



FNM-420-B-RD Sounder Outdoor, Red



The outdoor sounder is used independently for signaling an alarm directly at the fire location at outside areas.

Functions

The sounder allows to select 32 types of alarm and evacuation tones (incl. DIN tone 33404 Part 3) for different requirements.

You can adjust the sound pressure by five levels according to the operational environment. Depending on the tone type and volume set, the sound pressure varies between 65 dB and 102.5 dB. Sounders of the same LSN loop and with the same tone type provide synchronization without delay. The sounders can be programmed easily via the fire panel.

Certifications and Approvals

Complies with

- EN 54-3:2006
- EN 54-17:2005

Installation/Configuration Notes

- The signaling devices are intended for outdoor use.
- The current consumption depends on the tone type selected and is maximum 3,9 mA.

- ▶ Volume up to 102.5 dB(A)
- ▶ Maximum current consumption less than 3,9 mA
- ▶ Up to 80 sounders per LSN 1500 A module
- ▶ Constant sound pressure level between 22 V and 33 V operating voltage
- ▶ IP 66 for usage at exposed outdoor locations
- ▶ Synchronization without delay
- ▶ Easy to install
- ▶ Long lifetime and modern design
- ▶ 32 different tone variants can be selected (incl. DIN Tone)

Tone type table

Nr	Signal type (Tone type)	Frequency / modulation	Sound pressure level dB(A)
1*	Sweeping tone = DIN-Tone	1200-500 Hz at 1 Hz, off 10 ms	99.3 dB(A)
2	Sweeping tone	2400-2900 Hz at 50 Hz	99.9 dB(A)
3	Sweeping tone	2400-2900 Hz at 7 Hz	100.8 dB(A)
4	Sweeping tone	800/1000 Hz at 7 Hz	99.2 dB(A)
5	Intermittent tone	1000 Hz at 1 Hz	100.9 dB(A)
6	Intermittent tone	1000 Hz / 0.25 s on, 1 s off	100.4 dB(A)
7	Alternating tone	800/1000 Hz at 1 Hz	100.9 dB(A)
8	Continuous tone	970 Hz	99.8 dB(A)
9	Alternating tone	800/1000 Hz at 2 Hz	100.7 dB(A)
10	Intermittent tone	970Hz / 0,5 s on/off, 3 tones per 4 cycles	99.7 dB(A)
11	Intermittent tone	2900 Hz / 0,5 s on/off	101.1 dB(A)
12	Intermittent tone	1000 Hz / 0,5 s on/off	100.8 dB(A)
13	Sweeping tone	800/1000 Hz at 1 Hz	100.4 dB(A)
14	Alternating tone	510Hz/610Hz/0,5s on/off	97.5 dB(A)
15	Intermittent tone	510 Hz / 1 s on, 1 s off	96.0 dB(A)
16	Intermittent tone	2900 Hz at 1 Hz	100.7 dB(A)
17	Alternating tone	2400/2900 Hz at 2 Hz	100.6 dB(A)
18	Sweeping tone	2400-2900 Hz at 1 Hz	102.5 dB(A)

Nr	Signal type (Tone type)	Frequency / modulation	Sound pressure level dB(A)
19	Sweeping tone	1400-2000 Hz at 10 Hz	97.5 dB(A)
20	Sweeping tone	500-1200 Hz / 0.5 s	98.8 dB(A)
21	Continuous tone	2900 Hz	99.2 dB(A)
22	Sweeping tone	800/1000 Hz at 50 Hz	99.7 dB(A)
23	Alternating tone	554 Hz/100 ms + 440 Hz/400 ms	96.3 dB(A)
24	Slow Whoop	500-1200 Hz in 3,5 s, off 0,5 s	100.1 dB(A)
25	Intermittent tone	2900 Hz / 150 ms on, 100 ms off	100.7 dB(A)
26	Continuous tone	660 Hz	98.0 dB(A)
27	Intermittent tone	660 Hz; 1,8 s on/off	98.0 dB(A)
28	Intermittent tone	660 Hz / 150 ms on/off	96.7 dB(A)
29	USA temporal 3 tone ISO 8201	610 Hz	97.4 dB(A)
30	US Temporal Pattern LF	950 Hz / 0,5 s on/off x 3 then 1,5 s off	97.1 dB(A)
31	3. Hi/Lo	1000/800 Hz (0,25 s on/ alternate)	100.3 dB(A)
32	Thyssen Krupp Tone	450/650 Hz at 2 Hz	96.9 dB(A)

* Delivery state: Tone in accordance with DIN 33404 Part 3

Parts Included

Qty.	Components
1	Sounder Outdoor
4	Housing screws
1	Allen wrench

Technical Specifications

Electrical

Operating voltage 15 V DC to 33 V DC

Current consumption

- Quiescent state < 1 mA
- Alarm < 3,9 mA

Mechanics

Connections (inputs/outputs) 0,28 mm² to 2,5 mm²

Dimensions (H x W x D) 110 x 110 x 95 mm

Housing

- Material Plastic, ABS
- Color red, similar to RAL 3001

Weight

- Without packaging 250 g
- With packageing 300 g

Environmental conditions

Permissible operating temperature -25 °C to +70 °C

Permissible storage temperature -25 °C to +85 °C

Protection class as per EN 60529 IP 66

Special features

Sound pressure level at a distance of 1 m max. 102.5 dB(A)

Frequency range 440 Hz up to 2,90 kHz

Ordering Information

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