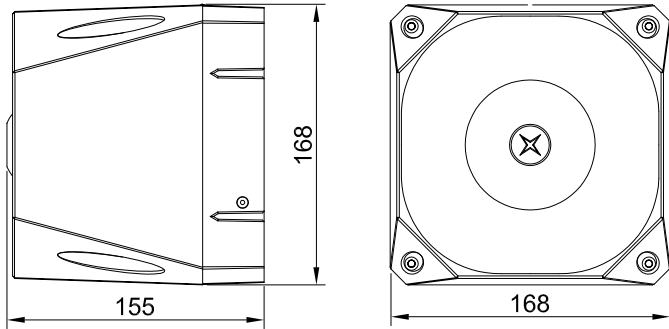


ASSERTA Industrial Sounder (24Vdc)

Specification

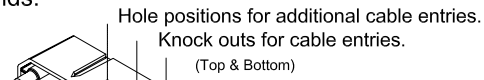
| | 24Vdc |
|-------------------------|---------------------------|
| Operation | Continuous |
| Operating Voltage Range | 18Vdc-28Vdc |
| Sound Output @ 1m | See table overleaf |
| Current Consumption | See table overleaf |
| Tones | 42 see table overleaf |
| Operating Temperature | -25°C to +70°C |
| Line Monitoring Method | Polarised Input |
| Construction | ABS /PC Plastic Case |
| Environment Category | Type A/B |
| Ingress Protection | IP66 |
| Compliance | EN54-3 |
| | Fire Alarm device-Sounder |

Dimensions



1. Installation

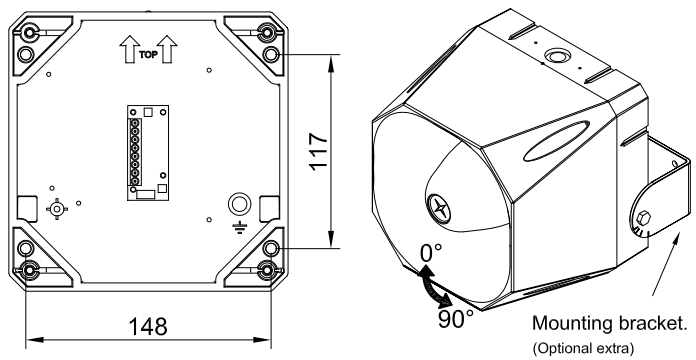
Knockout or drill required cable gland holes, and fix required cable glands.



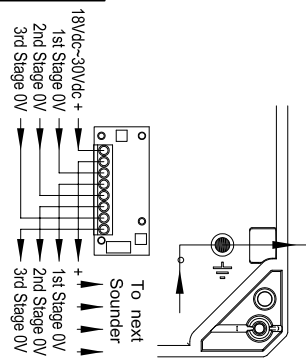
NOTE: Ensure that the IP integrity is maintained during gland fitting. (Take care not to disturb the electronics while drilling. Remove PCB if required)

2. Fixing Details

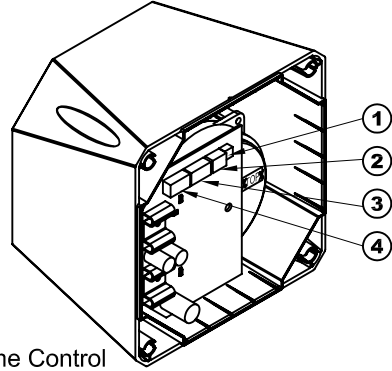
Fix base to wall in 4 positions.



3. Connection Detail



4. Sounder Settings



1. Volume Control

Turn dial clockwise to increase volume. (Nominal 20dB range)

2. Switch 1 (Time out setting)

| BIT 123X | Minutes | BIT 123X | Minutes |
|----------|---------|----------|---------|
| 111X | 5 | 011X | 25 |
| 110X | 10 | 010X | 30 |
| 101X | 15 | 001X | 40 |
| 100X | 20 | 000X | ∞ |

0 = Open
1 = Closed

Switch 1 bit 4 is to select voice (0)/ no voice (1). (Where fitted)

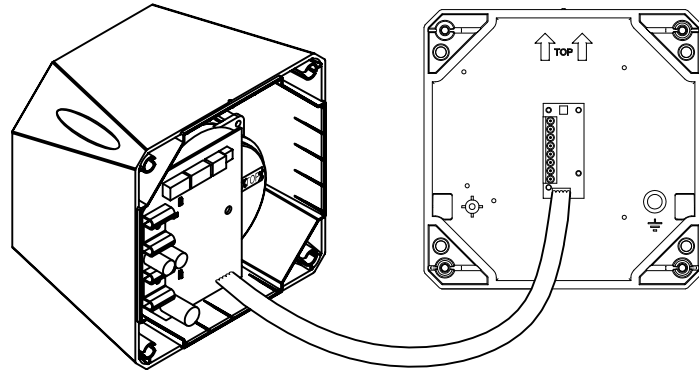
3. Switch 2 (Stage1 tone selection)

See table overleaf.

