FIRE ALARM SOUNDER

SPP-100

SPP-101

Installation Manual

CE

CNBOP-PIB

spp-100_en 08/19

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The SPP-100 / SPP-101 fire alarm sounder meets the essential requirements of the Regulation of the European Parliament and of the Council (EU) No. 305/2011 and the European Union Directives:

EMC 2014/30/EU Electromagnetic Compatibility Directive;

An EC Certificate of Conformity No. 1438-CPR-0343 was issued by the CNBOP-PIB Jozefow Certification Body for the SPP-100 / SPP-101 fire alarm sounder to confirm its compliance with the requirements of PN-EN 54-3:2003 + PN-EN 54-3:2003/A2:2007 standards.

The Certificate of Conformity can be downloaded from the **www.satel.eu** website.

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DOP/CPR/0343

EN 54-3

Fire safety. Fire alarm sounder SPP-100 (type A), SPP-101 (type B)

Declaration of Performance No. DOP/CPR/0343

This manual covers the following products:

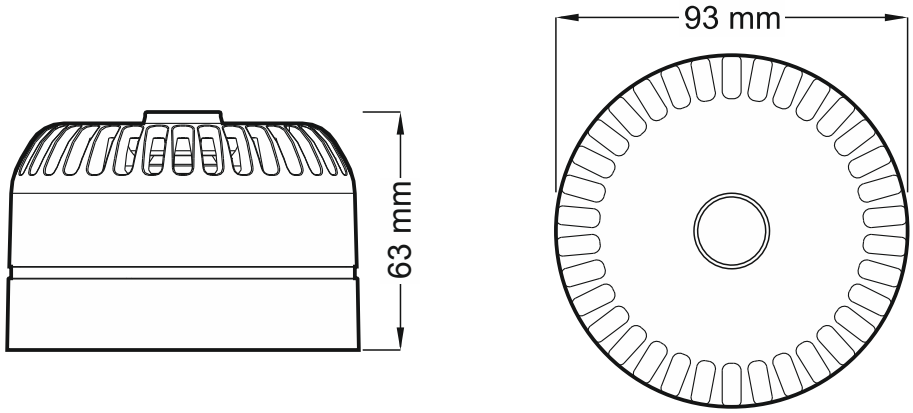
SPP-100 - fire alarm sounder with a low base (Fig. 1);

SPP-101 - fire alarm sounder with a high base (Fig. 2).

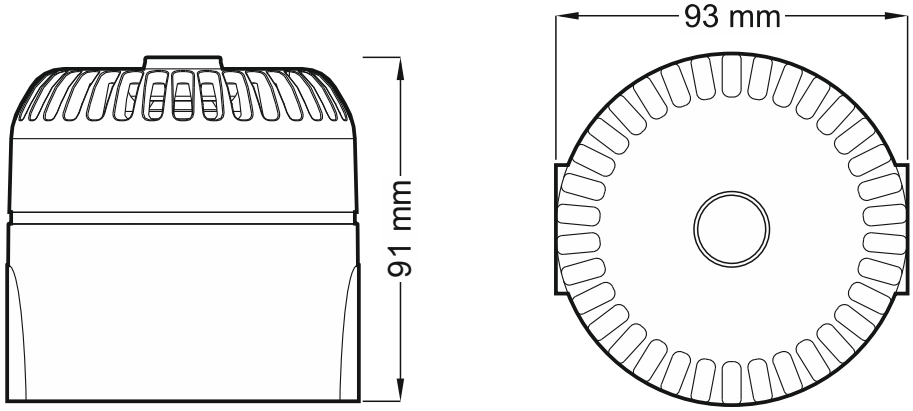
The fire alarm sounders provide information about fire by means of acoustic signals. They are designed to be used in conjunction with the CSP-104, CSP-108, CSP-204 and CSP-208 fire alarm control panels.

Prior to installation, please read this manual carefully in order to avoid any mistakes and/or errors which might result in malfunctioning of or even damage to the equipment. The manual contains guidelines for installation of the fire alarm sounders and their connection to the fire alarm control panel.

1



2



1. Features

- Acoustic signaling by means of piezoelectric transducer.
- 32 selectable tones.
- Selectable volume level.

