

ERONE 433

EXTERNAL MINI RECEIVER FOR ALARM SYSTEMS



**MANUAL
INSTALLATION**

CE

SEL2641R433-4IA

Thank you for choosing a product Erone. You are recommended to read carefully this manual before installing the product.

1 - DESCRIPTION

1A - Introduction

The receiver ERONE 433 mod. SEL2641R433-4IA is a special appliance designed to fit into alarm systems.

The 4 relays outputs allows the following features:
wireless activation/deactivation of the alarm (total or partial)
receiver power failure alarm, single transmitter low-battery alarm and a anti-panic alarm.

The operating frequency is 433,92 MHz, with an AM/ASK demodulation.

The security protocol is based on the Keeloq® Hopping code system. A special algorithm allows to keep synchronised

transmitter and receiver.

The appliance has 4 relays with pure contacts outputs (NO and NC) and can be connected to any types of anti-burglar systems. The transmitter programming can be done in self-learning mode by means of one button.

The housing protection of IP65 allows external installations. Hereby, CDVI Wireless Spa, declares that the radio equipment type SEL2641R433-4IA is in compliance with directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.erone.com.

2 - TECHNICAL SPECIFICATIONS

Receiver type	Superheterodyne
Carrier frequency	433,92 MHz
Local oscillator frequency	6,6128 MHz
Demodulation	AM/ASK
Local Oscillator	VCO / PLL
Channel width	> 25 KHz
Intermediate frequency	10,7 MHz
Input sensitivity	-115 dBm
Local oscillator spurious emissions	< -57 dBm
Input load:	50 Ohm
Power supply:	12 / 24 Vac/dc
Consumption:	
Steady / 12 Vdc (2 relays excited)	15 mA / 49 mA
Steady / 24 Vdc (2 relays excited)	19 mA / 55 mA
Max applicable power	24 VA
Relay number	1, 2 or 4
Contacts	NO, NO/NC
Memory capacity	21 user codes
TX security code	Keeloq® Hopping code
	code
	2 ⁶⁴
Max code combination number	-20°/+70°C
Operating temperature	IP65
Housing protection	gr. 130
Weight	80 x 80 x 50
Overall dimensions (mm)	

Relay main features

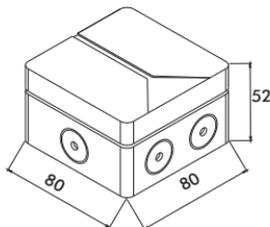
Relay K1/ ch1 : "Panic Alarm".

Relay K2/ ch2 : "Low battery" : Pulse or activation when a transmitter low-battery signal is received.

Relay K3/ ch3 : "System Set/Unset" : [Activated simultaneously with K4/ch4].

Relay K4/ ch4 : "Keypad disable" - Latch mode. [Activated simultaneously with K3/ ch3]

Fig. 1



3 - COMPOSITION

The receiver is composed by :

- 1 box with electronics
- 1 cover
- 2 screws
- 2 rubber caps
- 1 antenna net
- 2 screws with plugs

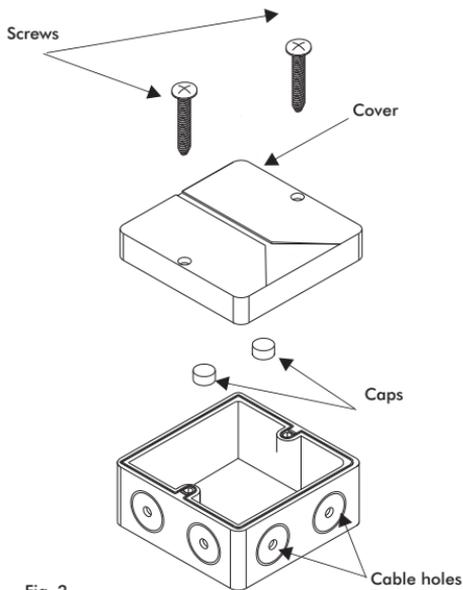


Fig. 2

4 - INSTALLATION

4.1 - Positioning

The receiver allocation is very important for the best operation of the system. Place the receiver far from interference sources as big magnetic fields, informatic systems, radio emissions. The installation and the antenna positioning is very important for the best receiving as well.

4.2 - Fixing

Remove the receiver cover.

Fix the box by using the screws and the plugs supplied

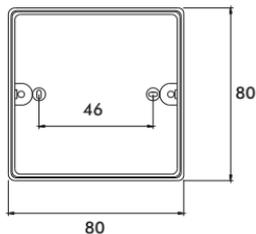


Fig. 3

At the end place the caps supplied over the holes to protect the screws head.

