

ASSERTA Midi Sounder/Beacon (115 & 230VAC)

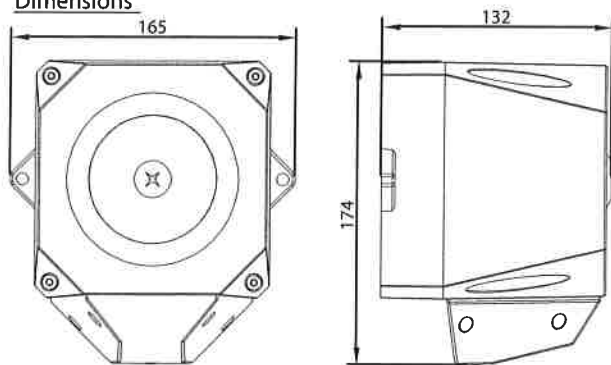
Specification

NOTE: 115 & 230VAC are separate products

Sounder	115V AC	230V AC
Operation	Continuous	Continuous
Operating Voltage Range	115Vac 50/60Hz	230Vac 50/60Hz
Sound Output @ 1m	See table overleaf	See table overleaf
Current Consumption	See table overleaf	See table overleaf
Tones	32 see table overleaf	32 see table overleaf
Operating Temperature	-20°C to +70°C	-20°C to +70°C
Construction	ABS /PC FR plastic	ABS /PC FR plastic
Termination	0.28~2.5mm ² cable	0.28~2.5mm ² cable
Ingress Protection	IP66	IP66
Fuse	32mA Antisurge, 20mm	32mA Antisurge, 20mm

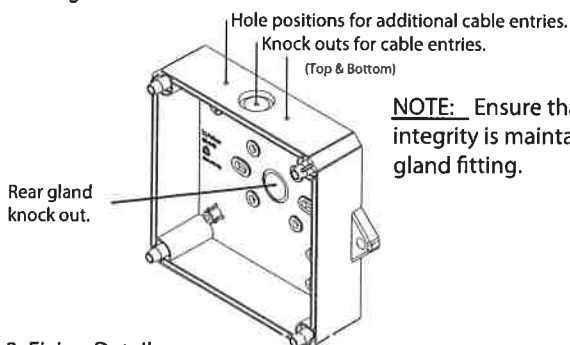
Beacon	115V AC	230V AC
Operating Voltage Range	115Vac 50/60Hz	230Vac 50/60Hz
Current Consumption	60mA	30mA
Rating	2.5 Joules	2.5 Joules
Operating Temperature	-20°C to +70°C	-20°C to +70°C
Construction	ABS /PC FR plastic	ABS /PC FR plastic
Termination	0.28~2.5mm ² cable	0.28~2.5mm ² cable
Ingress Protection	IP66	IP66
Fuse	315mA Antisurge, 20mm	315mA Antisurge, 20mm

Dimensions



1. Installation

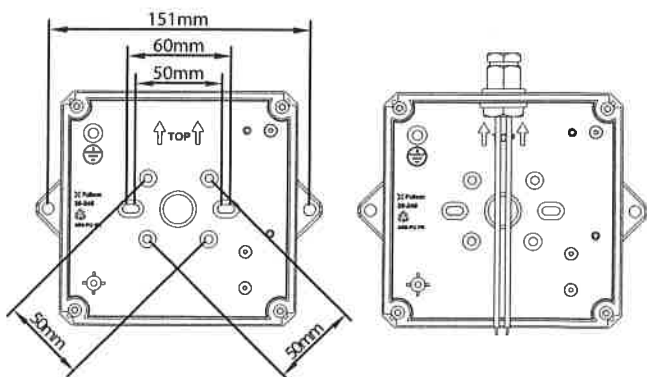
Knockout or drill required cable gland holes, and fix required cable glands.



2. Fixing Details

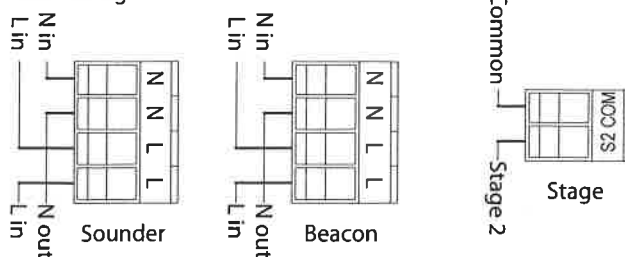
Fix base to wall using the two external lugs, or to a suitable junction box using the positions indicated in the base. Cut cable to $\pm 130\text{mm}$. (use the opposite side of the base as a guide)

NOTE: If the internal fixing holes are being used ensure that the IP integrity is maintained.



