



# Sounder EV 21 and EV 24

# Compact, all-purpose signalling device for indoor and outdoor use

- ≥ 21 different signal tones, adjustable
- ► Emergency signal acc. to DIN 33404/3
- Volume: approx. 105 dB(A)
- For DC and AC voltage supplies
- Version with tamper contact for security systems
- ≥ 24 VDC with ≤ 500 mA inrush-current limitation for use with PLC
- Type EV 24 for extended temperature range -50°C to +60°C

## **Application**

The EV 21 (EV 24) signalling device is an electronic sounder for indoor and outdoor use. Thanks to its sturdy construction, the device can even be used in difficult environmental conditions. It generates 21 different signal tones digitally. The signal tones are set by the user. The signals are grouped in threes and can either be set individually in the device or adjusted and controlled externally via potential-free contacts.

#### **Design**

The device is a very compact unit comprising power supply, microprocessor, amplifier and loudspeaker. The housing is made of seawater-proof cast aluminium and coated in plastic. The loudspeaker is made of impact and cold-resistant plastic and is mounted firmly on the housing.

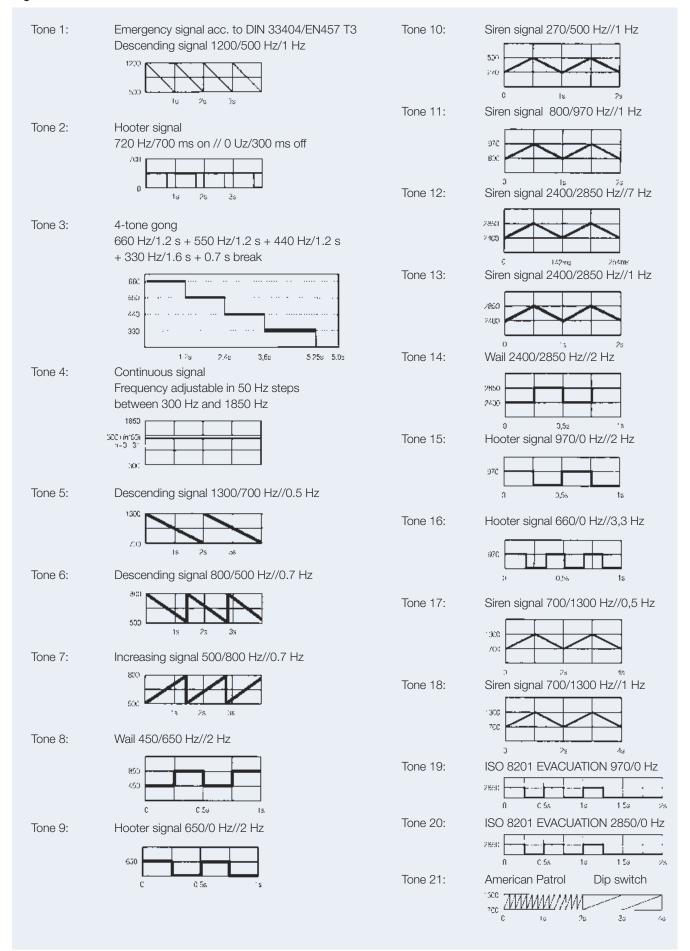
#### Emergency equipment on a car park deck

The EV 21 (EV 24) generates 21 different signal tones digitally.



## Sounder EV 21 (EV 24)

#### **Signals**



# Sounder EV 21 (EV 24)

	Dip switch: 1–4	A - B Selection 1	B - C Selection 2	A B C Selection 3
0	ON	Tone 1	Tone 2	Tone 3
1	ON	Tone 1	Tone 2	Tone 4
2	ON	Tone 1	Tone 2	Tone 5
3	ON	Tone 1	Tone 3	Tone 4
4	ON	Tone 1	Tone 3	Tone 5
5	ON	Tone 1	Tone 4	Tone 5
6	ON	Tone 2	Tone 3	Tone 4
7	ON	Tone 2	Tone 3	Tone 5

	Dip switch: 1–4	A - B Selection 1	B - C Selection 2	A B C Selection 3	
8	Oh 	Tone 2	Tone 4	Tone 5	
9	ON	Tone 3	Tone 4	Tone 5	
10	ON	Tone 1	Tone 2	Tone 6–21 Selection with S5-S9	
11	0N	Tone 1	Tone 3	Tone 6–21 Selection with S5-S9	
12	ON	Tone 1	Tone 6–21 Selection with S5-S9	Tone 5	
13	ON	Tone 2	Tone 3	Tone 6-21 Selection with S5-S9	
14	ON	Tone 2	Tone 6–21 Selection with S5-S9	Tone 5	
15	ON	Tone 3	Tone 6–21 Selection with S5-S9	Tone 5	

