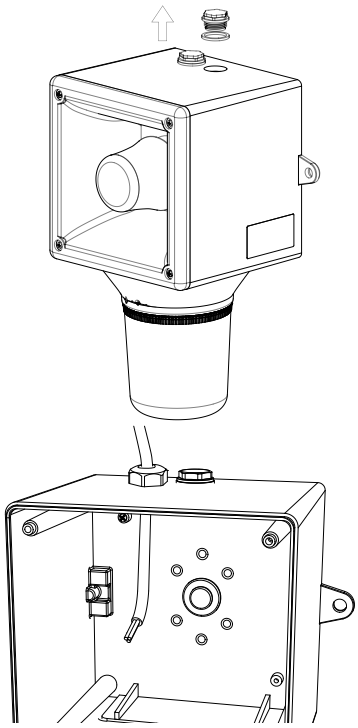
Default setting is 6



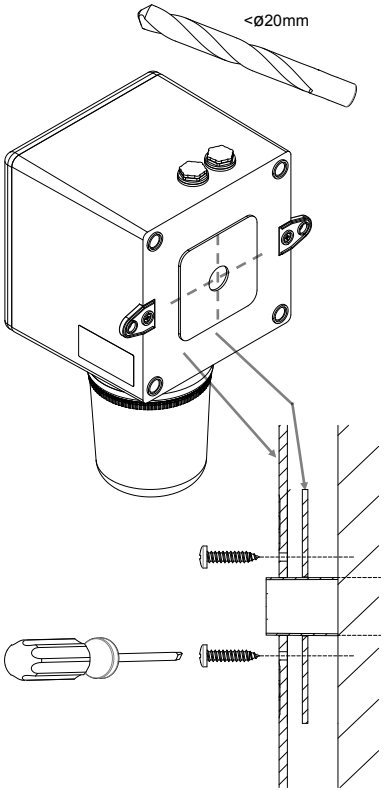
Stage 1	Frequency Description: Stage 1 (Ac & DC units)	Frequency Description: Stage 2 (DC unit only)
1	All L.E.D's on	Alternate Side Flash 2Hz
2	Rotating: Slow 1	Alternate Side Flash 2Hz
3	Single Strike Flash 2Hz	Rotating: Fast 2
4	Rotating: Fast 1	Single Strike Flash 2Hz
5	Rotating: Slow 2	Double Strike Flash 1Hz
6	Double Strike Flash 2Hz	Rotating: Fast 2
7	Rotating: Fast 2	Double Strike Flash 2Hz
8	Double Strike Flash 1Hz	Alternate Side Flash 2Hz
9	Alternate Side Flash 2Hz	Rotating: Fast 2

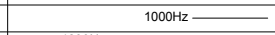
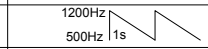
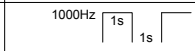
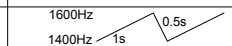
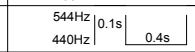
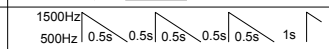
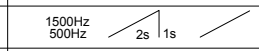
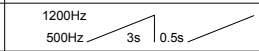
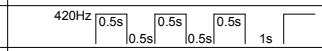
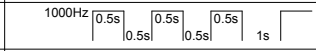
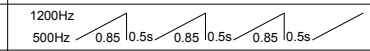
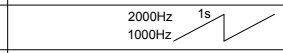
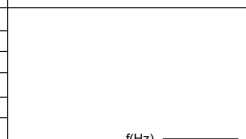
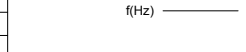
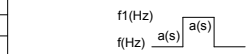
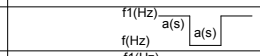
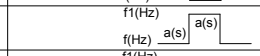
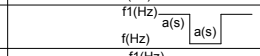
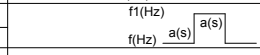
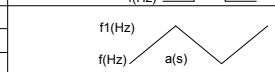
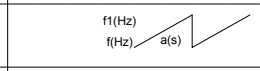
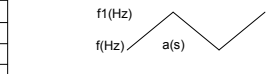
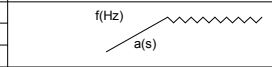
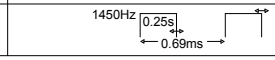






If a high IP (Ingress Protection) rating is required then a suitable sealing washer must be fitted under the cable glands or blanking plugs.



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

ISSUE	MOD No.	REASON - INITIAL - DATE
A		INTRODUCTION JS- 28/06/2021

__ __ WIRING LINKING BEACON & SOUNDER FACTORY FITTED

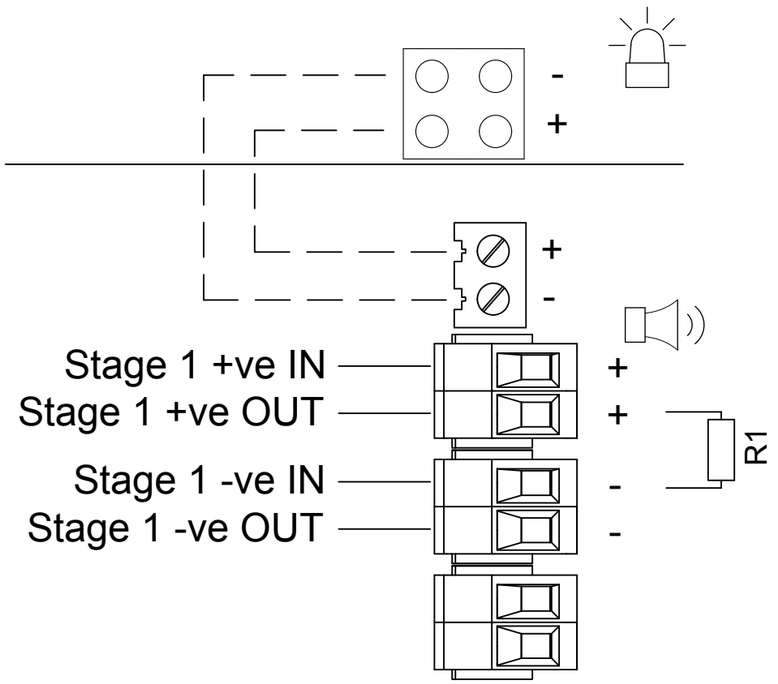
R1 OPTIONAL LINE MONITORING RESISTOR, CUSTOMER SUPPLIED, RECOMMENDED MINIMUM VALUES:
14V MAX SYSTEM = 120Ω MIN, 2W MIN OR 1KΩ MIN, 0.5W MIN
28V MAX SYSTEM = 470Ω MIN, 2W MIN OR 2.4KΩ MIN, 0.5W MIN

