


BOSCH

Invented for life

MAGIC.SENS Stand-alone detector base sounders



MAGIC.SENS stand-alone detector base sounders are independent acoustic signaling devices for signaling an alarm directly in the fire location. Visually, they blend perfectly with the MAGIC.SENS fire detectors.

Functions

The electronic tone generator integrated into the signaling device can produce 11 different tones (including DIN tones conforming to EN 457). The tone variants include different wails, various signals for fire alarms, and other special modulations. Depending on the tone type, volume set, and operating voltage, the sound pressure level varies between 87 dB(A) and 100 dB(A).

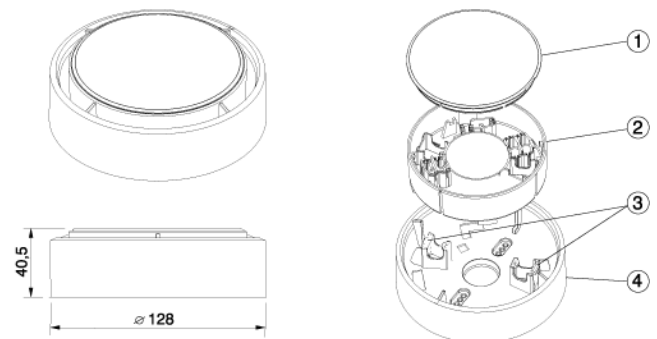
The programming/coding occurs:

- for the MSS 300 via integrated DIP switches,
- for the MSS 400/401 via the LSN.

Monitored and non-monitored connection to fire panels is possible.

- ▶ Volume up to 100 dB(A)
- ▶ Robust, compact type with modern design
- ▶ Designed for 9 V DC to 28 V DC operating voltage
- ▶ Great reliability and long service life
- ▶ 11 different tone variants can be selected (incl. DIN tone)
- ▶ For surface and flush-mounted cable feed

System Overview



Pos.	Designation
1	Cover plate
2	Sounder unit
3	Sounder unit snap-fit hooks
4	Mounting base

Certifications and Approvals

VdS ID number:

MSS 300 **G 204 067**

MSS 400/401 LSN **G 204 068**

Installation/Configuration Notes

- The signaling devices are intended for indoor use.
- The siren continues to sound for approx. 1 minute after being switched off after occurrence of an alarm.
- The current consumption depends on the tone type selected and is maximum 20 mA.

Tone type table

No.	Signal type (sound type)	Frequency / modulation	Acoustic sound level at 24 V
1*	Increasing/decreasing tone (DIN tone)	1200/500 Hz at 1 Hz	96 dB(A)
2	Increasing/decreasing tone British alarm tone (BS 5839)	800-970 Hz at 1 Hz	100 dB(A)
3	Increasing/decreasing tone Australian alarm tone (AS 2220)	2400-2850 Hz at 7 Hz	95 dB(A)
4	Alternating Dutch alarm tone	500-1200 Hz 3.5 s on / 0.5 s off	97 dB(A)
5	Continuous tone, British alarm tone (BS 5839)	970 Hz	97 dB(A)
6	Alternating French alarm tone	554 Hz/100 ms 440 Hz/400 ms	97 dB(A)
7	Continuous tone, Swedish alarm tone	660 Hz	97 dB(A)
8	Variable tone	580/1000 Hz each 500 ms on / off	91 dB(A)
9	Pulse tone	580 Hz each 250 ms on / off	87 dB(A)
10	USA temporal 3 tone ISO 8201	610 Hz	99 dB(A)
11	USA temporal 3 tone ISO 8201	2850 Hz	94 dB(A)

* = delivery state: tone in accordance with DIN 33404 or EN 457

Parts Included

Qty.	Components
1	Detector base sounders
1	Cover plate
2	Fastening screws

Technical Specifications

Electrical

Operating voltage	
• MSS 300	9 V DC... 30 V DC
• MSS 400 LSN / MSS 401 LSN	15 V DC... 30 V DC
Current consumption from external source	Quiescent state / alarm
• MSS 300	1 mA... 20 mA, ±2 mA
• MSS 401 LSN	2 mA... 20 mA, ±2 mA
Current consumption from LSN	
• MSS 400 LSN	2 mA / max. 20 mA
• MSS 401 LSN	Max. 1.025 mA

Mechanics

Connections (inputs/outputs)	0.28 mm ² ... 2.5 mm ²
Dimensions (W x H)	128 x 40.5 mm
Housing material	Plastic, ABS (Novodur)
Housing color	Red, similar to RAL 3001 White, similar to RAL 9010

Weight	
• Without packaging	Approx. 230 g
• With packaging	Approx. 275 g

Environmental conditions

Protection category as per EN 60529	IP 54
Permissible operating temperature	
• MSS 300	-10°C... +55 °C
• MSS 400 LSN / MSS 401 LSN	-25°C... +85 °C
Permissible storage temperature	-25°C... +85 °C

Special features

Sound pressure level at a distance of 1 m	Max. 100 dB (A)
Frequency range	440 Hz up to 2.85 kHz

Ordering Information

MSS 300 - SA red, conventional technology Detector base sounder triggered via a control interface NSB, tone type set via DIP switch, volume set via potentiometer	MSS 300 - SA
MSS 400 LSN - SA red Detector base sounder with direct link to the LSN, setting of tone type and volume via the LSN	MSS400LSN-SA
MSS 401 LSN - SA red Detector base sounder with separate power supply and direct link to the LSN, setting of tone type and volume via the LSN	MSS401LSN-SA-RD

Ordering Information

MSS 401 LSN – SA white	MSS401LSN-SA-WH
Detector base sounder with separate power supply and direct link to the LSN, setting of tone type and volume via the LSN	

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