



SG 200 Acoustic Signaling Devices



The SG 200 are acoustic signaling devices with an electronic tone generator and are designed for connection to fire panels.

Functions

The integrated tone generator offers a selection of 28 tone variants, including various wailing tones, diverse signals for fire alarm (e. g. the DIN tone according to EN 457 / DIN 33404) and other special modulations.

The programming/coding is undertaken via a five-pin DIP switch in the signaling device. With a selected tone type, on activation of the second input, the second tone type is switched on.

The volume can be set continuously via an integrated potentiometer.

Depending on the tone type, volume set, and operating voltage, the sound pressure varies between 93 dB(A) and 114 dB(A).

Monitored connection to fire panels is possible.

The bayonet lock enables simple mounting.

- ▶ Volume up to 114 dB(A)
- ▶ Compact, robust and maintenance-free
- ▶ Can be used in adverse environmental conditions
- ▶ For 12 V DC and 24 V DC
- ▶ Molded in electronic circuitry
- ▶ Available for surface and flush-mounted cable feed

Certifications and Approvals

Region	Certification	
Germany	VdS	G 204147 SG 200
Europe	CE	SG 200
Poland	CNBOP	1893/2005 SG 200
Hungary	TMT	TMT-89/13/2004 SG 200, SG 100
Russia	GOST	POCC DE.C313B06300

Installation/Configuration Notes

- Can be connected to the following fire panels:
 - BZ 500 LSN
 - UEZ 1000 LSN
 - UEZ 2000 LSN
 - UGM 2020.
- When connected to monitored control lines **with feedback**, the acoustic signaling devices must be operated using a universal circuit relay UAR.
- When connected to monitored control lines **without feedback** no UAR is required.
- Doubled screw clips exist for looping-in of voltage.

Table: tone type, sound pressure level in dB(A) and current consumption in mA

Tone 1/(2)	Signal type (sound type)	Frequency / modulation	Sound level dB(A) ± 3 dB	Current consumption mA ± 3 mA
at 12 / 24 V				
1/(21)	Variable tone BS 5839 Part 1	800/1000 Hz at 2 Hz	90 / 99 dB(A)	9/18 mA
2/(2)	Pulse tone Swedish alarm tone	660 Hz each 1.8 ms on / off	90 / 98 dB(A)	6/13 mA
3/(22)	Variable tone	2400/2970 Hz at 2 Hz	102 / 113 dB(A)	12/25 mA
4/(18)	Pulse tone, ISO 8210, BS 5839	1 kHz at 0.3 Hz, every 0.5 s on/off	86 / 94 dB(A)	10/24 mA
5/(22)	Increasing/decreasing tone	2400-2900 Hz at 7 Hz	97 / 105 dB(A)	12/23 mA
6/(6)	Pulse tone Swedish alarm tone	600 Hz at 1 Hz	90 / 99 dB(A)	8/14 mA
7/(21)	Pulse tone BS 5839 Part 1	1000 Hz 0.2 s on / 1 s off	83 / 93 dB(A)	7/11 mA
8/(21)	Increasing/decreasing tone BS 5839 Part 1 Fast Sweep (LF)	800-1000 Hz at 1 Hz	94 / 101 dB(A)	9/16 mA
9/(9)	Continuous tone Swedish alarm tone	660 Hz	90 / 99 dB(A)	8/13 mA
10/(21)	Variable tone BS 5839 Part 1	800-1000 Hz at 1 Hz	91 / 97 dB(A)	9/17 mA
11/(11)	Increasing/decreasing tone	1400-2000 Hz at 10 Hz	93 / 101 dB(A)	13/26 mA
12/(21)	Slow whoop	500-1200 Hz 0.5 s	92 / 100 dB(A)	9/15 mA
13/(21)	Increasing/decreasing tone BS 5839 Part 1 Fast Sweep (LF)	800-1000 Hz at 50 Hz	90 / 98 dB(A)	9/15 mA
14/(21)	Special tone, French alarm tone	554 Hz/100 ms 400 Hz/400 ms	87 / 95 dB(A)	7/12 mA
15/(21)	Increasing/decreasing tone BS 5839 Part 1, Fast Sweep (LF)	800-1000 Hz at 7 Hz	91 / 99 dB(A)	9/15 mA
16/(16)	Pulse tone, Swedish alarm tone	660 Hz, 6.5 s on/ 13 s off	89 / 98 dB(A)	7/12 mA
17/(21)	Pulse tone BS 5839 Part 1	1000 Hz at 1 Hz	85 / 95 dB(A)	9/15 mA
18/(4)	Pulse tone, ISO 8201, BS 5839 Part 1	2,9kHz at 0,3Hz, on/off every 0.5 s	103 / 115 dB(A)	14/25 mA