Linked Sounder & Beacon Activation (Default)

Single Stage Configuration — Config.: 1a

Line Monitoring
Set to positive switching (default)

Stage 1: Apply Power to Stage 1 +ve & Stage 1 -ve

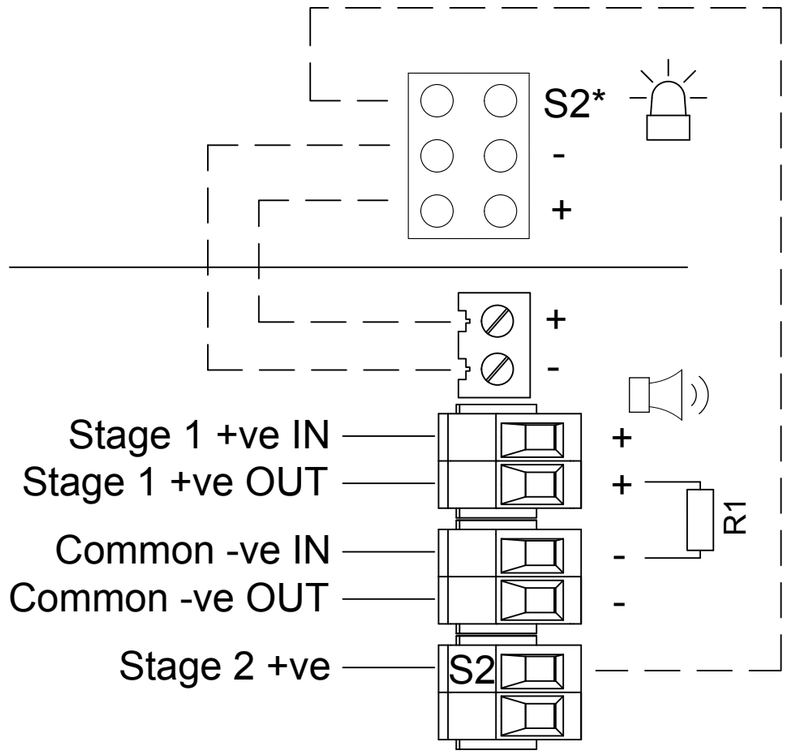


Two Stage Configuration — Config.: 1b

Common Negative
Set to positive switching (default)

Stage 1: Apply Power to Stage 1 +ve & Common -ve
Stage 2: Apply Power to Stage 2 +ve & Common -ve

*Stage 2 only available for AB112S, AB112L or AB121L beacons



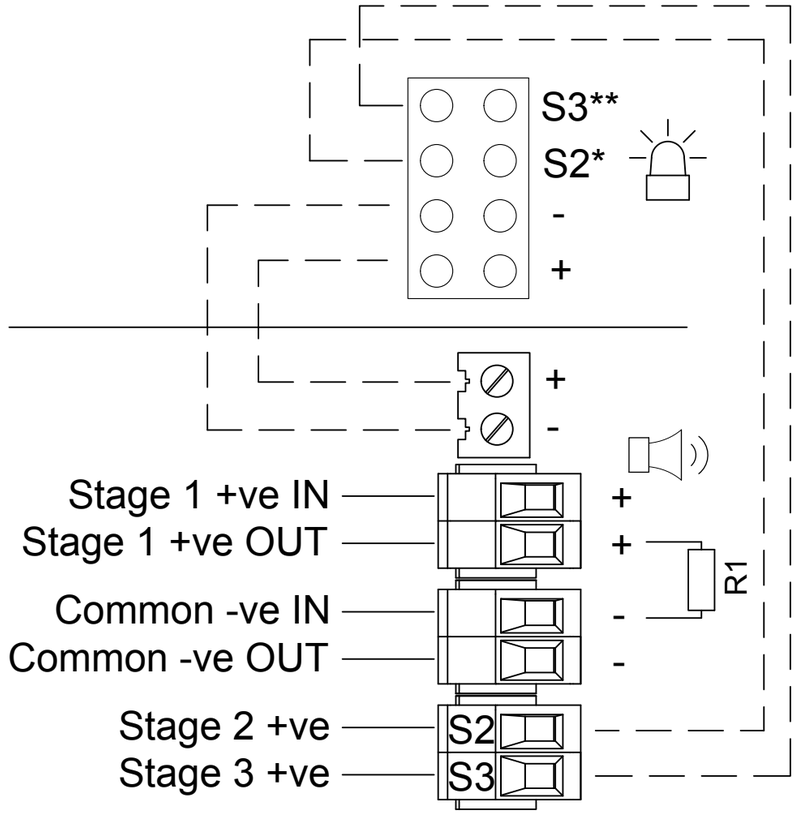
Three/Four Stage Configuration — Config.: 1c

Common Negative
Set to positive switching (default)

Stage 1: Apply Power to Stage 1 +ve & Common -ve
Stage 2: Apply Power to Stage 2 +ve & Common -ve
Stage 3: Apply Power to Stage 3 +ve & Common -ve
Stage 4: Apply Power to Stage 2 +ve, Stage 3 +ve & Common -ve

