GB

**HP201**
**HP202L**
**HP202LG**

External Siren

Installation Manual

IS2033-AC

C E

ELKRON

# CONTENTS

# 1.00 General  description

| MODEL | FILAMENT FLASHER | INTERNAL PROTECTIVE CAGE (HP7410111) |
|---|---|---|
| HP 201 | NO | OPTIONAL |
| HP 202 L | YES | OPTIONAL |
| HP 202 LG | YES | YES |

- High mechanical resistance polycarbonate external box.
- Controls managed by microprocessor.
- BL and TC lock inputs with positive or negative reference.
- Possibility of programming sounder when lock signal is permanently down.
- Sounder counter: up to 5 over 24h or per activation sequence (TC transition).
- Alarm log for units with TC output (flasher blinking).
- System status report function: TC signal absence from control panel will cause continuous flash blinking.
- Battery polarity inversion protection and power via control unit.
- Anti-opening and anti-removal protection.
- Initial lock function: the flasher will blink and the siren will not sound at first power-up ; connect lock signal (BL) and TC unit to set up siren for operation.
- Siren stops when the lock signal is down for **longer than the programmed time**. A new alarm cycle will be generated if the lock signal goes down again (see "Siren programming").
- Acoustic pressure: 104 dB(A) -  HP201 - HP202L models
  102 dB(A) -  HP202LG model
- Internal low battery saver function stops the flasher and privileges the siren.

# 2.00 Installation



**fig.1**

internal cage fastening screw hole

external cover fastening screw hole

internal cage fastening screw hole

external cover fastening screw hole

hole for fastening to wall

wire hole

hole for fastening to wall

12V 1.9Ah battery compartment

external cover fastening screw hole

wire hole

hole for fastening to wall

hole for fastening to wall

anti-removal and anti-opening limit switch

internal cage fastening screw hole

internal cage fastening screw hole

1) Disconnect siren module speaker wires. Remove the speaker from the housing by loosening the fastening screw and releasing the support (see figure 2).

2) Fasten the bottom of the siren to the wall using the bolts and holes provided (see figure 1).

3) Insert the speaker module by fastening it to the support and securing it with the specific screw.

4) Connect the terminal board (see section 3.00) and the flasher. Connect the two anti-opening/anti-removal limit switch wires to the siren module tamper terminals. Program the siren (see section 4).

5) Remove the adhesive tape (A) holding the anti-opening/anti-removal limit switch and lift it . The screw on which the limit switch rests is calibrated by the manufacturer to close the contact when the cover is fitted.



**fig.2**
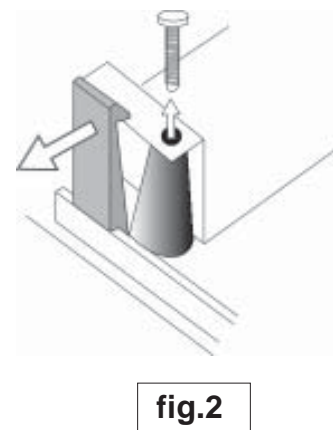
Either tighten or loosen the screw as required if the switch is not closed because the supporting wall is rough. Close the limit switch (B).

