

## Pinout of the keyboard unit of the PIN Alarm System

	PIN Nr.	PIN Nr.	Main
+12V Inp (+)	1	15	Out PIR1 +12V (p+)
GND Inp (-)	2	16	Out PIR2 +12V (p+)
GND Out (-)	3	17	Out Siren (S+)
+12V Out (+)	4	18	Out Siren (S-)
Kline (D)	5	19	Inp Trailer Connect +
GND (-)	6	20	Inp Trailer Connect -
Tamper (Ta)	7	21	<b>GND Sens (-)</b>
Inp2 (i2)	8	22	Inp PIR 1 (P1)
Inp1 (i1)	9	23	Inp PIR 2 (P2)
Inp Trailer (Mo)	10	24	Inp Light (Li)
Out1 (o1)	11	25	<b>Inp Door sens (Fi)</b>
Out2 (o2)	12	26	GND Sens (-)
outArm/disarm (Ar)	13	27	RS485 (Tx)
GND (-)	14	28	RS485 (Rx)

## **Input supply voltage**

**PIN 1 (+)** - Input supply voltage of the unit +12 Volts

**PIN 2 (-)**-Earth. Block input voltage

## **TAMPER input**

**PIN 6 (-)**-Earth. GND additional sensors

**PIN 7 (Ta)** - Input of the sensor for closing the keyboard case. A GND must always be connected to this input. If the GND disappears at this input, the Alarm System will automatically stop being controlled from the GSM module (the PIN 8 (i2) and PIN 9 (i1) inputs are blocked). If the alarm is on, when the GND disappears, the alarm will go off.

If the keyboard opening sensor is triggered when the Alarm System is On or Off, the display will show error code E10.

**Attention!!!** The control blocking mode from the GSM module is removed automatically 10 minutes after the GND is applied to the PIN 7 (Ta) input or after the alarm is turned off through the keypad.

## **Control inputs from the GSM module**

**PIN 7 (Mo)** - object movement signal input. Object is moving-0 Object is standing-1

**PIN 8 (i2)** - central lock control input. Close open/open.

The lock control algorithm is transmitted to the consumer upon request.

**PIN 9 (i1)** - input for changing the lock control code from the keypad.

The algorithm for changing the lock code is transmitted to the consumer upon request.

## **Control outputs from the GSM module**

**PIN 11 (o1)** - Lock status output. Closed- 1 Open- 0

**PIN 12 (o2)** - Door status output. Closed - 1 Opened - 0

**PIN 13 (Ar)** - Lock status output. Alarm enabled-0 disabled-1

0,1-logical levels. 0-ground 1-logical + (input pull-up to plus is present on the board).

**PIN 14 (-)**-Earth. GND additional sensors or GSM module.

## Controlled +12 V power supply for external sensors.

**PIN 15 (p+)** - power output +12 V 1A (thermal fuses) to external sensors.

**PIN 16 (p+)** - power output +12 V 1A (thermal fuses) to external sensors.

In order to reduce the energy consumption of the device. When the alarm is turned on, these outputs are energized. When the alarm is turned off, it disappears.

## Siren

**PIN 17 (S+)** - siren control output +12 V 3A (SMD fuse on the board).

It can be used as an output signal when an alarm is triggered on the GSM module.

**PIN 18 (S-)** - GND siren constant

## Lin line\*

**PIN 19 (tD)** - Plus. Isolated (via opto-pair) channel for transmitting and receiving information to the VIB block (truck alarm)

**PIN 20 (tG)**-GND opt. Isolated (via opto-pair) channel for transmitting and receiving information to the VIB block (truck alarm)

## External sensor inputs

**PIN 21 (-)**-Earth. Minus additional sensors

**PIN 22 (p1)** - Sensor input (eg motion sensor). In the alarm mode, when the ground is applied, the alarm will go off.

If this input is triggered when the alarm is turned on or off, the display will show the error code E100.

If available on PIN 7 (Mo) - motion signal input. Object moving-0 This input is disabled.

**PIN 23 (p2)** - Sensor input (eg motion sensor). In the alarm mode, when the ground is applied, the alarm will go off.

If this input is triggered when the alarm is turned on or off, the display will show error code E200

If available on PIN 7 (Mo) - motion signal input. Object moving-0 This input is blocked.

**PIN 24 (Li)** - Sensor input (eg light sensor). In the alarm mode, when the ground is applied, the alarm will go off.

If this input is triggered when the alarm is turned on or off, the display will show error code E400

**PIN 25 (Fi)** – Door sensor input. In the alarm mode, when the earth appears, the alarm will

armed.

If this input is triggered when the alarm is turned on or off, the display will show error code E400

**PIN 26 (-)-Earth.** Minus additional sensors

### Data link RS232

**PIN 27 (Tx) - RS232 (Tx)**

**PIN 28(Rx)-RS232(Rx)**

The RS232 protocol is transmitted to the consumer upon request.

**Table of error codes.**

DigNr	Display Error Code Value	
<b>3</b>		
<b>E010</b>	<b>Tamper Keyboard</b>	<b>The keyboard case is open. Entrances blocked lock control with GPS module. Must be unlocked with keypad using a PIN code.</b>
<b>E020</b>	<b>Tamper Right door*</b>	<b>Lock case open. Must be unlocked with keypad using a PIN code.</b>
<b>E030</b>	<b>Keyb.</b>	<b>Keypad is open. Entrances blocked lock control with GPS module. Must be unlocked with keypad using a PIN code.</b>
<b>4</b>		
<b>E001</b>	<b>Door sensor*</b>	<b>Door sensor in open position.</b>
<b>E004</b>	<b>Comm Right door*</b>	<b>No signal from lock ACT unit.</b>
<b>E005</b>	<b>Door + Comm Right* door</b>	<b>No signal from the door sensor and lock block</b>
<b>ERR*</b>	<b>Display Error Code</b>	
<b>ERR0</b>	<b>Actuator state unknown*</b>	<b>The lock is blocked/the lock block is not assigned to the keyboard.</b>
<b>ERR1</b>	<b>Lock status Error*</b>	<b>The keyboard does not see the position of the lock</b>
<b>ERR4</b>	<b>Open / close PIN Failed</b>	<b>Incorrect PIN code for the alarm is turned on or off.</b>
<b>ERR5</b>	<b>Config PIN1 Failed</b>	<b>The user tried to enter the configuration menu #</b>
<b>ERR6</b>	<b>Config PIN2 Failed</b>	<b>The user tried to enter the configuration menu #</b>

\*-only for Smart Lock unit