4. Switch 3 (Stage 2 tone selection)

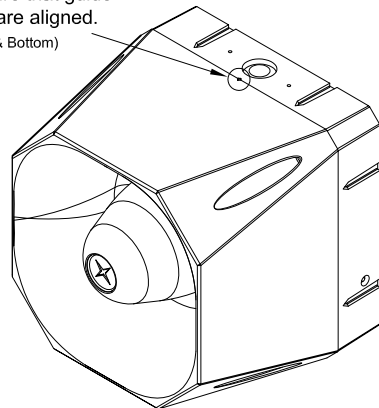
See table overleaf. (Stage 3 Tone is dependent on the setting of switch 2)

5. Sounder Assembly



1. Plug the 5 way ribbon cable into the base header.
2. Ensure that the top indicator on the base is aligned with the top indicator on the sounder, and push the sounder onto the base.
3. Secure the sounder to the base using the bolts provided.

Ensure that guide ribs are aligned. (Top & Bottom)



WARNING : On some tones the output level can exceed 120dB(A) @ 1m. Consult the relevant or appropriate health and safety regulations for guidelines. Tones Table overleaf.
NOTE : Polar dispersion information available in the technical manual. (Ref:M03-003)

| 1st & 2nd Tone Bank | 3rd Tone Bank | Switch Setting (0=Open) | Pattern | Frequency (Hz) | Rate | Tone Description | Market | Depiction | Asserta 110 | | Asserta 120 | |
|---------------------|---------------|-------------------------|--------------|----------------|---|-------------------------------------|--------|-----------|-----------------------------------|--------------------|-----------------------------------|-------------------------------|
| | | | | | | | | | Average current @ max vol @ 24VDC | 24Vdc on axis @ 1M | Average current @ max vol @ 24VDC | *24Vdc on axis @ 1M see notes |
| A 1 | A14 | 123456 | Alternating | 970 then 800 | 2Hz (250ms-250ms) | | EVIAN | | 108 | 111 | 450 | 117 |
| A 2 | A14 | 111111 | Alternating | 800 to 970 | 7Hz (7/s) | | | | 112 | 120 | 450 | 120 |
| A 3 | A14 | 111101 | Sweep | 800 to 970 | 1Hz (1/s) | | | | 106 | 112 | 450 | 120 |
| A 4 | A9 | 111100 | Continuous | 2850 | S steady | | | | 122 | 106 | 445 | 109 |
| A 5 | A4 | 111011 | Sweep | 2400 to 2850 | 7Hz | | | | 119 | 103 | 447 | 109 |
| A 6 | A4 | 111010 | Sweep | 2400 to 2850 | 1Hz | | | | 121 | 105 | 446 | 110 |
| A 7 | A14 | 111001 | Slow whoop | 500 to 1200 | 3s sweep, 0.5s silence, then repeat (rep) | Slow Whoop Netherlands | | | 115 | 111 | 340 | 119 |
| A 8 | A14 | 111000 | Sweep (DIN) | 1200 to 500 | 1Hz | Din / PFEER (PAPA) | | | 111 | 112 | 430 | 119 |
| A 9 | A4 | 110111 | Alternating | 2850 then 2400 | 2Hz (250ms-250ms) | | | | 121 | 108 | 450 | 112 |
| A 10 | A14 | 110110 | Intermittent | 970 | 0.5Hz (1s On/1s Off) | PFEER alert | | | 71 | 108 | 229 | 117 |
| A 11 | A14 | 110101 | Alternating | 970 then 800 | 1Hz (500ms-500ms) | | | | 106 | 109 | 375 | 116 |
| A 12 | A4 | 110100 | Intermittent | 2850 | 0.5Hz (1s On/1s Off) | | | | 89 | 107 | 235 | 109 |
| A 13 | A14 | 110011 | Intermittent | 970 | 0.8Hz (250ms On/1s Off) | AS P | | | 35 | 108 | 100 | 107 |
| A 14 | A8 | 110010 | Continuous | 970 | S steady | PFEER - Toxic gas | | | 104 | 109 | 450 | 117 |
| A 15 | A14 | 110001 | Alternating | 440 then 554 | 100ms-400ms | France NFS 32 S 32-001 | | | 76 | 106 | 294 | 115 |
| A 16 | A14 | 110000 | Intermittent | 660 | 3.3Hz (150ms On/150ms Off) | Swedish (Air raid) | | | 60 | 106 | 232 | 114 |
| A 17 | A14 | 101111 | Intermittent | 660 | 0.28Hz (1.8s On/1.8s Off) | Swedish (Local warning) | | | 88 | 106 | 220 | 115 |
| A 18 | A14 | 101110 | Intermittent | 660 | 0.05Hz (6.5s On/13s Off) | Swedish (Pre-mess) | | | 101 | 106 | 150 | 115 |
| A 19 | A1 | 101101 | Continuous | 660 | S steady | Swedish (All clear) | | | 103 | 107 | 429 | 116 |
