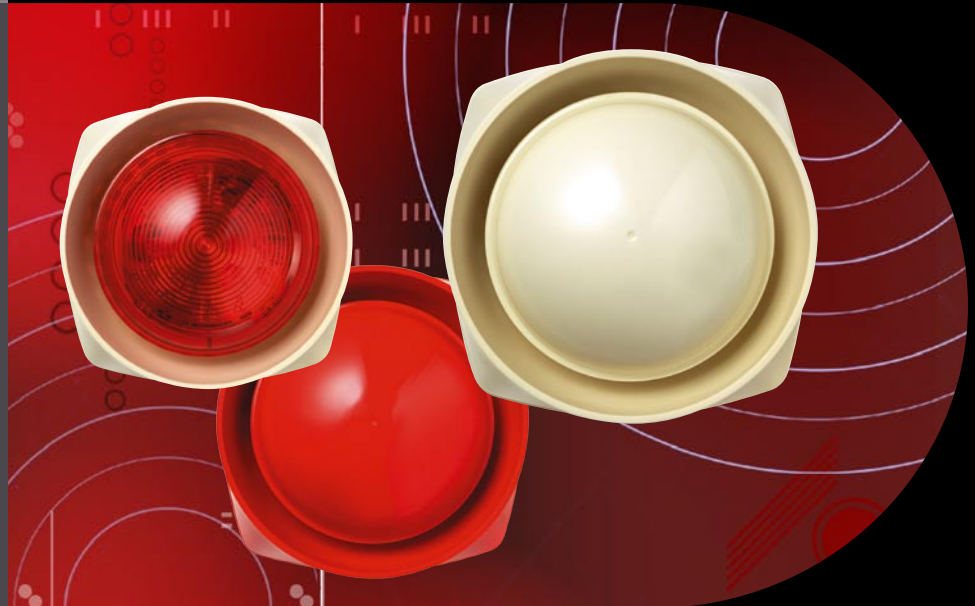




ELECTRONIC SOUNDER AND STROBE RANGE

- Very low power consumption means more sounders and strobes per circuit
- The strobe option is equivalent to a standard 3w xenon beacon and uses 1/20th of the power
- 4 Voice phrases and bell sound are available as standard
- 32 sounder tones are available
- Sounders are compatible with 12V and 24V systems
- A third wire option allows the selection of 2 alternative sounds. Ideal for class change applications
- Combined sounder strobe reduces installation costs



The Electronic Sounder and Strobe range incorporates sound, speech and strobe effects all in one range of alarm devices. The range offers all variants in the choice of 2 colours, red or white, with either a shallow base version sealed to IP31 or a deep base version sealed to IP55. All the low profile sounders have the option of an integral strobe.

ORDER CODES	
IP55 Electronic Sounder Red (100 dBA)	CONV-IP-SN-R
IP55 Electronic Sounder White (100 dBA)	CONV-IP-SN-W
IP31 Electronic Sounder Red (100 dBA)	CONV-SN-R
IP31 Electronic Sounder White (100 dBA)	CONV-SN-W
IP55 Electronic Sounder Strobe Red body red lens 100 dBA	CONV-SN-ST-RR
IP55 Ultra low current Strobe Red body red lens	CONV-IP-ST-RR
IP55 Voice Enhanced Electronic Sounder Red (100 dBA)	CONV-IP-VP-R
IP55 Voice Enhanced Electronic Sounder and Strobe Red Body Red Lens (100 dBA)	CONV-IP-VP-ST-RR

TECHNICAL SPECIFICATION

Type	Sounder	Sounder/Strobe	Strobe Only
Sound Output at 1m	See Tone Table	See Tone Table	N/A
Strobe Flash Rate	See Tone Table	See Tone Table	Variable
Strobe Output	N/A	Equivalent to a 3w Xenon beacon	Equivalent to a 3w Xenon beacon
Average Current	See Tone Table	See Tone Table	6 mA
Operating Voltage Range	10.8V – 28.8V	10.8V – 28.8V	10.8V – 28.8V
Maximum Reverse Monitoring Voltage	30V/20µA	30V/20µA	30V/20µA
Ingress Protection	IP65 with the Deep Base, IP31 with the Shallow Base		
Approx Weight	0.3Kg	0.3Kg	0.3Kg
Operating Temperature	-10°C to 50°C	-10°C to 50°C	-10°C to 50°C
Relevant Standards (Sounder only)	EN54 Part 3	EN54 Part 3	N/A
Approvals	LPCB Pending		

See overleaf for Tone Table.