*Stage 2 only available for AB112S, AB112L or AB121L beacons

**Stage 3 only available for AB121L beacon



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

STANDARDS
SPECTRALARM RANGE

DRAWN	J.SPILLER	DATE 28/06/2021
CHECKED	B.ISARD	DATE 28/06/2021
APPROVED	R.N.POTTS	DATE 28/06/2021

SURFACE FINISH | WEIGHT (Kg)
MATERIAL
ALTERNATIVE MATERIAL

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

A3

TITLE AB112/AB121 SOUNDER & BEACON WIRING DIAGRAMS

SCALE	SHEET	DRAWING NUMBER
NTS	1 OF 8	D118-06-501

ISSUE	MOD No.	REASON - INITIAL - DATE
A		INTRODUCTION JS- 28/06/2021

WIRING LINKING BEACON & SOUNDER
FACTORY FITTED

R1 OPTIONAL LINE MONITORING RESISTOR, CUSTOMER SUPPLIED,
RECOMMENDED MINIMUM VALUES:
14V MAX SYSTEM = 120Ω MIN, 2W MIN OR 1KΩ MIN, 0.5W MIN
28V MAX SYSTEM = 470Ω MIN, 2W MIN OR 2.4KΩ MIN, 0.5W MIN

SWITCHES FOR STAGE OPERATION
CUSTOMER SUPPLIED

Linked Sounder & Beacon Activation (Default)

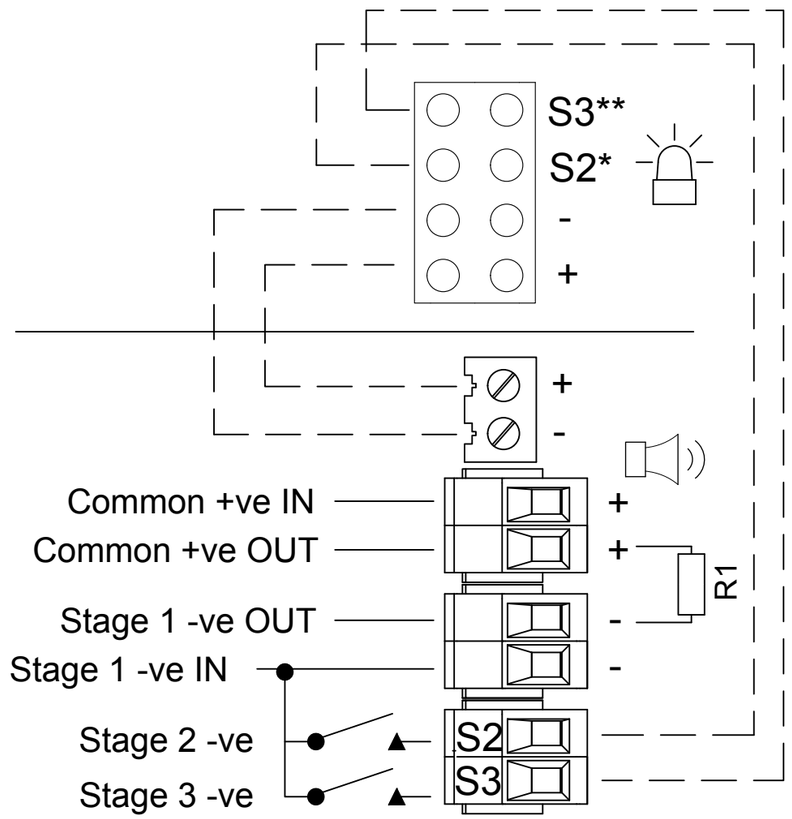
Three/Four Stages. Voltage Free 2nd, 3rd & 4th Stage Activation Configuration — Config.: 2

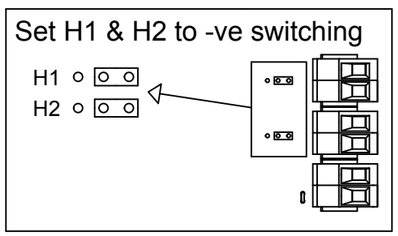
Common Positive
Customer Set H1 & H2 to Negative Switching (See Below)

Stage 1: Apply Power to Common +ve & Stage 1 -ve
Stage 2: Apply Power to Common +ve & Stage 1 -ve & connect Stage 2 -ve to Stage 1 -ve
Stage 3: Apply Power to Common +ve & Stage 1 -ve & connect Stage 3 -ve to Stage 1 -ve
Stage 4: Apply Power to Common +ve & Stage 1 -ve
& connect Stage 2 -ve & Stage 3 -ve to Stage 1 -ve