6) Fit the 12V 1.9Ah battery in the housing and connect the fast-on: red wire to positive, black wire to negative. The siren will not sound and the flasher will blink at the first power-on. The unit will be set for operation after applying the lock signal (BL) and the TC signal.
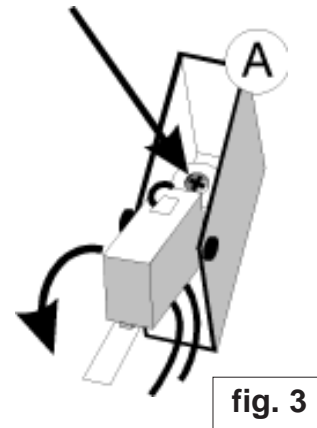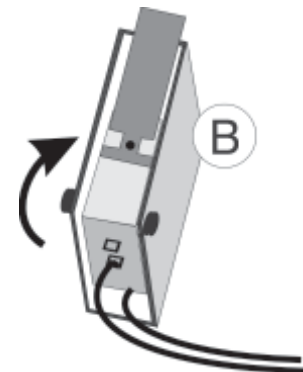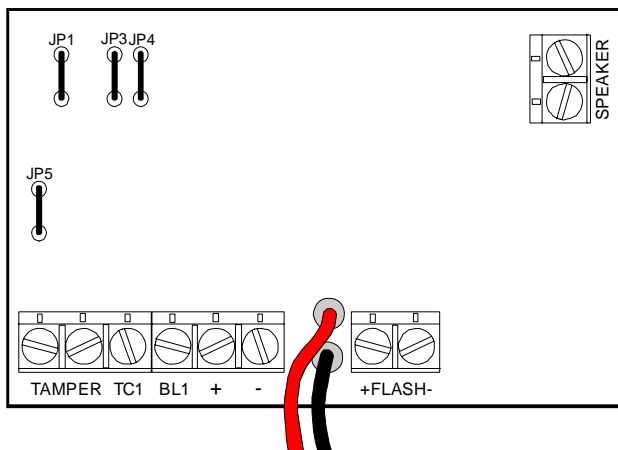


fig. 3

# 3.00 HP200 terminal board



| | |
|---|---|
| **TAMPER** | Supporting terminals for connect anti-opening/ anti-removal limit switch wires leading to control unit 24h input |
| **TC1** | Flasher lock TC1 input to connect to control unit TC referred to positive or negative (section 5.3) |
| **BL1** | Control input referred to positive or negative (section 5.3) |
| **+** | Module power positive |
| **-** | Power negative |
| **+FLASH-** | Flasher connection |
| **SPEAKER** | Speaker connection (short-circuit protected) |

# 4.00  Siren programming

## 4.1  Default programming

The siren can be programmed by either cutting or keeping a number of jumpers. The default settings are all closed. The siren can be programmed in the following way:

- **maximum siren time** = **3 minutes**
- **input reference** = **positive**
- **system status report** = **disabled**

## 4.2  Sounder time programming

- This function is used to program the maximum delay after which the siren will automatically stop if the lock signal persists (this function is useful is the wire was cut). The siren will generate a new alarm cycle the next time the lock signal goes down.
JP3 CLOSED - JP4 CLOSED:sounder time = 3 min
JP3 CLOSED - JP4 OPEN:    sounder time = 6 min
JP3 OPEN- JP4 CLOSED:    sounder time = 9 min
JP3 OPEN- JP4 OPEN:        sounder time = 30 min

JP3 JP4
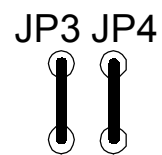
## 4.3  BL1 and TC1 input reference

- This function is used to program the BL1 and TC1 input references to either positive or negative.
JP5 CLOSED: POSITIVE REFERENCE
JP5 OPEN: NEGATIVE REFERENCE

JP5

## 4.4  System status report

- Should this function be enabled, TC signal absence will cause continuous flash blinking.
  **NOTE: when this function is enabled, alarm memory function won't be available.**
JP1 CLOSED: FUNCTION DISABLED
JP1 OPEN: FUNCTION ENABLED

JP1

# 5.00  Alarm management

- The siren generates an alarm only when both the TC signal and the lock signal are down.
- The lock signal alone is sufficient to stop an alarm in progress.
- After locking the alarm, the flasher will continue blinking to signal the alarm presence until the TC signal is received (to deactivate the system).
- The alarm counter is reset either each time the system is switched off or after 24h from the beginning of the first sounder operation. Only sounder cycles longer than 25s are considered for this purpose.
- The sounder counter and the alarm memory are cut off by connecting TC and BL in parallel.
- Only alarms longer than 25 s are considered.

