



Warsaw

# OPERATING MANUAL

edition 2U1en

# SL-21

## SOUND & OPTICAL SIGNALLING DEVICE

v 2011+

Read carefully this entire manual BEFORE installation.  
Keep the manual as reference for the User of the Gas Detection System.

### INTRODUCTION

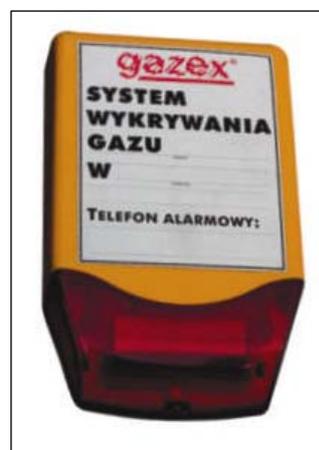
The destination of the **SL-21** signaling device is optical and sound signaling of alarm states, appearing on low voltage outputs of alarm devices (e.g. MD control modules manufactured by GAZEX). The device can be installed as well indoors as outdoors. It can not be used in areas exposed to explosion conditions.

The sound signal is produced by an acoustical transducer, generating a pulsatory and modulated high level sound. The transducer control circuit allows for a two step volume control. The optical signal is produced by very high luminance LEDs. The LEDs are split into two sections, so a damage of a LED in one section has no influence on the operation of LEDs in the other section.

The device electronics, using the surface mounting technology (SMT) and protected by an additional cover against mechanical shocks and adverse environment influence, guarantees a very high reliability of the device.

The device housing ensures a high resistance to strong mechanical shocks and to adverse environment influence. The design of the housing and the use of the highest quality materials guarantees an aesthetic look of the device during many years of its operation and the necessary level of its antisabotage protection.

The external cover, due to its considerable surface, enables to place on it the device function designation labels..



### DESCRIPTION

Considering its destination, the device should be mounted in a well visible place. The device base should be attached to a flat surface, using screws and expansion pegs. **The cable feed-through and device mounting holes have been marked in 1:1 scale on a template, contained in the device packing.** To avoid obstacles when mounting the device cover, the device base should be spaced by at least 5 cm from the ceiling or from other obstacles above the device.

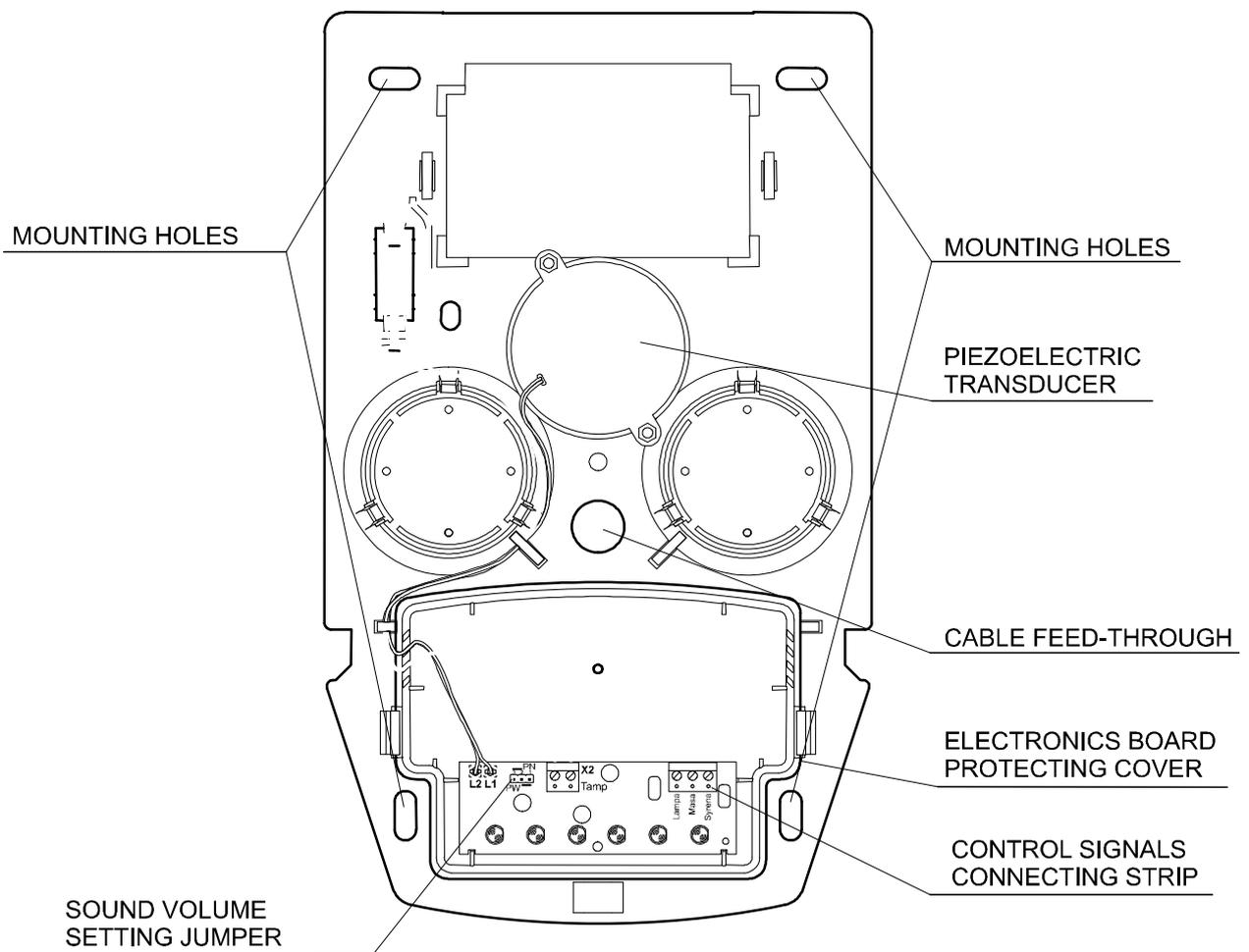
#### PRODUCER:



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## OPERATION

The alarm signal is triggered by independent application of +12V DC to triggering inputs “**Syrena**” (sound signal) and “**Lampa**” (optical signal). If the sound and optical signals are controlled from one source, the control signal cables have to be connected to both control inputs. Be sure that during the device mounting, the cables being connected to “Syrena” and “Lampa” (especially “Syrena”) carry no control voltages, otherwise a sound and/or optical alarm might be triggered. The duration of alarm signals is determined by the time of application of the control voltages.

The device sound volume can be set using a jumper (see drawing of the device interior) The jumper designation and the meaning of its settings have been shown on the drawings below.



The SL-21 signaling device is protected against reversal of control voltages polarity and their instantaneous overvoltage.

## TECHNICAL DATA

Model	SL-21
External power supply voltage	12V DC (nominal), allowed: 10.5V ÷ 13.8V
Current consumption @ 12V DC	max 90mA (sound & optical signaling)
Operating temperature range	-25°C ... +60°C
Optical signalling	1,2 Hz pulsing; red LED's
Sound level @ 12V DC	- low volume ca 103 dB/30cm - high volume or ca 110 dB/30cm
Dimensions	183 x 310 x 75 mm (H x W x D in mounting positions)
Housing / protection class / weight	ABS / IP44 / 0,7 kg