*Stage 2 only available for AB112S, AB112L or AB121L beacons

**Stage 3 only available for AB121L beacon



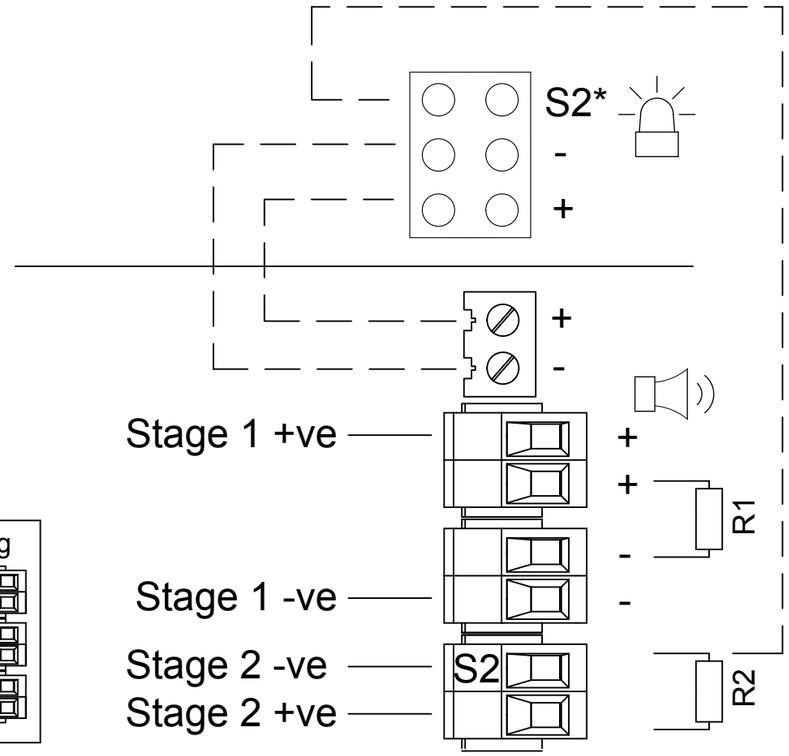


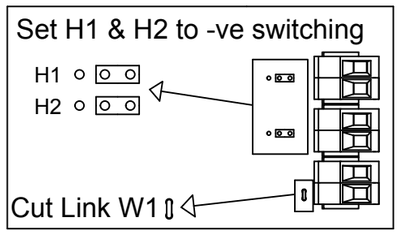
Two Stage Configuration — Config.: 3

Independent Stage Input
Reverse Polarity Stage Monitoring

Stage 1: Apply Power to Stage 1 +ve & Stage 1 -ve
Stage 2: Apply Power to Stage 1 +ve & Stage 1 -ve & connect Stage 2 -ve to Stage 1 -ve

*Stage 2 only available for AB112S, AB112L or AB121L beacons





DRAWING TO BS8888:2000 GEOMETRIC TOLERANCES TO ISO1101:1983 LINEAR DIMENSIONAL TOLS ANGULAR DIMENSIONAL TOLS	DRAWN J.SPILLER DATE 28/06/2021	SURFACE FINISH / WEIGHT (Kg)	ALL DIMENSIONS IN MM IF IN DOUBT, ASK - DO NOT SCALE
STANDARDS SPECTRALARM RANGE	CHECKED B.ISARD DATE 28/06/2021	MATERIAL	TITLE AB112/AB121 SOUNDER & BEACON WIRING DIAGRAMS
	APPROVED R.N.POTTS DATE 28/06/2021	ALTERNATIVE MATERIAL	SCALE NTS / SHEET 2 OF 8 / DRAWING NUMBER D118-06-501

A3

ISSUE	MOD No.	REASON - INITIAL - DATE
A		INTRODUCTION JS- 28/06/2021

WIRING LINKING BEACON & SOUNDER FACTORY FITTED

OPTIONAL LINE MONITORING RESISTOR, CUSTOMER SUPPLIED, RECOMMENDED MINIMUM VALUES:
14V MAX SYSTEM = 120Ω MIN, 2W MIN OR 1KΩ MIN, 0.5W MIN
28V MAX SYSTEM = 470Ω MIN, 2W MIN OR 2.4KΩ MIN, 0.5W MIN

SWITCHES FOR STAGE OPERATION CUSTOMER SUPPLIED

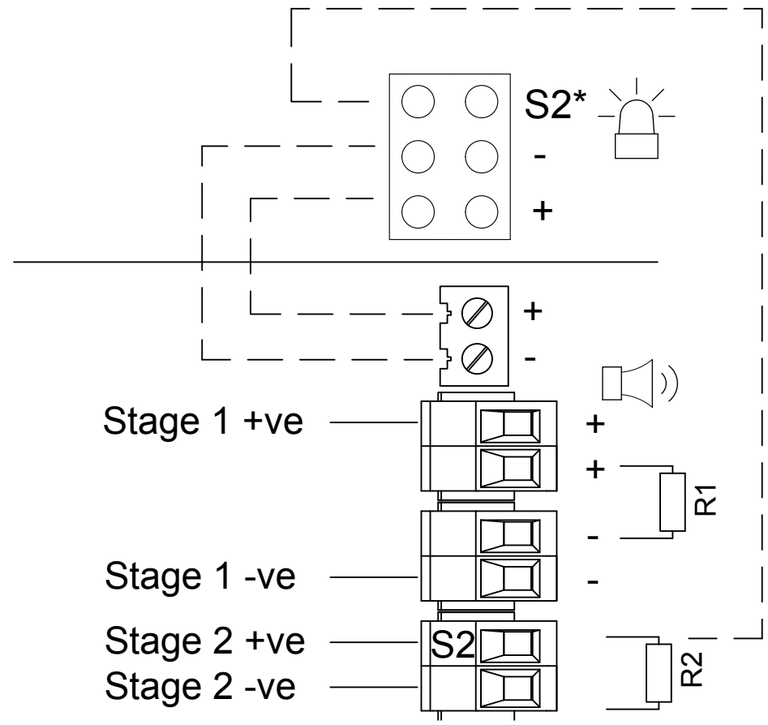
Linked Sounder & Beacon Activation (Default)

Two Stage Configuration — Config.: 4

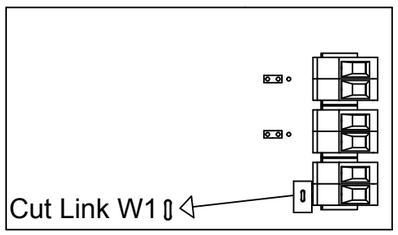
independent Stage Input
Line Stage Monitoring (Use suitable monitoring relays/modules)
Not to be used for reverse polarity monitoring

Stage 1: Apply Power to Stage 1 +ve & Stage 1 -ve
Stage 1: Apply Power to Stage 2 +ve & Stage 2 -ve

*Stage 2 only available for AB112S, AB112L or AB121L beacons



CUSTOM CONFIGURATION CONTACT E2S WHEN ORDERING



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

STANDARDS
SPECTRALARM RANGE

DRAWN	J.SPILLER	DATE 28/06/2021
CHECKED	B.ISARD	DATE 28/06/2021
APPROVED	R.N.POTTS	DATE 28/06/2021

SURFACE FINISH | WEIGHT (Kg)
MATERIAL
ALTERNATIVE MATERIAL

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

A3

TITLE AB112/AB121 SOUNDER & BEACON WIRING DIAGRAMS

SCALE	SHEET	DRAWING NUMBER
NTS	3 OF 8	D118-06-501

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OPTIONAL LINE MONITORING RESISTOR, CUSTOMER SUPPLIED,
RECOMMENDED MINIMUM VALUES:
14V MAX SYSTEM = 120Ω MIN, 2W MIN OR 1KΩ MIN, 0.5W MIN
28V MAX SYSTEM = 470Ω MIN, 2W MIN OR 2.4KΩ MIN, 0.5W MIN