2. Functional description

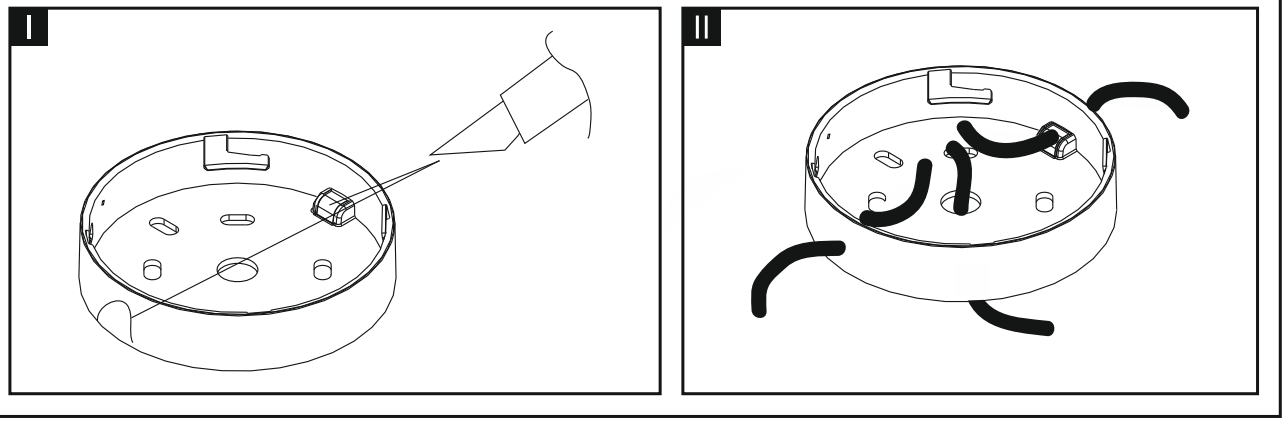
After voltage is applied to the appropriate terminals, acoustic signaling will be activated. The tone depends on the settings of DIP-switches.

3. Installation

Disconnect power before making any electrical connections.

1. Run the cables into the enclosure base. For the SPP-100 sounders, you can make additional holes in the enclosure (Fig. 3). In the case of SPP-101 sounders, you must make holes for the cable glands (Fig. 4).