3. Connection

Remove the terminal blocks from the sounder PCB for cable wiring.

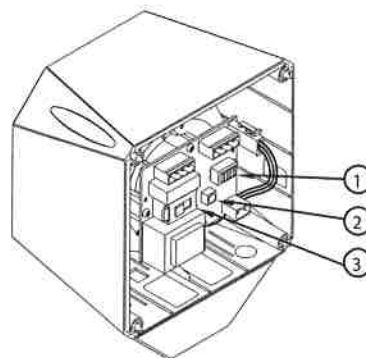


NOTE: Stage 2 tone selection is achieved by connecting the S2 to the common terminal.

DO NOT connect AC mains to these terminals.

NB: A readily accessible disconnect device must be incorporated in the mains supply wiring to this unit.

4. Sounder Settings



1. Tone Switch



See table overleaf.
0 = Open
1 = Closed

2. Volume Control

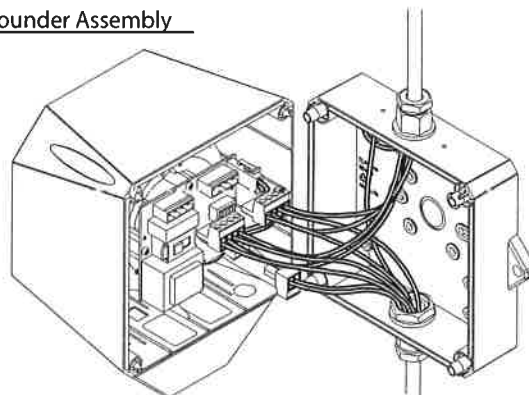


Turn dial clockwise to increase volume.
(Nominal 10dB range)

3. Voltage Select Switch

Ensure that the correct mains input voltage is selected.

5. Sounder Assembly



1. Plug the two 4 way terminal blocks into the 4 way headers on the sounder PCB.
2. Plug the 2 way terminal block into the sounder header on the PCB.
3. Secure the sounder to the base using the bolts provided.



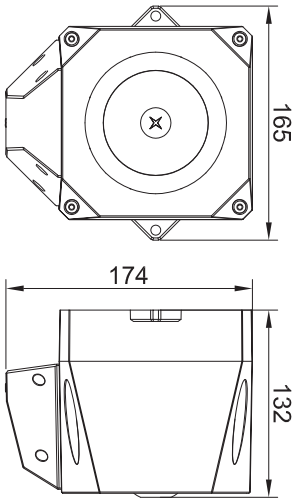
WARNING : Do not remove cover, refer servicing to qualified personnel.
: High voltage present within this equipment.



NOTE : Polar dispersion Information available in the technical manual. (Ref:M03-003)

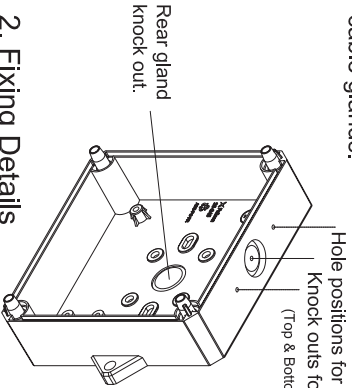
Specification		Sounder	Beacon
Operation		Continuous	Continuous
Operating Voltage Range		9Vdc-15Vdc (Non-Fire) 15Vdc-60Vdc (EN54-3)	9Vdc-15Vdc (Non-Fire) 15Vdc-60Vdc (EN54-3)
Output		See table overleaf	2.5 Joules
Current Consumption		See table overleaf	615mA@9V - 90mA@60V
Tones		32 see table overleaf	N/A
Operating Temperature		-25°C to +70°C	-25°C to +70°C
Line Monitoring Method		Polarised Input	Polarised Input
Construction		ABS /PC FR Plastic Case	ABS /PC FR Plastic Case
Ingress Protection		IP66	IP66
Termination		0.28-2.5mm ² cable	0.28-2.5mm ² cable
Environment Category		Type A/B	Type A/B
Compliance		EN54-3 Fire Alarm device-Sounder	

Dimensions



1. Installation

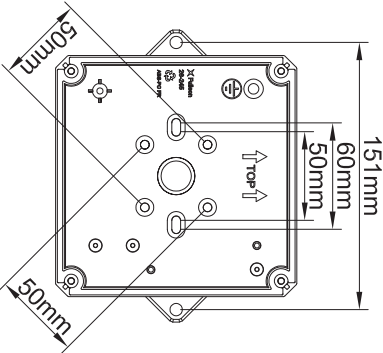
Knockout or drill required cable gland holes, and fix required cable glands.



