

# Varioton Sounder EV 11 L

**Loud signalling device for calling,  
warning and voice transmissions**



- ▶ 7 signalling tones
- ▶ 3-tone gong
- ▶ Voice transmission
- ▶ External switching of tones and voice (remote selection)
- ▶ Sound pressure level: 118 dB(A), adjustable
- ▶ Separately adjustable gong
- ▶ Plastic housing
- ▶ Turnable loudspeaker
- ▶ Simple installation

## Application

The Varioton EV 11 L is a high-volume compact signal generator with good directional effect. The chosen materials and the construction of the device enable outdoor use – even in the case of adverse ambient conditions.

The operator may choose between 7 different signalling tones, a 3-tone gong, and voice transmission. Make the adjustment at the device or externally via potential-free contacts.

Upon remote selection the device is continuously connected to supply voltage. The distance between the selector switch and an EV 11 L depends on the cross-section and the quality of the control wire (see Technical Data).

## Design

The device consists of a power supply, a tone generator, an amplifier and a sound converter. The housing consists of plastic.

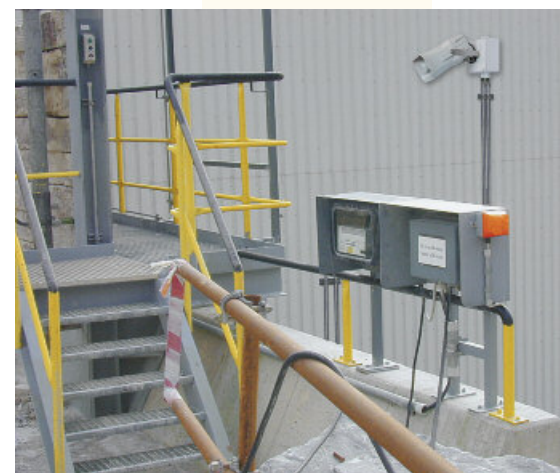
All outer screws and the loudspeaker bracket are made of stainless steel.

The electronics inside the IP66 housing has been especially treated to withstand humidity.

The signalling device is very installation friendly. To connect power, open lid widely or remove completely. The horn loudspeaker may be turned and swung.

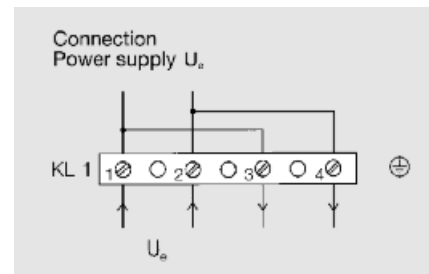
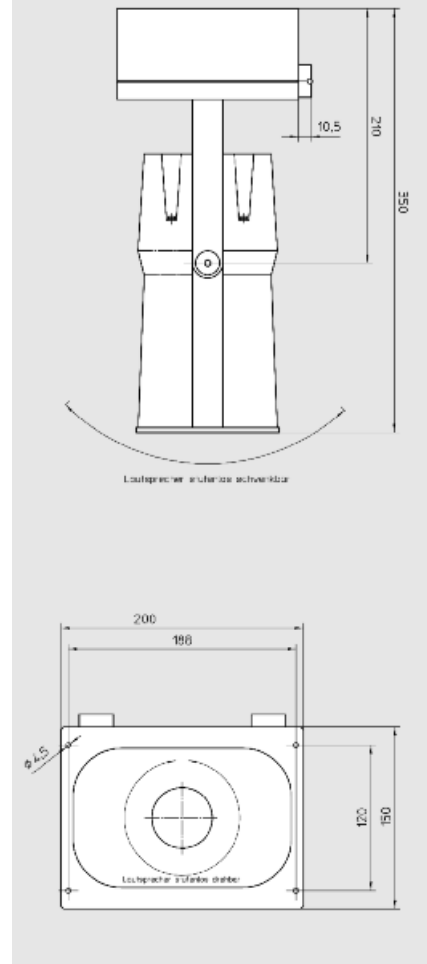
**All-purpose  
signalling device  
for outdoor use  
in a limestone  
works**

The materials used and the design of the device allow it to be used outdoors – even in difficult environmental conditions.



