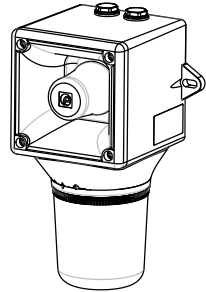


Installation/Anschluss
 Installation/Raccordement
 Installation/Connection

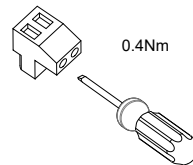
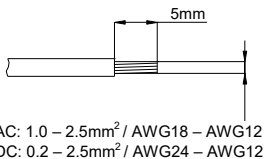
AB105L

- 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°C to + 66°C
- Unit weight: 1.15kg DC 1.40kg AC
- CE & UKCA
- 2-off M20 x 1.5 thread entries.



| Unit Type Code | Nominal Voltage | Voltage Range | Nominal Sounder Current | Nominal Beacon Current | Nominal SPL | Max SPL | Average SPL |
|----------------|-----------------|-------------------------|-------------------------|------------------------|----------------------------|------------------------------|--------------------------------|
| AB105L.024.2 | 12VDC | 10-50Vdc | 17mA | 250mA | 105.3dB(A) Tone 44 @ 1m | 110.9dB(A) Tone 4 @ 1m | 105.2dB(A) All tones @1m |
| AB105L.024.2 | 24VDC | | 33.5mA | 250mA | | | |
| AB105L.024.2 | 48VDC | | 113mA | 250mA | | | |
| AB105L.115.7 | 115VAC | 90-253Vac/dc 50/60Hz | 25mA | 90mA | | | |
| AB105L.230.7 | 230VAC | | 17mA | 50mA | | | |

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



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.

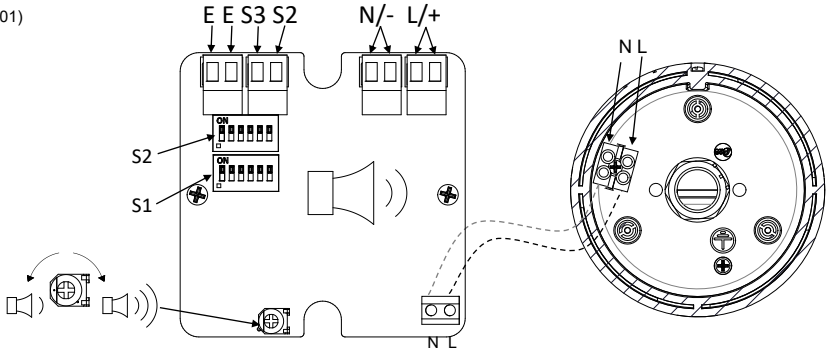
Achtung: Vor Installation oder Wartung von der Stromquelle trennen, um einen Stromschlag zu vermeiden.



INSTRUCTION & SERVICE MANUAL
AB105L

AC

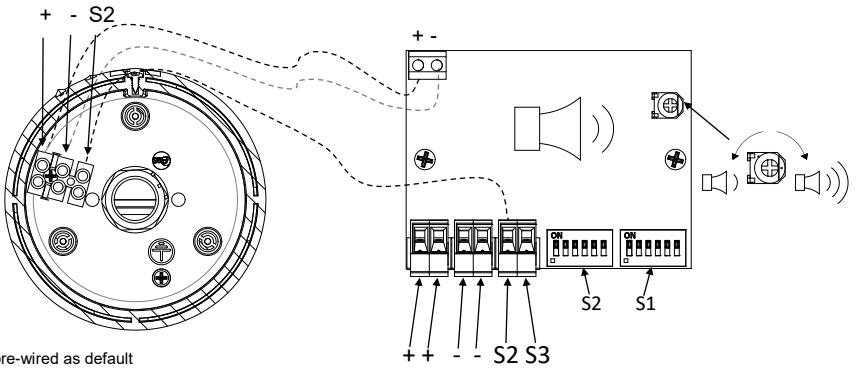
(See D118-06-001)



Note: Beacon pre-wired as default

DC

(See D118-06-001)

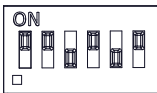


Note: Beacon pre-wired as default

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

Default = S2 - Tone 1

Default = S1 - Tone 44



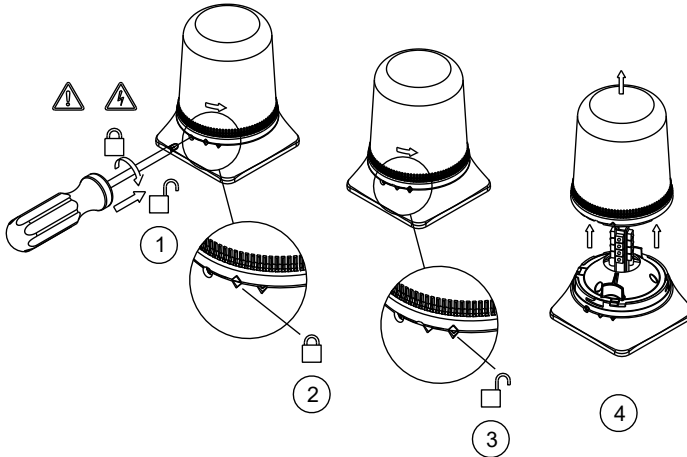
(ON = 1, OFF = 0)

INSTRUCTION & SERVICE MANUAL

AB105L

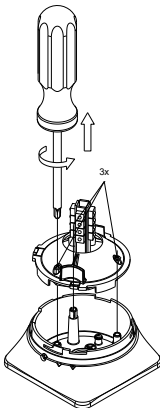
The Beacon lens cover is field replaceable.

To change the lens cover, rotate 1-off M4 pozi head screw clockwise, remove the existing lens by rotating 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-clockwise 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.