R1

Independent Sounder & Beacon Activation (Remove Link Wires)

Single Stage Configuration — Config.: 5a

Line Monitoring
Set to positive switching (default)

Stage 1: Apply Power to Stage 1 +ve & Stage 1 -ve

-ve IN
+ve IN

R2

Stage 1 +ve IN
Stage 1 +ve OUT
Stage 1 -ve IN
Stage 1 -ve OUT

\+
\+
\-
\-

R1

Two Stage Configuration — Config.: 5b

Common Negative
Set to positive switching (default)

Stage 1: Apply Power to Stage 1 +ve & Common -ve
Stage 2: Apply Power to Stage 2 +ve & Common -ve

*Stage 2 only available for AB112S, AB112L or AB121L beacons

Stage 2* +ve
-ve IN
+ve IN

R2

Stage 1 +ve IN
Stage 1 +ve OUT
Common -ve IN
Common -ve OUT
Stage 2 +ve

\+
\+
\-
\-
S2

R1

Three/Four Stage Configuration — Config.: 5c

Common Negative
Set to positive switching (default)

Stage 1: Apply Power to Stage 1 +ve & Common -ve
Stage 2: Apply Power to Stage 2 +ve & Common -ve
Stage 3: Apply Power to Stage 3 +ve & Common -ve
Stage 4: Apply Power to Stage 2 +ve, Stage 3 +ve & Common -ve

*Stage 2 only available for AB112S, AB112L or AB121L beacons
**Stage 3 only available for AB121L beacon

Stage 3** +ve
Stage 2* +ve
-ve IN
+ve IN

R2

Stage 1 +ve IN
Stage 1 +ve OUT
Common -ve IN
Common -ve OUT
Stage 2 +ve
Stage 3 +ve

\+
\+
\-
\-
S2
S3

R1

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

STANDARDS
SPECTRALARM RANGE

DRAWN	J.SPILLER	DATE 28/06/2021
CHECKED	B.ISARD	DATE 28/06/2021
APPROVED	R.N.POTTS	DATE 28/06/2021

SURFACE FINISH | WEIGHT (Kg)
MATERIAL
ALTERNATIVE MATERIAL

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

A3

TITLE AB112/AB121 SOUNDER & BEACON WIRING DIAGRAMS

SCALE	SHEET	DRAWING NUMBER
NTS	4 OF 8	D118-06-501

ISSUE	MOD No.	REASON - INITIAL - DATE
A		INTRODUCTION JS- 28/06/2021

OPTIONAL LINE MONITORING RESISTOR, CUSTOMER SUPPLIED,
RECOMMENDED MINIMUM VALUES:
14V MAX SYSTEM = 120Ω MIN, 2W MIN OR 1KΩ MIN, 0.5W MIN
28V MAX SYSTEM = 470Ω MIN, 2W MIN OR 2.4KΩ MIN, 0.5W MIN

SWITCHES FOR STAGE OPERATION
CUSTOMER SUPPLIED

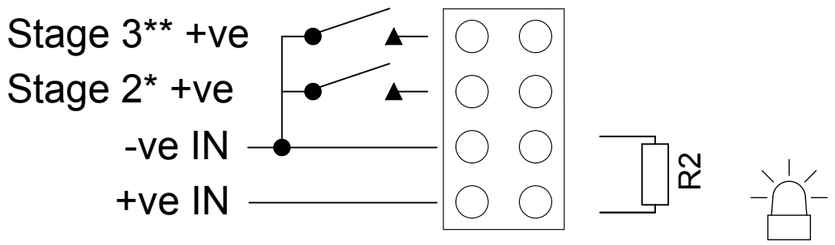
Independent Sounder & Beacon Activation (Remove Link Wire)

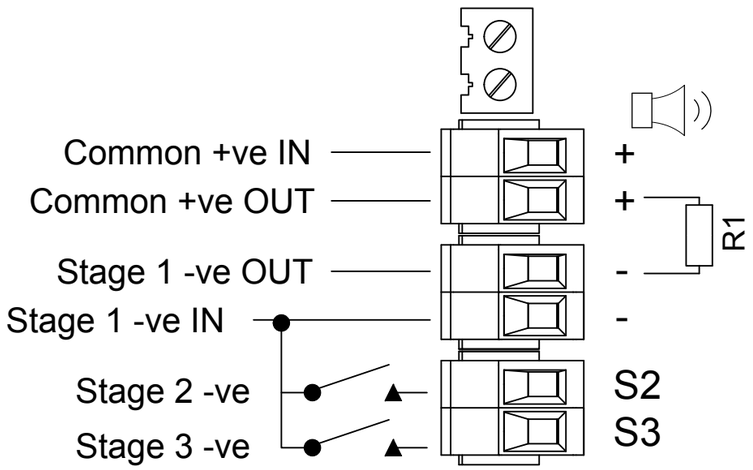
Three/Four Stages. Voltage Free 2nd, 3rd & 4th Stage Activation Configuration — Config.: 6

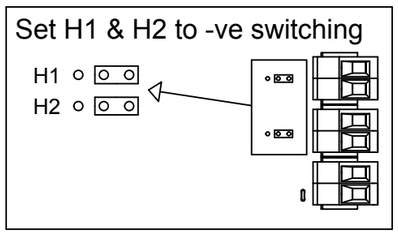
Common Positive
Customer Set H1 & H2 to Negative Switching (See Below)

Stage 1: Apply Power to Common +ve & Stage 1 -ve
Stage 2: Apply Power to Common +ve & Stage 1 -ve & connect Stage 2 -ve to Stage 1 -ve
Stage 3: Apply Power to Common +ve & Stage 1 -ve & connect Stage 3 -ve to Stage 1 -ve
Stage 4: Apply Power to Common +ve & Stage 1 -ve
& connect Stage 2 -ve & Stage 3 -ve to Stage 1 -ve

