



DS 10 Sounder



The DS 10 is an acoustic signaling device for connection to fire panels, available for operating voltage 230 V AC or 24 V DC.

Functions

The DS 10 has 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 can be used as a monitored and non-monitored signaling device.

Certifications and Approvals

VdS ID number: **G 28 609**

Installation/Configuration Notes

- For surface-mounted cable feed
- Can be connected to the following fire panels:
 - BZ 1012

- ▶ **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)**

- BZ 1060
- BZ 500 LSN
- UEZ 1000 LSN
- UEZ 2000 LSN
- UGM 2020.
- The DS 10 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

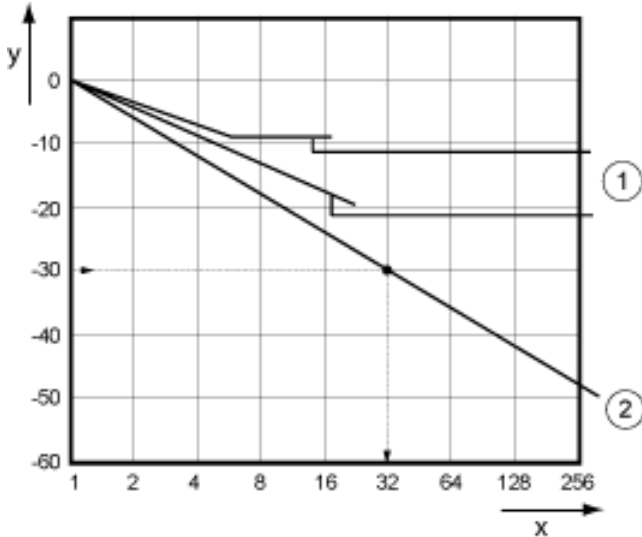
Calculation example:

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

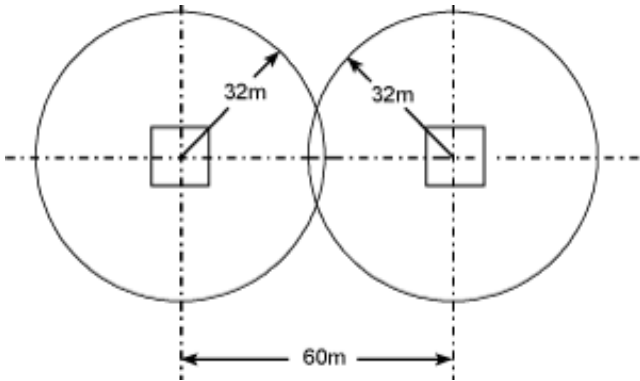
Attenuation through distance from siren:	30 dB

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.



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%
EN 60529 Protection category	IP 55
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	DS10-230V
DS 10 red, 24 V	DS10-24V

Parts Included

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

Europe, Middle East, Africa:
Bosch Security Systems B.V.
P.O. Box 80002
5600 JB Eindhoven, The Netherlands
Phone: + 31 40 2577 284
Fax: +31 40 2577 330
emea.securitysystems@bosch.com
www.boschsecurity.com

Americas:
Bosch Security Systems, Inc.
130 Perinton Parkway
Fairport, New York, 14450, USA
Phone: +1 800 289 0096
Fax: +1 585 223 9180
security.sales@us.bosch.com
www.boschsecurity.us

Asia-Pacific:
Bosch Security Systems Pte Ltd
38C Jalan Pemimpin
Singapore 577180
Phone: +65 6319 3450
Fax: +65 6319 3499
apr.securitysystems@bosch.com
www.boschsecurity.com

Represented by