AB105L

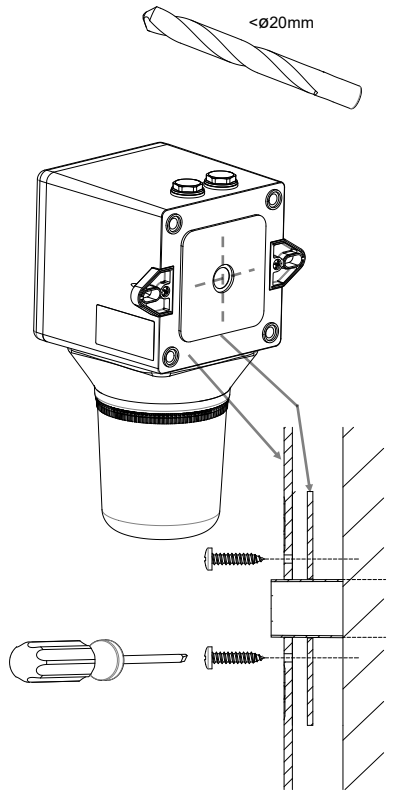
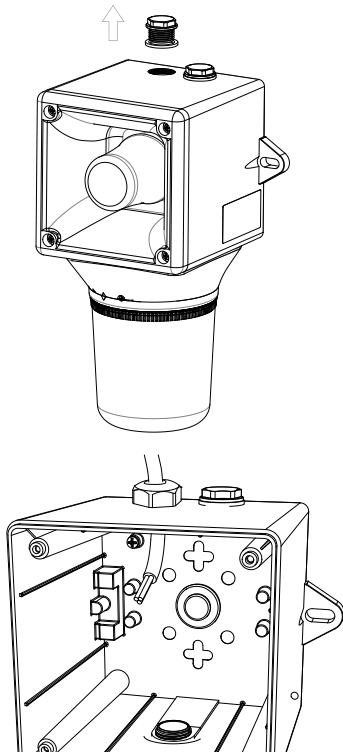
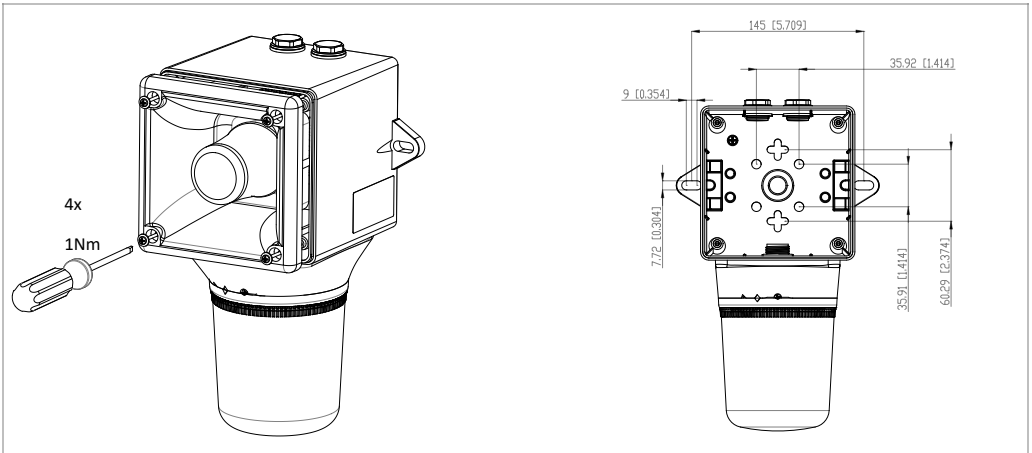
L.E.D Array Option Setting Table

Default setting is 6

| PCB EDGE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | ○ ○ ○ ○ ○ ○ | ○ ○ ○ □ ○ ○ | ○ ○ ○ ○ □ ○ | □ ○ □ ○ ○ ○ | □ ○ □ □ ○ □ | □ ○ □ ○ □ ○ | ○ □ ○ ○ ○ ○ | ○ □ ○ □ ○ □ | ○ □ ○ □ ○ □ |