Tone 1/(2)	Signal type (sound type)	Frequency / modulation	Sound level dB(A) ± 3 dB	Current consumption mA ± 3 mA
19/(22)	Increasing/decreasing tone	2400/2900 Hz at 1 Hz	99 / 104 dB(A)	11/22 mA
20/(21)	Pulse tone Pelican Crossing	2900 Hz, 150 ms on / 100 ms off	102 / 110 dB(A)	10/25 mA
21/(21)	Continuous tone BS 5839 Part 1	1000 Hz	87 / 91 dB(A)	9/18 mA
22/(21)	Continuous tone	2900 Hz	104 / 111 dB(A)	14/27 mA
23/(23)	Alternating tone, Swedish alarm tone	800-970 Hz at 50 Hz	89 / 95 dB(A)	7/13 mA
24/(22)	Pulse tone Back-up alarm	2400-2850 Hz at 50 Hz	103 / 111 dB(A)	13/23 mA
25/(22)	Variable tone BS 5839 Part 1	970 Hz	90 / 97 dB(A)	9/15 mA
26*/(21)	Increasing/decreasing tone DIN tone (see below)	1200-500 Hz at 1 Hz	90 / 98 dB(A)	8/16 mA
27/(22)	Increasing/decreasing tone	2400-2900 Hz at 50 Hz	98 / 108 dB(A)	12/22 mA
28/(28)	Pulse tone Swedish alarm tone	660 Hz, each 150 ms on / off	88 / 96 dB(A)	4/9 mA

* Delivery state: tone complies with DIN 33404 or EN 457
 Measurement: SPL values for 1m measurement position are based on a measurement at 3 m + 9,54 dB.
 Measuring setup for DIN sound (DIN 33404, Part 3) according to DIN EN54-3:2001/A1:2002.

Parts Included

Qty.	Components
1	Acoustic Signaling Device, red or white
1	Base, surface or flush cable feed

Technical Specifications

Electrical

Operating voltage	10 VDC . . . 30 VDC
Current consumption	< 32 mA
Switch-on current / time	30 mA (over 2 s) / 1.5 ms

Mechanics

Dimensions (W x H)

• With flush-mounted base	Ø 93 mm x 81 mm
• With surface-mounted base	Ø 93 mm x 101.5 mm
Housing material	Plastic, ABS
Color	Red, RAL 3001 White, RAL 9010

Weight

• With flush-mounted base	300 g
• With surface-mounted base	320 g

Environmental conditions

Permissible operating temperature	-40°C . . . +80°C
Permissible rel. humidity	Complying with VdS EN 54-3
Protection class as per EN 60529	
• With flush-mounted base	IP 54
• With surface-mounted base	IP 65

Special features

Max. sound pressure	
• At 12 V	110 dB(A) ±3 dB(A)
• At 24 V	114 dB(A) ±3 dB(A)
Frequency range	400 Hz to 2900 Hz (±0.15%)
Volume control	- 20 dB(A)

Ordering Information

SG 200 Red, Surface-mounted Cable Feed	SG200-S-red
SG 200 Red, Flush-mounted Cable Feed	SG200-R-red
SG 200 White, Surface-mounted Cable Feed	SG200-S-white
SG 200 White, Flush-mounted Cable Feed	SG200-R-white

Accessories

EASY AV-R Conventional In-built Strobe for SG 200	EASY AV-R
Red strobe for retrofitting to SG 200 Sounder and SG 100 previous model	

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