

DS 10 Sounders

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Invented for life



- ▶ Very robust housing made of 4 mm pressure-molded aluminum
- ▶ Compact and maintenance-free
- ▶ Great reliability and long lifespan
- ▶ Can be used in adverse environmental conditions
- ▶ Reverse polarity protected connections

The DS 10 sounders are acoustic signaling devices for connection to fire panels, available for operating voltage 230 V AC or 24 V DC.

Functions

The DS 10 sounders have an integrated tone generator with a selection of 6 sound variants, including DIN tones conforming to EN 457 (DIN 33404).

Depending on the tone type, volume set, and operating voltage, the sound pressure level varies between 105 dB(A) and 110 dB(A).

The programming/coding is undertaken via DIP switches in the signaling device.

The DS 10 sounders can be used as a monitored and non-monitored signaling devices.

Certifications and approvals

VdS ID number: **G 28 609**
CE DS 10
EN54-3: 2006

Region	Certification	
Europe	CE	DS 10
Germany	VdS	G 28609 DS 10
Europe	CPD	0786-CPD-20005 DS10

Installation/configuration notes

- For surface-mounted cable feed
- Can be connected to the following fire panels:
 - BZ 1012
 - BZ 1060
 - BZ 500 LSN
 - UEZ 1000 LSN
 - UEZ 2000 LSN
 - UGM 2020.
- The DS 10 sounders can be directly connected to monitored control lines.

Tone type table

No	Signal shape	Frequency
1	DIN tone (increasing/decreasing tone)	1200-500 Hz
2	Variable tone	825/1075 Hz

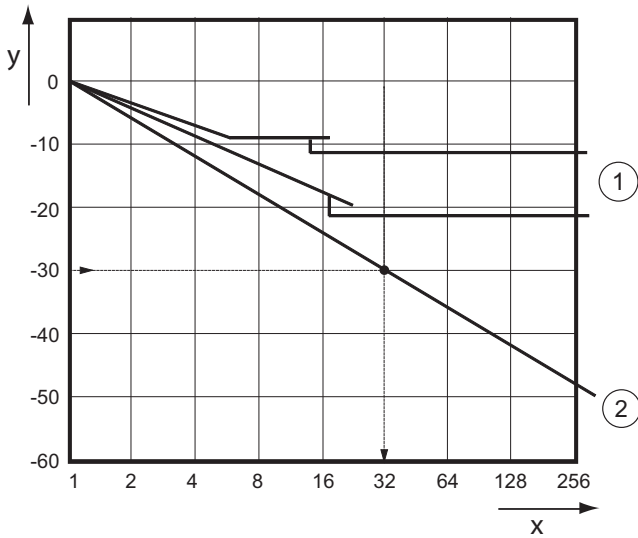
3	Pulse tone 1	825 Hz
4	Pulse tone 2	500 Hz
5	Continuous tone 1	825 Hz
6	Continuous tone 2	500 Hz

**Calculation example:
Number of signaling devices used:**

Maximum DS 10 sound pressure level: **110 dB**
 less 10 dB for unique audibility: **-10 dB**
 less environmental sound level: **-70 dB**

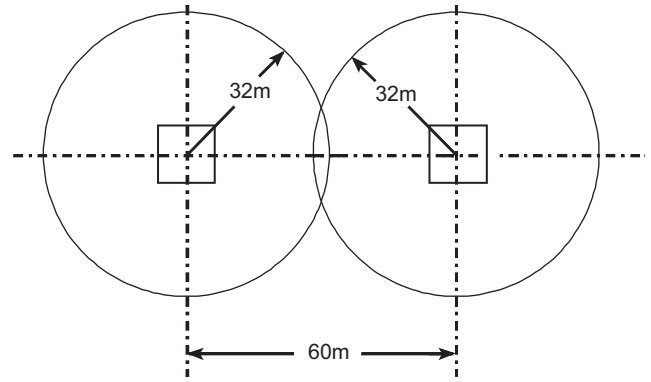
 Attenuation through distance from siren: **30 dB**

Diagram: Sound Pressure Level Drop



Pos.	Description
x	Distance from loudspeaker (m)
y	Sound pressure level decrease (dB)
1	Sound pressure decrease on reflection (depends on room volume and reverberation time)
2	Drop of sound pressure without reflection

The diagram shows a maximum distance of 32 m for this damping. It is therefore recommended that an audible notification appliance be installed approximately every 60 m.



Parts included

Qty.	Components
1	Sounder red, 24 V DC or 230 V AC, surface-mounted cable feed

Technical specifications

Operating voltage	
• DS 10 rot, 230 V	230 V AC
• DS 10 rot, 24 V	24 V DC (12 V DC ... 30 V DC)
Current consumption	
• 230 V type	Max. 60 mA
• 24 V type	Max. 420 mA
Sound pressure level at a distance of 1 m	Max. 110 dB (A)
Frequency range	500 Hz up to 1.2 kHz
Permissible operating temperature	-25 °C .. +55 °C
Permissible relative humidity	95%
Protection class as per EN 60529	IP 66/67
Dimensions (W x H x D)	133 x 119 x 133 mm
Housing material	Cast aluminum
Housing color	Red, similar to RAL 2002
Weight	
• 230 V type	2,200 g
• 24 V type	1,800 g

Ordering information

DS 10 Red, 230 V

for connection to fire panels, available for operating voltage 230 V, usable in adverse environmental conditions

Order number **DS10-230V**

DS 10 Red, 24 V

for connection to fire panels, available for operating voltage 24 V DC, usable in adverse environmental conditions

Order number **DS10-24V**

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