| 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 |

INSTRUCTION & SERVICE MANUAL
AB105L



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

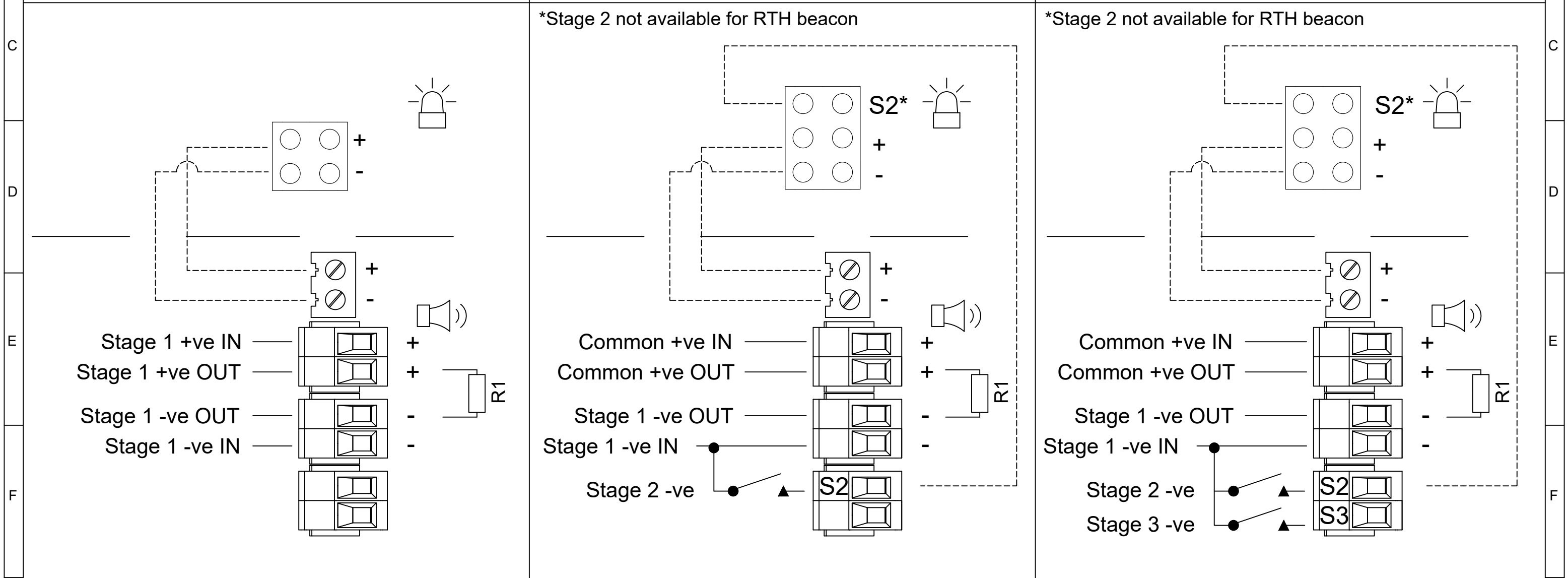
| Stage 1 Set DIP SW 1 Tone No. | Tone Description | Tone Visual | Stage 1 & 2 DIP SW 1/2 Settings 1 2 3 4 5 6 | Stage 3 Set DIP SW 1 (S3) | Stage 4 Set DIP SW 1 (S2 + S3) |
|-------------------------------|--|-------------|---|---------------------------|--------------------------------|
| 1 | 1000Hz PFEER Toxic Gas | | 0 0 0 0 0 | 2 | 44 |
| 2 | 1200/500Hz @ 1Hz DIN /PFEER P.T.A.P. | | 1 0 0 0 0 | 3 | 44 |
| 3 | 1000Hz @ 0.5Hz(1s on, 1soff) PFEER Gen. Alarm | | 0 1 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 | 24 | 1 |
| 5 | 544Hz(100mS)/440Hz (400mS) NF S 32-001 | | 0 0 1 0 0 | 19 | 1 |
| 6 | 1500/500Hz - (0.5s on , 0.5s off) x3 + 1s gap AS4428 | | 1 0 1 0 0 | 44 | 1 |
| 7 | 500-1500Hz Sweeping 2 sec on 1 sec off AS4428 | | 0 1 1 0 0 | 44 | 1 |
| 8 | 500/1200Hz @ 0.26Hz (3.3son, 0.5s off) Netherlands - NEN 2575 | | 1 1 1 0 0 | 24 | 35 |
| 9 | 1000Hz (1s on, 1s off)x7 + (7s on, 1s off) IMO Code 1a | | 0 0 0 1 0 | 34 | 1 |
| 10 | 1000Hz (1s on, 1s off)x7 + (7s on, 1s off) IMO Code 1a | | 1 0 0 1 0 | 34 | 1 |
| 11 | 420Hz(0.5s on, 0.5s off)x3 + 1s gap ISO 8201 Temporal Pattern | | 0 1 0 1 0 | 1 | 8 |
| 12 | 1000Hz(0.5s on, 0.5s off)x3 + 1s gap ISO 8201 Temporal Pattern | | 1 1 0 1 0 | 1 | 8 |
| 13 | 422/775Hz - (0.85 on, 0.5 off) x3 + 1s gap NFPA - Temporal Coded | | 0 0 1 1 0 | 1 | 8 |
| 14 | 1000/2000Hz @ 1Hz Singapore | | 1 0 1 1 0 | 3 | 35 |
| 15 | 300Hz Continuous (f=300) | | 0 1 1 1 0 | 24 | 1 |
| 16 | 440Hz Continuous (f=440) | | 1 1 1 1 0 | 24 | 1 |
| 17 | 470Hz Continuous (f=470) | | 0 0 0 0 1 | 24 | 8 |
| 18 | 500Hz Continuous IMO code 2 (Low) (f=500) | | 1 0 0 0 1 | 24 | 8 |
| 19 | 554Hz Continuous (f=554) | | 0 1 0 0 1 | 24 | 8 |
| 20 | 660Hz Continuous (f=660) | | 1 1 0 0 1 | 24 | 35 |
| 21 | 800Hz IMO code 2 (High) (f=800) | | 0 0 1 0 1 | 24 | 35 |
| 22 | 1200Hz Continuous (f=1200) | | 1 0 1 0 1 | 24 | 35 |
| 23 | 2000Hz Continuous (f=2000) | | 0 1 1 0 1 | 3 | 35 |
| 24 | 2400Hz Continuous (f=2400) | | 1 1 1 0 1 | 20 | 35 |
| 25 | 440Hz @0.83Hz (50 cycles/minute) Intermittent (f=440, a=0.6, b=0.6) | | 0 0 0 1 1 | 44 | 8 |
| 26 | 470Hz @0.9Hz - 1.1s Intermittent (f=470, a=0.55, b=0.55) | | 1 0 0 1 1 | 44 | 8 |
| 27 | 470Hz @5Hz - (5 cycles/second) Intermittent (f=470, a=0.1, b=0.1) | | 0 1 0 1 1 | 44 | 8 |
| 28 | 544Hz @ 1.14Hz - 0.875s Intermittent (f=470, a=0.43, b=0.44) | | 1 1 0 1 1 | 24 | 8 |
| 29 | 655Hz @ 0.875Hz Intermittent (f=655, a=0.57, b=0.57) | | 0 0 1 1 1 | 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 | 24 | 8 |
| 31 | 660Hz @3.34Hz - 150mS on, 150mS off Intermittent (f=660, a=0.15, b=0.15) | | 0 1 1 1 1 | 24 | 8 |
