



**Clock  
Systems  
Service**  
Precision Timing Solutions

## Technical and Operational Manual

### Industrial acoustic siren 88dB Product Code:

- 106-01-01



\* Explanatory figure

# Table of Contents

|                                                        | Page Number |
|--------------------------------------------------------|-------------|
| 1. Manufacturer                                        | 3           |
| 2. Specifications                                      | 3           |
| 3. Transport and Storage                               | 3           |
| 4. Device Construction                                 | 3           |
| a. Construction of industrial sound signal 88dB        | 4           |
| i. List of wires                                       | 4           |
| b. Dimensions of the device                            | 4           |
| c. Mounting the device                                 | 5           |
| 5. Installation                                        | 5           |
| a. Industrial sounder 88dB                             | 5           |
| b. Siren connection                                    | 6           |
| i. List of siren connections to RGB technology devices | 6           |
| 6. First launch                                        | 6           |
| 7. Disposal and recycling                              | 7           |
| a. Recycling of packing materials                      | 7           |
| b. Disposal of the device                              | 7           |
| 8. The most common mistakes made during assembly       | 7           |

## 1. Manufacturer

## 2. Specifications

### Industrial acoustic siren 88dB

|                                                     |                                |
|-----------------------------------------------------|--------------------------------|
| Dimensions of the device <sup>1</sup> (WxHxD) [mm]: | 80 x 152 x 62                  |
| Permissible input voltage range (long-term):        | 100 ÷ 240 VAC                  |
| Permissible input voltage frequency range:          | 47 ÷ 63Hz                      |
| Sound Pressure:                                     | 88 – 92dB                      |
| Maximum power consumption:                          | 0.3W                           |
| Emission of electromagnetic disturbances:           | Complies with CENELEC EN 55014 |
| Operating temperature:                              | -25°C ÷ 50°C                   |
| Protection class IP2:                               | 43                             |
| Scales:                                             | 0.18Kg                         |

<sup>1</sup> The dimension of the internal module refers to the body of the device.

## 3. Transport and Storage

The device is sensitive to mechanical damage. Care should be taken to ensure that during transport it is properly secured so as to eliminate possible damage. It is forbidden to transport the components of the device separately in a collective packaging - each element must be packed separately and must not be able to 'bump' during transport.

Due to the protective packing the module should be stored in the temperature not lower than - 25°C and not higher than +60°C at the humidity below 99%RH.

## 4. Device Construction

The 88dB industrial sound signal consists of a siren, a power cord and a cable through the cigarette box.

## 4.a Construction of the industrial sound alarm 88dB



det. A – industrial sound signal 88dB; det. B – power cord; det. C – relay cable;

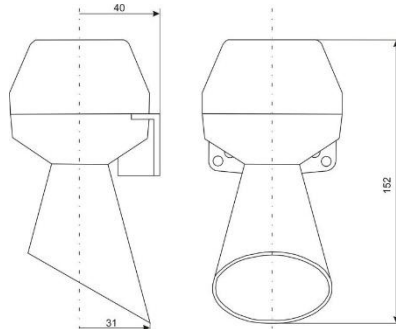
### 4.a.i List of cables

- A. Two-metre AC power cord (2 x 0.5mm<sup>2</sup>), terminated with a plug
- B. Relay cable with a length of 2m (2x0.5mm<sup>2</sup>) terminated with clamped sleeves.

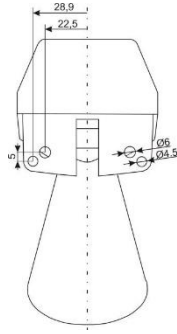
<sup>2</sup> Degree of protection based on EN 60529.

## 4.b Dimensions of the device

All the dimensions shown in the drawings are given in [mm]:

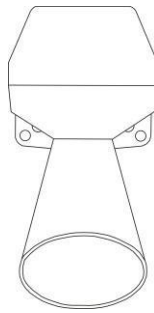


#### 4.b.i Mounting the device



### 5. Installation of the device

A properly installed device should be mounted with a signalling cup and wires downwards as shown below.