*Stage 2 only available for AB112S, AB112L or AB121L beacons
**Stage 3 only available for AB121L beacon





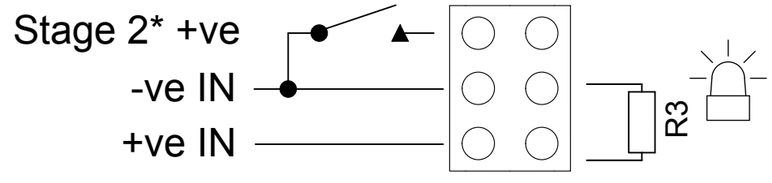


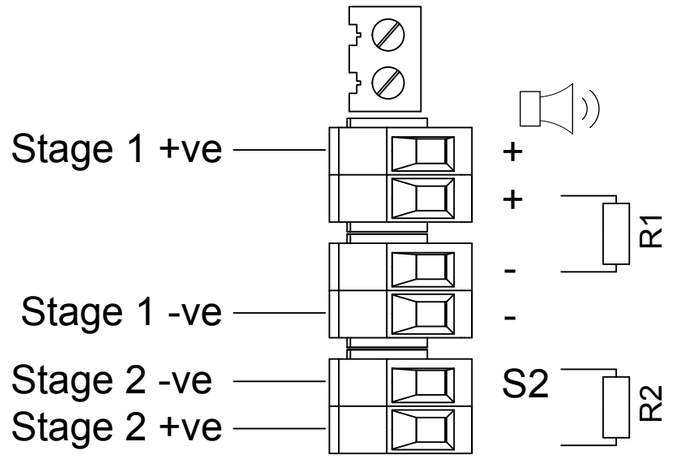
Two Stage Configuration — Config.: 7

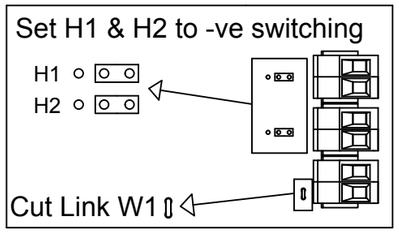
Independent Stage Input
Reverse Polarity Stage Monitoring

Stage 1: Apply Power to Stage 1 +ve & Stage 1 -ve
Stage 2: Apply Power to Stage 1 +ve & Stage 1 -ve & connect Stage 2 -ve to Stage 1 -ve

*Stage 2 only available for AB112S, AB112L or AB121L beacons







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

STANDARDS
SPECTRALARM RANGE

DRAWN	J.SPILLER	DATE 28/06/2021
CHECKED	B.ISARD	DATE 28/06/2021
APPROVED	R.N.POTTS	DATE 28/06/2021

SURFACE FINISH | WEIGHT (Kg)
MATERIAL
ALTERNATIVE MATERIAL

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

A3

TITLE AB112/AB121 SOUNDER & BEACON WIRING DIAGRAMS

SCALE	SHEET	DRAWING NUMBER
NTS	5 OF 8	D118-06-501

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OPTIONAL LINE MONITORING RESISTOR, CUSTOMER SUPPLIED,
RECOMMENDED MINIMUM VALUES:
14V MAX SYSTEM = 120Ω MIN, 2W MIN OR 1KΩ MIN, 0.5W MIN
28V MAX SYSTEM = 470Ω MIN, 2W MIN OR 2.4KΩ MIN, 0.5W MIN

SWITCHES FOR STAGE OPERATION
CUSTOMER SUPPLIED

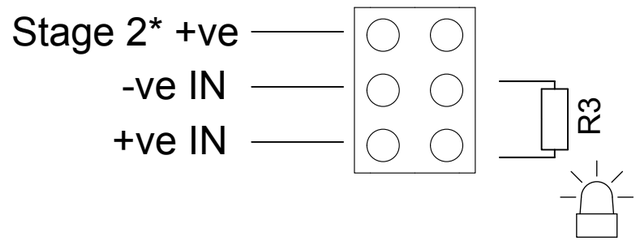
Independent Sounder & Beacon Activation (Remove Link Wires)

Two Stage Configuration — Config.: 8

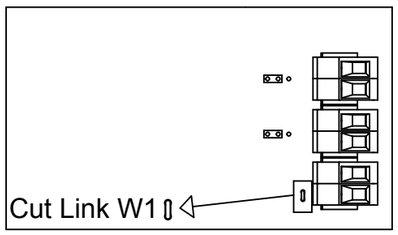
Independent Stage Input
Line Stage Monitoring (Use suitable monitoring relays/modules)
Not to be used for reverse polarity monitoring

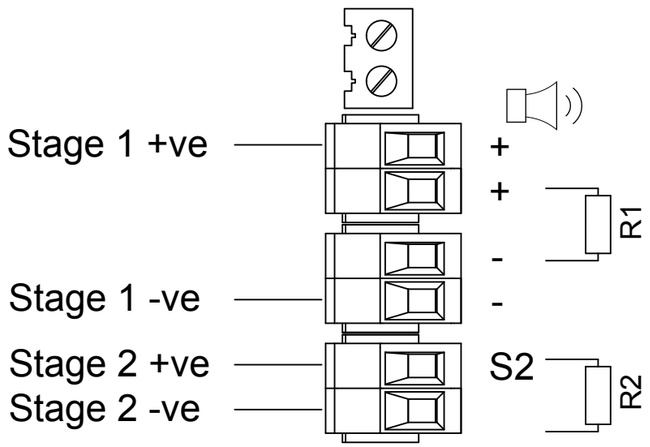
Stage 1: Apply Power to Stage 1 +ve & Stage 1 -ve
Stage 1: Apply Power to Stage 2 +ve & Stage 2 -ve