| 32 | 745Hz @ 1Hz Intermittent (f=745, a=0.5, b=0.5) | | 1 1 1 1 1 | 24 | 8 |
| 33 | 800Hz - 0.25sec on, 1 sec off Intermittent (f=800, a=0.25, b=1) | | 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 1 | 24 | 19 |
| 35 | 1000Hz @ 1Hz Intermittent (f=1000, a=0.5, b=0.5) | | 0 1 0 0 1 | 24 | 19 |
| 36 | 2400Hz @ 1Hz Intermittent (f=2400, a=0.5, b=0.5) | | 1 1 0 0 1 | 24 | 19 |
| 37 | 2900Hz @ 5Hz Intermittent (f=2900, a=0.1, b=0.1) | | 0 0 1 0 1 | 24 | 19 |
| 38 | 363/518Hz @ 1Hz Alternating (f=363, f1=518, a=0.1) | | 1 0 1 0 1 | 8 | 19 |
| 39 | 450/500Hz @ 2Hz Alternating (f=450, f1=500, a=0.25) | | 0 1 1 0 1 | 8 | 19 |
| 40 | 554/440Hz @ 1Hz Alternating (f=440, f1=554, a=0.5) | | 1 1 1 0 1 | 24 | 19 |
| 41 | 554/440Hz @ 0.625Hz Alternating (f=440, f1=554, a=0.8) | | 0 0 0 1 1 | 8 | 19 |
| 42 | 561/760Hz @0.83Hz (50 cycles/minute) Alternating (f=561, f1=760, a=0.6) | | 1 0 0 1 1 | 8 | 19 |
| 43 | 780/600Hz @ 0.96Hz Alternating (f=600, f1=780, a=0.52) | | 0 1 0 1 1 | 8 | 19 |
| 44 | 800/1000Hz @ 2Hz Alternating (f=800, f1=1000, a=0.25) | | 1 1 0 1 1 | 24 | 19 |
| 45 | 970/800Hz @ 2Hz Alternating (f=800, f1=970, a=0.25) | | 0 0 1 1 1 | 8 | 19 |
| 46 | 800/1000Hz @ 0.875Hz Alternating (f=800, f1=1000, a=0.57) | | 1 0 1 1 1 | 24 | 19 |
| 47 | 2400/2900Hz @ 2Hz Alternating (f=2400, f1=2900, a=0.25) | | 0 1 1 1 1 | 24 | 19 |
| 48 | 500/1200Hz @ 0.3Hz Sweeping (f=500, f1=1200, a=3.34) | | 1 1 1 1 1 | 24 | 12 |
| 49 | 560/1055Hz @ 0.18Hz Sweeping (f=560, f1=1055, a=5.47) | | 0 0 0 1 1 | 24 | 12 |
| 50 | 560/1055Hz @ 3.3Hz Sweeping (f=560, f1=1055, a=0.3) | | 1 0 0 1 1 | 24 | 12 |
| 51 | 600/1250Hz @ 0.125Hz Sweeping (f=600, f1=1250, a=8) | | 0 1 0 0 1 | 24 | 12 |
| 52 | 660/1200Hz @ 1Hz Sweeping (f=660, f1=1200, a=1) | | 1 1 0 0 1 | 24 | 12 |
| 53 | 800/1000Hz @ 1Hz Sweeping (f=800, f1=1000, a=1) | | 0 0 1 0 1 | 24 | 12 |
| 54 | 800/1000Hz @ 7Hz Sweeping (f=800, f1=1000, a=0.14) | | 1 0 1 0 1 | 24 | 12 |
| 55 | 800/1000Hz @ 50Hz Sweeping (f=800, f1=1000, a=0.02) | | 0 1 1 0 1 | 24 | 12 |
| 56 | 2400/2900Hz @ 7Hz Sweeping (f=2400, f1=2900, a=0.14) | | 1 1 1 0 1 | 24 | 12 |
| 57 | 2400/2900Hz @ 1Hz Sweeping (f=2400, f1=2900, a=1) | | 0 0 1 1 1 | 24 | 12 |
| 58 | 2400/2900Hz @ 50Hz Sweeping (f=2400, f1=2900, a=0.02) | | 1 0 0 1 1 | 24 | 12 |
| 59 | 2500/3000Hz @ 2Hz Sweeping (f=2500, f1=3000, a=0.5) | | 0 1 0 1 1 | 24 | 12 |
| 60 | 2500/3000Hz @ 7.7Hz Sweeping (f=2500, f1=3000, a=0.13) | | 1 1 0 1 1 | 24 | 12 |
| 61 | 800Hz Motor Siren (f=800, a=1.6) | | 0 0 1 1 1 | 24 | 12 |
| 62 | 1200Hz Motor Siren (f=1200, a=2) | | 1 0 1 1 1 | 24 | 12 |
| 63 | 2400Hz Motor Siren (f=2400, a=1.7) | | 0 1 1 1 1 | 24 | 12 |
| 64 | Simulated Bell | | 1 1 1 1 1 | 21 | 12 |