| A 20 | A19 | 101100 | Alternating | 440 then 554 | 0.5Hz (1s On/1s Off) | Swedish (Turn out) | | | 83 | 106 | 312 | 115 |
| A 21 | A4 | 101011 | Intermittent | 660 | 1Hz (500ms-500ms) | Swedish | | | 66 | 106 | 220 | 115 |
| A 22 | A4 | 101010 | Intermittent | 2850 | 4Hz (150ms On/100ms Off) | Swedish | | | 83 | 105 | 286 | 108 |
| A 23 | A14 | 101001 | Sweep | 800 to 970 | 50Hz | | | | 102 | 109 | 419 | 117 |
| A 24 | A4 | 101000 | Sweep | 2400 to 2850 | 50Hz | | | | 120 | 106 | 440 | 110 |
| A 25 | A14 | 100111 | Intermittent | 970 | 3 x 500ms pulses followed by 1.5s silence then repeat | ISO 8201/JUS Temporal | | | 62 | 109 | 180 | 117 |
| A 26 | A4 | 100110 | Intermittent | 2850 | 3 x 500ms pulses followed by 1.5s silence then repeat | ISO 8201/JUS Temporal | | | 64 | 107 | 180 | 109 |
| A 27 | A6 | 100101 | Continuous | 4000 | S steady | | | | 109 | 101 | 450 | 105 |
| A 28 | A14 | 100100 | Alternating | 970 then 800 | 2Hz (250ms-250ms) | | | | 106 | 109 | 414 | 116 |
| A 29 | A14 | 100011 | Alternating | 990 then 650 | 2Hz (250ms-250ms) (Symphoni tones) | | | | 104 | 109 | 444 | 117 |
| A 30 | A14 | 100010 | Alternating | 510 then 610 | 2Hz (250ms-250ms) (S quashmi Micro tones) | | | | 96 | 107 | 370 | 116 |
| A 31 | A14 | 100001 | Sweep | 300 to 1200 | 1Hz | | | | 84 | 110 | 285 | 118 |
| A 32 | A3 | 100000 | Continuous | Bell | S steady | S see attached for waveform details | | | 120 | 111 | 450 | 117 |
| A 33 | A14 | 111111 | Intermittent | Bell | 3 x 500ms pulses followed by 1.5s silence then repeat | Bell / US temporal | | | 69 | 111 | 180 | 117 |
| A 34 | A4 | 111110 | Alternating | 1000 then 2000 | 1Hz (500ms-500ms) | Singapore | | | 107 | 107 | 450 | 115 |
| A 35 | A14 | 111101 | Intermittent | 420 | 6 step ramped start pulsed @ 0.625S ON / 0.625S OFF | Australian alert | | | 46 | 108 | 140 | 116 |
| A 36 | A14 | 111100 | Sweep | 500 to 1200 | Sweep 3:7:5s followed by 0.25s gap | Australian evac | | | 91 | 109 | 340 | 117 |
| A 37 | A14 | 110111 | Sweep | 1400 to 1600 | Sweep up 1s, sweep down 0.5s | NF C 48-265 | | | 122 | 108 | 448 | 116 |
| A 38 | A14 | 110110 | Sweep | 500 to 1200 | Sweep UP & DOWN over 3s | Siren | | | 94 | 109 | 310 | 117 |
| A 39 | A14 | 110011 | Intermittent | 720 | 0.7s ON, 0.3s OFF | German ind alarm | | | 110 | 110 | 310 | 117 |
| A 40 | A14 | 110001 | Sweep | 422 to 775 | Sweep for 0.85s, 1s delay, repeat | NFPA Whoop | | | 60 | 109 | 180 | 118 |
| A 41 | A3 | 101111 | Continuous | 470 | S steady | Horn (USA) | | | 85 | 104 | 340 | 114 |
| A 42 | A3 | 101110 | Continuous | 370 | S steady | Air horn (USA) | | | 76 | 104 | 272 | 113 |

Note (a): Tones approved under the Construction Products Directive for Fire Alarm Applications, are shown in the column marked EN54-3.

Note (b): EN54-3 measurements shown reflect minimum expected SPL readings at Maximum Volume at the Loudest Point around the EN54-3 defined sounder axis.

Note (c): All other tone measurements reflect manufacturers data based on 'on axis' measurements, and are not verified by a Notified body.

Note (d): Detailed EN54-3 polar SPL measurements are available in the Product Manual for the appropriate sounder.

Note (e): All measurements taken at 20°C operating temperature.