

eldes



LED KEYPAD

EKB3

User Manual v1.2

Compatible with:

- ESIM264 v07.14.02 and up.
- ESIM364 v02.06.01 and up.

Main features:

- Alarm system arming & disarming;
- Stay mode activation & deactivation;
- System parameter configuration;
- PGM output control;
- Visual indication by LED indicators;
- Audio indication by built-in buzzer;
- Keypad partition switch.

EKB3 is a LED keypad intended to use with ELDES alarm systems. The system configuration by EKB3 keypad is performed by activating the **Configuration Mode** and entering the required parameters & values. ELDES alarm systems allow to connect up to 4 EKB3 keypads.

NOTE: For complete system configuration & control using EKB3 keypad, please refer to ELDES alarm system installation manual located at: www.eldes.it/en/download

1. Package content

- 1. EKB3 qty. 1
- 2. User manual qty. 1
- 3. 5,6k Ω resistor qty. 1

2. Technical specifications

2.1 Electrical and mechanical characteristics

Power supply	12-14V — 150mA max
Maximum Keypad Connection Cable Length	100 m.
Dimensions	140x100x18mm
Range of Operating Temperatures	-30...+55°C

2.2 LED Functionality

ARMED	Alarm system is armed / Configuration mode
READY	System is prepared for arming
SYSTEM	System faults / violated high-numbered zones
BYPS	Zone bypass mode
1-12	Violated zone

2.3 Keys Functionality

[BYP]	Zone bypass mode
[CODE]	Additional options - system fault indication / violated high-numbered zone indication / violated tamper indication
[*]	Cancel command
[#]	Confirm (enter) command
[0] ... [9]	Command typing
[1] ... [4]	Keypad partition switch / armed partition indication / violated partition indication
[0]	4 partitions arming
[STAY]	Manual system arming in Stay mode
[INST]	N/A

2.4 Connector functionality

AUX+	Positive 12-14V — power supply terminal
AUX-	Negative 12-14V — power supply terminal
G	RS485 interface for communication (green wire)
Y	RS485 interface for communication (yellow wire)
COM	Common terminal for Z1
Z1	Security zone terminal
Z2	N/A

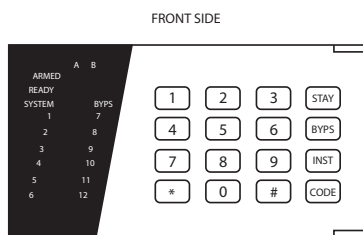


Fig. No. 1

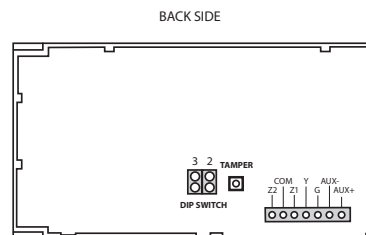






Fig. No. 2

2.5 Keypad Address

Jumpers 2 and 3 located on the back side of the keypad are intended to set keypad address. The keypad address is configured by setting the jumper positions. ELDES alarm system allows to connect up to 4 EKB3 keypads - each set under different address. Jumper combinations for different keypad address configuration are indicated in the table below.

Contacts Position	Address
	Keypad 1
	Keypad 2
	Keypad 3
	Keypad 4

The address of each connected keypad is also indicated in *ELDES Configuration Tool* software.

3. Installation

1. Detach keypad holder from EKB3 front side . Keypad holder detach points are marked with arrows (see Fig. No. 3).

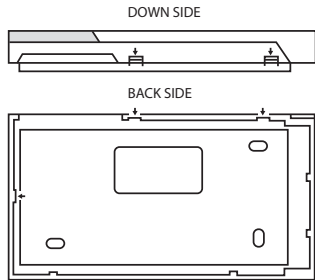


Fig. No. 3

2. Disconnect alarm system ELDES alarm system power supply and backup battery before connecting the wires.
3. Fix the keypad holder on the wall using the screws.
4. Wire up keypad terminals to ELDES alarm system respectively – **AUX+** to **AUX+**, **AUX-** to **AUX-**, **Y** to **Y**, **G** to **G** (see Fig. No. 4).
5. Connect a sensor and the resistor across **Z1** and **COM** terminals in accordance with zone connection Type 1 or Type 2 (see alarm system installation manual). As keypad zone Z1 is disabled by default, it can be enabled by SMS, *ELDES Configuration Tool*, EKB2, EKB3 and EKB3W keypad. Z2 terminal is permanently inactive. Keypad zone Z1 must be enabled and resistor connected even if the tamper button alone is required (see Fig. No. 4).
6. Set the keypad address by combining jumper positions (see **2.5 Keypad Address**).
7. Infix the keypad into the holder (see Fig. No. 3).