*Stage 2 only available for AB112S, AB112L or AB121L beacons



CUSTOM CONFIGURATION CONTACT E2S WHEN ORDERING





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

STANDARDS
SPECTRALARM RANGE

DRAWN J.SPILLER	DATE 28/06/2021	
CHECKED B.ISARD	DATE 28/06/2021	
APPROVED R.N.POTTS	DATE 28/06/2021	

SURFACE FINISH | WEIGHT (Kg)
MATERIAL
ALTERNATIVE MATERIAL

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

A3

TITLE AB112/AB121 SOUNDER & BEACON WIRING DIAGRAMS

SCALE	SHEET	DRAWING NUMBER
NTS	6 OF 8	D118-06-501

ISSUE	MOD No.	REASON - INITIAL - DATE
A		INTRODUCTION JS- 28/06/2021

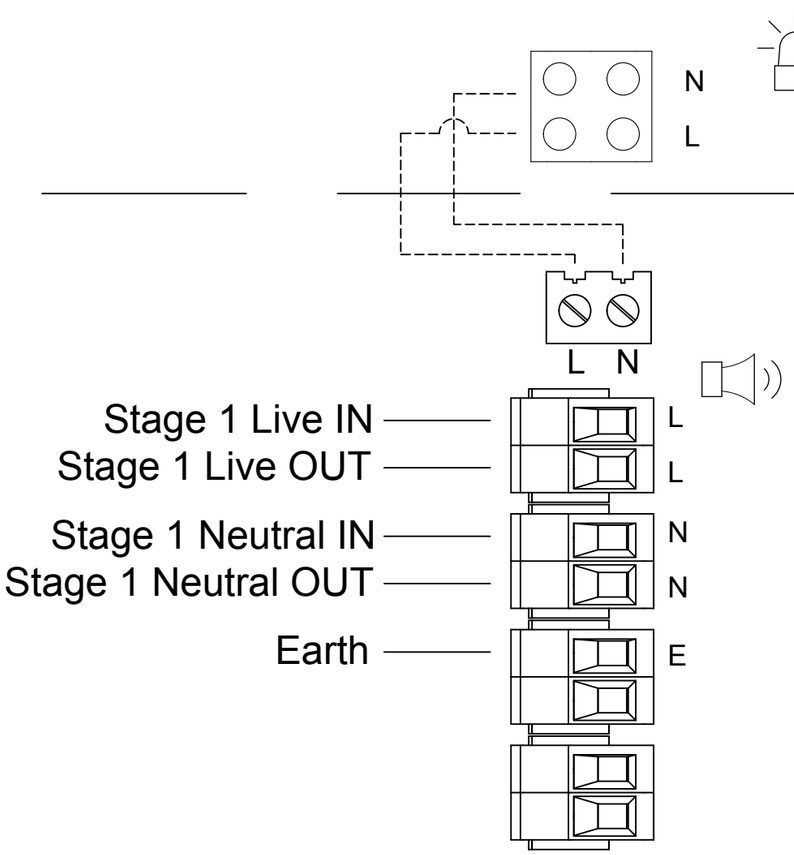
_____ WIRING LINKING BEACON & SOUNDER
FACTORY FITTED

SWITCHES FOR STAGE OPERATION
CUSTOMER SUPPLIED

Linked Sounder & Beacon Activation (Default)

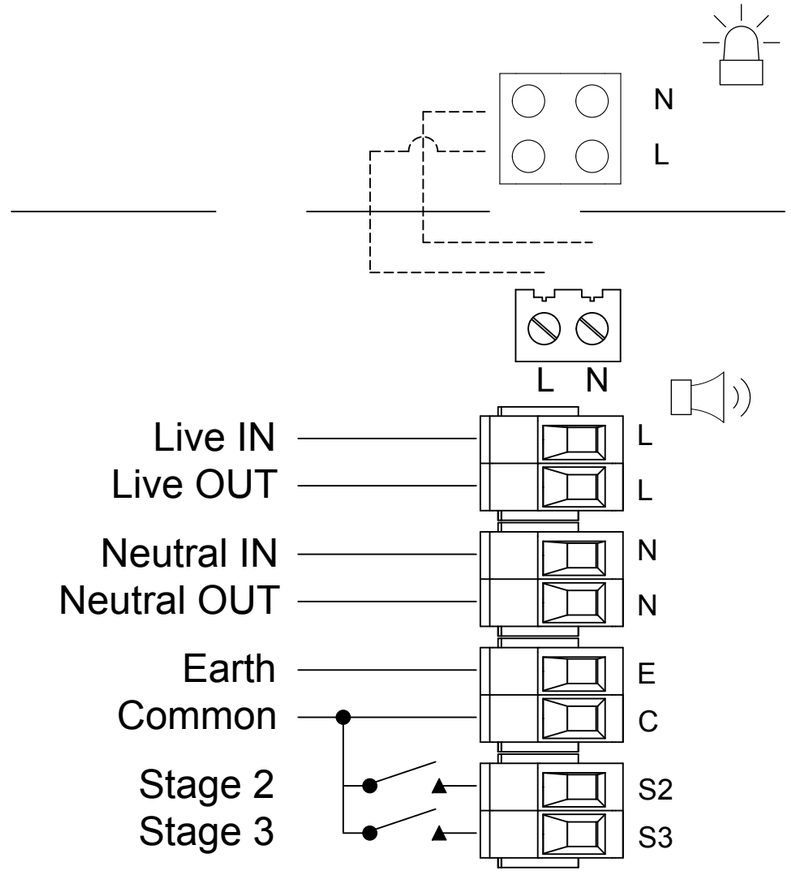
Single Stage Configuration — Config.: 9a

