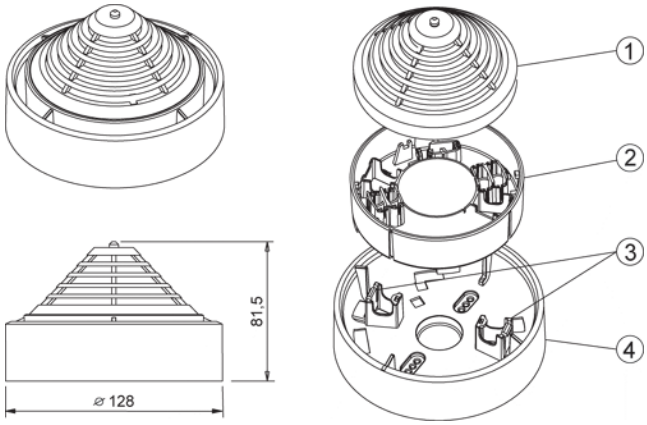
BOSCH
Invented for life

MAGIC.SENS Detector Base Sounders

- **Volume up to 100 dB(A)**
- **Electronic tone generator integrated into the signaling device**
- **11 different tone variants can be selected (incl. DIN tone)**
- **Great reliability and long service life**
- **For surface-mounted and flush-mounted cable feed**

Detector Base Sounders are used when the acoustic signaling of an alarm is required directly at the site of the fire.

System Overview



Pos.	Description
1	Detector module
2	Sounder unit
3	Snap-fit hooks
4	Mounting base

Functions

The electronic tone generator integrated into the signaling device can produce 11 different tones (including DIN tones conforming to DIN 33404 and EN 457).

The tone variants include different wailing tones, 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 of the tone type and volume setting is performed:

- for the MSS 300 via integrated DIP switch and potentiometer (continuously)
- for the MSS 400/401 via the LSN.

Certifications and Approvals

Region	Certification	
Germany	VdS	G 204067 MSS 300
		G 204068 MSS 400 / 401
Europe	CE	MSS 300 WS
		MSS 300 ws - EC
		MSS 400 LSN
		MSS 401 LSN

Installation/Configuration Notes

- MAGIC.SENS Detector Base Sounders are intended only for interior areas.
- The current consumption depends on the tone type selected and is maximum 20 mA.

MSS 300 ws Detector Base Sounder White

- Control from the C point of the deployed MAGIC.SENS fire detector
- When the detector is reset in the event of an alarm, the sounder is not reset.

MSS 300 ws EC Detector Base Sounder White

- Control of fire panel via an interface (not via the C point of the deployed MAGIC.SENS fire detector)
- For connection to the LSN, an NSB 100 LSN control interface is required.
- The sounder continues to sound for approx. 990 s after being switched off after occurrence of an alarm.

MSS 400 LSN Detector Base Sounder White

- The Detector Base Sounder as well as the deployed detector are each independent LSN elements.
- The current consumption from the LSN is max. 20 mA.

MSS 401 LSN Detector Base Sounder White

- The Detector Base Sounder as well as the deployed detector are each independent LSN elements.
- The current consumption from the LSN is only max. 1.025 mA, as the sounder has a separate power supply.
- Requires a separate power supply.

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	Variable tone 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	Variable tone, 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 complying with DIN 33404 or EN 457*

Technical Specifications

Electrical

Operating voltage	
• MSS 300	9 V DC. . . 28 V DC
• MSS 400 LSN	15 V DC . . . 30 V DC
• MSS 401 LSN	15 V DC . . . 30V DC
Current consumption from external source	Quiescent state / alarm
• MSS 300 LSN	1 mA / max. 20 mA
• MSS 401 LSN	2 mA / max. 20 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
Weight	
• Without packaging	Approx. 220 g
• With packaging	Approx. 260 g
Housing	
• Material	Plastic, ABS (Novodur)
• Color	White, similar to RAL 9010

Environmental conditions

Protection class as per EN 60529 (with detector)	IP 30
Permissible operating temperature	-10 °C . . . +55 °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 ws Detector Base Sounder White Control via C-point of the detector	**MSS 300**
MSS 300 ws-EC Detector Base Sounder White Control through fire panel via interface	**MSS300-WH-EC**
MSS 400 LSN Detector Base Sounder White For direct connection to the LSN	**MSS 400 LSN**
MSS 401 LSN Detector Base Sounder White For direct connection to the LSN with direct separate power supply	**MSS 401**

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