

## DS 10 Sounders



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

### System overview

### 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.

### Regulatory information

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

Region	Regulatory compliance/quality marks	
Germany	VdS	G 28609 DS 10
Europe	CE	DS 10
	CPD	0786-CPD-20005 DS10

## V d S

- ▶ 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
- ▶ Volume up to 110 dB(A)

### Installation/configuration notes

- For surface-mounted cable feed.
- Can be connected to LSN fire panels.
- The DS 10 sounders can be directly connected to monitored control lines.

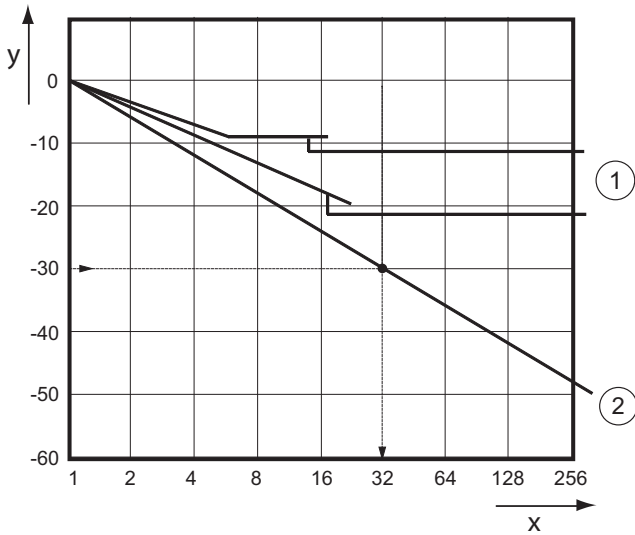
### Tone type table

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

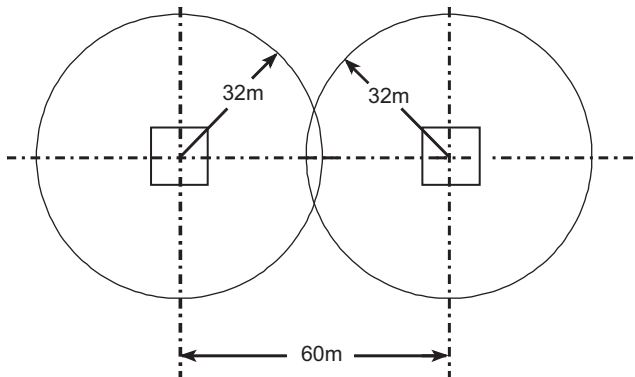
Maximum DS 10 sound pressure level	<b>110 dB</b>
less 10 dB for unique audibility	<b>-10 dB</b>
less environmental sound level	<b>-70 dB</b>
resulting attenuation through distance from siren	<b>30 dB</b>

**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.



**Technical specifications**

Sound pressure level at a distance of 1 m (dB (A))	≤ 110
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Frequency range (Hz)	500 up to 1200
Permissible operating temperature (°C)	-25 to +55
Permissible relative humidity (%)	95
Protection class as per EN 60529	IP 66/67
Dimensions (W x H x D, mm)	133.5 x 133.5 x 143
Housing material	Cast aluminum
Housing color	Red, RAL 3000

**DS 10 Red, 230 V**

Operating voltage (V AC)	230
Current consumption (mA)	≤ 60
Weight (g)	2150

**DS 10 Red, 24 V**

Operating voltage (V DC)	24 (12 to 30)
Current consumption (mA)	≤ 420
Weight (g)	1950

**Ordering information**

**DS10-230V Sounder red, 230V**

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

Order number **DS10-230V | 2.799.350.352**

**DS10-24V Sounder red, 24V**

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

Order number **DS10-24V | 2.799.350.351**

**Services**

**EWE-DS10-IW 12 mths wrty ext DS10 DIN tone sounder**

12 months warranty extension

Order number **EWE-DS10-IW | F.01U.360.732**