NOTE: Ensure that the IP integrity is maintained during gland fitting.

2. Fixing Details

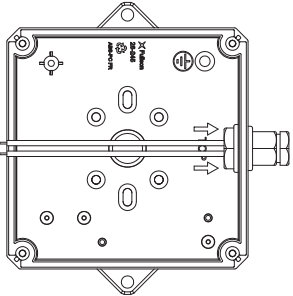
Fix base to wall using the two external lugs, or to a suitable junction box using the positions indicated in the base.



NOTE: If the internal fixing holes are being used ensure that the IP integrity is maintained.

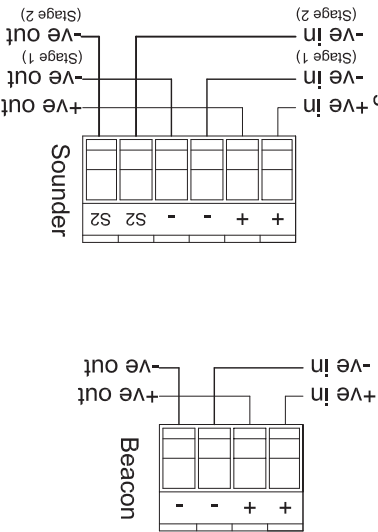
3. Cable Preparation

Cut cable to ±130mm. (use the opposite side of the base as a guide)



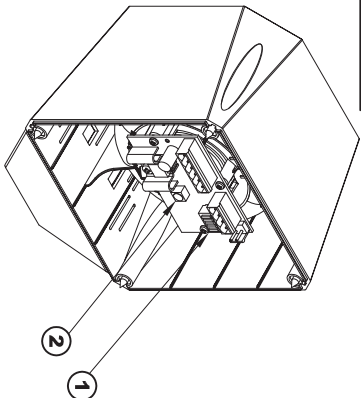
4. Connection Details

Remove the terminal blocks from the sounder PCB for cable wiring.



NOTE: Stage 2 tone selection is achieved by connecting the S2 input to the -ve (Stage 1) supply.

5. Sounder Settings



1. Tone select switch



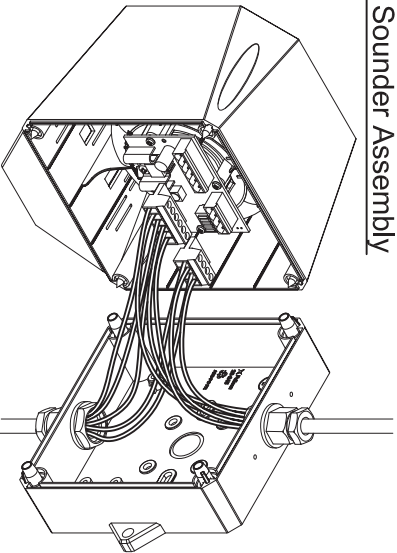
See table overleaf.

2. Volume Control

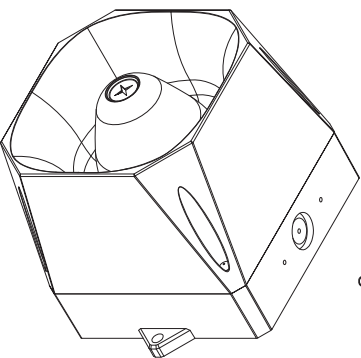


Turn dial clockwise to increase volume. (Nominal 10dB range)

6. Sounder Assembly



1. Plug the 4 way terminal block into the 4 way header and the 6 way terminal block into the 6 way header on the sounder PCB.
2. Secure the sounder to the base using the bolts provided.



NOTE: Polar dispersion information available in the technical manual (Ref:M04-005)
CE marking under CPD was affixed on; (see batch code on product)
Fuleon Ltd, Cwmbran, South Wales, UK.