----- 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

DC configuration -Linked Sounder & Beacon Activation (Default)


| | | | | | |
|---|-------------|---|-------------|---|-------------|
| Single Stage Configuration | Config.: 1a | Two Stage Configuration | Config.: 1b | Three/Four Stage Configuration | Config.: 1c |
| Line Monitoring | | Common Positive | | Common Positive | |
| Stage 1: Apply Power to Stage 1 +ve & Stage 1 -ve | | 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 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 | |



| | | | | | | | |
|---|--|----------------------|-------------|---|---|------------------------|--------------------------------------|
| DRAWING TO BS8888:2000 GEOMETRIC TOLERANCES TO ISO1101:1983 LINEAR DIMENSIONAL TOLS ANGULAR DIMENSIONAL TOLS | DRAWN J.SPILLER DATE 11/06/2021 | SURFACE FINISH | WEIGHT (Kg) | THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER THEREIN IS COMMUNICATED IN CONFIDENCE AND IS THE COPYRIGHT PROPERTY OF EUROPEAN SAFETY SYSTEMS LTD. NEITHER THE WHOLE OR ANY EXTRACT MAY BE DISCLOSED, LOANED, COPIED OR USED FOR MANUFACTURING OR TENDERING PURPOSES WITHOUT THEIR WRITTEN CONSENT. | ALL DIMENSIONS IN MM IF IN DOUBT, ASK - DO NOT SCALE | | A3 |
| STANDARDS AB105 RANGE | CHECKED R.N.POTTS DATE 11/06/2021 | MATERIAL | | | TITLE AB105L COMBINED SOUNDER & BEACON WIRING SHCEMATIC | | |
| | APPROVED R.N.POTTS DATE 11/06/2021 | ALTERNATIVE MATERIAL | | | SCALE NTS | SHEET 1 OF 4 | DRAWING NUMBER D118-06-001 |