3



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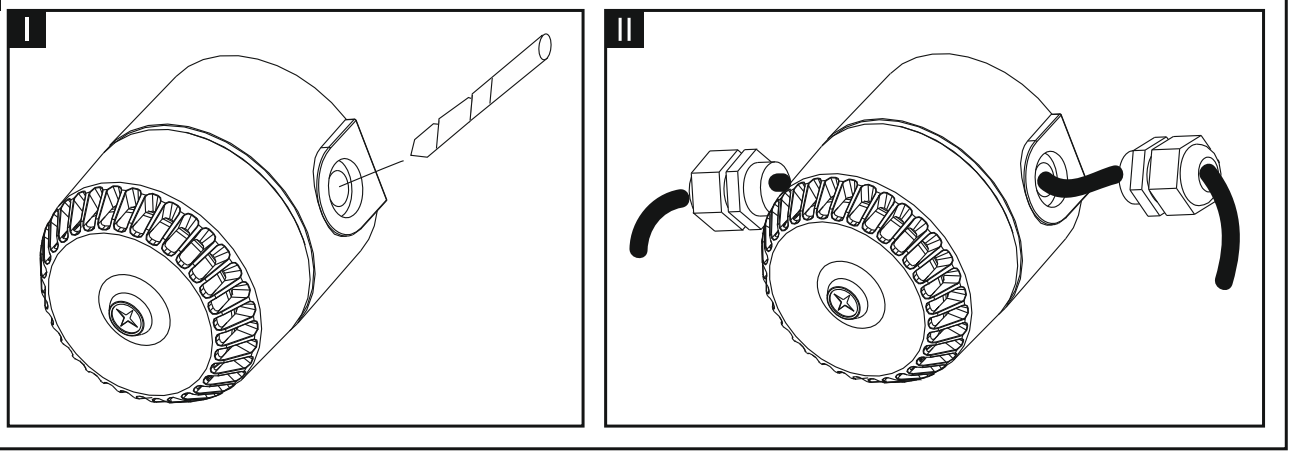
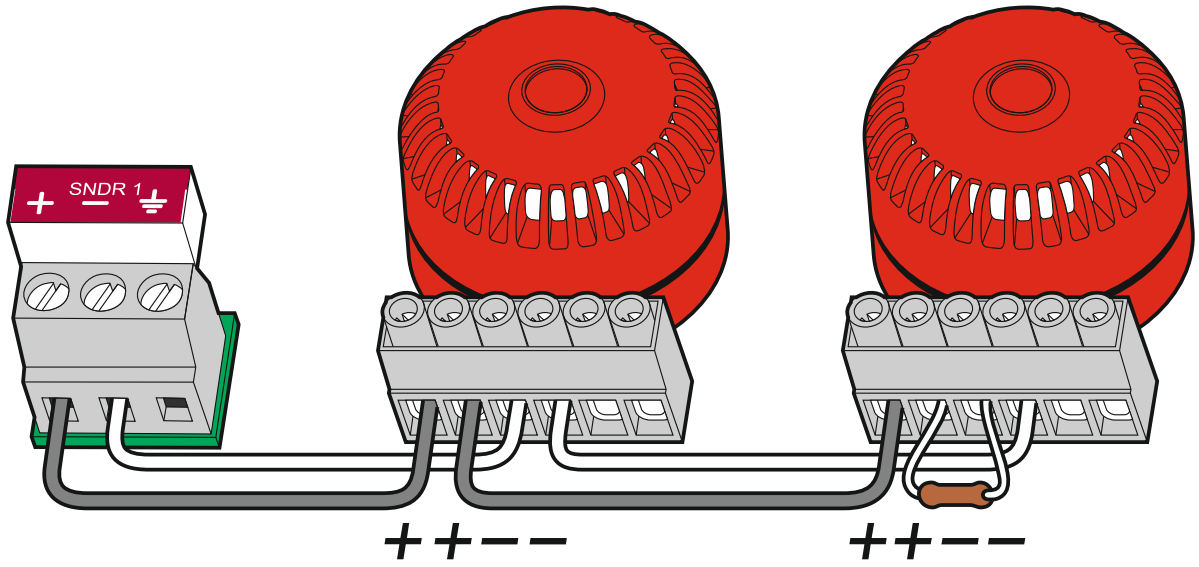


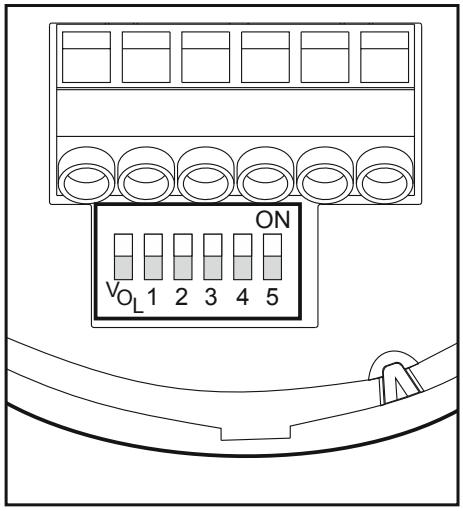
2. Secure the enclosure base to the wall.
3. Set the volume and select the tone (see section SELECTING THE TONE AND SETTING THE VOLUME).
4. Screw the wires to the corresponding terminals. Fig. 5 shows a typical connection of the fire alarm sounders to the fire alarm control panel.
5. Replace the enclosure cover and secure it with the lock screw.

5



3.1 Selecting the tone and setting the volume

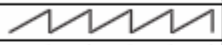
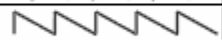
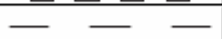
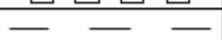
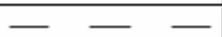
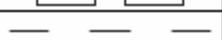
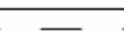
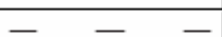
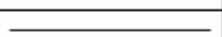
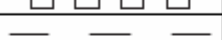
6



To select the tone to be triggered after voltage is applied, use the DIP-switches, designated by digits from 1 to 5 (see Fig. 6). The tones and the way of setting the DIP-switches are described in the table below (DIP-switch in position ON = 1).

The DIP-switch designated VOL is used to set the signal volume level. When the switch is in the ON position, the maximum volume of signaling is set (the recommended setting).

For detailed information about the sound intensity (volume) in accordance with EN54-3, please refer to SPP-100-spl.

