



ADDRESABLE SIGNALS ACOUSTIC-OPTICAL SAB-6001/SAB-6006

Overview

Addressable acoustic-optical signaling devices SAB-6001/6006 are designed for acoustic and optical fire signaling in a tone (SAB-6001) or voice (SAB-6006) manner. They can work only in the addressable detection lines / loops of the POLON 6000 and POLON 4000 fire alarm control panels.

They are activated on a command sent by the control panel, after meeting the programmed actuation criteria, e.g. after detecting a fire in a selected detection zone, a general alarm in the control panel, etc..

Principle of operation

For correct operation, SAB-6001/6006 signaling devices require the simultaneous presence of two supply voltages:

- from the detection line,
- from an external power supply.

The element controls the correctness of the supply voltage and, in the event of a fault detection, sends relevant information to the control panel. The fault status, actuation of the short-circuit isolator, apart from the signaling in the control panel, is additionally signaled by flashing yellow LEDs placed on the signaling device circuit. The level of sound and light emitted does not change depending on the value of the supply voltage. It is possible to choose one of the three sounder volume levels. Coding of the siren address is performed automatically from the control panel - the address code is saved in their non-volatile memory. The signaling devices are equipped with internal short-circuit isolators. The SAB-6006 siren in the alarming state will play one of the warning sequences selected during configuration (warning signal - silence - voice message - silence) and it will flash cyclically with red LED diodes, while monitoring the state of acoustic synchronization with other sirens located in the POLON 6000 network. It is possible to choose one of 16 standard warning sequences and it is also possible to program your own sequences individually using dedicated software. If the voice prompt is not set, the sequence will consist solely of the warning signal.

The SAB-6001 siren cannot be programmed with warning voice sequences.

The sequence always only consists of the warning signal.

Design

The main part is a piezoelectric transducer used to generate an acoustic signal and a LED diode with a lens placed on the head of the signaling device. The whole thing is placed in a housing made of flame-retardant material, which consists of: a basket, a cover and a screen.

The signaling device works with the G-40S socket, also made of flame-retardant plastic. The socket is supplied complete with the siren. There is a connector block in the socket with screwless clamps for connecting installation wires. The connector has six terminals, two pairs marked with "+" and "-" as the detector line input and output, and two terminals for connecting an external power supply.

SAB-6000 acoustic and optical signaling devices are available in the following versions:

Designation	Type acoustic	Height assembly	Color lights	Color housing	
SAB-6001-3RR	tone	3 m	Red	Red	
SAB-6001-6RR		6 m			
SAB-6001-6WR		6 m	White		
SAB-6001-3RW		3 m	Red		white
SAB-6001-6RW		6 m			
SAB-6001-6WW		6 m	White		
SAB-6006-3RR	voice	3 m	Red	Red	
SAB-6006-6RR		6 m			
SAB-6006-6WR		6 m	White		
SAB-6006-3RW		3 m	Red	White	
SAB-6006-6RW		6 m			
SAB-6006-6WW		6 m	White		

Technical Specifications

Detection line voltage	16.5 ÷ 24.6 V
Operating voltage from the power supply	9.6 ÷ 30.0 V
Current consumption from the detection line	≤ 150 μA
Current consumption from the power supply 12 V	(9.6 ÷ 16.0 V) ≤ 280 mA
Current consumption from the power supply 24 V	(16.0 ÷ 30.0V) ≤ 160 mA
Flashing frequency	0.5 Hz
Flash time	0.2 s
Sound level	up to 103 dB
Operating temperature range	from -25°C to +55°C.
Tightness of the housing is	IP 21C
Dimensions (with socket)	∅ 115 x 94 mm
Weight	0.26 kg

Attention

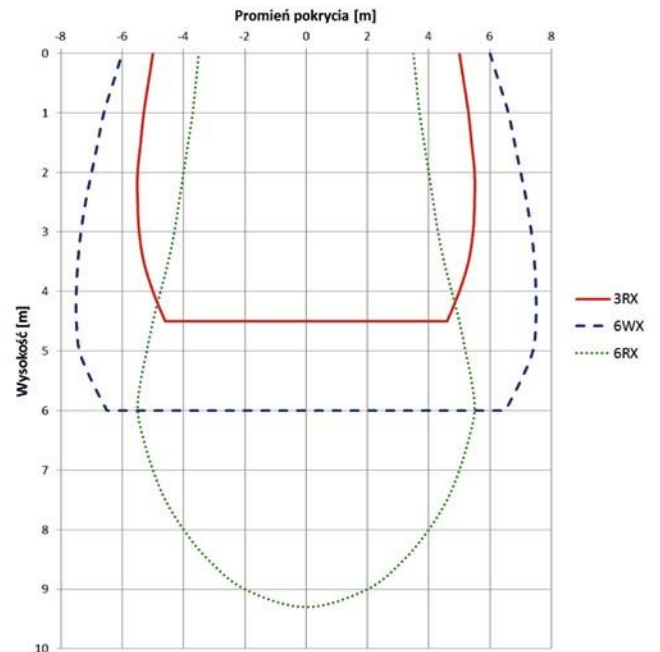
The POLON 4000 system control panel detection line cannot synchronize the emitted voice and optical messages by SAB-6006 signaling devices, therefore they should be installed in various acoustic spaces.

The product has been issued by CNBOP-PIB, notified body No. 1438, a certificate of constancy of performance confirming the possession of technical characteristics / parameters required by the standards EN 54-3: 2001 + A1: 2002 + A2: 2006, EN 54-17: 2015 and EN 54-23: 2010.

The possessed features / technical parameters exceeding the requirements of the above-mentioned standards and other product features / parameters specified in this catalog card not specified by the above-mentioned standards are confirmed by the Manufacturer.

The product has an approval certificate issued by CNBOP-PIB.

The manufacturer has issued a declaration of performance for the product.



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