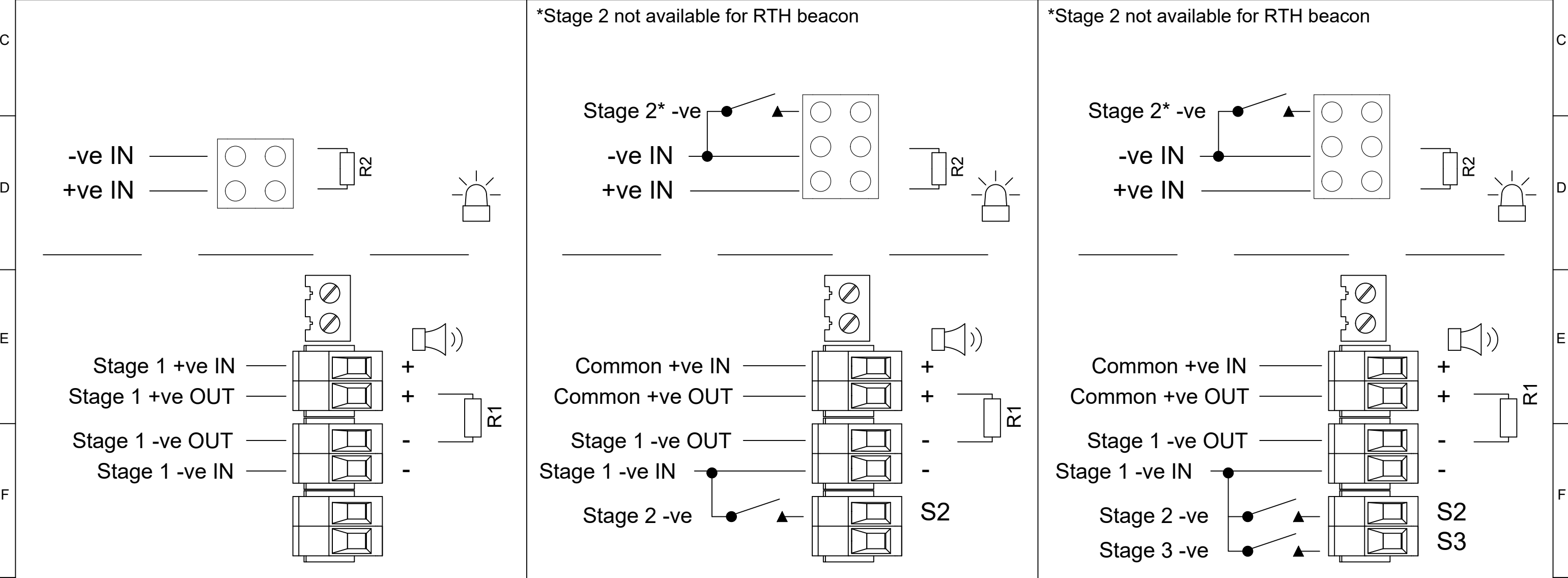
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|---|---|---|---|---|---|---|-------|---------|-------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | | | | | | ISSUE | MOD No. | REASON - INITIAL - DATE |
| | | | | | | | A | | INTRODUCTION JS - 11/06/21 |

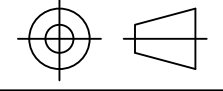
OPTIONAL LINE MONITORING RESISTOR, CUSTOMER SUPPLIED,
RECOMMENDED MINIMUM VALUES:
14V MAX SYSTEM = 120Ω MIN, 2W MIN OR 1KΩ MIN, 0.5W MIN
28V MAX SYSTEM = 470Ω MIN, 2W MIN OR 2.4KΩ MIN, 0.5W MIN



DC configuration -Independent Sounder & Beacon Activation (Remove Link Wires)

| | | | | | |
|---|-------------|---|-------------|---|-------------|
| Single Stage Configuration | Config.: 2a | Two Stage Configuration | Config.: 2b | Three/Four Stage Configuration | Config.: 2c |
| Line Monitoring | | Common Positive | | Common Positive | |
| Stage 1: Apply Power to Stage 1 -ve & Stage 1 +ve | | 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 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 | |



| | | | | | | | | | |
|---|---|-----------------------|--------------------|----------------------|-------------|---|---|---|-------------------------------|
| G | DRAWING TO BS8888:2000 GEOMETRIC TOLERANCES TO ISO1101:1983 LINEAR DIMENSIONAL TOLS ANGULAR DIMENSIONAL TOLS | DRAWN J.SPILLER | DATE 11/06/2021 | SURFACE FINISH | WEIGHT (Kg) | THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER THEREIN IS COMMUNICATED IN CONFIDENCE AND IS THE COPYRIGHT PROPERTY OF EUROPEAN SAFETY SYSTEMS LTD. NEITHER THE WHOLE OR ANY EXTRACT MAY BE DISCLOSED, LOANED, COPIED OR USED FOR MANUFACTURING OR TENDERING PURPOSES WITHOUT THEIR WRITTEN CONSENT. | ALL DIMENSIONS IN MM IF IN DOUBT, ASK - DO NOT SCALE |  | A3 |
| | STANDARDS | CHECKED | DATE 11/06/2021 | MATERIAL | | | TITLE AB105L COMBINED SOUNDER & BEACON WIRING SHCEMATIC | | |
| | | APPROVED R.N.POTTS | DATE 11/06/2021 | ALTERNATIVE MATERIAL | | | SCALE NTS | SHEET 2 OF 4 | DRAWING NUMBER D118-06-001 |

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

SWITCHES FOR STAGE OPERATION
CUSTOMER SUPPLIED

AC configuration - Linked Sounder & Beacon Activation (Default)