5 - LAYOUT CONNECTIONS

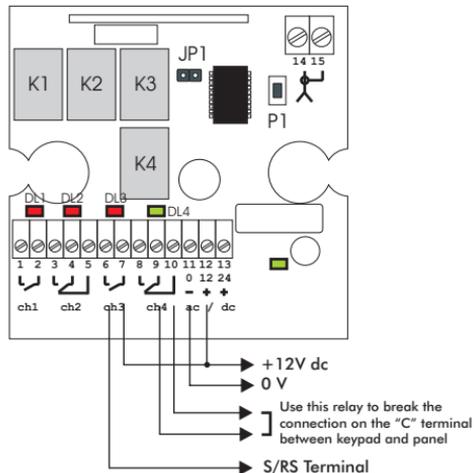


Fig. 4

5.1 - Contacts

terminal 1 =	Contact NO Relay1
terminal 2 =	Contact C Relay1
terminal 3 =	Contact NO Relay2
terminal 4 =	Contact C Relay2
terminal 5 =	Contact NC Relay2
terminal 6 =	Contact NO Relay3
terminal 7 =	Contact C Relay3
terminal 8 =	Contact NO Relay4
terminal 9 =	Contact C Relay4
terminal 10 =	Contact NC Relay4
terminal 11 =	Input supply Common
terminal 12 =	Input supply +12 Vac/dc
terminal 13 =	Input supply +24 Vac/dc
terminal 14 =	Pole Antenna
terminal 15 =	GND Antenna

5.2 - Relay K2 Configuration

K2 can be configured in latch or pulse mode. Close the jumper JP1 for the latch or let it open for the pulse.



6 - TX PROGRAMMING

K4 Memorization

Give the power supply to the receiver and verify the ON status of the led DL1.

Enter in programming mode with **P1** until **DL1** turns off and **DL4** turns on; Press and release **P1** until **DL1** turns on. Then push the key "A" of the transmitter: K4 gives a pulse to confirm. K4 has a latch operating mode: the key A of the transmitter activates the relay and the key B the release.

NOTE1 : K4 can be activate only by the key A of a transmitter. The release of K4 can be done even by the keys C or D of the transmitter. For this function enter in programming mode with **P1** until **DL1** turns off and **DL4** turns on.

Then push **P1** twice until **DL2** turns on: at this point push the transmitter key chosen for the system deactivation function (C or D). In this way the functionality of the key B is excluded.

K3 Memorization (partial activation)

Enter in programming mode with **P1** until **DL1** turns off and **DL4** turns on: release **P1** and press it again once, until **DL3** turns on.

Then push the key of the transmitter chosen for this function: **K3** gives a pulse to confirm.

From this time on, at each reception of the transmitter signal, **K3** and **K4** will be activated simultaneously.

The release of both is normally done by the key **B** (or by the other key choosen).

K1 Memorization (antipanic simulation)

Enter in programming mode with **P1** until **DL1** turns off and **DL4** turns on: release **P1** and press it again, until **DL1** turns on. Then push the key of the transmitter chosen for this function: **K1** gives a pulse to confirm.

From this time on, at each reception of the transmitter signal, the relay **K1**, normally activated, will be deactivated for **1 second**.

7 - TX CANCELLATION

Partial cancellation

Enter in programming mode by keeping the button **P1** pressed down until **DL1** turns off and **DL4** turns on. Release **P1** and push the key of the transmitter which has to be cancelled. If the transmitter was present in the memory, it will be cancelled, if not it will be memorized. If the above operation is done with the key **A**, the transmitter code is cancelled completely. Otherwise if the keys **B**, **C** or **D** are used, only the single functions are

removed. (This could be used to assign different functions to the transmitter keys).

Full memory cancellation

Keep the button **P1** pressed down until **DL1** turns off and **DL4** turns on: release **P1** and then press **P1** again and keep it pressed until 3 blinks of the red led **DL3** and green led **DL4** occur. In this way the memory is completely cancelled.

8 - OTHER FEATURES

Low battery Alarm

The relay **K2** is activated each time a transmitter low-battery signal is received.

The relay operating mode depends on the position of the jumper **JP1**, as shown in chapter 5.2:

- If the jumper **JP1** is open , **K2** is in pulse mode
- If the jumper **JP1** is closed, **K2** is in latch mode, and it releases when a normal battery signal is received, from any transmitter memorized.

Memory full

In case of full memory, that means **21** transmitters are already stored, if one try to store an extra transmitter, one blink of **DL3** and **DL4** simultaneously occurs and the operation fails.

GUARANTEE

The guarantee period of all Erone products is 24 months, beginning from the manufacturer date. During this period, if the product does not work correctly, due to a defective component, the product will be repaired or substituted at the discretion of the producer. The guarantee does not cover the plastic container integrity. After-sale service is supplied at the producer's factory.

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