# 6.00 Technical specifications

Nominal power voltage .............................................................. 13.8V—
Minimum/maximum working voltage .......................................... 10.5V – 15V—
NC positive input lock voltage ................................................... 5.5 V at nominal voltage
Stand-by consumption .............................................................. 9 mA
Alarm consumption ................................................................... 1.3 A with flasher
HP202L/HP202LG maximum alarm consumption ..................... 0.7 A
HP202L/HP202LG filament bulb ................................................ 12V 10W
Certified casing degree of protection (CEI 70.1 standards) ........ IP34
Casing degree of protection stated by manufacturer .................. IP43
IK* mechanical degree of resistance (CEI 70.3 standards) ........ IK08
Operating frequency .................................................................. min/max    1400 –1600 Hz
Acoustic pressure (models with internal cage) .......................... 102 dB(A) @ 3 m.
Acoustic pressure (models without internal cage) ..................... 104 dB(A) @ 3 m.
Allocable battery ....................................................................... 12V 1.9Ah; 12V 2Ah; 12V 2.1Ah
Anti-tamper feature ................................................................... 1A @ 24V—
Working temperature range stated by manufacturer .................. - 25°C / + 70° C
Low battery threshold voltage ................................................... ≤ 10.8V
Dimensions:
HP201 model ............................................................................. 212 x 240 x 78 (l x h x d)
HP202L, HP202LG model .......................................................... 212 x 270 x 78 (l x h x d)


\* characteristics stated by manufacturer (but not certified)
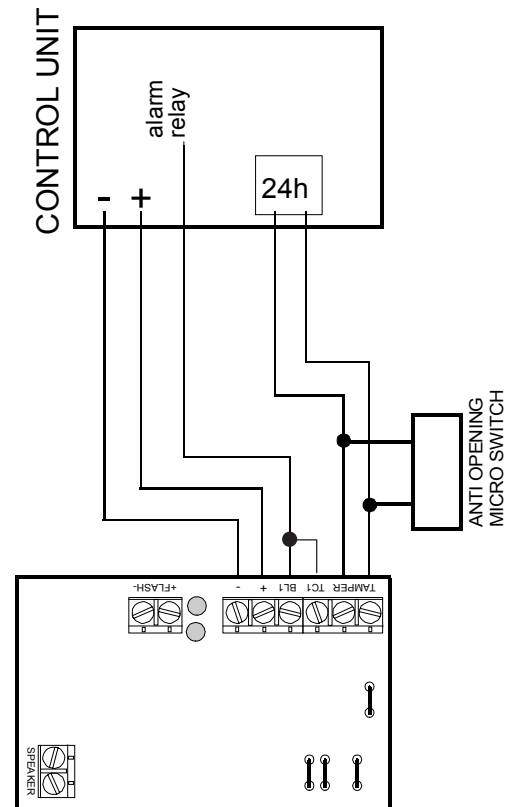
# 7.00 Examples of connection

**Example of connection with TC**
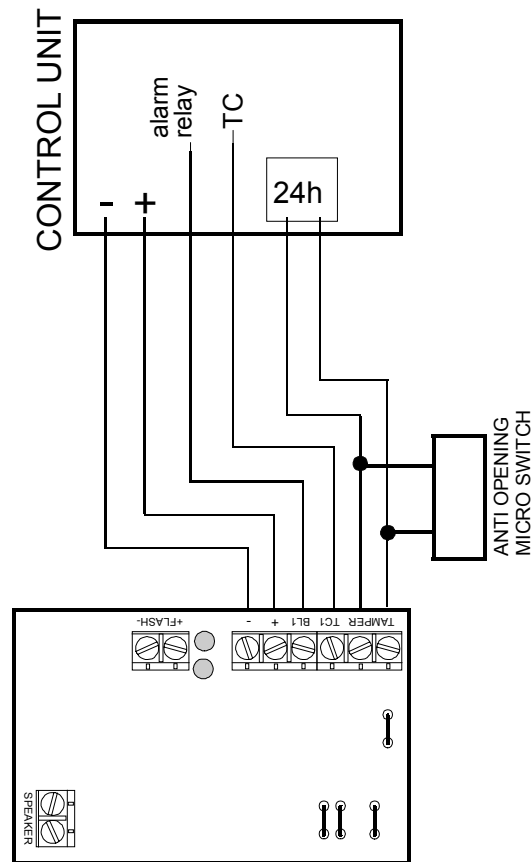


**Example of connection without TC**

In this configuration, the flasher only blinks at the end of the sounder cycle and there are no sounder counter function and system status report.

# (((((ELKRON)))))