	Dip switch: 5–9	Tone	Continuous signal (Ton 4)
1		Tone 6	300 Hz
2		Tone 7	350 Hz
3		Tone 8	400 Hz
4		Tone 9	450 Hz
5		Tone 10	500 Hz
6	( <u>* * * * * *</u> )	Tone 11	550 Hz
7		Tone 12	600 Hz
8		Tone 13	650 Hz
9		Tone 14	700 Hz
10		Tone 15	750 Hz
11		Tone 16	800 Hz
12		Tone 17	850 Hz
13		Tone 18	900 Hz
14		Tone 19	950 Hz
15		Tone 20	1000 Hz
16		Tone 21	1050 Hz

	Dip switch: 5–9	Tone	Continuous signal (Ton 4)
17		Tone 6	1100 Hz
18		Tone 7	1150 Hz
19		Tone 8	1200 Hz
20		Tone 9	1250 Hz
21		Tone 10	1300 Hz
22		Tone 11	1350 Hz
23		Tone 12	1400 Hz
24		Tone 13	1450 Hz
25		Tone 14	1500 Hz
26		Tone 15	1550 Hz
27		Tone 16	1600 Hz
28		Tone 17	1650 Hz
29	( <b>5 5 6 8</b> )	Tone 18	1700 Hz
30		Tone 19	1750 Hz
31		Tone 20	1800 Hz
32	(55055)	Tone 21	1850 Hz

#### **Technical specifications**

Housing Seawater-proof aluminium

Colour Light grey IP 54 (IEC 529) Protection degree

Protection class

Cable gland 1x M20 x 1.5

(second cable gland is retrofittable)

Connection terminals Cross section: 2.5 mm<sup>2</sup> single wire

1.5 mm<sup>2</sup> fine wire

Operating conditions Indoors and outdoors

Operating position Preferably horizontal, cable gland downwards

Operating mode Continuous

Volume Max. 105 dB(A), 1 m

> (Regarding volume specifications, please see the chapter "Technical Informations".)

Loudspeaker Dynamic pressure-chamber loudspeaker,

impact-resistant plastic (ABS); firmly mounted

on the housing

Signals 21 tones adjustable by switch

> Selection of 3 tones, also adjustable externally Tone 1 Emergency signal acc. to DIN 33404 Tone 2 Hooter signal Factory setting

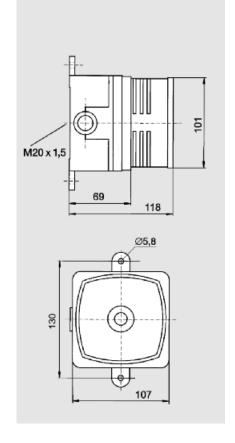
Tone 3 4-tone gong

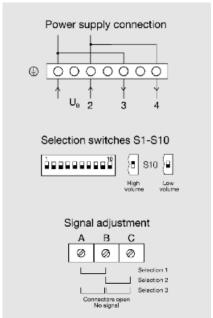
Temperature range Operation

Storage

EV 21 EV 24 -25°C to +60°C -50°C to +60°C -30°C to +70°C -50°C to +70°C

Weight Approx. 1.7 kg





#### **Order information**

Туре	Name	Rated voltage U <sub>B</sub>		Operating voltage range U <sub>B</sub>	Current consumption	Fuse 5x20	Article no.
EV 21	Sounder	12/24 VAC/[	OC	10 – 25 V	0.16 A	T 1.25 / 250 C	215 612 01
EV 21 D	Sounder	12/24 VAC/[	OC	10 – 25 V	0.16 A	T 1.25 / 250 C	215 612 10
EV 21	Sounder	110 VAC	50 – 60 Hz	+15/-15 %	0.06 A	M 0.1 / 250 C	215 612 02
EV 21	Sounder	230 VAC	50 – 60 Hz	+10/-15 %	0.03 A	M 0.1 / 250 C	215 612 03
EV 24	Sounder	12/24 VAC/[	OC	10 – 30 V	0.16 A	T 1.25 / 250 C	215 613 01
EV 24	Sounder	230 VAC	50 – 60 Hz	+10/-15%	0.03 A	M 0.1 / 250 C	215 613 03
T = time lag / M = medium time lag					notice - Printout 12/10		



Subject to change without notice · Printout 12/10