Single Stage Configuration Config.: 3a

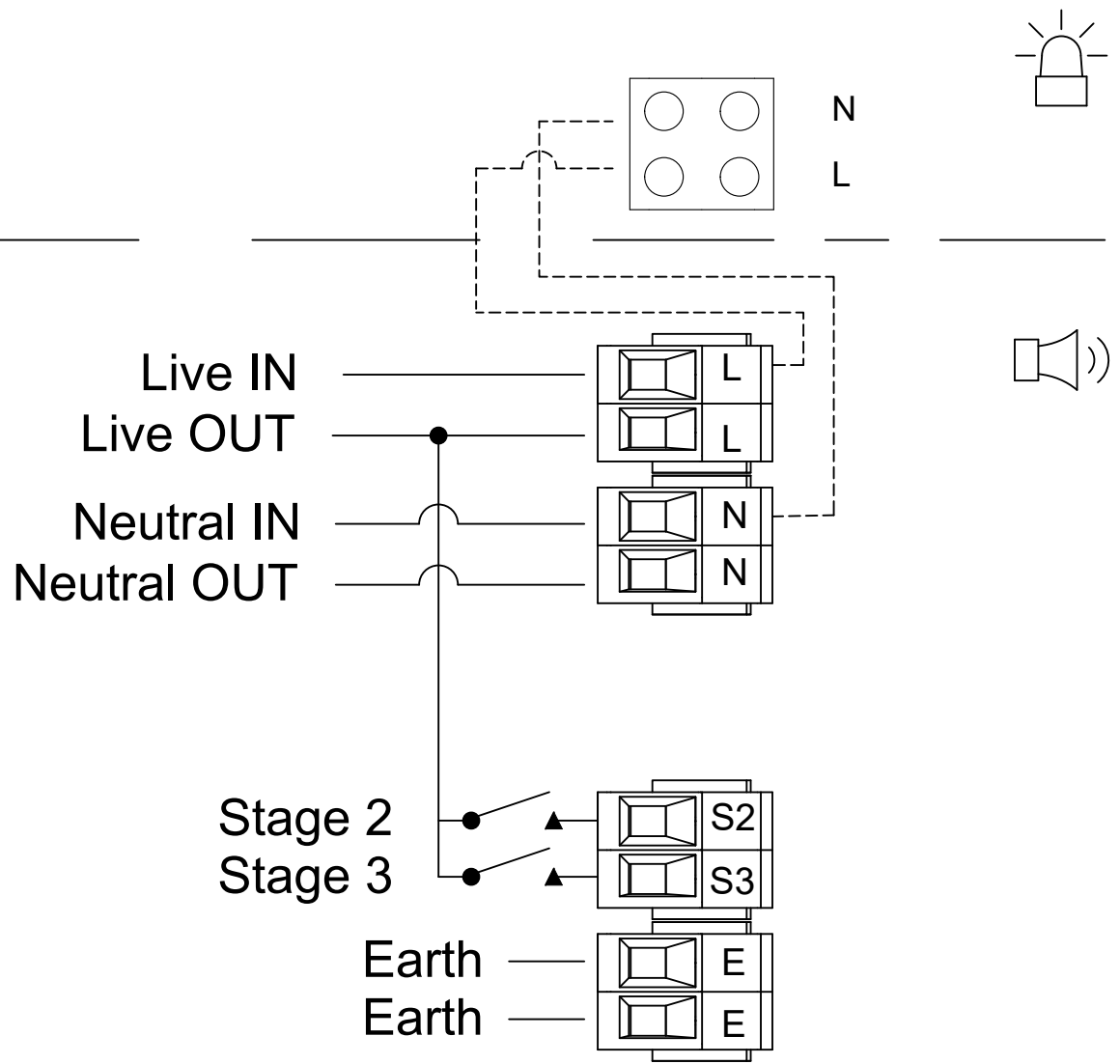
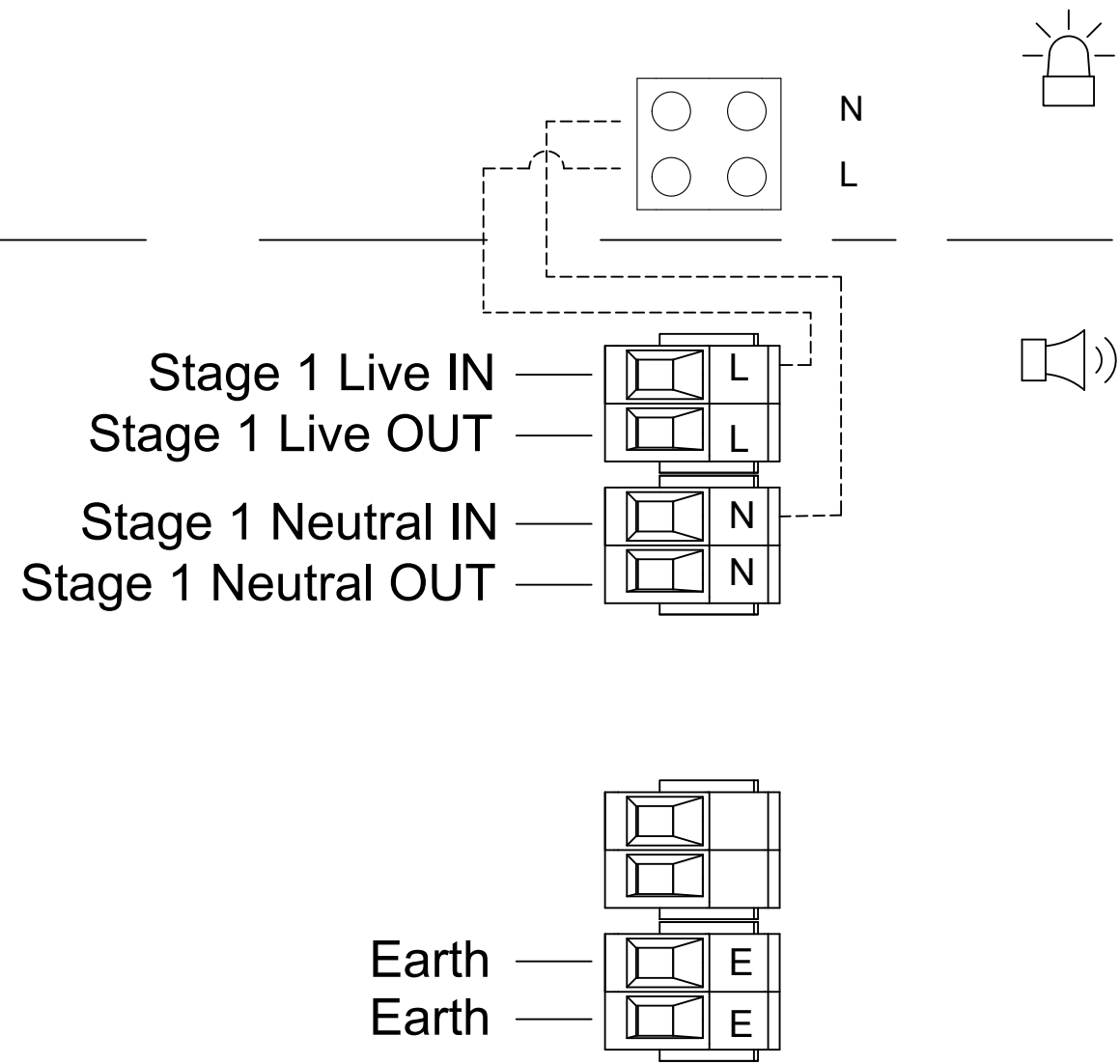
Three/Four Stage Configuration Config.: 3b

