

Outdoor acoustic-optical siren BM4001P



Basic features

BM4001P is an outdoor siren, designated for burglary, assault and fire protection alarm systems. Source of acoustic signal is high effectiveness piezoelectric transducer. Source of optical signal is bulb 12V-5W. The casing has anti-tampering protection from clogging, from detachment off the base and from cover opening. One of its advantages is very high mechanical shock resistance thanks to using the mixture of polycarbon and ABS. Circuit impregnation assures high reliability even in severe weather conditions.

The way of operation

BM4001P siren 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 supply (*put jumpers 'PS-' and 'S+' on*)
- disconnect power supply (*put jumpers 'PS-' and 'S-' on*)
- connect ground (*put jumpers 'PS+' and 'S-' on*)
- disconnect ground (*put jumpers 'PS+' and 'S+' on*)

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 supply (*put jumpers 'PL-' and 'L+' on*)
- disconnect power supply (*put jumpers 'PL-' and 'L-' on*)
- connect ground (*put jumpers 'PL+' and 'L-' on*)
- disconnect ground (*put jumpers 'PL+' and 'L+' on*)

The choice of input polarisation - jumpers **PS-**, **PS+**, **PL-**, **PL+**.

The choice of release between power or GND - jumpers **S-**, **S+**, **L-**, **L+**.

The siren can be activated when releasing input signals duration is longer that 250ms. Limit 250ms protects from false alarms.

BM4001P siren offers 2 alarm tones chosen by 2 jumpers (**S1**, **S2**).

Anti-tampering circuit output is connected to pins 'SAB'. In normal mode this output is short (NC). Taking jumper **JS** away causes changing of resistance anti-tampering circuit from short into 2,2kΩ.

External power supplying 13,8VDC should be connected to '+13,8V' and 'GND' pins.

The duration of the alarm (generated when the power supply is cut off) is chosen by 3 jumpers: **1**, **4**, **16** (1min, 4min, 16min respectively).

During installation process do not forget to connect internal battery.

Technical data

- Sound pressure level – 115dB/m
- Nominal power supplying – 13,8 VDC
- Max. current consumption in alarm mode – 0,3A
- Dimension – 145 x 260 x 82 mm
- Rechargeable battery 12V-1,2Ah

Attention! Siren change status to active after connect power supply from control panel.

Inputs / Outputs

- **+13,8V** (external power supply)
- **GND** (ground)
- **S** (releasing input for sound)
- **L** (releasing input for lamp)
- **SAB** (anti-tampering protection output – 2 pins)
- **ACP** (battery plus)
- **ACM** (battery minus)
- **P** (output piezoelectric transducer)
- **L1, L2** (output bulb light)

