ADDRESSABLE SOUNDER BEACON SAB-6001/SAB-6006

Overview

The addressable sounder beacon SAB-6001/6006 are intended for acoustic (voice or sound) and optical fire signaling. They can work only in addressable lines/loops of fire alarm control panels of the POLON 6000 and POLON 4000 systems.

They are activated on the command sent by the control panel after fulfilling the programmed activation criteria, eg after detecting a fire in the selected detection zone/zones, general alarm in the control panel, etc.

Principle of operation

SAB-6001/6006 sounder for correct operation require the simultaneous presence of two supply voltages:
from the detection line and from an external power supply.

The device monitors the presence of the supply voltage and in the case of a fault sends relevant information to the control panel. The fault condition but also the activation of the short circuit isolator is additionally signalled on the control panel and by flashing of yellow LEDs located on the device. The sound level and light emitted does not change depending on the value of the power supply voltage. There is a possibility to choose one out of three volume levels. Coding of the address of the devices takes place automatically from the control panel - the address code is stored in their non-volatile memory. Sounders are equipped with internal short circuit isolators. SAB-6006 in the alarm condition plays one of the selected warning sequences (warning signal - silence - voice message - silence) and activates LEDs. It also supervises the acoustic synchronization status with other sirens located in the POLON 6000 network. It is possible to select one out of 16 standard warning sequences or program individual sequences using dedicated software. If the voice message is not selected, the sequence will consist of a warning signal only.

The SAB-6001 sounder does not have the possibility to program voice messages. The sequence consists of a warning signal only.

Design

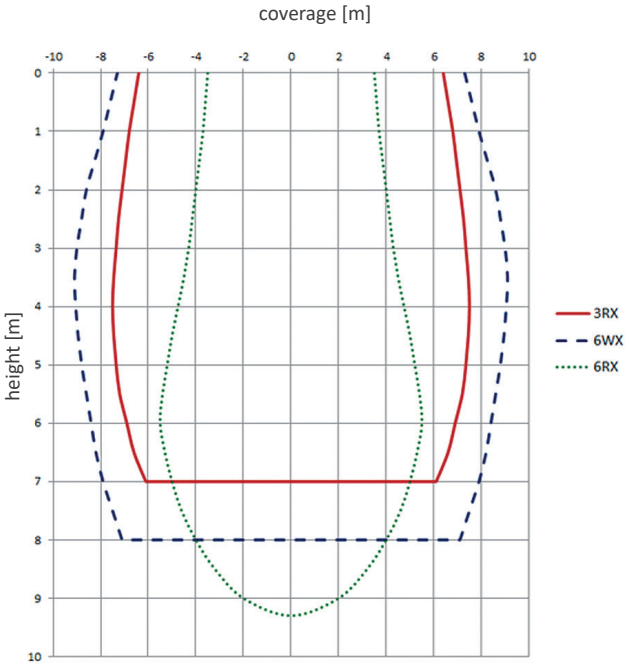
The basic part of the sounder is a piezoelectric transducer used to generate an acoustic signal and s LED diodes with a lens located on the forehead of the siren. It is placed inside a non-flammable housing, which consists of: a base, a cover and a shield. The sounder is installed inside the G-40S base which is non-flammable as well. The base is supplied with a sounder as a kit. Inside the base there is a screwless connector for connection of installation wires. The connector has got six terminals, two pairs marked „+” and „-” as the input and output of the detection line and two terminals to connect the external power supply.

SAB-6000 sounder beacons are available in the following versions:

Type	Sound type	Installation height	Light colour	Enclosure colour
SAB-6001-3RR	tone	3 m	red	red
SAB-6001-6RR		6 m		
SAB-6001-6WW		6 m	white	white
SAB-6006-3RR	voice	3 m	red	red
SAB-6006-6RR		6 m		
SAB-6006-6WW		6 m	white	white

Technical data

Power supply from detection line	from 16.5 to 24.6 V
Power supply from external power supplier	from 9.6 to 30.0 V
Current consumption from detection line	≤150 µA
Current consumption from external power supplier 12 V (from 9.6 to 16.0 V DC)	≤280 mA
Current consumption from external power supplier 24 V (from 16.0 to 30.0 V DC)	≤170 mA
Quiescent current from the power supply	<10 mA
Flash frequency	0.5 Hz
Flash time	0.2 s
Sound level	do 103 dB
Operation temperature range	from -25°C to +55°C
IP rate	IP 21C
Dimensions (with base)	ø 115 x 94 mm
Weight	0.26 kg



PHOTOMETRIC SOLID

Note

The detection line of the POLON 4000 system control panels does not have the ability to synchronize the voice and optical messages emitted by SAB-6006 sirens, hence they should be installed in different acoustic areas.
Voice messages are in Polish version only.
To change the language version, it is necessary use the dedicated application available on the POLON-ALFA SA website.
The CNBOP-PIB, Notified Body No. 1438 has been issued for the product the certificate of constancy of performance confirming the possession of technical features / parameters required by EN 54-3:2001 + A1:2002 + A2:2006, EN 54-17:2015 and EN 54-23:2010.
The features / technical parameters above that exceeds the requirements of the aforementioned standards and other features / parameters specified in this datasheet that are not specified in the mentioned standards are confirmed by the Manufacturer.
For the product the manufacturer has issued a declaration of performance.