

NO.	Tones	Code 12345	EBE9-S		EBE9-BSR			EBE9-BSW		
			Output (dB)*1	Current (mA)	Output (dB)*1	Current (mA)		Output (dB)*1	Current (mA)	
						0.5Hz	1Hz		0.5Hz	1Hz
1	Alternating Tones 800/970 Hz at 2Hz	11111	88~99	14	91~98	30	43.5	91~98	32	45
2	Sweeping 800/970 Hz at 7Hz	11110	88~97	12	90~98	30	43.5	90~98	32.5	46
3	Sweeping 800/970 Hz at 1Hz	11101	91~99	13	92~99	30	43.5	92~99	41.5	59
4	Continuous at 2850Hz	11100	102~109	35	102~106	51	69.5	102~106	51.5	68.5
5	Sweeping 2400-2850 Hz at 7Hz	11011	100~107	25	101~105	43.5	57.5	101~105	46.5	59
6	Sweeping 2400-2850 Hz at 1Hz	11010	102~109	35	103~108	46.5	65.5	103~108	53.5	66
7	Slow Whoop	11001	90~100	12	91~99	30	44	91~99	42.5	59
8	Sweep 1200-500 Hz at 1Hz	11000	91~98	13	92~98	31	44.5	92~98	41	59
9	Alternating Tones 2400/2850 Hz at 2 Hz	10111	101~109	37	101~106	46	59.5	101~106	46.5	59
10	Intermittent Tones of 970Hz at 1Hz	10110	91~99	15	91~98	32	45	91~98	34	46.5
11	Alternating Tones 800/970 Hz at 1Hz	10101	91~99	15	91~98	32	45	91~98	41.5	59
12	Intermittent Tones of 2850Hz at 1Hz	10100	101~109	38	102~107	51	65	102~107	55.5	64
13	970Hz at 1/4 sec. on, 1 sec. off	10011	90~99	15	93~98	30.5	43.5	93~98	32.5	44
14	Continuous at 970Hz	10010	90~99	16	92~98	32.5	45.5	92~98	35	48
15	554Hz for 100ns and 440Hz for 400ms	10001	82~88	10	85~89	29	42	85~89	39	56.5
16	Intermittent 660Hz 150ms on / 150ms off	10000	84~90t	13	86~91	29	32.5	86~91	40.5	57.5

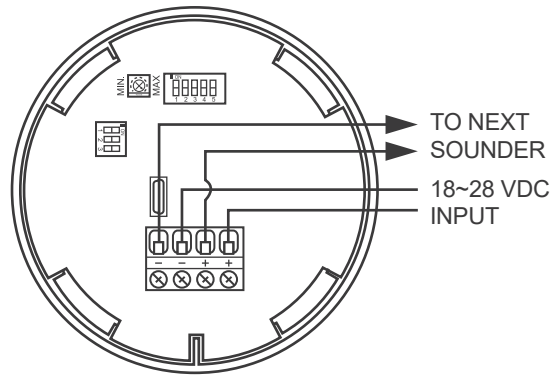
NO.	Tones	Code 12345	EBE9-S		EBE9-BSR			EBE9-BSW		
			Output (dB)*1	Current (mA)	Output (dB)*1	Current (mA)		Output (dB)*1	Current (mA)	
						0.5Hz	1Hz		0.5Hz	1Hz
17	Intermittent 600Hz 1.8sec. on / 1.8sec. off	01111	84~90	12	87~91	29	41	87~91	31	43.5
18	intermittent 600Hz 6.5sec. on / 13 sec. off	01110	84~90	12	87~91	29	42.5	87~91	32	44
19	Continuous 660Hz	01101	84~90	12	87~91	29	42.5	87~91	40.5	58
20	Alternating 554/440 Hz at 1Hz	01100	82~88	10.5	85~90	29	42	85~90	40.5	57.5
21	Intermittent 660Hz at 1Hz	01011	84~90	12.5	87~91	29	42.5	87~91	31.5	44
22	Intermittent 2850Hz 150ms on /100ms off	01010	101~111	35.5	102~106	47.5	62	102~106	47	60.5
23	Sweep 800-970 Hz at 50Hz	01001	88~95	13.5	89~97	31	44.5	89~97	46	59.5
24	Sweep 2400-2850 Hz at 50Hz	01000	99~106	30.5	99~104	46	59.5	99~104	59.5	76.5
25	Intermittent 970Hz 500ms on /500ms off	00111	90~99	15.5	93~98	32	46	93~98	35	47
26	Intermittent 2850Hz 500ms on/500ms off	00110	101~111	37.5	102~108	52.5	65.5	102~108	55	63.5
27	Continuous at 4kHz	00101	88~96	21.5	94~99	37	51.5	94~99	48	65.5
28	Intermittent 400Hz 500ms on/500ms off	00100	81~89	11	81~92	28.5	41.5	81~92	40	57
29	Intermittent 400Hz 500ms on/250ms off	00011	85~88	16.5	88~92	31.5	45	88~92	35	47.5
30	Sweeping 320/480 Hz at 40Hz	00010	82~89	11	84~89	28	42	84~89	31	43.5
31	Intermittent 2kHz 200ms on/500ms off	00001	93~96	20	88~96	37	51.5	88~96	49.5	68.5
32	off	00000								

Tone 1) Alternating Tones, 800/970Hz @ 2Hz \*Only Tone1 and Tone2 are BSI approved.

