

# Outdoor acoustic-optical siren BM6001P

## Basic features

BM6001P is an outdoor acoustic-optical siren, designated for burglary, assault and fire protection alarm systems. Source of acoustic signal is high effectiveness of piezoelectric transducer. Source of optical signal are 24 super bright red LEDs. The casing has anti-tampering protection from cover opening and from detachment of the base. One of its advantages is very high mechanical shock resistance thanks to using mixture polycarbonate and ABS. A movable element with a microswitch is an effective anti-clogging protection. Circuit impregnation assures high reliability even in severe weather conditions.

## The way of operation

- Siren BM6001P is equipped with separate control inputs for optical and acoustic parts.
- To turn on an acoustic alarm, change state on input **S**. Different ways of turning an acoustic alarm on is chosen by jumpers:
  - connect power supplying - put jumpers **PS-** and **S+** on
  - disconnect power supplying - put jumpers **PS-** and **S-** on
  - connect ground - put jumpers **PS+** and **S-** on
  - disconnect ground - put jumpers **PS+** and **S+** on
- The duration of the acoustic alarm (generated when the power supply is cut off) is chosen by 3 jumpers: **S1**, **S4**, **S16** (1min or 4min or 16min respectively).
- BM6001P signalling device offers 2 alarm tones chosen by 2 jumpers (**M1**, **M2**).
- To turn on an optical alarm change state on input **L**. Different ways of turning an optical alarm on is chosen by jumpers:
  - connect power supplying - put jumpers **PL-** and **L+** on
  - disconnect power supplying - put jumpers **PL-** and **L-** on
  - connect ground - put jumpers **PL+** and **L-** on
  - disconnect ground - put jumpers **PL+** and **L+** on
- The duration of the optical alarm (generated when the power supply is cut off) is chosen by 3 jumpers: **L1**, **L4**, **L $\infty$**  (1min or 4min or until internal battery will be discharged).
- External power supplying 13,8VDC should be connected to **Vdd** and **GND** pins.
- BM6001P signalling device has 3 anti-tampering protection. The first microswitch detects opening the cover, the second is used for anti-clogging protection. Detachment off the base causes breaking PCB and cutting anti-tampering circuit. Anti-tampering circuit output is connected to pins **SAB**. In normal mode this output is short (NC). Taking jumper **JPS** away causes changing of resistance anti-tampering circuit from short into 5,6k $\Omega$ .
- BM6001P signalling device can be activated when releasing input signals duration is longer that 250 ms. Limit 250 ms protects from false alarms.
- The signalling device works as long as the signal release is active.

## Technical data

Sound pressure level – 115dB/m

Nominal power supplying – 13,8 VDC

Max. current consumption – 300 mA

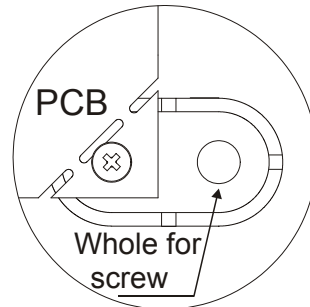
Dimension – 330 x 190 x 85 mm

Internal rechargeable battery – 12V 1,2Ah

Signalling device has been TECHOM certificated with the class C.

### **Attention:**

- Anti-tampering protection from detachment off the base will operate properly if you screw the back cover element to the wall.



- During installation process do not forget to connect internal battery.

## PCB

### **Inputs / Outputs / Configuration**

- Vdd (+13,8V external power supply)
- GND (ground)
- S (releasing input for sound)
- L (releasing input for lamp)
- SAB (anti-tampering protection output – 2 pins)
- PS-/PS+ (the choice of optical input polarization)
- PL-/PL+ (the choice of acoustical input polarization)
- JPS (the choice of anti-tamper circuit resistance)
- L+/L- (the choice of optical release between power and GND)
- S+/S- (the choice of acoustical release between power and GND)
- M1/M2 (the choice of acoustic alarm tones)
- L1/L4/L $\infty$  (duration of the optical alarm when the power supply is cut off)
- S1/S4/S16 (duration of the acoustic alarm when the power supply is cut off)