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

STANDARDS
AB105 RANGE

| | | |
|-----------|------------|--|
| DRAWN | DATE | |
| J.SPILLER | 11/06/2021 | |
| CHECKED | DATE | |
| R.N.POTTS | 11/06/2021 | |
| APPROVED | DATE | |
| R.N.POTTS | 11/06/2021 | |

| | | |
|----------------------|-------------|--|
| SURFACE FINISH | WEIGHT (Kg) | |
| MATERIAL | | |
| ALTERNATIVE MATERIAL | | |

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

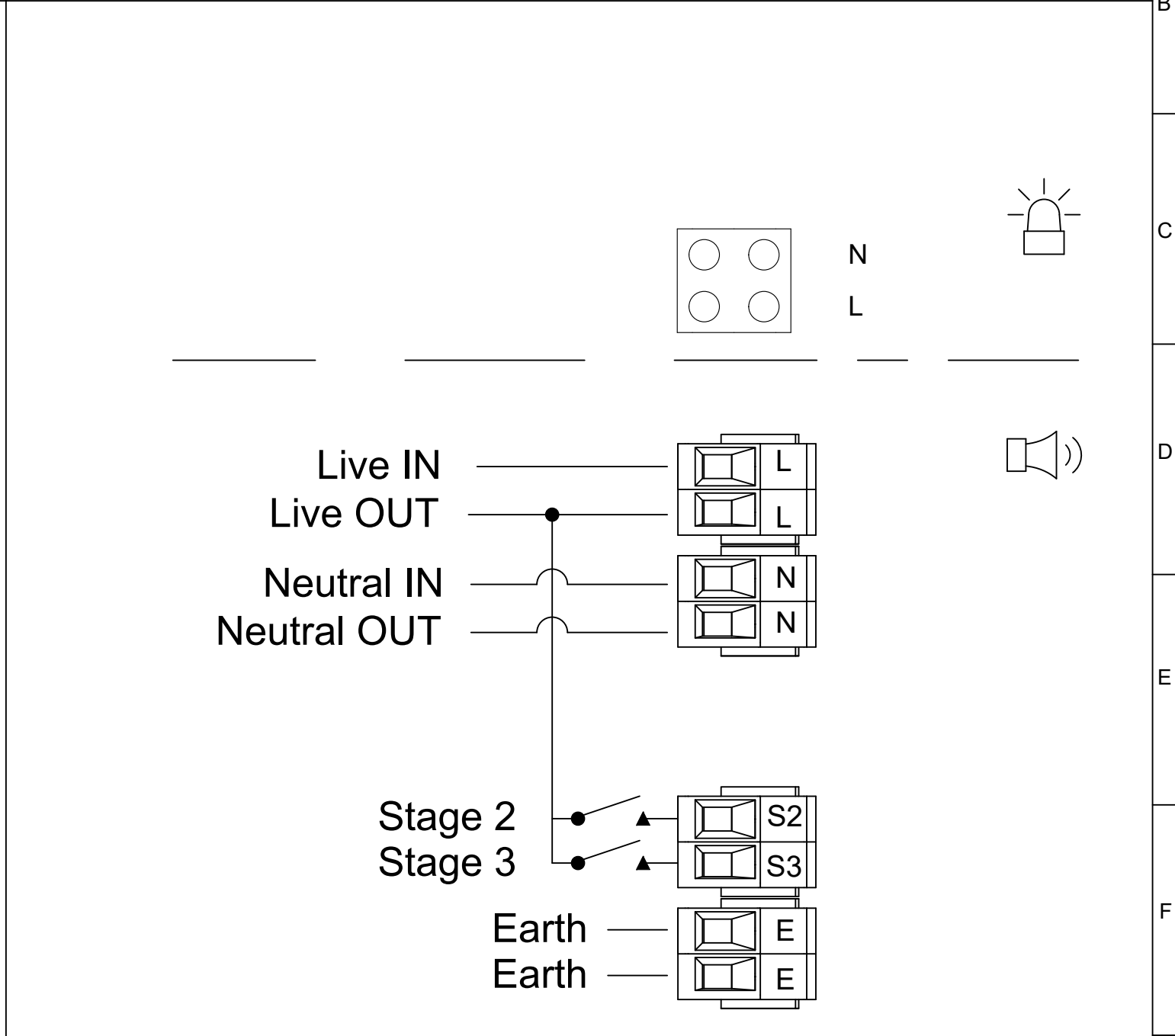
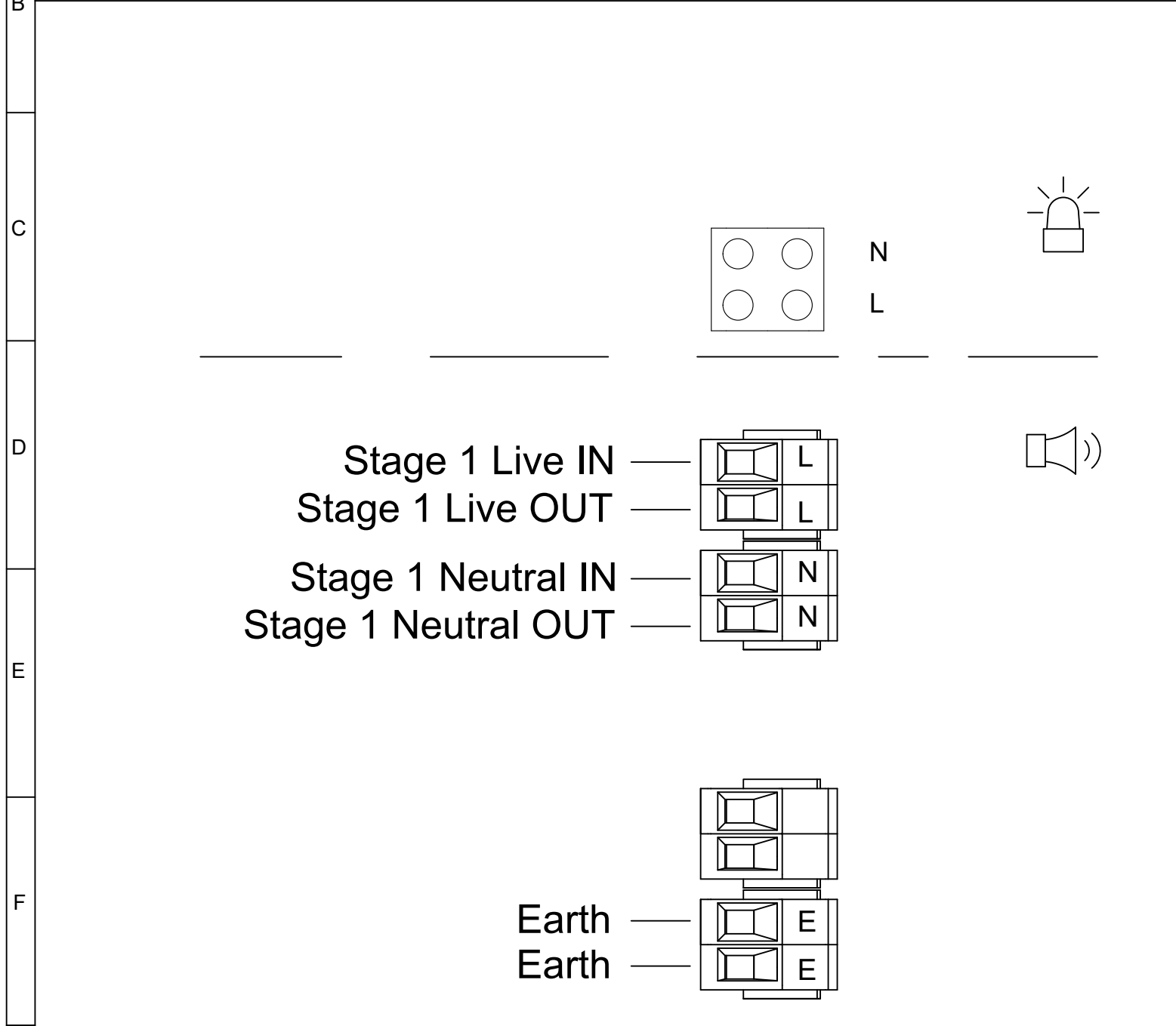
| | | |
|---|-----------------|-------------------------------|
| | | A3 |
| TITLE AB105L COMBINED SOUNDER & BEACON WIRING SHCEMATIC | | |
| SCALE NTS | SHEET 3 OF 4 | DRAWING NUMBER D118-06-001 |

SWITCHES FOR STAGE OPERATION
CUSTOMER SUPPLIED

AC configuration - Independent Sounder & Beacon Activation (Remove Link Wires)

Single Stage Configuration Config.: 4a
 Stage 1: Apply Power to Stage 1 Live & Stage 1 Neutral

Three/Four Stage Configuration Config.: 4b
 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 BS8888:2000 GEOMETRIC TOLERANCES TO ISO1101:1983 LINEAR DIMENSIONAL TOLS ANGULAR DIMENSIONAL TOLS | DRAWN | DATE | SURFACE FINISH | WEIGHT (Kg) | THIS DRAWING AND ANY INFORMATION OR DESCRIPTIVE MATTER THEREIN IS COMMUNICATED IN CONFIDENCE AND IS THE COPYRIGHT PROPERTY OF EUROPEAN SAFETY SYSTEMS LTD. NEITHER THE WHOLE OR ANY EXTRACT MAY BE DISCLOSED, LOANED, COPIED OR USED FOR MANUFACTURING OR TENDERING PURPOSES WITHOUT THEIR WRITTEN CONSENT. | ALL DIMENSIONS IN MM | | A3 | |
| | J.SPILLER | 11/06/2021 | | | | MATERIAL | IF IN DOUBT, ASK - DO NOT SCALE | TITLE AB105L COMBINED SOUNDER & BEACON WIRING SHCEMATIC | |
| | CHECKED | DATE | | | | ALTERNATIVE MATERIAL | SCALE | SHEET | DRAWING NUMBER |
| | R.N.POTTS | 11/06/2021 | | | | | NTS | 4 OF 4 | D118-06-001 |
| STANDARDS | | APPROVED | | DATE | | | | | |
| AB105 RANGE | | R.N.POTTS | | 11/06/2021 | | | | | |