ELECTRONIC SOUNDER AND STROBE RANGE

TONE TABLE FOR SOUNDER ONLY AND SOUNDER / STROBE VARIANTS

Signal 1	Strobe	Description	SW1 Switch	Graphical representation	12V			24V			Signal 2	Strobe	Signal 3	Strobe
					dB(A) @1m	Operating Current		dB(A) @1m	Operating Current					
						With Strobe mA	Without Strobe mA		With Strobe mA	Without Strobe mA				
Tone 1	1Hz	Alternating tone 800/ 970Hz @ 2Hz - FP 1063.1 Telecoms BS 5839: Part 1			101.8	16.5	7.4	101.8	9.5	3.4	Tone 3	0.5Hz	Tone 6	1Hz
Tone 2	1Hz	Alternating tone 800/ 970Hz @ 1Hz - BS 5839: Part 1			101.7	16.5	7.3	101.7	9.5	3.4	Tone 3	0.5Hz	Tone 6	1Hz
Tone 3	1Hz	Intermittent tone 970Hz @ 1Hz LF back up alarm - BS 5839: Part 1			101.6	15.5	4.5	101.6	8.2	2.0	Tone 5	0.8Hz	Tone 6	1Hz
Tone 4	1Hz	Intermittent tone 2850Hz @ 1Hz HF back up alarm - 2nd tone BS 5839: Part 1			103.7	15.8	5.5	103.7	8.5	2.5	Tone 3	0.5Hz	Tone 6	1Hz
Tone 5	0.8Hz	Intermittent tone 970Hz 0.25s - on, 1s off - BS 5839: Part 1			101.2	12.0	2.0	101.4	6.0	1.0	Tone 2	0.5Hz	Tone 6	1Hz
Tone 6	1Hz	Continuous @ 970Hz - BS 5839: Part 1			102.0	16.5	8.0	102.1	9.8	3.7	Tone 3	0.5Hz	Tone 1	1Hz
Tone 7	0.5Hz	Slow sweep 300Hz- 1200Hz over 2s - Vds2300 Signal			99.3	13.0	7.9	99.3	7.0	3.7	Tone 3	0.5Hz	Tone 6	1Hz
Tone 8	1Hz	Fast sweep 800Hz - 970Hz @ 7Hz - BS 5839: Part 1			93.5	16.3	8.2	93.7	9.4	3.7	Tone 3	0.5Hz	Tone 6	1Hz
Tone 9	1Hz	Medium sweep 800Hz - 970Hz @ 1Hz - BS 5839: Part 1			94.1	16.5	8.7	94.3	9.5	4.0	Tone 3	0.5Hz	Tone 6	1Hz
Tone 10	1Hz	Continuous @ 2850Hz			104.4	16.5	9.7	104.7	10.2	4.4	Tone 3	0.5Hz	Tone 6	1Hz
Tone 11	1Hz	Sweep 2400 - 2850Hz @ 7Hz			100.2	16.5	11.2	100.8	10.6	5.4	Tone 12	0.5Hz	Tone 10	1Hz
Tone 12	1Hz	Sweep 2400 - 2850Hz @ 1Hz			101.9	16.5	12.0	102.7	11.5	5.8	Tone 3	0.5Hz	Tone 10	1Hz
Tone 13	0.86Hz	Slow whoop 500Hz - 1200Hz over 3s with 0.5s off			98.8	15.5	7.5	99.2	8.7	3.5	Tone 3	0.5Hz	Tone 6	1Hz
Tone 14	1Hz	Sweep 1200Hz @ 1200Hz - 500Hz @ 1Hz with 10ms silence - German DIN tone evacuate			96.6	16.2	7.3	98.1	9.5	3.5	Tone 3	0.5Hz	Tone 6	1Hz
Tone 15	1Hz	Alternating tone 2400/ 2850Hz @ 2Hz			101.7	16.5	12.0	102.5	11.8	6.2	Tone 12	0.5Hz	Tone 10	1Hz