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



Three/Four Stage Configuration — Config.: 9b

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



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

STANDARDS
SPECTRALARM RANGE

DRAWN	J.SPILLER	DATE 28/06/2021
CHECKED	B.ISARD	DATE 28/06/2021
APPROVED	R.N.POTTS	DATE 28/06/2021

SURFACE FINISH | WEIGHT (Kg)
MATERIAL
ALTERNATIVE MATERIAL

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

A3

TITLE AB112/AB121 SOUNDER & BEACON WIRING DIAGRAMS

SCALE	SHEET	DRAWING NUMBER
NTS	7 OF 8	D118-06-501

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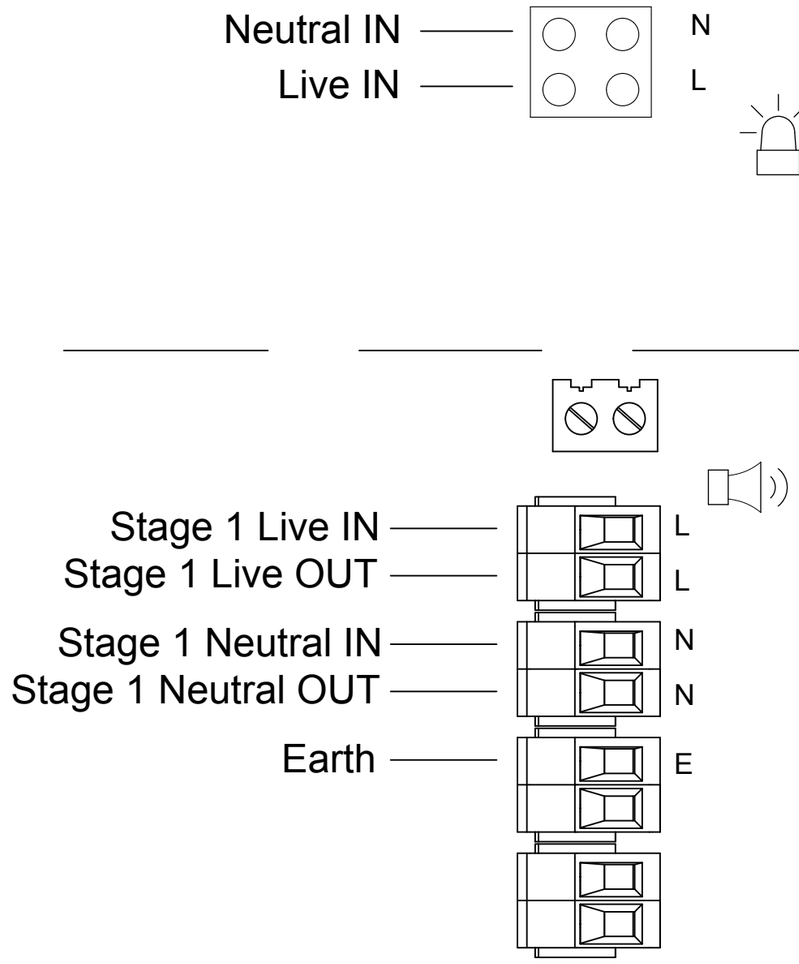
SWITCHES FOR STAGE OPERATION
CUSTOMER SUPPLIED

Independent Sounder & Beacon Activation (Remove Link Wires)

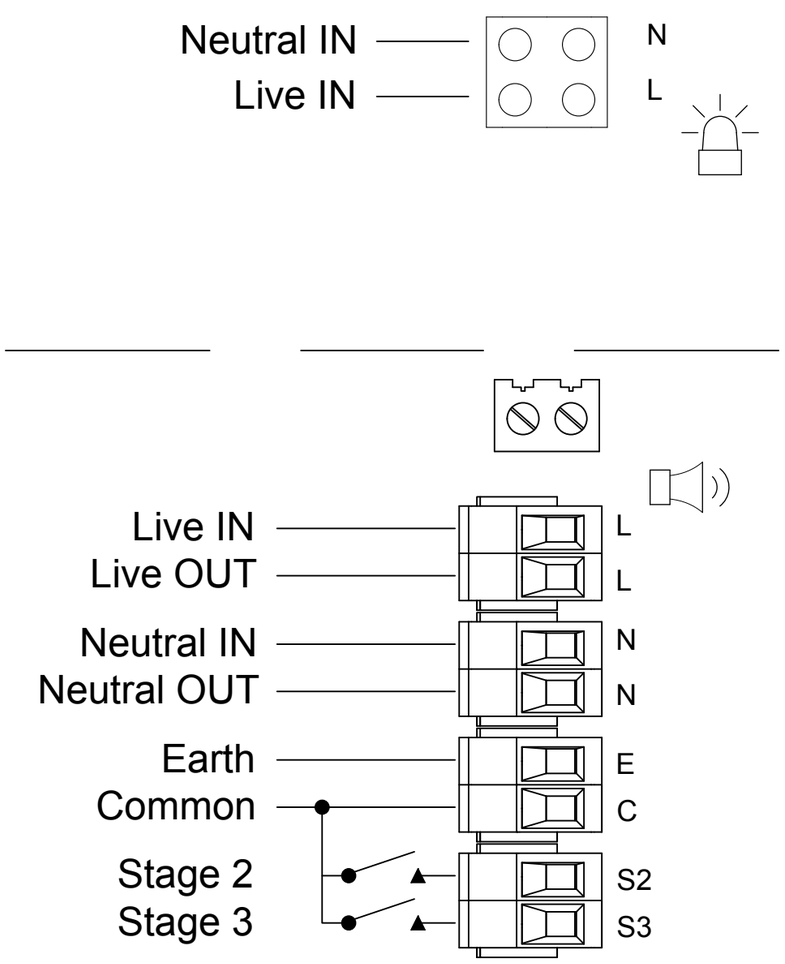
Single Stage Configuration — Config.: 10a

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



Three/Four Stage Configuration — Config.: 10b

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



DRAWING TO BS8888:2000 GEOMETRIC TOLERANCES TO ISO1101:1983 LINEAR DIMENSIONAL TOLS ANGULAR DIMENSIONAL TOLS	DRAWN J.SPILLER DATE 28/06/2021	SURFACE FINISH	WEIGHT (Kg)
	CHECKED B.ISARD DATE 28/06/2021	MATERIAL	
STANDARDS SPECTRALARM RANGE	APPROVED R.N.POTTS DATE 28/06/2021	ALTERNATIVE MATERIAL	

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

A3

TITLE AB112/AB121 SOUNDER & BEACON WIRING DIAGRAMS

SCALE	SHEET	DRAWING NUMBER
NTS	8 OF 8	D118-06-501