**NOTICE!** Before proceeding with any assembly or operation, read the instructions provided by the manufacturer. Improper connection to the power supply network, ill-considered installation of the device or improper operation may be the result of material losses. In addition, failure to follow the manufacturer's recommendations may void the warranty.

**NOTICE!** Remember to keep all components mounted with the wires facing down.

**NOTICE!** It is forbidden to create additional mounting points and holes in the components of the device as well as in the device.

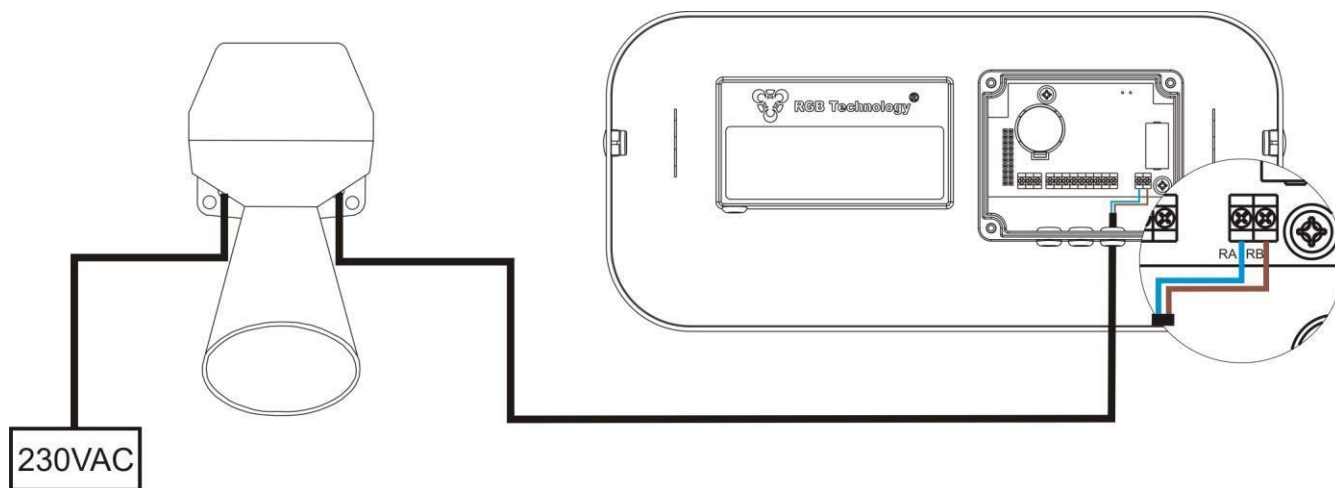
#### 5.a Industrial sound alarm 88dB

The device is designed for sound signalling of programmed events such as alarms in clocks. The device is fully compatible with RGB Technology products enabling such signalling.

## 5.b Connecting the siren

The diagram shows an example connection to the ZA5 clock according to product code 301-01-01-001.

**NOTICE!** Before connecting, make sure that the siren is disconnected from the mains. In case of problems, please contact RGB Technology Technical Support.



### 5.b.i List of siren connection to RGB Technology devices

The relay cable coming out of the RGB Technology device should be connected accordingly:

- Blue wire -> RA connector of the relay;
- Brown conductor -> relay RB connector;

## 6. First launch

- Make sure that all wires are connected correctly,
  - Make sure that all components are mounted in the correct orientation (**cup and wires pointing downwards**),
  - Connect the RGB Technology device and the 88 dB industrial sounder to the power supply,
- Step 4: A properly connected system should start signalling programmed alarms, events.

## **7. Disposal and recycling**

### **7.a Recycling of packaging materials**

The packaging materials must be segregated, then recycled in accordance with local regulations for waste disposal regulations.

### **7.b Disposal of the device**

The device must not be disposed of along with ordinary municipal waste!

In accordance with Directive 2002/96/EC (WEEE), the user is obliged to hand over the damaged or destroyed equipment to the appropriate rendering facility in the event that there is no economically justified repair.



## **8. Most common mistakes made during assembly**

- 1.** Incorrect orientation of the siren
- 2.** Drilling additional holes in the casing