Tone 16	1Hz	Alternating tone 554Hz for 100ms then 440Hz for 400ms - French AFNOR tone			89.3	15.8	5.2	89.6	8.7	2.5	Tone 3	0.5Hz	Tone 6	1Hz
Tone 17	1Hz	Alternating tone 440Hz / 554Hz @ 2Hz - Turn out Sweden			90.1	15.8	5.7	90.3	8.9	2.8	Tone 19	0.5Hz	Tone 18	1Hz
Tone 18	1Hz	Continuous 700Hz - All clear Sweden			95.9	16.2	7.0	96.3	9.8	3.3	Tone 1	0.5Hz	Tone 3	1Hz
Tone 19	1Hz 6s - On 12s - Off	Intermittent tone 700Hz 6s On 12s Off - Pre- vital message Sweden			95.9	6.1	4.0	96.3	5.0	2.3	Tone 17	0.5Hz	Tone 18	1Hz
Tone 20	1Hz	Intermittent tone 1000Hz @ 1Hz - Local warning Sweden			100.6	15.5	5.8	101.0	8.5	2.7	Tone 17	0.5Hz	Tone 25	1Hz
Tone 21	1Hz	Rising 1s, constant 4s, fall 1s @ 1000Hz - Industrial alarm Germany			100.9	16.0	10.0	101.2	10.0	4.0	Tone 3	0.5Hz	Tone 6	1Hz
Tone 22	1Hz 4s - On 4s - Off	Intermittent tone 700Hz 4s On, 4s Off - Industrial alarm Germany			101.4	8.7	5.7	101.9	6.4	3.0	Tone 19	0.5Hz 6s - On 12s - Off	Tone 6	1Hz
Tone 23	Sync. pulses	Emergency evacuation to ISO 8201 - ISO 8201 Tone			104.0	12.0	4.0	104.5	6.0	1.5	Tone 3	0.5Hz	Tone 6	1Hz
Tone 24	1Hz	Slow whoop 500Hz - 1000Hz over 4.5s - Evacuate Netherlands			99.6	16.0	7.2	100.2	9.5	3.4	Tone 3	0.5Hz	Tone 6	1Hz
Tone 25	1Hz	Siren (ramp up from 500Hz - 1200Hz in 3s then ramp down 1200Hz - 500Hz in 3s)			98.2	16.0	7.5	98.5	9.5	3.5	Tone 3	0.5Hz	Tone 6	1Hz
Tone 26	1Hz	Fast whoop 500Hz - 1000Hz @ 7Hz			95.8	15.8	7.0	96.0	8.7	3.3	Tone 24	0.5Hz	Tone 25	1Hz
Tone 27	Sync. pulses	US temporal tone LF			100.6	12.0	3.0	100.6	5.5	1.0	Tone 3	0.5Hz	Tone 6	1Hz
Tone 28	Sync. pulses	US temporal tone HF			99.0	11.8	2.5	99.0	5.3	0.8	Tone 4	0.5Hz	Tone 6	1Hz
Tone 29	1Hz	LF buzz 800Hz- 970Hz @ 50Hz			98.8	16.3	9.4	99.2	10.0	4.3	Tone 3	0.5Hz	Tone 6	1Hz
Tone 30	1Hz	Alternate 2500/ 3100 @ 2Hz - Security alarm			101.6	16.5	13.0	102.2	10.8	6.4	Tone 3	0.5Hz	Tone 31	1Hz
Tone 31	1Hz	Alternate 2500 / 3100 @ 4Hz			101.2	16.5	13.0	102.0	10.8	6.4	Tone 3	0.5Hz	Tone 8	1Hz
Tone 32	1Hz	Define during manufacture - default is a fast siren			98.8	16.0	7.5	99.2	9.5	3.5	Tone 3	0.5Hz	Tone 6	1Hz

The current data in the table is for Red strobe only.

Note also the nominal sound frequencies stated in the table are based on the resonance frequency of the transducer.