



AUER - ELECTRONIC MULTI-SIREN ES1-ES2

ES1/ES2 series

C110620005

Beacon Siren Multitone 24v DC ES1

- 32 selectable tones
- IP65
- 86–106 dB



Product description

ES1/ES2 is a cost effective siren with 32 selectable tones. The volume and tone selection are set by dip-switches. IP 65 makes it suitable for mounting both indoors and outdoors.

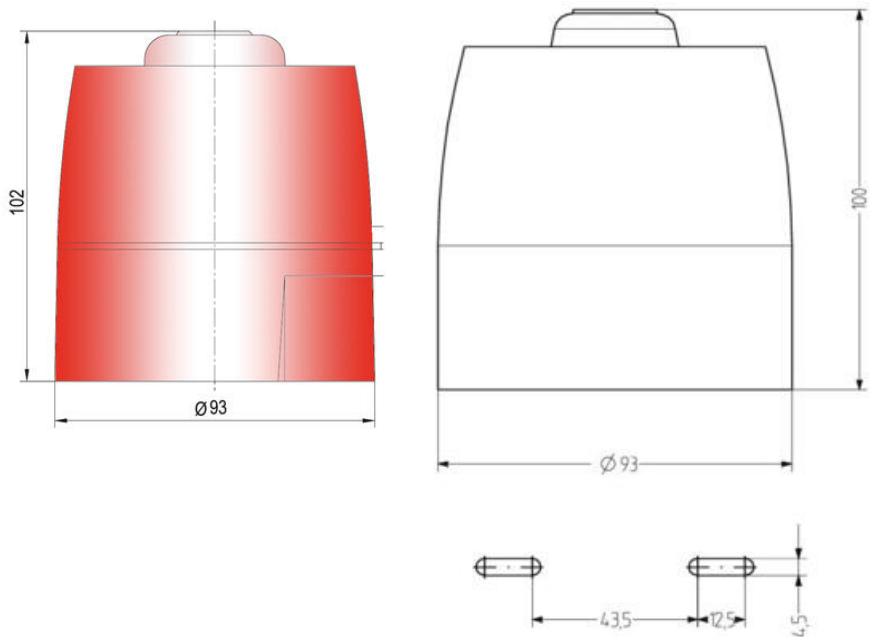
Specifications

Color House	Red RAL 3000
Diameter	93
IP Class	IP65
Mounting	None
Nominal current max	0.035
Nominal current min	0.006
Number of tones	32
Sound control	Yes
Sound level max	106
Sound level min	86
Supply Voltage DC Max	24
Supply Voltage DC Min	24
Temperature range from	-20
Temperature range to	70
Terminal connection	2.5
Tone frequency max	2900

The sound pressure decreases by 6 dB when doubling the distance, the following distance table is to be seen as indication, as also factors like tone type, wind speed, wind direction, humidity, weather conditions etc. do influence the sound pressure level.

Distance (m)	Sound pressure dB (A)																				
1	65	70	75	80	85	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120
2	59	64	69	74	79	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114
3	55	60	65	70	75	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110
5	51	56	61	66	71	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106
10	45	50	55	60	65	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100
20	39	44	49	54	59	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94
30	35	40	45	50	55	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90
50	30	35	40	45	50	55	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86
100		25	30	35	40	45	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76
200			20	25	30	35	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66
500				15	20	25	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56

The sound pressure decreases by 6 dB when doubling the distance



Tone table

ES1

No.	Sound	Description	SNR	2nd stage alarm Hz
1	LF average	800-1000 Hz @ 0.5 v	9900	800 count
2	ultra-low noise	800-900 Hz @ 0.1 Hz	9900	800 count
3	middle tone	800-1000 Hz @ 0.5 v	1000	800 count
4	ultra-low noise	500-600 Hz @ 2 Hz	9900	800 count
5	LF back up interrupted tone	2-800 Hz @ 0.5 v cut-off	1000	2-800 count
6	LF back up alarm	800 Hz @ 900 Hz cut-off	1000	800 count
7	HF back up interrupted tone, fast	2-800 Hz @ 900 Hz cut-off	1000	800 count
8	LF continuous tone B00000	800 Hz count	9900	alarm tone
9	average tone	800-900 Hz @ 0.1 Hz	9900	800 count
10	Acoustic alarm alarm	interrupted tone 970 Hz @ 0.25 Hz cut-off	1000	3.75 v on 1000-1000
11	Double average tone	970 Hz count	1000	0.5 v on 0.5 v off
12	interrupted average tone	500-900 Hz @ 2 Hz	10000	900 count
13	average tone	800-900 Hz @ 0.1 Hz	1000	800 count
14	ultra-low noise alarm	2-3000-900 Hz @ 1 Hz	10000	2-400 count
15	fast HF average	2-1000-2-800 Hz @ 0.1 Hz	10000	2-400 count
16	LF interrupted pattern LF	800 Hz @ 0.5 v cut-off, 0.5 v off, 0.5 v on, repeat	100000	800 count
17	interrupted tone B0 B00000	800 Hz @ 0.5 v cut-off	0000	800 count
18	B00000 LF B00000 Hz 10000	interrupted tone 970 Hz @ 0.5 v cut-off	0000	alarm tone
19	interrupted tone, medium	1000 Hz @ 0.25 v cut-off	0000	800 count
20	B00000 HF	970 Hz @ 0.5 v cut-off	0000	alarm tone
21	middle tone	900 Hz	0000	alarm tone
22	LF back	600-900 Hz average @ 10 Hz	0000	800 count
23	HF continuous	2-800 Hz	00000	2-800 count
24	average tone	800-900 Hz @ 0.1 Hz	00000	800 count
25	Carrier DR tone	average 1-800-900 Hz @ 1 Hz	0000	800 count
26	Beep tone (no signal)	interrupted 840 Hz @ 900 Hz cut-off	0000	alarm tone
27	French tone B00000	500 Hz @ 100 Hz and 140 Hz @ 100 Hz	0000	800 count
28	Beep tone (no signal)	continuous 800 Hz	00000	alarm tone
29	US interrupted pattern HF	2-900 Hz @ 0.5 v cut-off, 0.5 v on, repeat	0000	2-900 count
30	Event 2-ringing, short	900-1000 Hz rising then falling 0.25 v	00000	800 count
31	LF B00000 B00000	interrupted tone 800-900 Hz @ 0.1 Hz	00000	800 count
32	Event 2-ringing, long	900-1000 Hz @ 0.5 v average @ 1 Hz rising	000000	800 count

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20	39	44	49	54	59	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94
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