ELECTRONIC SOUNDERS

IS-MA1 and IS-MC1

- **Sound output 100dB @ 1m**
- **49 tones**
- **3 stage alarm**
- **Automatically synchronises on multi-sounder systems**
- **IS-MC1 combines IS-MA1 sounder with IS-MB1 beacon**
- **ANZEx and IECEx EExia IIC T4 Intrinsically Safe**
- **Suitable for zones 0,1 &2**
- **IP66**

SPECIFICATIONS

Voltage:	16-28Vdc via zener barrier
Current:	25mA
Sound Output:	100dB @ 1m
Sound Frequency:	49 tones (see tone table on next page)
Protection:	IP66
Temp Rating (°C):	-40 to +60
Dimensions (h x Ø):	IS-MA1 - 99 x 85.5mm
	IS-MC1 – 116 x 85.5mm
Cable Entry:	2 x 20mm knock outs
Construction:	Flame retardant ABS
Weight:	0.4Kg
Approval:	ANZEx IECEx EEx ia IIC T4
Certificate No:	ANZEx 07. 4044X, IECEx SIR 06. 0045X

UNIT MAY BE POWERED BY ANY CERTIFIED ZENER BARRIER WITH OUTPUT PARAMETERS NOT EXCEEDING:

Uo:	28Vdc
Io:	93mA
Po:	0.66W

ORDER CODE

ESS0710AS	IS-MA1 sounder
ESS0730*AS	IS-MC1 sounder/beacon

****SPECIFY COLOUR A = Amber, B = Blue, G = Green, R = Red**

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IS-MA1 and IS-MC1 Tone Table

Stage 1	Frequency Description		Stage 2	Stage 3
Tone 1	340 Hz	Continuous	Tone 2	Tone 5
Tone 2	800/1000Hz @ 0.25 sec	Alternating	Tone 17	Tone 5
Tone 3	500/1200Hz @ 0.3Hz 0.5 sec	Slow Whoop	Tone 2	Tone 5
Tone 4	800/1000Hz @ 1Hz	Sweeping	Tone 6	Tone 5
Tone 5	2400Hz	Continuous	Tone 3	Tone 20
Tone 6	2400/2900Hz @ 7Hz	Sweeping	Tone 7	Tone 5
Tone 7	2400/2900Hz @ 1Hz	Sweeping	Tone 10	Tone 5
Tone 8	500/1200/500Hz @ 0.3Hz	Sweeping	Tone 2	Tone 5
Tone 9	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.		Tone 15	Tone 2
Tone 10	2400/2900Hz @ 2Hz	Alternating	Tone 7	Tone 5
Tone 11	1000Hz @ 1Hz	Intermittent	Tone 2	Tone 5
Tone 12	800/1000Hz @ 0.875Hz	Alternating	Tone 4	Tone 5
Tone 13	2400Hz @ 1Hz	Intermittent	Tone 15	Tone 5
Tone 14	800Hz 0.25sec on, 1 sec off	Intermittent	Tone 4	Tone 5
Tone 15	800Hz	Continuous	Tone 2	Tone 5
Tone 16	660Hz 150mS on, 150mS off	Intermittent	Tone 18	Tone 5
Tone 17	544Hz (100mS)/440Hz (400mS) - NF S 32-001		Tone 2	Tone 27
Tone 18	660Hz 1.8sec on, 1.8sec off	Intermittent	Tone 2	Tone 5
Tone 19	1.4KHz-1.6KHz 1s, 1.6KHz-1.4KHz 0.5s -NFC48-265		Tone 2	Tone 5
Tone 20	660Hz	Continuous	Tone 2	Tone 5
Tone 21	554Hz/440Hz @ 1Hz	Alternating	Tone 2	Tone 5
Tone 22	544Hz @ 0.875 sec.	Intermittent	Tone 2	Tone 5
Tone 23	800Hz @ 2Hz	Intermittent	Tone 6	Tone 5
Tone 24	800/1000Hz @ 50Hz	Sweeping	Tone 29	Tone 5
Tone 25	2400/2900Hz @ 50Hz	Sweeping	Tone 29	Tone 5
Tone 26	Bell		Tone 2	Tone 15
Tone 27	554Hz	Continuous	Tone 26	Tone 5
Tone 28	440Hz	Continuous	Tone 2	Tone 5
Tone 29	800/1000Hz @ 7Hz	Sweeping	Tone 7	Tone 5
Tone 30	300Hz	Continuous	Tone 2	Tone 5
Tone 31	660/1200Hz @ 1Hz	Sweeping	Tone 26	Tone 5
Tone 32	Two tone chime.		Tone 26	Tone 15

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Stage 1	Frequency Description		Stage 2	Stage 3
Tone 33	745Hz @ 1Hz	Intermittent	Tone 2	Tone 5
Tone 34	1000 & 2000Hz @ 0.5 sec	Alternating - Singapore	Tone 38	Tone 45
Tone 35	420Hz @ 0.625 sec	Australian Alert	Tone 36	Tone 5
Tone 36	500-1200Hz 3.75sec /0.25sec.	Australian Evac.	Tone 35	Tone 5
Tone 37	1000Hz	Continuous - PFEER Toxic Gas	Tone 9	Tone 45
Tone 38	2000Hz	Continuous	Tone 34	Tone 45
Tone 39	800Hz 0.25sec on, 1 sec off	Intermittent	Tone 23	Tone 17
Tone 40	544Hz (100mS)/440Hz (400mS) - NF S 32-001		Tone 31	Tone 27
Tone 41	Motor Siren - slow rise to 1200 Hz	Slow rise	Tone 2	Tone 5
Tone 42	Motor Siren - slow rise to 800 Hz	Slow rise	Tone 2	Tone 5
Tone 43	1200 Hz	Continuous	Tone 2	Tone 5
Tone 44	Motor Siren - slow rise to 2400 Hz	Slow rise	Tone 2	Tone 5
Tone 45	1KHz 1s on, 1s off	Intermittent - PFEER Gen. Alarm	Tone 38	Tone 34
Tone 46	1200/500Hz @ 1Hz - DIN / PFEER P.T.A.P.		Tone 47	Tone 37
Tone 47	1KHz 1s on, 1s off	Intermittent - PFEER Gen. Alarm	Tone 46	Tone 37
Tone 48	420Hz @ 0.625 sec	Australian Alert	Tone 49	Tone 5
Tone 49	500-1200Hz 3.75sec /0.25sec.	Australian Evac.	Tone 26	Tone 37