ATTENTION! Before fixing the keypad into the holder please , make sure that the tamper is properly pressed (see Fig. No. 2).

8. Power up ELDES alarm system.
9. EKB3 keypad is ready.

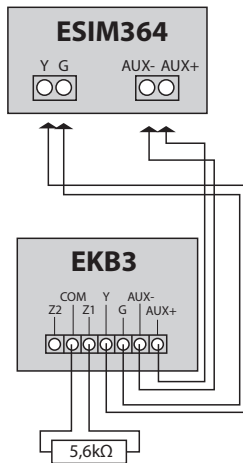


Fig. No. 4

4. EKB3 Zone and Tamper

Keypad EKB3 has one wired zone **Z1** and one tamper button. By default, the keypad zone **Z1** is disabled. The keypad zone can be enabled by SMS, keypad and *ELDES Configuration Tool*. When **Z1** is enabled, it operates like any other system zone, therefore a sensor can be connected to it. In addition, **Z1** and **COM** terminals must be connected with resistor of 5,6kΩ nominal.

The tamper button is intended for monitoring the enclosure status of EKB3, therefore the system causes alarm if the enclosure is illegally opened. Keypad zone **Z1** must be enabled and resistor connected even if the tamper button alone is required.

5. Partition Control and Indications

ATTENTION: The features described below are only available with the system ESIM364 and requires keypad partition switch feature.

To switch the keypad partition using EKB3 keypad, please press and hold [1]... [4] key for 2 seconds to apply the command. Upon successful keypad partition change, the keypad buzzer will emit three short beeps.

In case of an alarm, [1]... [4] key will flash in orange, corresponding the partition that contains violated zones/tampers.

Arming/disarming

To arm the partition that the keypad is switched to, please enter a valid user password, assigned to the respective partition. The armed partition number will be indicated by illuminated [1]... [4] key in orange.

To arm all 4 partitions simultaneously, please follow these steps:

1. Press and hold [0] key.
2. Keep holding the key until you hear three short beeps.
3. Release the key and enter a valid user password, assigned to all 4 partitions.

Upon the successful arming process, [1], [2], [3], [4] keys will light ON in orange.

6. Additional Information

Limited Liability

The buyer must agree that the system will reduce the risk of fire, theft, burglary or other dangers but does not guarantee against such events. "ELDES UAB" will not take any responsibility regarding personal or property or revenue loss while using the system. "ELDES UAB" liability according to local laws does not exceed value of the purchased system. "ELDES UAB" is not affiliated with any of the cellular providers therefore is not responsible for the quality of cellular service.

Manufacturer Warranty


The system carries a 24-month warranty by the manufacturer "ELDES UAB". Warranty period starts from the day the system has been purchased by the end user. The warranty is valid only if the system has been used as intended, following all guidelines listed in the manual and within specified operating conditions. Receipt must be kept as a proof of purchase date. The warranty is voided if the system has been exposed to mechanical impact, chemicals, high humidity, fluids, corrosive and hazardous environment or other force majeure factors.

Safety instructions

Please read and follow these safety guidelines in order to maintain safety of operators and people around:

- DO NOT use the system where it can be interfere with other devices and cause any potential danger.
- DO NOT use the system with medical devices.
- DO NOT use the system in hazardous environment.
- DO NOT expose the system to high humidity, chemical environment or mechanical impacts.
- DO NOT attempt to personally repair the system.

Keypad EKB3 is a device mounted in limited access areas. Any system repairs must be done only by qualified, safety aware personnel.

Keypad EKB3 must be powered by 12-14V  150mA power supply and must be approved by LST EN 60950-1 standard and be easily accessible.

Main power must be disconnected before any installation or tuning work starts. The system installation or maintenance must not be done during stormy conditions.



The WEEE (Waste Electrical and Electronic Equipment) marking on this product (see left) or its documentation indicates that the product must not be disposed of together with household waste. To prevent possible harm to human health and/or the environment, the product must be disposed on in an approved and environmentally safe recycling process. For further information on how to dispose of this product correctly, contact the system supplier, or the local authority responsible for waste disposal in your area.

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