Number	DIP-switch	Tone description			Main Application		24 V DC	EN54-3 28 V DC
	12345		Frequency, Hz	Description		mA	dB(A)	dB(A)
1	11111		800 & 970	2 Hz (250 ms – 250 ms)	BS Fire	13	101	*
2	11110		800 – 970	7 Hz (7/s)	BS Fire	12	100	*
3	11101		800 – 970	1 Hz (1/s)	BS Fire	12	102	95
4	11100		2850	Steady	General Purpose	32	105	*
5	11011		2400 – 2850	7 Hz	General Purpose	32	109	*
6	11010		2400 – 2850	1 Hz	General Purpose	32	112	*
7	11001		500 – 1200	3 s sweep, 0,5 s silence, then repeat	Dutch Fire (NEN 2575)	12	103	97
8	11000		1200 – 500	1 Hz	German Fire (DIN 33 404)	15	103	94
9	10111		2400 – 2850	2 Hz (250 ms – 250 ms)	General Purpose	31	105	*
10	10110		970	0.5 Hz (1 s ON / 1 s OFF)	PFEER alert	8	101	*
11	10101		800 & 970	1 Hz (500 ms – 500 ms)	BS Fire	12	101	*
12	10100		2850	0.5 Hz (1 s ON / 1 s OFF)	General Purpose	17	105	*
13	10011		970	0.8 Hz (250 ms ON / 1 s OFF)	General Purpose	5	101	*
14	10010		970	Steady	PFEER toxic gas	14	101	95
15	10001		554 & 440	100 ms – 400 ms	French Fire (NFS 32-001)	17	102	*
16	10000		660	3.3 Hz (150 ms ON / 150 ms OFF)	Swedish (Air Raid)	6	100	*
17	01111		660	0.28 Hz (1.8 s ON / 1.8 s OFF)	Swedish (Local warning)	7	101	*
18	01110		660	0.05 Hz (13 s OFF / 6.5 Hz ON)	Swedish (Pre-mess)	6	101	*
19	01101		660	Steady	Swedish (All-clear)	10	101	*
20	01100		554 & 440	0.5 Hz (1 s ON / 1 s OFF)	Swedish (Turn out)	16	102	*
21	01011		660	1 Hz (500 ms – 500 ms)	Swedish general purspose	6	101	*
22	01010		2850	4 Hz (150 ms ON / 100 ms OFF)	Pelican Crossing (UK)	27	104	*
23	01001		800 – 970	50 Hz	BS Fire	12	100	*
24	01000		2400 – 2850	50 Hz	General Purpose	32	108	*
25	00111		970	3 x 500 ms pulses, 1.5 s silence, then repeat	ISO 8201	7	101	*
26	00110		800 – 970	3 x 500 ms pulsed sweep, 1.5 s silence, then repeat	ISO 8201	6	102	*
27	00101		970 & 800	3 x 500 ms pulsed sweep, 1.5 s silence, then repeat	ISO 8201	6	101	*
28	00100		800 & 970	2 Hz (250 ms – 250 ms)	BS Fire	12	101	*
29	00011		990 & 650	2 Hz (250 ms – 250 ms) (Symphoni Tones)	BS Fire	20	105	96
30	00010		510 & 610	2 Hz (250 ms – 250 ms) (Squashni Micro Tones)	BS Fire	16	100	92
31	00001		300 – 1200	1 Hz	General Purpose	14	103	*
32	00000		510 & 610	1 Hz (500 ms – 500 ms)	BS Fire	16	100	*

4. Maintenance

The fire alarm sounders should be subject to regular checks to ensure they are working correctly. Periodic checks should be conducted at least every six months.

5. Specifications

Supply voltage		18...28 V DC
Standby current consumption		0 mA
Maximum current consumption		32 mA
Operating temperature range		-25...+70 °C
Maximum humidity		93±3%
Protection rating	SPP -100	IP54*
	SPP -101	IP65*
Enclosure dimensions	SPP-100	93 x 93 x 63 mm
	SPP-101	93 x 93 x 91 mm
Weight	SPP-100	174 g
	SPP-101	206 g

* Feature not confirmed during the process of assessment and verification of constancy of performance carried out by the CNBOP-PIB (Scientific and Research Centre for Fire Protection – National Research Institute, Poland). Feature confirmed in additional tests.