Asserta Midi Sounder Tones Table

Primary Tone	Secondary Tone	CODE	TONE					Operating Current			SPL	EN54-3
								12Vdc	24Vdc	48Vdc	24Vdc See Notes	60Vdc See Notes
			12345	Description	Frequencies	Pattern	Use	I (mA)	I (mA)	I (mA)	dB(A)@1m	dB(A)@1m
1	14	11111	Alternating	800 & 970	2Hz (250ms-250ms)	BS5839 Part 1 1988		15	32	35	108	-
2	14	11110	Sweep	800 & 970	7Hz (7/s)	Fast Sweep (LF) BS5839 Part 1 1988		11	24	26	107	-
3	14	11101	Sweep	800 & 970	1Hz (1/s)	Medium Sweep (LF) BS5839 Part 1 1988		11	23	27	108	104
4	14	11100	Continuous	2850	Steady			19	40	44	107	-
5	4	11011	Sweep	2400 to 2850	7Hz	Fast Sweep		15	31	35	107	-
6	4	11010	Sweep	2400 to 2850	1Hz			15	31	35	109	-
7	14	11001	Slow Whoop	300 to 1200	3s sweep, 0.5s silence, then repeat (rep)	Slow Whoop		17	38	42	111	108
8	14	11000	Sweep	1200 to 500	1Hz	Din Tone		14	31	35	109	107
9	4	10111	Alternating	2400 & 2850	2Hz (250ms-250ms)			16	35	38	108	-
10	14	10110	Intermittent	970	0.5Hz (1s On/1s Off)	Back-up Alarm (LF) BS5839 Part 1 1988		13	30	33	108	-
11	14	10101	Alternating	800 & 970	1Hz (500ms-500ms)	BS5839 Part 1 1988		15	33	37	108	-
12	4	10100	Intermittent	2850	0.5Hz (1s On/1s Off)	Back-up Alarm (HF)		13	29	32	107	-
13	14	10011	Intermittent	970	0.8Hz (250ms On/1s Off)	BS5839 Part 1 1988		6	14	16	108	-
14	14	10010	Continuous	970	Steady	BS5839 Part 1 1988		18	41	45	108	107
15	14	10001	Alternating	554 & 440	100ms-400ms	French Fire Sound		13	32	36	108	-
16	16	10000	Intermittent	660	3.3Hz (150ms On/150ms Off)	Swedish Alarm Tone		8	17	21	106	-
17	17	01111	Intermittent	660	0.28Hz (1.8s On/1.8s Off)	Swedish Alarm Tone		11	26	29	106	-
18	18	01110	Intermittent	660	0.05Hz (6.5s On/13s Off)	Swedish Alarm Tone		13	30	32	107	-
19	19	01101	Continuous	660	Steady	Swedish Alarm Tone		13	30	33	107	-
20	20	01100	Alternating	554 & 440	0.5Hz (1s On/1s Off)	Swedish Alarm Tone		13	32	35	107	-
21	21	01011	Intermittent	660	1HZ (500ms-500ms)	Swedish Alarm Tone		9	20	23	106	-
22	14	01010	Intermittent	2850	4Hz (150ms On/100ms Off)	Pelican Crossing		12	25	28	106	-
23	14	01001	Sweep	800 to 970	50Hz	Low Frequency Buzz BS5839 Part 1 1988		11	24	26	107	-
24	4	01000	Sweep	2400 to 2850	50Hz	High Frequency Buzz		15	31	34	107	-
25	25	00111	Intermittent	970	500mS On/500mS Off	ISO 8201 Low Frequency		11	25	29	108	-
26	26	00110	Intermittent	2850	500mS On/500mS Off	ISO 8201 High Frequency		12	25	28	107	-
27	27	00101	Continuous	4000	Steady			16	32	39	105	-
28	10	00100	Alternating	800 & 970	2Hz (250ms-250ms)	FP1063.1-Telecom		14	32	36	108	-
29	988Hz	00011	Alternating	990 & 650	2Hz (250ms-250ms)(Symphoni tones)	Symphoni Tones		11	23	26	106	105
30	510Hz	00010	Alternating	510 & 610	2Hz (250ms-250ms)(Squashni Micro tones)	Squashni Micro		14	34	37	108	105
31	31	00001	Sweep	300 to 1200	1Hz			16	41	44	109	-
32	27	00000	Alternating	510 & 610	1Hz (500ms-500ms)			14	34	38	108	-

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 not verified by a Notified body.
Note (d): Detailed EN54-3 polar SPL measurements are available in the Product Manual M04-005.
Note (e): All measurements taken at 20oC operating temperature.
Note (f): For measurements at 12V, subtract 6dB off figure at 24V
Note (g): For measurements at 48V, add 1dB onto figure at 24V