## Technical specifications

Housing	Plastic
Colour	Grey
Protection degree	IP 66 (IEC 529)
Protection class	II
Cable gland	2x M20 x 1.5
Connection terminals	Cross section: 2.5 mm <sup>2</sup> single wire, 1.5 mm <sup>2</sup> fine wire The double terminals allow looping through to other devices.
Operating conditions	Indoors and outdoors
Operating position	Housing vertical, cable gland downwards
Operating mode	Continuous
Volume	Max. 118 dB(A), 1 m (Regarding volume specifications, please see the chapter "Technical Informations".)
Loudspeaker	Dynamic pressure-chamber loudspeaker, weatherproof, rotatable and traversable
Control cable	Max. permissible loop resistance of the control cable: 500 Ω Permissible noise voltage: < 5 V
Temperature range	
Operation	-25°C to +50°C
Storage	-30°C to +70°C
Weight	Approx. 3.2 kg



## Order information

Type	Name	Rated voltage U <sub>n</sub>	Operation voltage range U <sub>e</sub>	Current consumption	Fuse 5 x 20	Article no.
EV 11 L	Varioton Sounder	230 VAC 50 - 60 Hz	+6/-10 %	0.1 A	0.63 AT (time lag)	215 609 0710
EV 11 L	Varioton Sounder	24 VAC / VDC	+/-15 % / 19 - 32 V	0.9 A / 0.6 A	1.60 AT (time lag)	215 609 0710

### Accessories

PM 660	Desktop microphone with PTT (Push to talk) key					122 640 01
RU 2001	Pre-amplifier					122 640 02

\* other voltages on request

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## Connections

The EV 11 L signalling device can be activated by switching on the power supply or via a control cable. If it is wanted that the sounder emits only one signal and be switched on via the power supply, the corresponding bridge in the device must be placed between terminal 5.1 and the terminal for the desired signal (terminal 4.1 =“chime” to terminal 4.8 =“continuous signal”). When the power supply is switched on, the desired signal is emitted as long as the power supply is on.

If it is wanted that the signals be remote controllable, a corresponding multiwire control cable must be connected to terminals 4.1 through 5.2.

Activation of a signal requires connection of terminal 5.1 (supplies the control voltage of approx. 12 V) to the corresponding signal terminal via a potential-free contact. In this case the power supply to the signalling device must be continuously on.

The power supply is to be connected to the terminals 1.1 and 1.2. When using direct current, attention must be paid to correct polarity (+ to terminal 1.2). The protective earth conductor  $\oplus$  must be connected to the relevant terminal.

## Adjustments

### Volume

The volume of all signals is adjusted with potentiometer P2.

### Chime

The volume of the chime can be adjusted with potentiometer P5.

### Speech input level

The gain of the speech input amplifier is adjusted with potentiometer P6. In its most sensitive position full volume is reached with an input level of 100 mV. In its least sensitive position, the level required is 1 V.

The LF input has an input resistance of approx. 5 k $\Omega$ .









### Pitch

The pitch of the continuous signal (switched on with terminal 4.8) can be adjusted with potentiometer P4.

### Repetition rates

The cycle times for the siren signal (terminal 4.7) and wail (terminal 4.5) can be adjusted between 2.5 s and 200 ms (= 0.4 to 5 Hz) with potentiometer P3.

## Signals

Type	Signal	Signal
Emerg. signal DIN 33404/3		1200/500 Hz Rate 1 Hz
Descending signal		800/500 Rate 0.7 Hz
Increasing signal		500/800 Hz Rate 0.7 Hz
Wail		450/650 Hz Rate 0.4...5 Hz
Hooter signal		720/0 Hz Rate 0.7 s on, 0.3 s off
Siren signal		270/550 Hz Rate 0.4...5 Hz
Contin. signal		300...1000 Hz
3-tone chime		660/550/440 Hz

## Voice transmissions (PA)

In order to use the EV 11 L signalling device for voice transmissions (public address), the LF line must be connected to terminals 2.1 and 2.2. This line has to be shielded to prevent interference.

If the control line is connected from terminal 5.1 to terminal 5.2 for voice transmission via a potential-free contact, the speech amplifier is activated (when the power supply is on) and the voice transmission is distributed by the loudspeaker. The corresponding LF-signal is generated by the microphone and driven by a pre-amplifier into the LF-input of the EV 11 L sounder. Microphone and pre-amplifier are also contained in our product portfolio.