\*1: Typical Sound Output 24V at 1m. Min. Sound pressure level for all tones exceeds 79dB(A)

**Test Distance 3m MAX. 24V DC**

Angle	EBE9-S		EBE9-BSR		EBE9-BSW	
	H	V	H	V	H	V
15°	69.8	73.8	67.1	73.0	67.1	73.0
45°	77.8	71.5	73.4	68.8	73.4	68.8
75°	82.5	84.5	79.2	80.3	79.2	80.3
105°	82.0	82.3	78.1	78.2	78.1	78.2
135°	84.1	82.1	78.6	78.4	78.6	78.4
165°	73.0	70.0	69.3	68.9	69.3	68.9



Ingress Protection : IP65

Tone 2) Sweeping Tones, 800/970Hz @ 7Hz  
Test Distance 3m

**Operational Performance Max. 24V DC**

Angle	EBE9-S		EBE9-BSR		EBE9-BSW	
	H	V	H	V	H	V
15°	72.6	72.7	68.4	71.6	67.1	73.0
45°	79.7	77.7	75.8	73.4	73.4	68.8
75°	80.1	81.5	76.3	77.1	79.2	80.3
105°	83.9	81.0	78.1	76.6	78.1	78.2
135°	81.4	78.9	76.3	76.4	78.6	78.4
165°	69.5	69.7	66.5	67.7	69.3	68.9

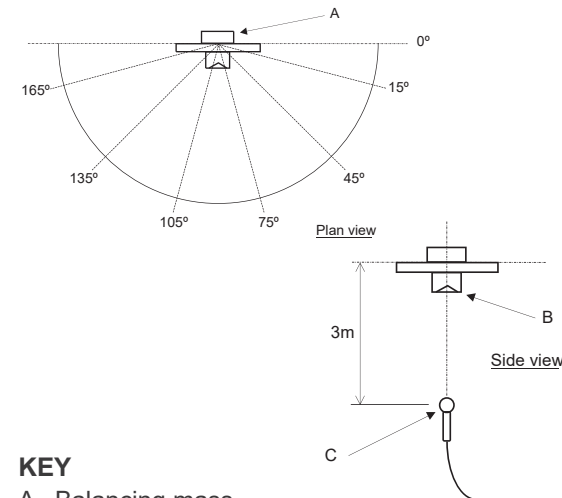
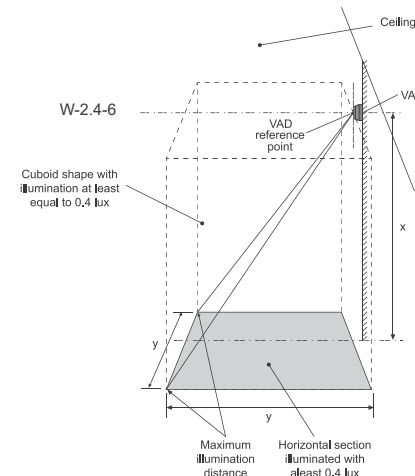


**Sound Output Level**

MIN. MAX turn it clockwise to increase the volume, And vice versa.

**EN 54-23 Requirements for visualalarm devices**

**EN 54-3 Measurement positions -Surface mounted devices**



**KEY**

- A Balancing mass
- B Alarm device - sounder
- C Sound level meter

NOTE : Alarm device may be rotated 90° to carry out measurements in the vertical plane.

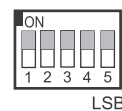
**WALL-MOUNTED VADS**

W-x-y

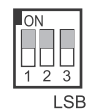
W = Wall-mounted devices

x = Stands for the maximum mounting height on the wall.

y = Specifies the square area.



Sound Output Tone:  
Switch to "ON" is "0",  
to numeric is "1".



Flash light Output:  
Switch to "ON" is "0",  
to numeric is "1".

DIP SWITCH 1 2 3	Flash light Type	EN54-23	
		EBE9-BSR	EBE9-BSW
1 1 1	0.5Hz (Flash frequency)	W-2.4-6	W-2.4-6
0 1 1	1Hz (Flash frequency)	W-2.4-6	W-2.4-6
1 0 1	High brightness 0.5Hz (Flash frequency) (No such function)	-	-
0 0 1	High brightness 1Hz (Flash frequency) (No such function)	-	-
1 1 0	OFF		
0 1 0			
1 0 0			
0 0 0			